882 FULTON STREET

BROOKLYN, NEW YORK

Block: 2011, Lot 30

Remedial Investigation Report

NYC VCP Site Number: 14CVCP227K

OER Project Number: 14EH-N226K

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Jason Cooper, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 882 Fulton Street Site, (OER Project Number 14EH-N226K and NYC VCP Site No. 14CVCP227K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Jason T. Cooper, CPG	7/14/2014	Jason T. Cooper
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 882 Fulton Street in the Clinton Hill section in Brooklyn, New York and is identified as Block 2011 and Lot 30 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 11,927-square feet and is bounded by Fulton Street to the north, an asphalt-paved parking lot to the south, Waverly Avenue to the east, and multi-story residential structures to the west along Clinton Avenue. A map of the site boundary is shown in Figure 2. Currently, the Site is not used for any purpose and contains an empty asphalt-paved parking lot with a chain-link fence along the perimeter.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new eight-story building, ground floor retail, and one level of cellar that will include vehicle parking and ground floor retail. The apartments will consist of mixed affordable and market rate housing. The proposed building development is expected to cover the entire footprint of the Site. The proposed development includes excavation to a depth of approximately 10-feet below grade with the exception of the below grade parking area, which includes excavation to a depth of approximately 23-feet below grade. An elevator pit at the western side of the Site will require excavation to a depth of approximately 15 feet below grade, and a trench in the parking area will require excavation to approximately 26 feet below grade. The soil excavation includes removal of approximately 4,191 tons of soil from the below grade parking area and 4,848 tons from the remainder of Site. A total of approximately 9,039 tons of soil will be excavated. Groundwater is expected to be encountered at approximately 65-feet below grade; therefore, excavation activities are not expected to encounter groundwater. Layout of the proposed site development is presented in Figures 6A-6I. The current zoning designation is R7A for residential use. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

According to a Phase I Report performed by D.V.D Environmental Inc. dated October 2013, the area has been developed prior to 1887. The following summarizes the previous usage of the Site using available Sanborn Maps.

- In the 1887 Sanborn Map the Property is identified as containing stores along the northern boundary, dwellings along the eastern boundary and Ackerman's Coal Yard near the center.
- In 1904, the Site contains stores along the northern boundary, a coal yard in the west and center of the Site and a stable near the eastern boundary.
- In 1915 the Site contains stores along the northern boundary, an area denoted as wagon sheds near the west and center portion of the Site.
- In 1938, 1950 and 1969 the Site contains a row of stores along the northern boundary and the remaining portion is denoted as garage with skylights.
- In 1977, 1979, 1980, 1981, and 1982 the Site is vacant and no use is denoted.
- In 1986, 1987, 1988, 1989, 1991, 1992, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006, and 2007 the Site is vacant; however, it is denoted as parking.

Previous ownership/usage of the Property was researched using the NYC Department of Building webpage. No Certificate of Occupancy was listed for the Site in the database.

A review of the NYC Department of Finance ACRIS system database identifies ownership for the Site from 1969 to present. Previous ownership includes White Memorial Chapels, Inc. from 1984 to 2013, La Juan Development Corp. from 1978 to 1984, City of New York from 1978 to 1984, Ivan E. Irizarry from 1976 to 1978, Prudential Savings Bank from 1973 to 1976, Henry Krissoff from 1971 to 1973 and Richlou Associates from 1969 to 1971.

The AOCs identified for this site include:

1. Four suspect underground storage tanks (USTs) located along the eastern portion of the Site. Soil boring and soil vapor points were installed in close proximity to the suspected USTs. No elevated photoionization detector (PID) readings were

detected and the laboratory data did not identify elevated levels of compounds typically associated with petroleum.

Summary of the Work Performed under the Remedial Investigation

500 Waverly Property Owner LLC (previously reported under the entity Orange Management LLC) performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed eight soil borings across the entire project Site to a depth of approximately 15-feet below grade, and collected 16 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Attempted to install one groundwater monitoring well along the downgradient portion of the Site. Sub-surface conditions provided for difficult drilling, which only reached a depth of approximately 29-feet below grade. The difficult drilling conditions were conveyed to OER. Two soil samples were collected from this boring from 2-4 and 4-6 feet below grade.
4. Installed four soil vapor probes around Site perimeter and one soil vapor probe in the center of the Site. A total of five samples were collected for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 78 to 79 feet.
2. Depth to groundwater ranges is unknown at the Site. However, it is expected to be encountered at approximately 65-feet below grade.
3. Groundwater flow is expected to flow from east to west beneath the Site based upon topographic gradient.
4. Bedrock was not encountered at the Site
5. The stratigraphy of the site, from the surface down, consists of approximately 10-feet of urban fill underlain by native fine sand and silt.

6 Soil/fill samples collected during the RI showed no VOCs or PCBs were detected above NYSDEC Part 375 Table 375-6.8 Soil Cleanup Objectives (SCOs) for Unrestricted Use in any of the samples. No SVOCs or pesticides were detected in the deep samples above Unrestricted Use SCOs. Several SVOCs including benzo(a)anthracene (maximum [max.] of 11,000 micrograms per kilogram [µg/kg]), benzo(a)pyrene (max. of 9,400 µg/kg), benzo(b)fluoranthene (max. of 9,100 µg/kg), benzo(k)fluoranthene (max. of 7,800 µg/kg), chrysene (max. of 11,000 µg/kg), dibenzo(a,h)anthracene (max. of 1,600 µg/kg), and ideno(1,2,3-c,d)pyrene (max. of 6,800 µg/kg) exceeded Unrestricted Use and Restricted Use SCOs in five of the shallow samples as well as in one deep sample. The pesticides 4,4'-DDE (max. of 24 µg/kg) and 4,4'-DDT (max. of 22 µg/kg), were detected above Unrestricted Use SCOs in four shallow samples. Metals including lead (max. of 128 milligrams per kilogram[mg/kg]), mercury (max. of 0.747 mg/kg), and zinc (120 mg/kg) were detected at concentrations above Unrestricted Use SCOs in four shallow samples. The metals chromium (36.3 mg/kg) and nickel (32.4 mg/kg) were each detected slightly above Unrestricted Use SCOs in two deep samples (SB-6 and SB-3), respectively.

7 No groundwater samples were collected during the RI.

8 Soil vapor samples collected during the RI showed that the chlorinated solvents 1,1,1-trichloroethane (TCE), carbon tetrachloride, tetrachloroethylene (PCE), and trichloroethylene were detected below their respective guidance values in all five soil vapor samples. TCE was detected at a maximum concentration of 4.1 $\mu g/m^3$ and PCE was detected at a maximum concentrations of 14 $\mu g/m^3$. Several other gasoline-related compounds, benzene, toluene, ethyl benzene, and xylenes, were detected at relatively low concentrations (below 100 $\mu g/m^3$). Other compounds detected at relatively high concentrations included acetone (max. of 226 $\mu g/m^3$), carbon disulfide (max. of 604 $\mu g/m^3$), cyclohexane (max. of 226 $\mu g/m^3$), heptane (max. of 139 $\mu g/m^3$), hexane (max. of 272 $\mu g/m^3$), and propylene (max. of 2,030 $\mu g/m^3$).

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

500 Waverly Avenue Owner LLC plans to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.27-acre site located at 882 Fulton Street in the Clinton Hill section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between October 9, 2013 and October 11, 2013. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 882 Fulton Street in the Clinton Hill section in Brooklyn, New York and is identified as Block 2011 and Lot 30 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 11,927-square feet and is bounded by Fulton Street to the north, an asphalt-paved parking lot to the south, Waverly Avenue to the east, and multi-story residential structures to the west along Clinton Avenue. A map of the site boundary is shown in Figure 2. Currently, the Site is not used for any purpose and contains an empty asphalt-paved parking lot with a chain-link fence along the perimeter.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new eight-story residential apartment building with a cellar. The cellar will occupy the full footprint of the Site with the exception of a 16 foot setback at the northern perimeter due to the Fulton Street MTA subway line, and will be utilized for retail storage, tenant storage, amenities, and parking. The first floor of the building will occupy the full footprint of the Site and will be utilized for retail, a lobby, and parking. The apartments will consist of mixed affordable and market rate housing. The proposed development includes excavation to a depth of approximately 10-feet below grade with the exception of the below grade parking area, which includes excavation to a depth of approximately 23-feet below grade. An elevator pit at the western side of the Site will require excavation to a depth of approximately 15 feet below grade, and a trench in the parking area will require excavation to

approximately 26 feet below grade. The soil excavation includes removal of approximately 4,191 tons of soil from the below grade parking area and 4,848 tons from the remainder of Site. A total of approximately 9,039 tons of soil will be excavated. Groundwater is expected to be encountered at approximately 65-feet below grade; therefore, excavation activities are not likely to encounter groundwater. Layout of the proposed site development is presented in Figures 6a-6d. According to OER's SPEED application, the current zoning designation is R7A for residential use with a C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The Site is located in a historically well-developed area of Brooklyn consisting of a mix of residential and commercial structures. No hospitals or day care centers were identified with a 500-foot radius. One sensitive receptor, identified as Achievement First Endeavor Middle School, is located approximately 250-feet south of the Site.

The Site is surrounded by residential structures to the west and south. The site is bordered on the north by Fulton Street, beyond which are residential structures with commercial store fronts. The Site is bordered on the east by Waverly Avenue, beyond which are residential structures with commercial store fronts.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

According to a Phase I Report performed by D.V.D Environmental Inc. dated October 2013, the area has been developed prior to 1887. The following summarizes the previous usage of the Site using available Sanborn Maps.

- In the 1887 Sanborn Map the Property is identified as containing stores along the northern boundary, dwellings along the eastern boundary and Ackerman's Coal Yard near the center.
- In 1904, the Site contains stores along the northern boundary, a coal yard in the west and center of the Site and a stable near the eastern boundary.

- In 1915 the Site contains stores along the northern boundary, an area denoted as wagon sheds near the west and center portion of the Site.
- In 1938, 1950 and 1969 the Site contains a row of stores along the northern boundary and the remaining portion is denoted as garage with skylights.
- In 1977, 1979, 1980, 1981, and 1982 the Site is vacant and no use is denoted.
- In 1986, 1987, 1988, 1989, 1991, 1992, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006, and 2007 the Site is vacant; however, it is denoted as parking.

Previous ownership/usage of the Property was researched using the NYC Department of Building webpage. No Certificate of Occupancy was listed for the Site in the database.

A review of the NYC Department of Finance ACRIS system database identifies ownership for the Site from 1969 to present. Previous ownership includes White Memorial Chapels, Inc. from 1984 to 2013, La Juan Development Corp. from 1978 to 1984, City of New York from 1978 to 1984, Ivan E. Irizarry from 1976 to 1978, Prudential Savings Bank from 1973 to 1976, Henry Krissoff from 1971 to 1973 and Richlou Associates from 1969 to 1971.

2.2 Previous Investigations

The Phase I Report performed by D.V.D Environmental Inc. dated October 2013 did not identify any Recognized Environmental Conditions. The Phase I report indicates that the Site is an NYC E-Designated site and recommended soil testing prior to soil disturbance and/or removal.

2.3 Site Inspection

On October 11, 2013 a Site inspection was conducted by Jason Cooper of CA RICH during Remedial Investigation activities. The inspection revealed that the Site did not contain any buildings and was utilized as a private parking lot. The Site was asphalt-paved throughout and was secured with a chain link fence and pad lock. The northern portion of the Site exhibited minor collapsing of the asphalt, which is in the area of the former building. A subway grate was identified along the sidewalk of Fulton Street and a subway station is located on the corner of Fulton Street and Clinton Avenue. The Remedial Investigation included a geophysical survey of

the Site (see Section 4.1). The survey identified four suspect tanks along the eastern portion of the Site.

2.4 Areas of Concern

The AOCs identified for this site include:

1. Four suspect underground storage tanks (USTs) located along the eastern portion of the Site. Soil boring and soil vapor points were installed in close proximity to the suspected USTs. No elevated photoionization detector (PID) readings were detected and the laboratory data did not identify elevated levels of compounds typically associated with petroleum.

Phase 1 Report is presented in Appendix A. A map depicting the areas on concern (suspect UST's) is included in Appendix C.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Professionals (QEP) responsible for preparation of this RIR are Eric Weinstock, Certified Professional Geologist (No. 7391) and Jason T. Cooper, Certified Professional Geologist (No. 11626).

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

500 Waverly Property Owner LLC (previously reported under the entity Orange Management LLC) performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Installed eight soil borings across the entire project Site to a depth of approximately 15-feet below grade, and collected 16 soil samples for chemical analysis from the soil borings to evaluate soil quality;

3. Attempted to install one groundwater monitoring well along the downgradient portion of the Site using a sonic drill rig. Sub-surface conditions provided for difficult drilling, which only reached a depth of approximately 29-feet below grade. The difficult drilling conditions were conveyed to OER, who then waived the groundwater monitoring well requirement. Two soil samples were collected from this boring from 2-4 and 4-6 feet below grade.

4. Installed four soil vapor probes around Site perimeter and one soil vapor probe in the center of the Site. A total of five samples were collected for chemical analysis.

4.1 Geophysical Investigation

A geophysical survey was conducted by NAEVA Geophysics, Inc. on October 9, 2013. The equipment utilized during the investigation included a Fisher TW-6 Pipe and Cable Locator, a Sensors and Software ground penetrating radar (GPR) system with a 250-Megahertz antenna, a Subsite 950 utility locator, and a Dynatel 2250 Cable Locator. The survey identified 21 metal anomalies throughout the area of investigation. Four suspect USTs were identified along the eastern property boundary and appear to be 550-gallon in size. A copy of the Geophysical Report including a map depicting the suspect UST locations is included in Appendix C.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

During Remedial Investigation activities eight soil borings were advanced throughout the Site to a depth of approximately 15-feet below grade utilizing a Geoprobe ™ drilling system. One additional boring, drilled in an attempt to install a monitoring well, was drilled to a depth of approximately 29-feet below grade utilizing a sonic drill rig system. All soil boring locations and the monitoring well location were installed according to the OER approved locations. During drilling activities, soil samples were continuously collected and examined for evidence of

contamination with a photoionization detector (PID) and for evidence of chemical staining. No PID readings were identified in any of the soil borings. Additionally, no odors or soil discoloration was identified. Overall, the soils are classified as urban fill material from grade to approximately 10-feet below grade. Native fine grain sand and silt appears at a depth of approximately 10-feet below grade. Groundwater was not encountered at the Site and is expected to be encountered at approximately 65-feet below grade.

Boring logs were prepared by Jason Cooper of CA RICH and are attached in Appendix D. A map showing the location of soil borings and attempted groundwater monitoring well location is shown in Figure 3.

Groundwater Monitoring Well Construction

An attempt was made to install one groundwater monitoring well on January 20 and 21, 2014 using a sonic drill rig. The attempted groundwater monitoring well was located along the western property boundary. Difficult drilling conditions were encountered and the casing could only be advanced to approximately 29-feet below grade. The difficult drilling conditions were conveyed to OER. Based on the demonstrated effort to install a groundwater well at the site and the results of the soil and soil vapor sampling at the site, OER has allowed the client to proceed in the program without the installation of an on-site groundwater monitoring well. Groundwater at the Site is expected to be encountered at approximately 65-feet below grade. No groundwater monitoring wells currently exist at the Site.

Survey

The locations of the soil borings and soil vapor points were measured accurately in the field and noted on a scaled figure.

Water Level Measurement

Groundwater was not encountered during soil boring installation, soil vapor point installation, or during the attempt to install a monitoring well. No on-site groundwater monitoring wells exist at the Site; therefore, no site-specific groundwater data exists.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

On October 11, 2013 CA RICH mobilized to the Site with Aarco Environmental to conduct eight Geoprobe® soil borings. Two soil samples were collected from each boring; one from a depth of 0 to 2-feet below grade and the second from 13 to 15-feet below grade for a total of 16 soil samples that were submitted to American Analytical Laboratories. A field blank and duplicate sample of SB-08 (0-2') were also collected. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/ polychlorinated biphenyls (PCBs) by EPA Method 8081/8082 and target analyte list (TAL) metals by EPA Method 6010 and 7471.

The borings were continuously logged and screened with a PID from grade down to 15 feet below grade. No PID readings, odors or chemical staining were identified in any of the soil borings. The subsurface soils consisted primarily of sand, concrete and brick pieces, and some silt. Soil boring logs are included as Appendix D.

On January 20 and 21, 2014 proposed groundwater monitoring well MW-1 was attempted to be installed. During drilling activities soil samples were collected from 2-4 and 4-6 feet below grade. The samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, Pesticides/PCBs by EPA Method 8081/8082 and TAL metals by EPA Method 6010 and 7471.

A total of 18 soil samples were collected chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is

reported in Tables 1-3 and 5-7. Figure 3 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Several attempts were made to install groundwater wells, but refusal was encountered at shallow depths. Groundwater sampling was not conducted at the Site.

Soil Vapor Sampling

On October 13, 2013, five soil vapor points were installed to 15 feet below grade using a Geoprobe ™ drilling system, designated SVP-1 through SVP-5. The soil vapor points were constructed of a stainless steel screen connected to stainless steel ¼-inch tubing. The annular space around the screened zone was filled with clean No. 2 Morie sand. Prior to sampling, three volumes were purged from each soil vapor point. An SKC Pocket Pump™, which includes both a flow meter and a flow totalizer, was used to assure that the purge rate did not exceed 0.2 liters per minute; and that the required volume was purged from the sample point. The points were completed with temporary caps and were removed after the testing was completed.

On October 14 and 17, 2013, the soil vapor points were sampled in accordance with New York State Department of Health's (NYSDOH) prevailing Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006. In addition, the soil vapor samples were chemically analyzed using the procedures and protocols described in the Sample Preparation, and Analysis Requirements of EPA Compendium Method T0-15. A three-way "T" connector valve assembly was connected to a vacuum pump and a pre-cleaned six-liter SUMMA® air sampling canister. Prior to collecting the soil vapor samples, the sample tubing was purged using a vacuum pump set at a rate of approximately 0.2 liters per minute. A helium tracer gas was used to enrich the atmosphere around the sampling location. The tracer gas verifies that interior ambient air is not inadvertently drawn down into the soil vapor sample. Both the purge volume from the sampling tube and the helium-enriched air within the container was screened for the tracer gas using a MGD 2002 helium leak detector.

Following the purging and tracer gas verification steps, the soil vapor samples were collected using the SUMMA® canister set to fill at a rate of not more than 0.2 liters per minute with an approximate fill time of 2-hours. Samples were shipped to Accutest Laboratories of Dayton,

New Jersey. All samples were uniquely identified and all information associated with the samples were recorded utilizing standard chain-of-custody sampling protocols.

Five soil vapor probes were installed and five soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 3. Soil vapor sample collection data is reported in Table 4. Soil vapor sampling logs are included in Appendix E. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Lori Beyer.
Chemical Analytical Laboratory	Chemical analytical laboratories used in the RI are NYS ELAP certified and were American Analytical Laboratories and Accutest Laboratories of Dayton, New Jersey.
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil and soil vapor are summarized in Tables 1-7, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendices F and G.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Based on the information obtained during the Remedial Investigation the Site is underlain by urban fill material from grade to approximately 10-feet below grade. Native fine grain sand and silt appears at a depth of approximately 10-feet below grade. Groundwater was not encountered at the Site and is expected to be encountered at approximately 65-feet below grade.

Stratigraphy

The stratigraphy of the Site consists of tan and gray fine sand and silt mixed with urban fill from grade to approximately 10-feet below grade. Native tan and gray fine grain sand and silt begins to appear at a depth of approximately 10-feet below grade. Bedrock was not encountered during drilling activities. A sonic drill rig was used in an attempt to install a monitoring well. Difficult drilling conditions were encountered at proposed groundwater monitoring well location MW-1. Proposed groundwater monitoring well MW-1 was centrally located along the western property boundary. Difficult drilling conditions began at approximately 9-feet below grade and continued through to approximately 29-feet below grade, where drilling activities ceased.

Hydrogeology

No groundwater monitoring wells currently exist on-site; therefore, site-specific groundwater depth and flow is unknown. Based upon review of the topographic map for the area, groundwater is expected to flow in a westerly direction.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 1-3 and 5-7. The analytical results were compared to

NYSDEC Part 375 Table 375-6.8(a) and (b) Soil Cleanup Objectives (SCOs) for Unrestricted Use and Restricted Residential Use. Figure 4 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Restricted Residential SCOs.

The results of the chemical analysis of the eight shallow (0 to 2 foot interval) and eight deep (13 to 15 foot interval) soil samples collected from the eight Geoprobe™ soil borings and the two mid-range samples (2 to 4 and 4 to 6 foot intervals) collected from the one proposed groundwater monitoring well indicate the following:

No VOCs or PCBs were detected above Part 375 Unrestricted Use SCOs in any of the samples. No SVOCs or pesticides were detected in the deep samples above Part 375 Unrestricted Use SCOs. Several SVOCs including benzo(a)anthracene (maximum [max.] of 11,000 micrograms per kilogram [µg/kg]), benzo(a)pyrene (max. of 9,400 µg/kg), benzo(b)fluoranthene (max. of 9,100 µg/kg), benzo(k)fluoranthene (max. of 7,800 µg/kg), chrysene (max. of 11,000 µg/kg), dibenzo(a,h)anthracene (max. of 1,600 µg/kg), and ideno(1,2,3-c,d)pyrene (max. of 6,800 µg/kg) exceeded Part 375 Unrestricted Use and Restricted Use SCOs in five of the shallow samples as well as in both the 2 to 4 foot and 4 to 6 foot samples collected at MW-1 (benzo(k)fluoranthene did not exceed the Restricted Use SCO in either sample from MW-1). The pesticides 4,4'-DDE (max. of 24 µg/kg) and 4,4'-DDT (max. of 22 µg/kg), were detected above Part 375 Unrestricted Use SCOs in three shallow samples as well as in the 2-4 foot interval sample from MW-1. Metals including lead (max. of 128 milligrams per kilogram[mg/kg]), mercury (max. of 0.747 mg/kg), and zinc (120 mg/kg) were detected at concentrations above Part 375 Unrestricted Use SCOs in four shallow samples. The metals chromium (36.3 mg/kg) and nickel (32.4 mg/kg) were each detected slightly above Part 375 Unrestricted Use SCOs in the deep samples from SB-6 and SB-3, respectively.

5.3 Groundwater Chemistry

No groundwater data currently exists for the Site.

5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 4. Soil vapor analytical results were compared to NYSDOH Final

Guidance on Soil Vapor Intrusion (October 2006) Matrix 1 and 2 guidance values. Figure 5 shows the location and posts the values for soil vapor samples with detected concentrations.

The chlorinated solvents 1,1,1-trichloroethane, carbon tetrachloride, tetrachloroethylene, and trichloroethylene were detected below their respective guidance values in all five soil vapor samples. Several other compounds, including the gasoline-related compounds benzene, toluene, ethyl benzene, and xylenes, were detected at relatively low concentrations (below 100 $\mu g/m^3$). Other compounds detected at relatively high concentrations included acetone (max. of 226 $\mu g/m^3$), carbon disulfide (max. of 604 $\mu g/m^3$), cyclohexane (max. of 226 $\mu g/m^3$), heptane (max. of 139 $\mu g/m^3$), hexane (max. of 272 $\mu g/m^3$), and propylene (max. of 2,030 $\mu g/m^3$).

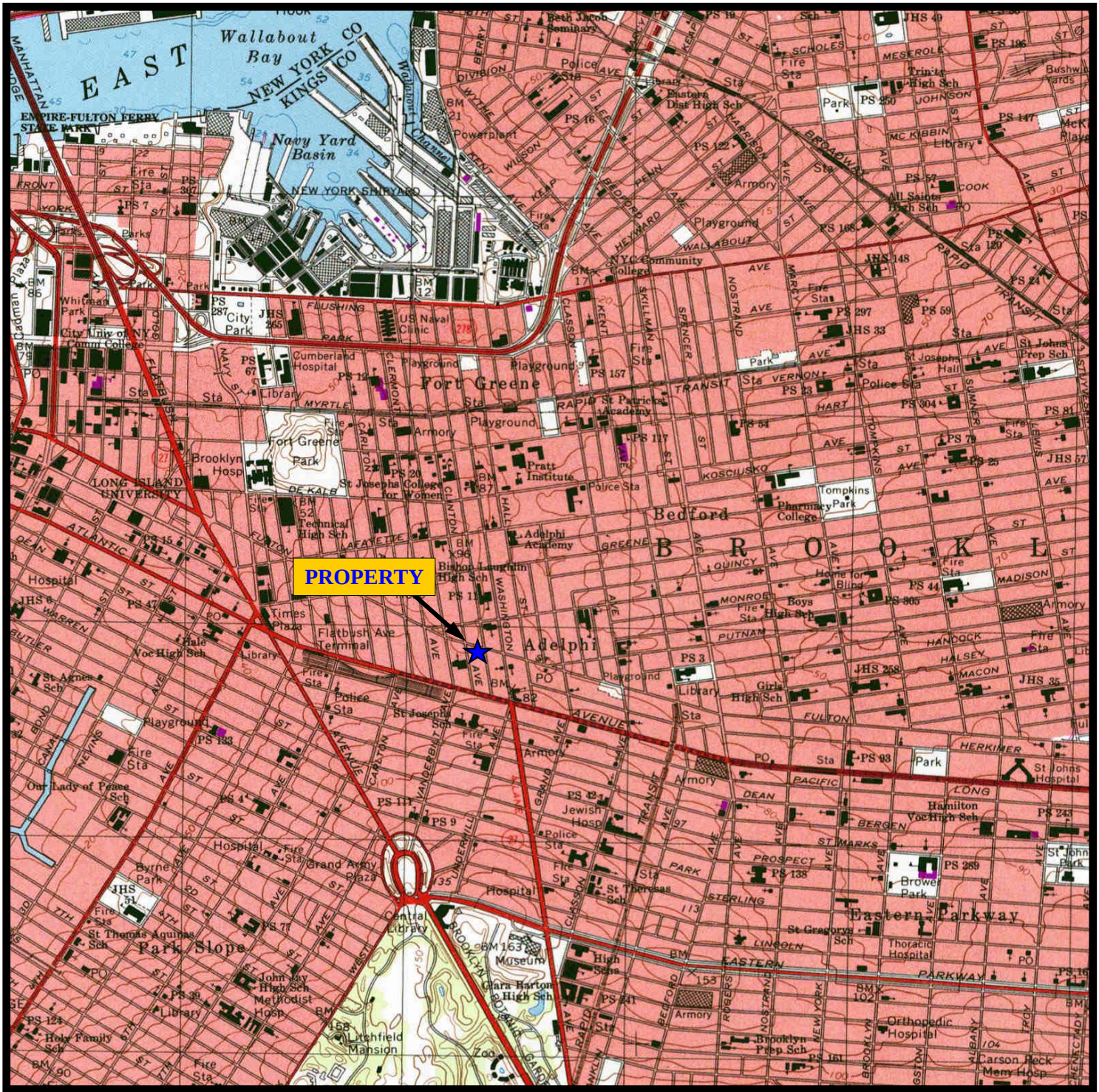
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

FIGURES



N

Adapted from USGS Brooklyn 1995

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

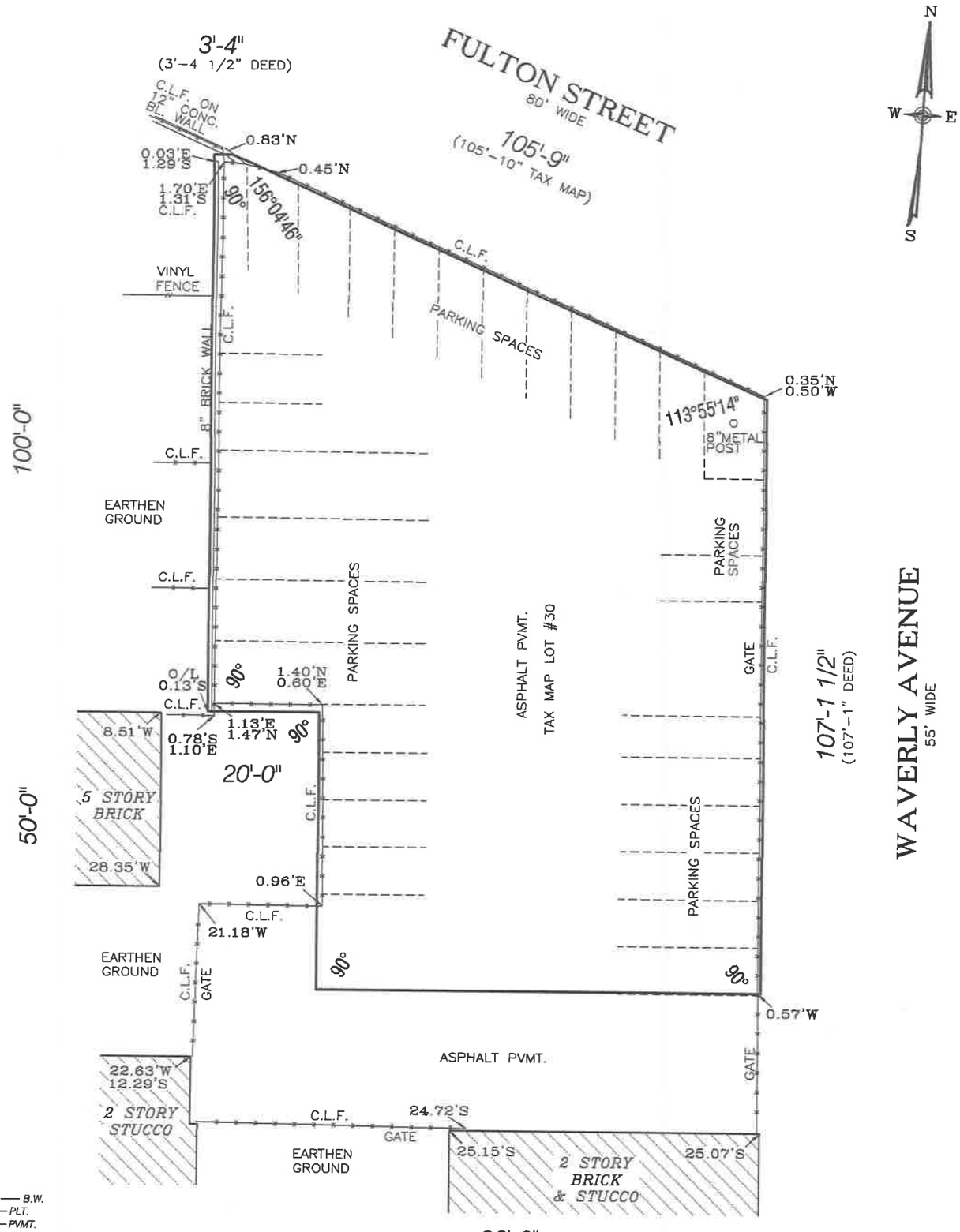
TITLE: **PROPERTY LOCATION MAP**	*DATE:* **11/24/13**
	SCALE: **1:24,000**
FIGURE: **1**	*DRAWN BY:* **JTC**
DRAWING:	*APPR. BY:* **EAW**

882 Fulton Street
Brooklyn, New York

THE OFFSETS OR DIMENSIONS SHOWN FROM THE STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE AND THEREFORE ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES, RETAINING WALLS, POOLS, PLANTING AREAS, ADDITIONS TO STRUCTURES AND ANY OTHER CONSTRUCTION.

Job No. RLS131659

THE EXISTENCE OF RIGHT OF WAYS AND/OR EASEMENTS OF RECORD, IF ANY, NOT SHOWN ARE NOT CERTIFIED.



LEGEND:

BAY WINDOW — B.W.
PLATFORM — PLT.
PAVEMENT — PVMT.
EARTHEN GROUND — E.G.
CELLAR ENTRANCE — C.E.
CHAIN LINK FENCE — C.L.F.
CONCRETE — CONC.
METAL DOOR — M.D.
FIRE ESCAPE — F.E.
OVERHEAD SERVICE WIRES — O.H.S.W.

LOT # 30 AREA IS 11927.4 sq.ft.

FOR BUILDING DEPARTMENT USE ONLY

SURVEY OF: *Described Property*
LOCATED AT:
882 Fulton Street, Brooklyn
County of Kings
City and State of New York
TAX DESIG: *Block 2011 Lot 30*
CERTIFIED TO:

Nathaniel G White

ROGUSKI
LAND SURVEYING. P.C.
TITLE • ARCHITECTURAL • BOUNDARY • CONSTRUCTION
87-20 WOODHAVEN BLVD. WOODHAVEN, N.Y. 11421
Tel. • (718)480-3761 • Cell • (917)561-0579 •
Fax. • (718) 480-3762 •
SZCZEPAN H. ROGUSKI
PROFESSIONAL LAND SURVEYOR

DATE: *January 7, 2013*
SCALE: *1"=25'*

STATE OF NEW YORK
SZCZEPAN H. ROGUSKI
EXCELSIOR
050775
LICENSED LAND SURVEYOR

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

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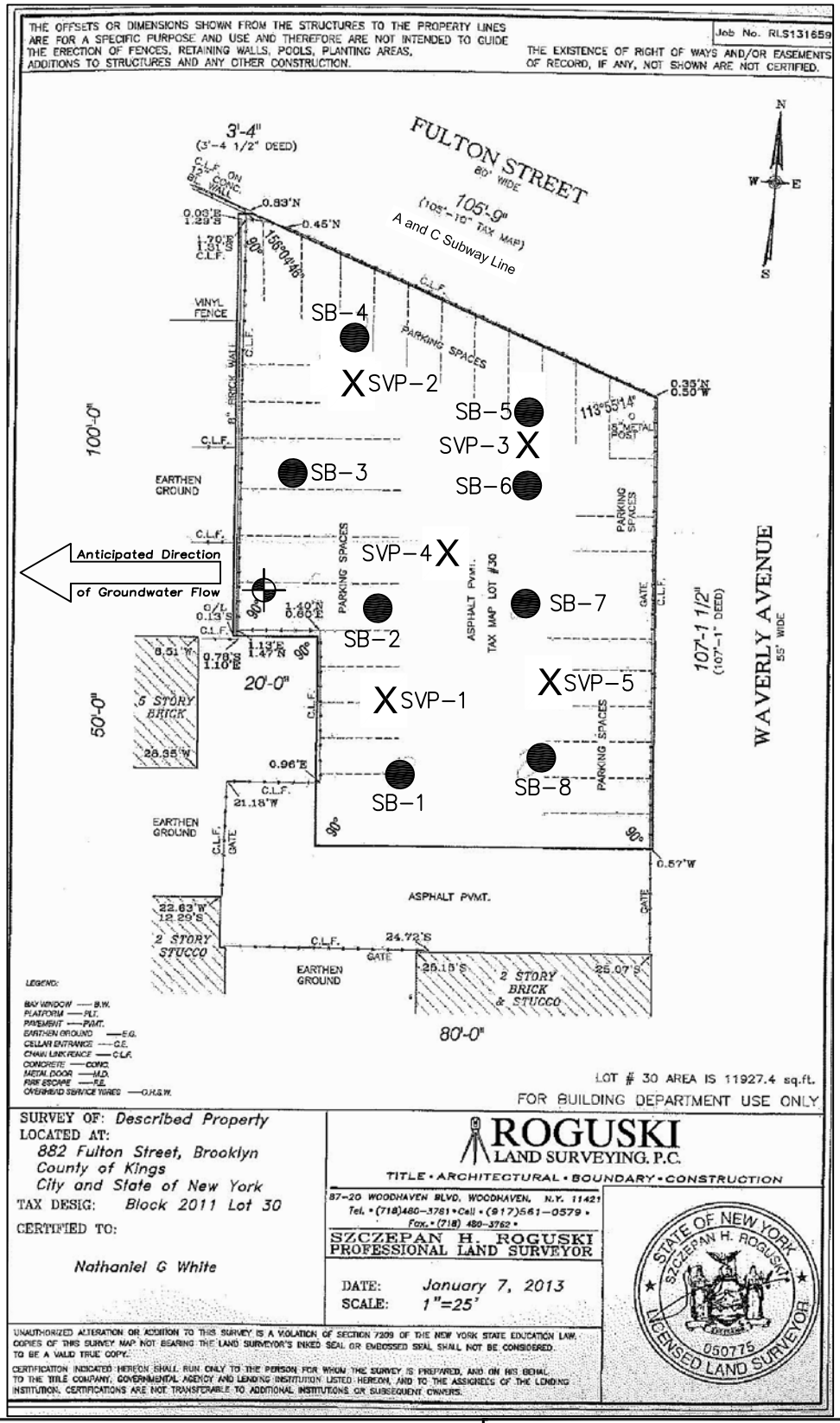

LEGEND

● Soil boring location (sampled from 0–2 feet and 13–15 feet)

X Soil vapor probe location

⊕ Proposed groundwater monitoring well location(Soil samples 2–4 feet and 4–6 feet)

H:\Drawings\882 Fulton Avenue\2013-3A

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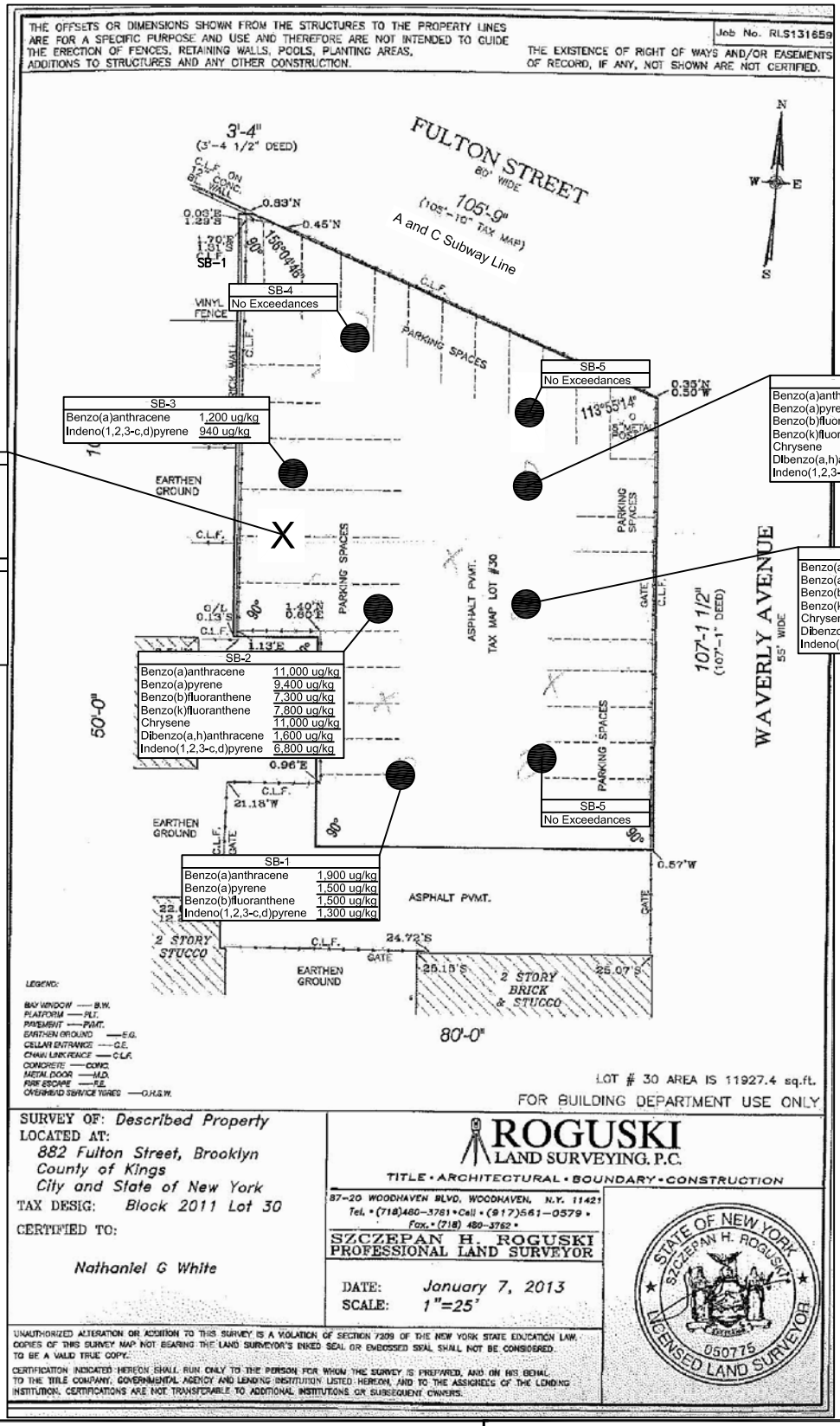
17 Dupont Street, Plainview, New York 11803

TITLE: Sample Location Map		DATE: 3/13/13
		SCALE: Not To Scale
FIGURE: 3	882 Fulton Avenue Brooklyn, New York	DRAWN BY: J.T.C.
DRAWING NO: 2013-3A		APPR. BY: E.A.W.



LEGEND

● Soil boring location (sampled from 0–2 feet and 13–15 feet)

X Soil boring location (sampled from 2–4 feet and 4–6 feet)

H:\Drawings\882 Fulton Avenue\2014-2

CA RICH CONSULTANTS, INC.

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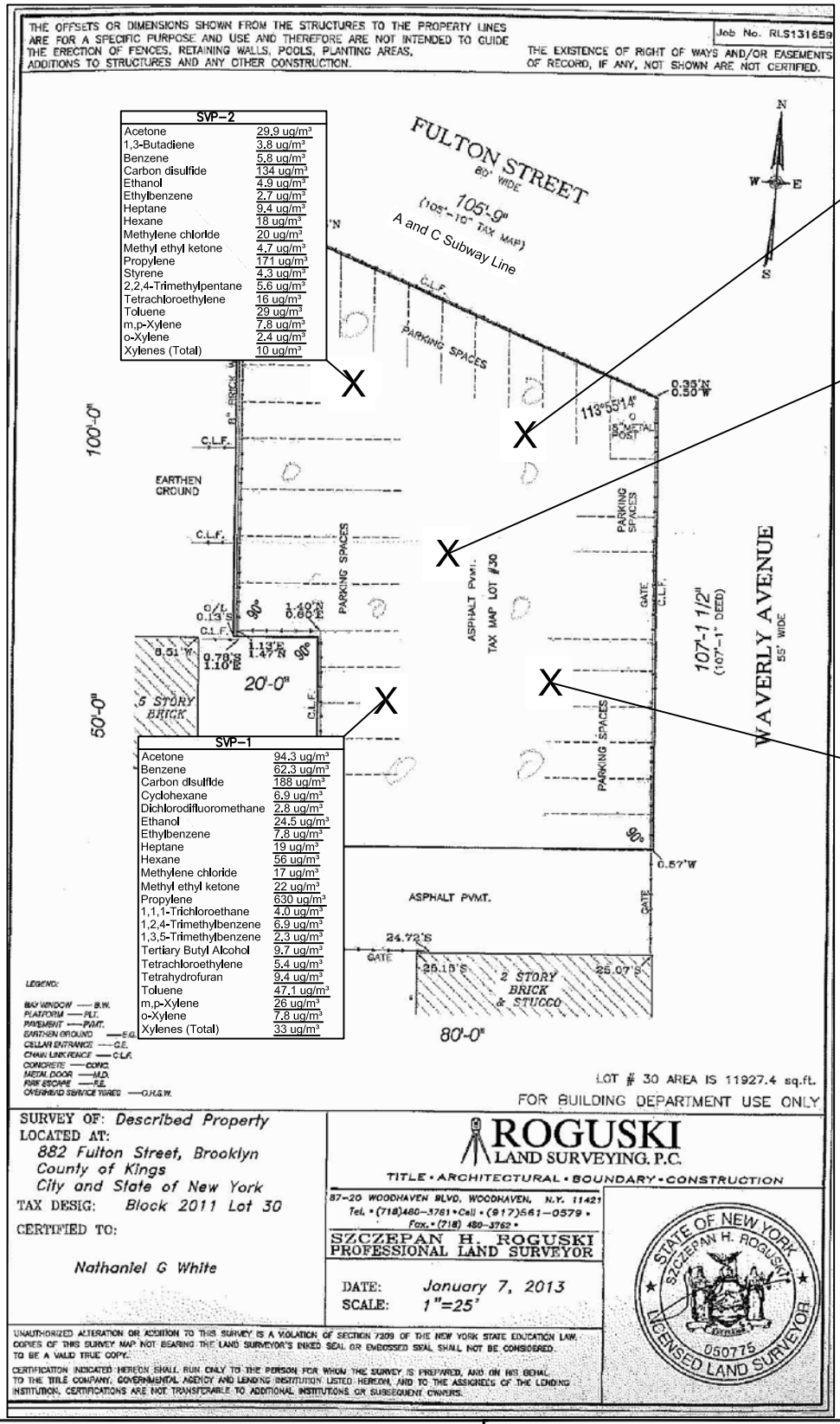
17 Dupont Street, Plainview, New York 11803

TITLE: Map of Soil Chemistry Exceedances	DATE: 3/11/2014
	SCALE: Not To Scale
FIGURE: 4	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2014-2	APPR. BY: E.A.W.

882 Fulton Avenue
Brooklyn, New York



SVP-2

Acetone	29.9 ug/m³
1,3-Butadiene	3.8 ug/m³
Benzene	5.8 ug/m³
Carbon disulfide	134 ug/m³
Ethanol	4.9 ug/m³
Ethylbenzene	2.7 ug/m³
Heptane	9.4 ug/m³
Hexane	18 ug/m³
Methylene chloride	20 ug/m³
Methyl ethyl ketone	4.7 ug/m³
Propylene	171 ug/m³
Styrene	4.3 ug/m³
2,2,4-Trimethylpentane	5.6 ug/m³
Tetrachloroethylene	16 ug/m³
Toluene	29 ug/m³
m,p-Xylene	7.8 ug/m³
o-Xylene	2.4 ug/m³
Xylenes (Total)	10 ug/m³

SVP-1

Acetone	94.3 ug/m³
Benzene	62.3 ug/m³
Carbon disulfide	188 ug/m³
Cyclohexane	6.9 ug/m³
Dichlorodifluoromethane	2.8 ug/m³
Ethanol	24.5 ug/m³
Ethylbenzene	7.8 ug/m³
Heptane	19 ug/m³
Hexane	56 ug/m³
Methylene chloride	17 ug/m³
Methyl ethyl ketone	22 ug/m³
Propylene	630 ug/m³
1,1,1-Trichloroethane	4.0 ug/m³
1,2,4-Trimethylbenzene	6.9 ug/m³
1,3,5-Trimethylbenzene	2.3 ug/m³
Tertiary Butyl Alcohol	9.7 ug/m³
Tetrachloroethylene	5.4 ug/m³
Tetrahydrofuran	9.4 ug/m³
Toluene	47.1 ug/m³
m,p-Xylene	26 ug/m³
o-Xylene	7.8 ug/m³
Xylenes (Total)	33 ug/m³

SVP-3

Acetone	38.2 ug/m³
1,3-Butadiene	21 ug/m³
Benzene	14 ug/m³
Carbon disulfide	33.6 ug/m³
Cyclohexane	3.8 ug/m³
Dichlorodifluoromethane	2.8 ug/m³
Ethanol	13 ug/m³
Ethylbenzene	4.8 ug/m³
Freon 114	3.8 ug/m³
Heptane	3.8 ug/m³
Hexane	35 ug/m³
Isopropyl Alcohol	5.7 ug/m³
Methylene chloride	82.7 ug/m³
Methyl ethyl ketone	8 ug/m³
Propylene	587 ug/m³
Styrene	9.4 ug/m³
1,1,1-Trichloroethane	5.3 ug/m³
1,2,4-Trimethylbenzene	6.9 ug/m³
Tetrachloroethylene	10 ug/m³
Toluene	87.4 ug/m³
Trichloroethylene	2.3 ug/m³
Trichlorofluoromethane	2.6 ug/m³
m,p-Xylene	13 ug/m³
o-Xylene	4.3 ug/m³
Xylenes (Total)	17 ug/m³

SVP-4

Acetone	226 ug/m³
1,3-Butadiene	19 ug/m³
Benzene	18 ug/m³
Carbon disulfide	40.2 ug/m³
Cyclohexane	6.5 ug/m³
Dichlorodifluoromethane	2.7 ug/m³
Ethanol	11 ug/m³
Ethylbenzene	6.1 ug/m³
Heptane	13 ug/m³
Hexane	55 ug/m³
Isopropyl Alcohol	5.4 ug/m³
Methylene chloride	22 ug/m³
Methyl ethyl ketone	38.9 ug/m³
Propylene	514 ug/m³
Styrene	11 ug/m³
1,1,1-Trichloroethane	4.9 ug/m³
1,2,4-Trimethylbenzene	3.1 ug/m³
2,2,4-Trimethylpentane	21 ug/m³
Tetrachloroethylene	10 ug/m³
Tetrahydrofuran	20 ug/m³
Toluene	93.1 ug/m³
Trichloroethylene	2.0 ug/m³
Trichlorofluoromethane	2.3 ug/m³
m,p-Xylene	16 ug/m³
o-Xylene	5.6 ug/m³
Xylenes (Total)	22 ug/m³

SVP-5

Acetone	166 ug/m³
1,3-Butadiene	32.1 ug/m³
Benzene	41.5 ug/m³
Carbon disulfide	604 ug/m³
Cyclohexane	11 ug/m³
Dichlorodifluoromethane	2.8 ug/m³
Ethanol	10 ug/m³
Ethylbenzene	5.2 ug/m³
Heptane	85.7 ug/m³
Hexane	186 ug/m³
Methylene chloride	23 ug/m³
Methyl ethyl ketone	49 ug/m³
Propylene	2,030 ug/m³
Styrene	10 ug/m³
1,2,4-Trimethylbenzene	2.3 ug/m³
2,2,4-Trimethylpentane	5.1 ug/m³
Tetrachloroethylene	14 ug/m³
Toluene	84.8 ug/m³
Trichloroethylene	4.1 ug/m³
Trichlorofluoromethane	2.9 ug/m³
m,p-Xylene	14 ug/m³
o-Xylene	4.3 ug/m³
Xylenes (Total)	18 ug/m³

LEGEND

X Soil vapor probe location

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17 Dupont Street, Plainview, New York 11803

TITLE: Map of Soil Vapor Chemistry Detections	DATE: 3/11/2014
	SCALE: Not To Scale
FIGURE: 5	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2014-3	APPR. BY: E.A.W.

882 Fulton Avenue
Brooklyn, New York

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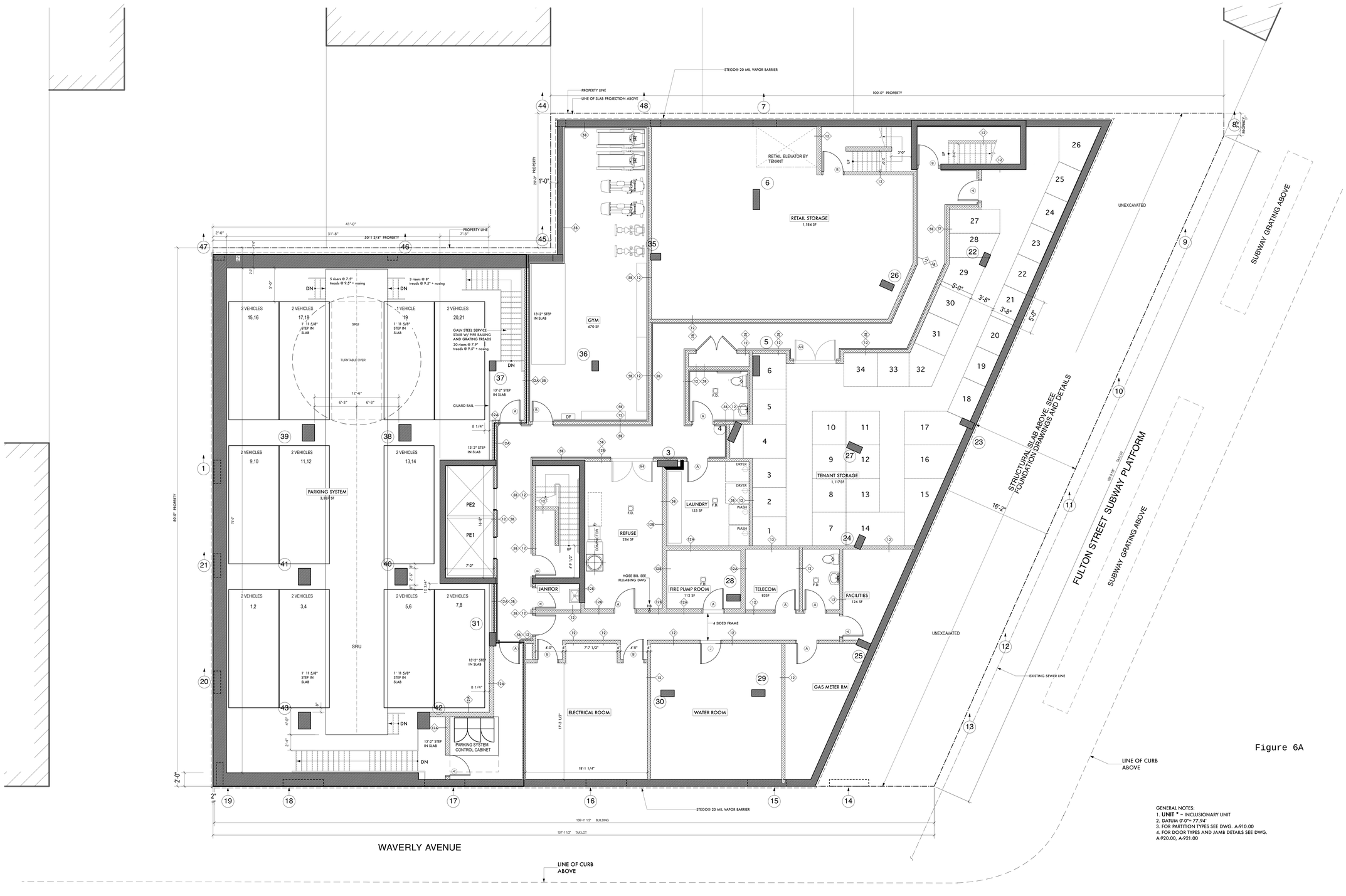

Figure 6A

GENERAL NOTES:
1. UNIT * = INCLUSIONARY UNIT
2. DATUM 0'-0"= 77.94'
3. FOR PARTITION TYPES SEE DWG. A-910.00
4. FOR DOOR TYPES AND JAMB DETAILS SEE DWG. A-920.00, A-921.00

502 Waverly Avenue, Brooklyn, NY11238
A.K.A. 882 Fulton Street

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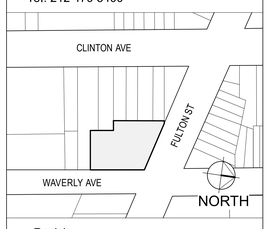

Revisions

No.	Issue	Date
5.	50% CD ISSUE FOR REVIEW	06/16/14
4.	ISSUE FOR FILING	06/16/14
3.	ISSUE FOR HPD REVIEW	06/03/14
2.	ISSUE FOR D.D.	05/07/14
1.	25% ISSUE FOR PRICING	03/31/14

GKV Project 1062-01

Scale: 1/4"=1'-0"

Drawing Title: CELLAR FLOOR CONSTRUCTION PLAN

Drawing No. A-100.00

Sheet No:

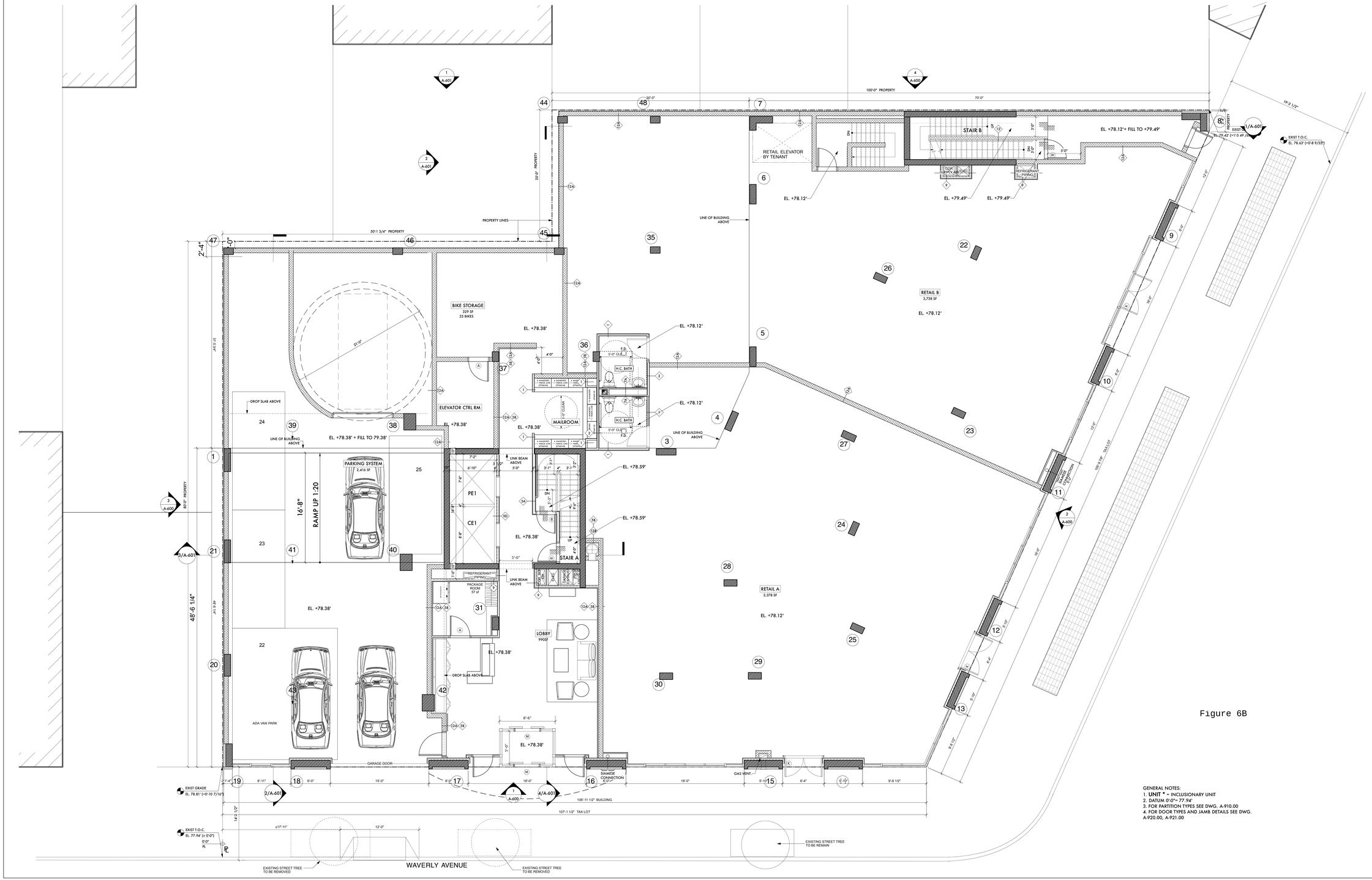

Figure 6B

GENERAL NOTES:
1. UNIT # = INCLUSIONARY UNIT
2. DATUM 0'-0"= 77.94'
3. FOR PARTITION TYPES SEE DWG. A-910.00
4. FOR DOOR TYPES AND JAMB DETAILS SEE DWG. A-920.00, A-921.00

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Revisions

No.	Issue	Date
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3.	ISSUE FOR HPD REVIEW	06/03/14
2.	ISSUE FOR D.D.	05/07/14
1.	25% ISSUE FOR PRICING	03/31/14

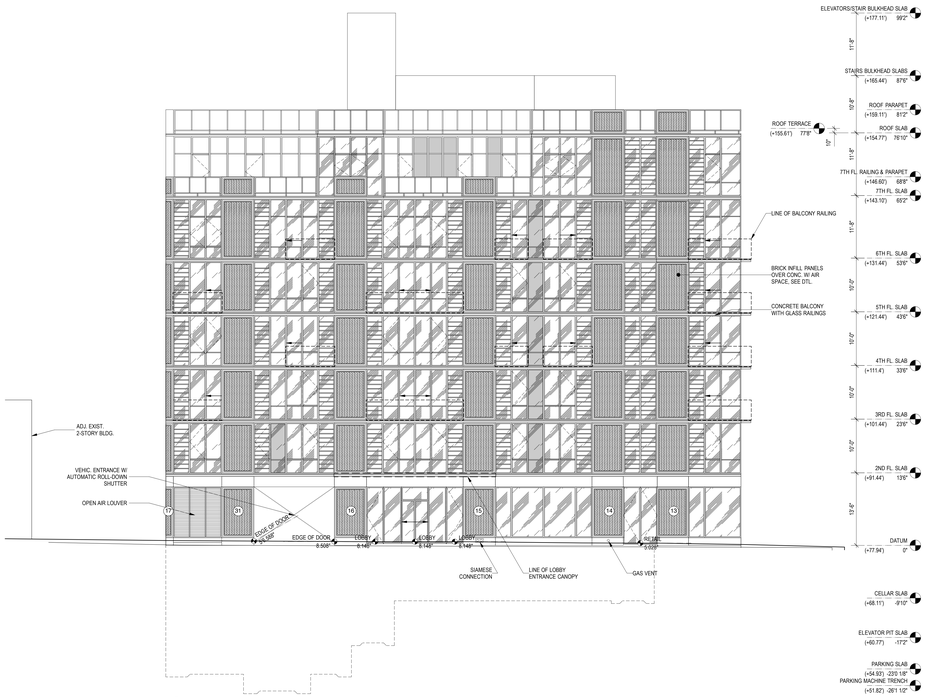
GKV Project 1062-01

Scale: 1/4"=1'-0"

Drawing Title:
GROUND FLOOR CONSTRUCTION PLAN

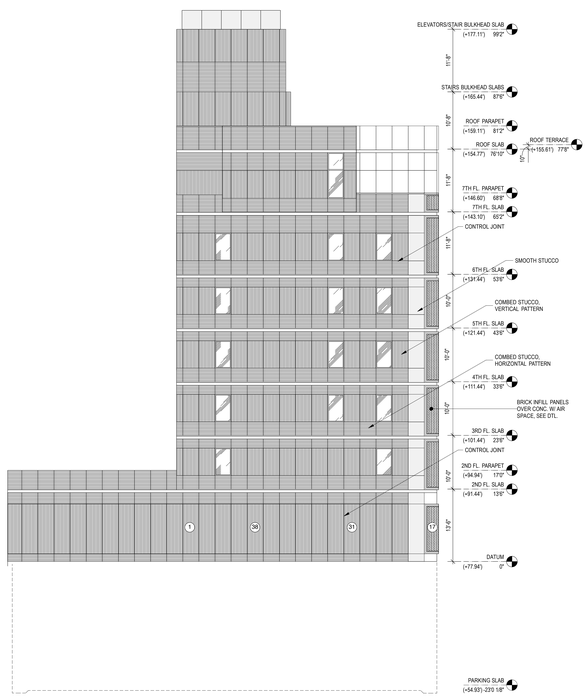
Drawing No.
A-101.00

Sheet No:



1 WAVERLY AVENUE ELEVATION (EAST ELEVATION)
Scale: 1/8" = 1'-0"

2 FULTON STREET ELEVATION (NORTH ELEVATION)
Scale: 1/8" = 1'-0"



3 SOUTH BUILDING SIDE ELEVATION
Scale: 1/8" = 1'-0"

4 WEST BUILDING SIDE ELEVATION
Scale: 1/8" = 1'-0"

Figure 6C

502 Waverly Avenue, Brooklyn, NY11238

A.K.A. 882 Fulton Street

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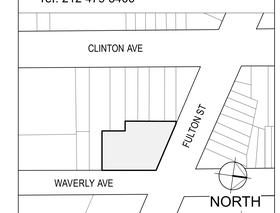


Revisions

No.	Issue	Date
4.	ISSUE FOR FILING	06/16/14
3.	ISSUE FOR HPD REVIEW	06/03/14
2.	ISSUE FOR D.D.	05/07/14
1.	25% ISSUE FOR PRICING	03/31/14

GKV Project 1062-01

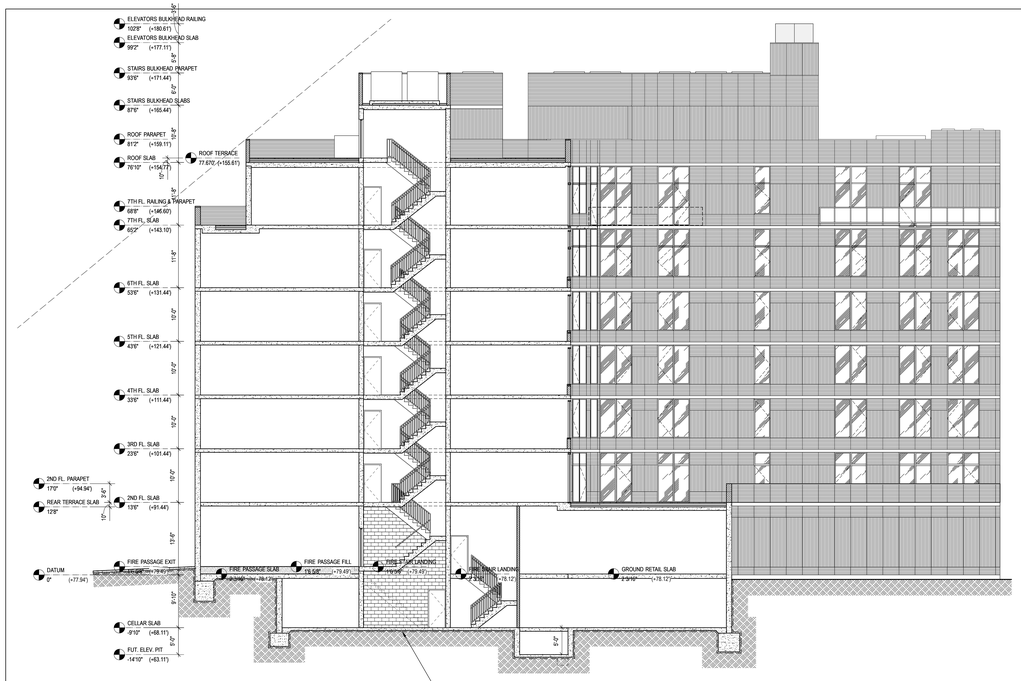
Scale:

Drawing Title:

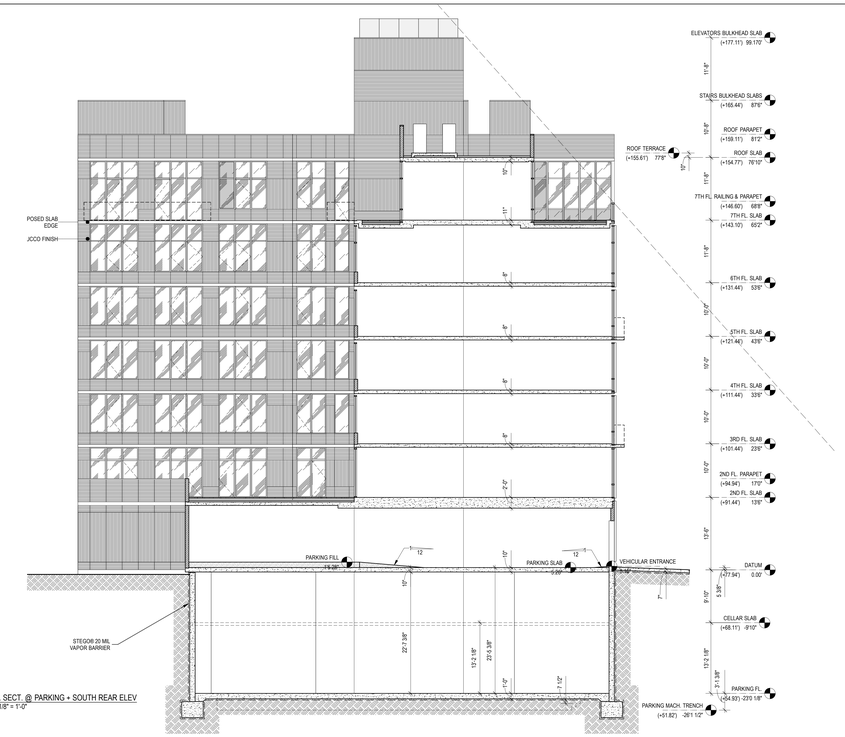
STREET & SIDE ELEVATIONS

Drawing No. A-600.00

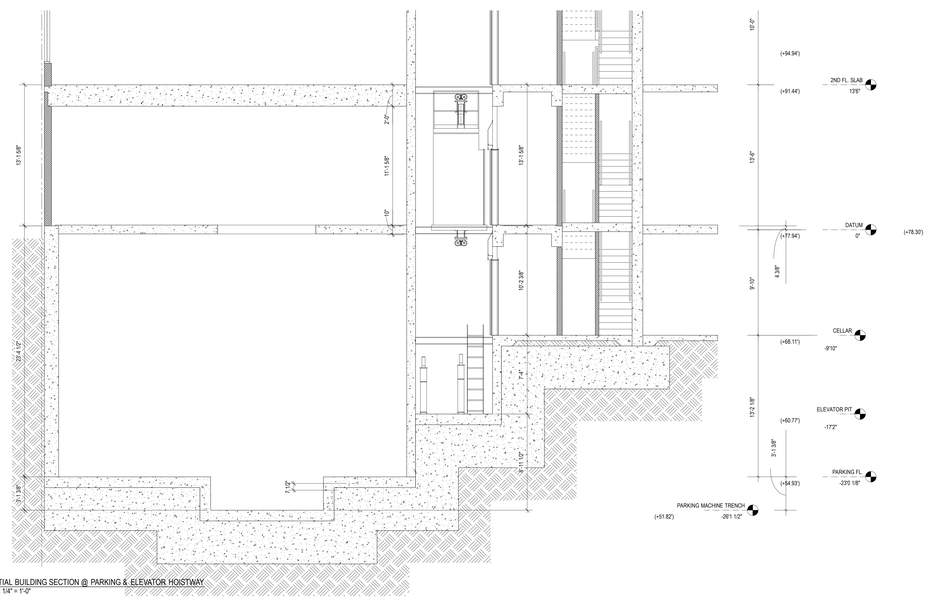
Sheet No:



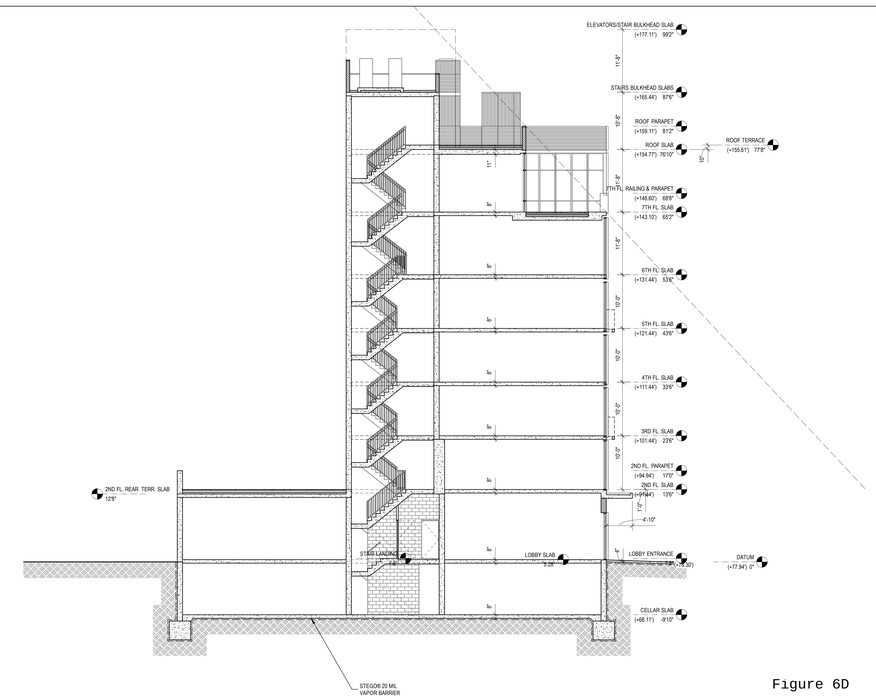
1 BLDG. SECT. @ FIRE STAIR B & RETAIL SVC. STAIR + WEST REAR ELEV
Scale: 1/8" = 1'-0"



2 BLDG. SECT. @ PARKING + SOUTH REAR ELEV
Scale: 1/8" = 1'-0"



3 PARTIAL BUILDING SECTION @ PARKING & ELEVATOR HOISTWAY
Scale: 1/4" = 1'-0"



4 BUILDING SECTION @ FIRE STAIR A & LOBBY
Scale: 1/8" = 1'-0"

Figure 6D

502 Waverly Avenue, Brooklyn, NY11238

A.K.A. 882 Fulton Street

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New York, NY 10001
Tel: 212 479 5400

LOW VOLTAGE ENGINEER
Engineering Plus
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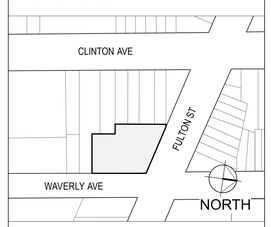


Revisions

No.	Issue	Date
4.	ISSUE FOR FILING	06/16/14
3.	ISSUE FOR HPD REVIEW	06/03/14
2.	ISSUE FOR D.D.	05/07/14
1.	25% ISSUE FOR PRICING	03/31/14

GKV Project 1062-01

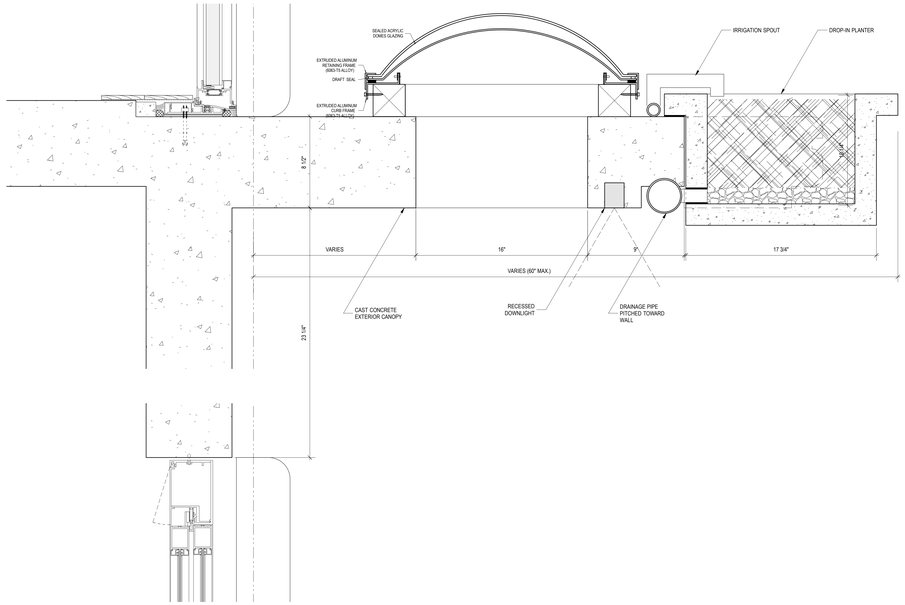
Scale:

Drawing Title:

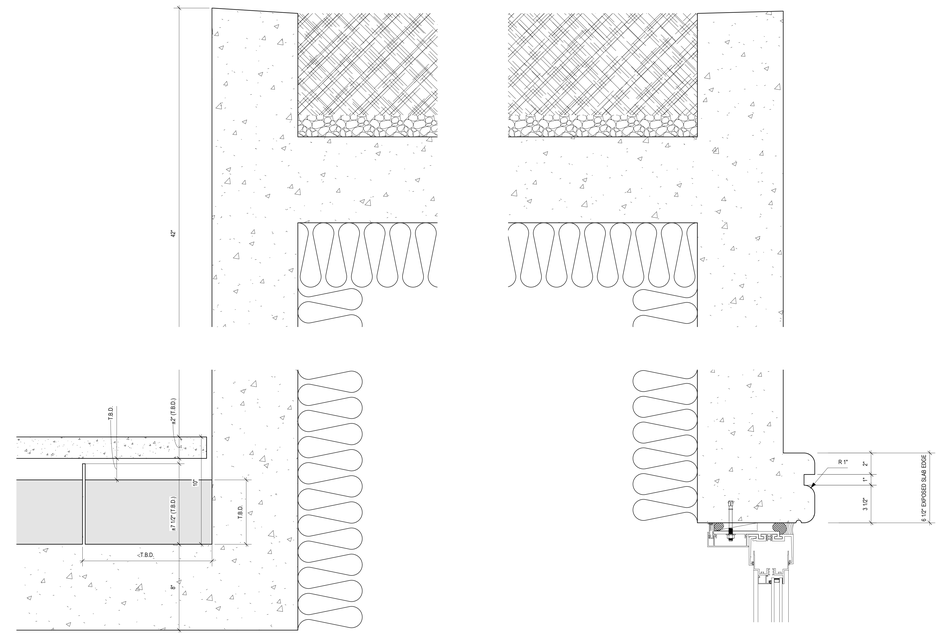
REAR ELEVATIONS, SECTIONS

Drawing No. A-601.00

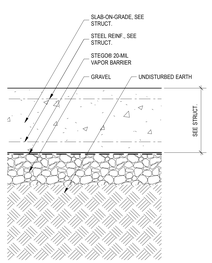
Sheet No:



1 ENTRANCE CANOPY SECTION
Scale: 3" = 1'-0"



2 ROOF TERRACE PLANTER SECTIONS
Scale: 3" = 1'-0"



4 SECTION OF TYP. SLAB-ON-GRADE WITH VAPOR BARRIER
Scale: 3" = 1'-0"

Figure 6E

502 Waverly Avenue, Brooklyn, NY11238
A.K.A. 882 Fulton Street

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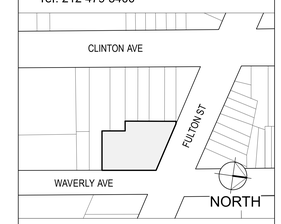

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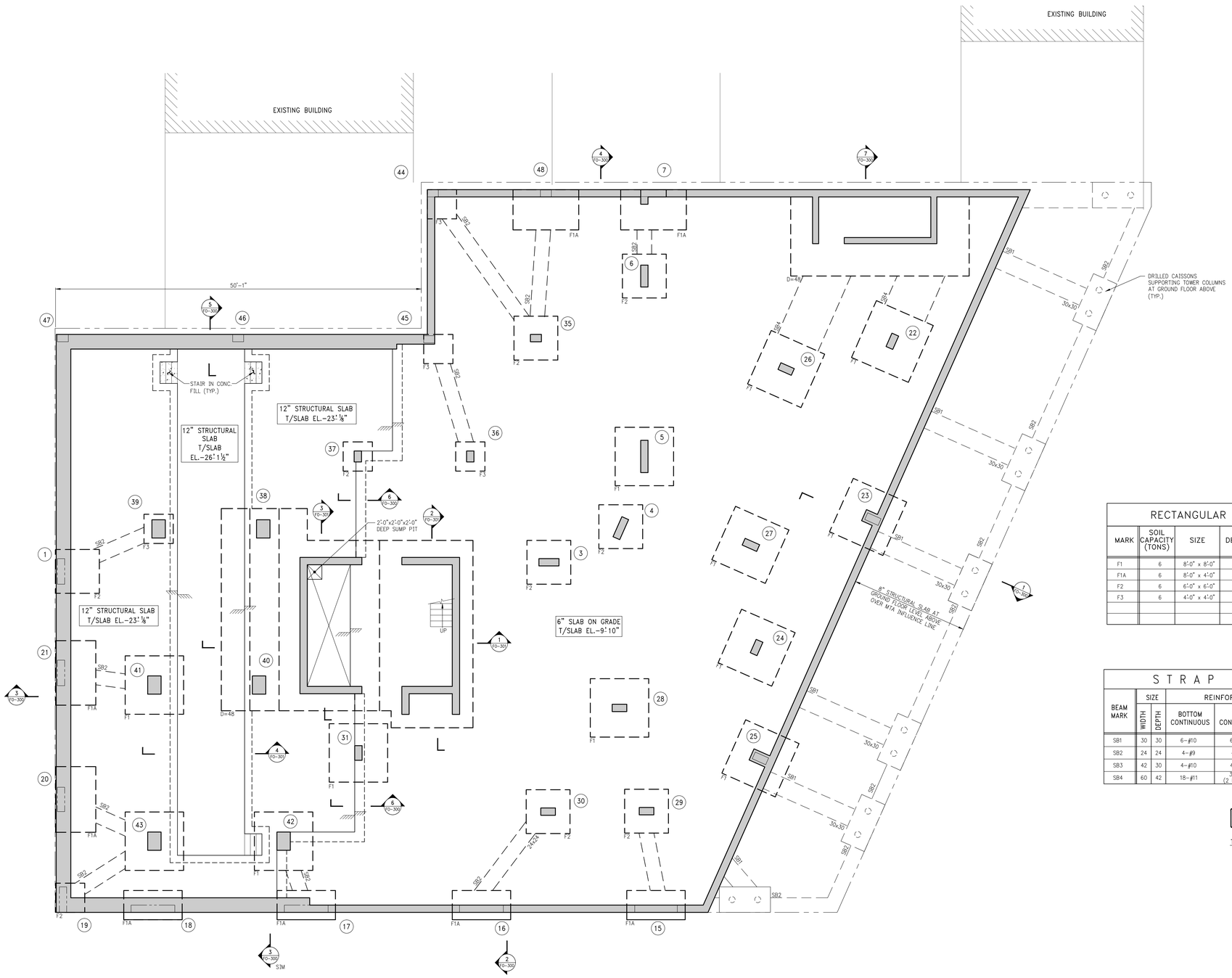
GKV Project 1062-01

Scale:

Drawing Title:
ROOF PLANTERS, ENTRANCE CANOPY DETAILS

Drawing No. A-722.00

Sheet No:



1 FO-100 FOUNDATION PLAN (CELLAR)

SCALE: 3/16"=1'-0"

NOTES:

1. TOP OF SLAB ELEVATION TO BE -9'-8" U.O.N. ON PLAN. (SEE ARCH. DRAWINGS FOR MANHATTAN DATUM.)
2. SLAB TO BE 6" THICK U.O.N. THUS ON PLAN. 12" SLAB REINF. W/#5@12 CONT T&B EACH WAY.
3. SLAB REINFORCEMENT TO BE W.W.F. 6x6-W2.9xW2.9.
4. CAISSON CAPS TO BE CENTERED ON COLUMNS OR WALLS U.O.N. ALL CAISSONS TO BE 150T U.O.N. ON PLAN.
5. ALL FOOTINGS TO BE CENTERED ON COLUMNS OR WALLS U.O.N. FOOTING TYPICALLY BEAR ONTO 6TSF GROUND. REQUIRED BEARING CAPACITY INDICATED ON FOOTING SCHEDULE.
6. FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND SEE DRAWING FO-001
7. FOR FOUNDATION TYPICAL DETAILS SEE FO-200 SERIES DRAWINGS.
8. FOR FOUNDATION SECTIONS SEE FO-300 SERIES DRAWINGS.
9. FOR LINK BEAM SCHEDULE AND SHEARWALL DETAILS SEE S-940 SERIES DRAWINGS.
10. FOR COLUMN SIZES, REINFORCEMENT AND DETAILS SEE S-950 SERIES DRAWINGS.
11. FOR SETTING OUT OF ALL STRUCTURAL ELEMENTS SEE ARCH DRAWINGS.

RECTANGULAR FOOTINGS (5000 psi)

MARK	SOIL CAPACITY (TONS)	SIZE	DEPTH	BOTTOM REINF. 90° HOOKS AT END		REMARKS
				LONG BARS	SHORT BARS	
F1	6	8'-0" x 8'-0"	3'-6"	8-#9	8-#9	
F1A	6	8'-0" x 4'-0"	3'-6"	4-#8	8-#8	
F2	6	6'-0" x 6'-0"	2'-6"	6-#8	6-#8	
F3	6	4'-0" x 4'-0"	2'-6"	4-#8	4-#8	

STRAP BEAM SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT			STIRRUPS			REMARKS
	WIDTH	DEPTH	BOTTOM CONTINUOUS	TOP CONTINUOUS	TOP ADD'L BARS AT SUPPORT	TYPE	SIZE	SPACING	
SB1	30	30	6-#10	6-#10		1	#4	@ 12" O/C	
SB2	24	24	4-#9	4-#9		1	#4	@ 12" O/C	
SB3	42	30	4-#10	4-#10		1	#4	@ 12" O/C	
SB4	60	42	18-#11	36-#11 (2 LAYERS)		1	#4	@ 12" O/C	PROVIDE #5@6 SKIN REINF.

STIRRUP TYPES
N.T.S.

Figure 6F

500 Waverly Avenue, Brooklyn, NY11238

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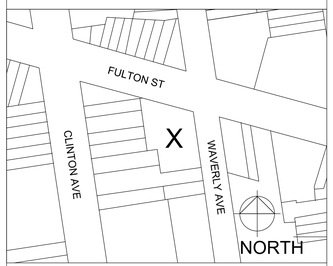

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	ISSUE FOR DD	05-07-14
	100% SD SET	03-31-14

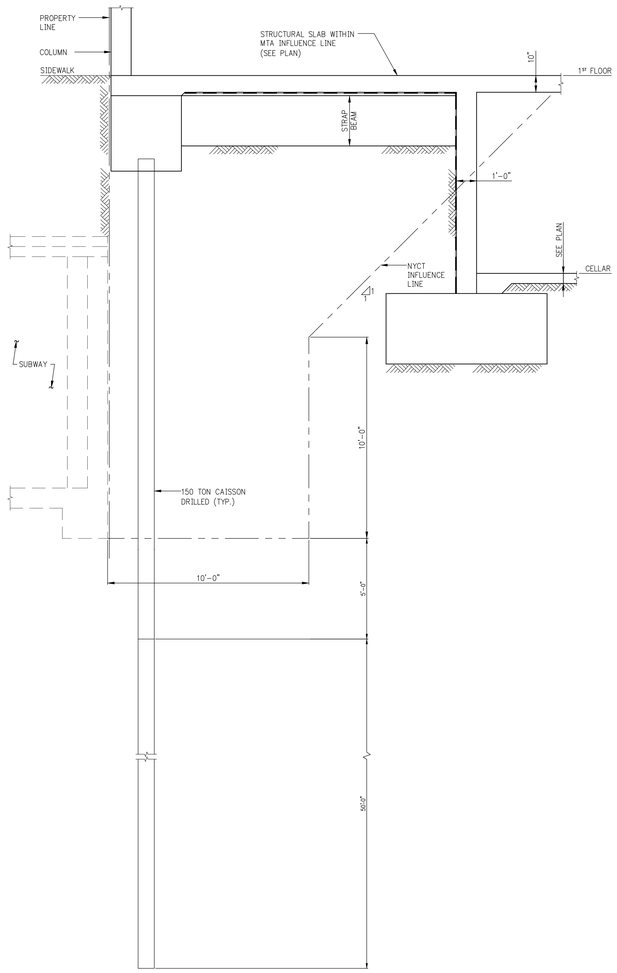
GKV Project 1062-01

Scale: 3/16" = 1'-0'

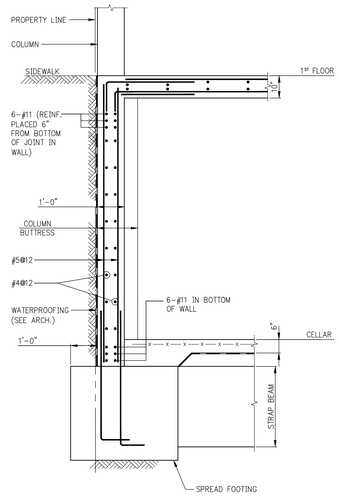
Drawing Title:
FOUNDATION PLAN (CELLAR)

Drawing No.
FO-100.00

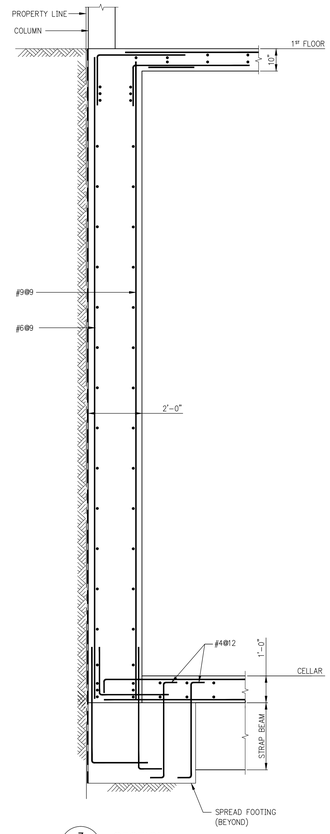
Sheet No:



1 FO-300 SECTION
SCALE: 3/8"=1'-0"

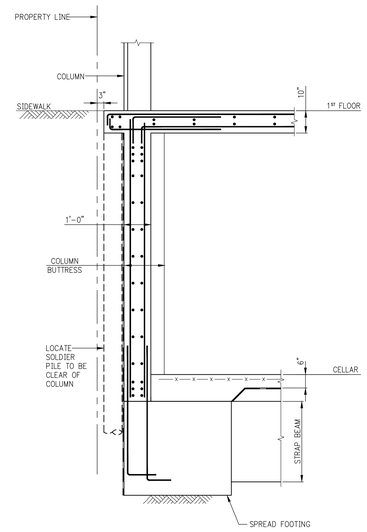


2 FO-300 SECTION
SCALE: 3/4"=1'-0"



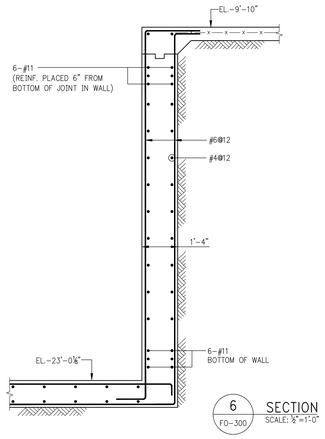
3 FO-300 SECTION
SCALE: 3/4"=1'-0"

NOTE:
1. FOR BALANCE OF INFORMATION SEE SECTION 2/FO-300

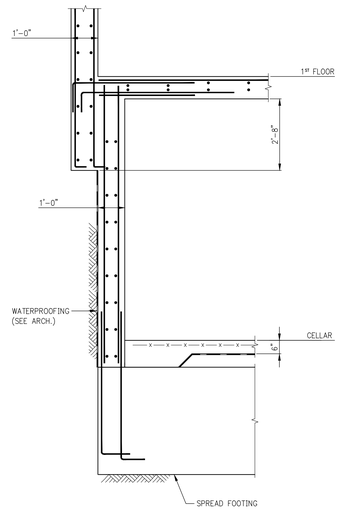


4 FO-300 SECTION
SCALE: 3/4"=1'-0"

NOTE:
1. FOR BALANCE OF INFORMATION SEE SECTION 2/FO-300

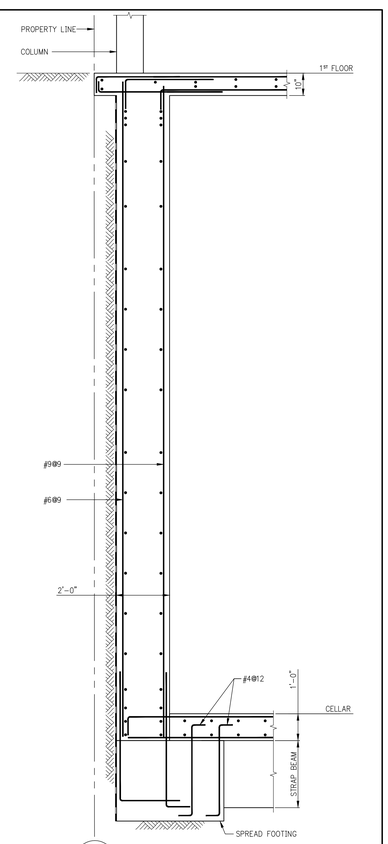


6 FO-300 SECTION
SCALE: 3/4"=1'-0"



7 FO-300 SECTION
SCALE: 3/4"=1'-0"

Figure 6G



5 FO-300 SECTION
SCALE: 3/4"=1'-0"

NOTE:
1. FOR BALANCE OF INFORMATION SEE SECTION 2/FO-300

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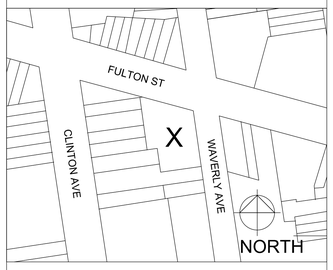

Revisions

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	UPDATED	05-27-14
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	100% SD SET	03-31-14

GKV Project 1062-01

Scale: AS NOTED

Drawing Title:

FOUNDATION SECTIONS

Drawing No. FO-300.00

Sheet No:

WAIVERS

DOT requirement waived — As per / Date

1)
2)

GENERAL REQUIREMENTS

1. ALL DESIGNS, MATERIALS, CONSTRUCTION METHODS AND WORKMANSHIP SHALL COMPLY WITH THE FOLLOWING PUBLICATIONS OF THE BUREAU OF HIGHWAYS: STANDARDS SPECIFICATIONS, STANDARD DETAILS OF CONSTRUCTION; RULES OF THE BUREAU OF HIGHWAY OPERATIONS; GUIDELINES FOR THE DESIGN OF INFRASTRUCTURE COMPONETS.
2. ALL NON STANDARD MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE DOT.
3. ANY WORK NOT COMPLYING WITH THE REQUIREMENTS OF THE DOT SHALL BE REMOVED AND REPLACED.
4. THIS PLAN SHALL BE VALID FOR THE ISSUANCE OF CONSTRUCTION PERMITS FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL OR SELF CERTIFICATION, AS APPLICABLE.
5. ALL SIDEWALK AND STREET AREAS CONSTRUCTED UNDER THIS PLAN SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES.

ISSUANCE OF PERMITS

6. NO SIDEWALK, CURB OR ROADWAY WORK SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH HIGHWAY SUPERINTENDENT. APPLICATION SHALL BE MADE THREE DAYS BEFORE STARTING CONSTRUCTION. THE CONTRUCTOR SHALL HAVE ALL REQUIRED INSURANCE COVERAGE ON FILE.
7. NO WORK ON DRAINAGE STRUCTURES SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
8. ANY VAULT WORK AT THE SITE SHALL BE DONE AS PER THE APPLICABLE RULES OF THE DOT AND THE DEPT. OF BUILDINGS.

CONSTRUCTION ACTIVITY

9. A CONSTRUCTION PLAN SHOWING MAINTENANCE AND PROTECTION OF TRAFFIC INCLUDING PLACEMENT OF SIDEWALK BRIDGES, BARRIERS AND SIGNAGE, SHALL BE SUBMITTED TO THE BOROUGH HIGHWAY OFFICE BEFORE CONSTRUCTION BEGINS.
10. NO SIDEWALK SHALL BE CLOSED WITHOUT A PERMIT. PEDESTRIAN AND TRAFFIC SAFETY SHALL BE PROTECTED AT ALL THE TIMES. ROADWAY CLOSINGS SHALL BE AS DIRECTED.
11. THE SITE SHALL BE MAINTAINED IN A CLEAN AND SAFE CONDITION.

FINAL SIGN-OFF

12. PERMITS SHALL BE PRESENTED FROM ALL PUBLIC AGENCIES AND UTILITIES HAVING OWNERSHIP OF STRUCTURES RELOCATED OR REMOVED DURING CONSTRUCTION.
13. ALL PAVEMENT MARKINGS INCLUDING THERMOPLASTIC LANE DIVIDERS, REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE BUREAU OF TRAFFIC STDS.
14. ALL EXISTING CATCH BASINS ON THE SITE SHALL BE CLEANED AND MADE OPERABLE.
15. ALL DAMAGE CAUSED BY CONSTRUCTION ON THIS PROJECT OUTSIDE THE PROJECT LIMITS SHALL BE REPAIRED AS DIRECTED.
16. THE ROADWAY SHALL BE PAVED TO THE REQUIREMENTS OF THE DOT AND AS DIRECTED.

BUILDERS PAVEMENT PLAN LEGEND

- LOCATION OF SPOT GRADE
- 11.11 EXISTING SPOT GRADE
- 11.11 PROPOSED SPOT GRADE
- 11.11 C GRADE CORRECTED FROM SURVEY GRADE
- 11.11 INT GRADE INTERPOLATED FROM EXISTING ADJACENT SPOT GRADES
- PBC PROPOSED BOTTOM OF CURB
- EBC EXISTING BOTTOM OF CURB
- PTC PROPOSED TOP OF CURB
- ETC EXISTING TOP OF CURB
- PPL PROPOSED GRADE AT PROPERTY LINE OR OUTSIDE FACE OF BUILDING
- EPL EXISTING GRADE AT PROPERTY LINE OR OUTSIDE FACE OF BUILDING
- PTF PROPOSED TOP OF FRAME GRADE AT EXISTING DRAINAGE STRUCTURE
- ETF EXISTING TOP OF FRAME GRADE AT EXISTING DRAINAGE STRUCTURE
- ETG EXISTING GRATE ELEVATION AT MTA VENT
- EXISTING FIRE ALARM BOX (RESET TO NEW SIDEWALK GRADE)
- EXISTING STREET LIGHTS (RESET TO NEW SIDEWALK GRADE)
- EXISTING FIRE HYDRANT
- EXISTING CATCH BASIN (WITH GRATING AT EXISTING GRADE OR RESET TO NEW GRADE)
- BPM BORO PRESIDENTS MONUMENT - DO NOT DISTURB
- STREET REPAIR, RETOPPING OR RECONSTRUCTION OF PRECAST PAVERS
- NEW CURB - SEE PLAN FOR TYPE
- EXISTING MTA GRATING
- EXISTING TREE TO BE REMOVED UNDER SEPERATE AGREEMENT WITH NYC DPR
- EXISTING TREE IN RECONSTRUCTED 5' X 10' TREE PIT
- NEW STREET TREE IN NEW 5'X 10' TREE PIT
- NEW VEHICULAR DROPPED CURB
- EXISTING CURB CUT — EXISTING ADJACENT CURB CUT
- NEW PEDESTRIAN CORNER RAMP

EXPANSION JOINT NOTES:

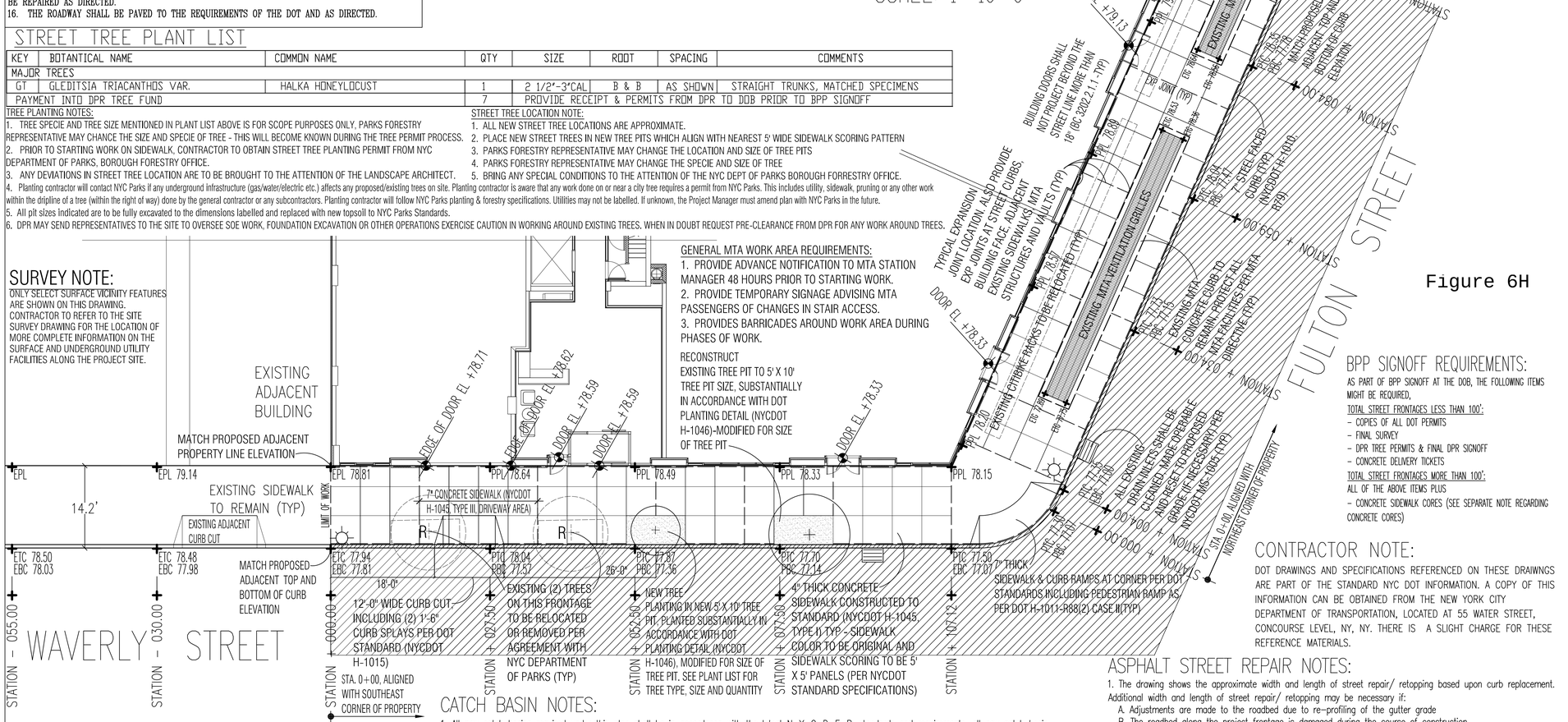
(iii) Expansion joints shall be placed approximately 20' apart in line with joints in curb and at the property or lot line, and shall be ½" in width and shall be filled with preformed joint filler to within 1" of the sidewalk surface. The top 1" shall be sealed with poured joint filler. The expansion joint, with filler, shall extend continuously from the back of the curb to the building line and a joint must also separate the sidewalk from the curb.

DRAWING NOTES:

1. Reset all existing valve boxes, drainage structures and utility structures to new sidewalk or street grade. Coordinate reset utilities with utility companies.
2. Reset existing traffic signs to existing locations
3. Reset street lights to new grade
4. At adjacent property lines; meet existing curbs, and existing sidewalks in a smooth transition.

CONTRACTOR EXPERIENCE NOTE:

THE WORK SHOWN ON THESE DRAWINGS IS SPECIALIZED WORK WHICH SHOULD BE DONE ONLY BY AN EXPERIENCED SIDEWALK CONTRACTOR WHO IS FAMILIAR WITH THE REQUIREMENTS OF THE DOT AND DOB. FAILURE TO HIRE AN EXPERIENCED SIDEWALK CONTRACTOR MAY RESULT IN PROBLEMS DURING SIGNOFF OF THE SIDEWALK WORK.



SURVEY NOTE:

ONLY SELECT SURFACE VICINITY FEATURES ARE SHOWN ON THIS DRAWING. CONTRACTOR TO REFER TO THE SITE SURVEY DRAWING FOR THE LOCATION OF MORE COMPLETE INFORMATION ON THE SURFACE AND UNDERGROUND UTILITY FACILITIES ALONG THE PROJECT SITE.

GENERAL MTA WORK AREA REQUIREMENTS:

1. PROVIDE ADVANCE NOTIFICATION TO MTA STATION MANAGER 48 HOURS PRIOR TO STARTING WORK.
2. PROVIDE TEMPORARY SIGNAGE ADVISING MTA PASSENGERS OF CHANGES IN STAIR ACCESS.
3. PROVIDES BARRICADES AROUND WORK AREA DURING PHASES OF WORK.

RECONSTRUCT EXISTING TREE PIT TO 5' X 10' TREE PIT SIZE, SUBSTANTIALLY IN ACCORDANCE WITH DOT PLANTING DETAIL (NYCDOT H-1046)-MODIFIED FOR SIZE OF TREE PIT

STREET TREE PLANT LIST

KEY	BOTANTICAL NAME	COMMON NAME	QTY	SIZE	ROOT	SPACING	COMMENTS
MAJOR TREES							
GT	GLEDITSIA TRIACANTHOS VAR.	HALKA HONEYLOCUST	1	2 1/2"-3"CAL	B & B	AS SHOWN	STRAIGHT TRUNKS, MATCHED SPECIMENS
PAYMENT INTO DPR TREE FUND			7	PROVIDE RECEIPT & PERMITS FROM DPR TO DOB PRIOR TO BPP SIGNOFF			

TREE PLANTING NOTES:

1. TREE SPECIE AND TREE SIZE MENTIONED IN PLANT LIST ABOVE IS FOR SCOPE PURPOSES ONLY, PARKS FORESTRY REPRESENTATIVE MAY CHANCE THE SIZE AND SPECIE OF TREE - THIS WILL BECOME KNOWN DURING THE TREE PERMIT PROCESS.
2. PRIOR TO STARTING WORK ON SIDEWALK, CONTRACTOR TO OBTAIN STREET TREE PLANTING PERMIT FROM NYC DEPARTMENT OF PARKS, BOROUGH FORESTRY OFFICE.
3. ANY DEVIATIONS IN STREET TREE LOCATION ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
4. Planting contractor will contact NYC Parks if any underground infrastructure (gas/water/electric etc.) affects any proposed/existing trees on site. Planting contractor is aware that any work done on or near a city tree requires a permit from NYC Parks. This includes utility, sidewalk, pruning or any other work within the dripline of a tree (within the right of way) done by the general contractor or any subcontractors. Planting contractor will follow NYC Parks planting & forestry specifications. Utilities may not be labelled. If unknown, the Project Manager must amend plan with NYC Parks in the future.
5. All pit sizes indicated are to be fully excavated to the dimensions labelled and replaced with new topsoil to NYC Parks Standards.
6. DPR MAY SEND REPRESENTATIVES TO THE SITE TO OVERSEE SOE WORK, FOUNDATION EXCAVATION OR OTHER OPERATIONS EXERCISE CAUTION IN WORKING AROUND EXISTING TREES. WHEN IN DOUBT REQUEST PRE-CLEARANCE FROM DPR FOR ANY WORK AROUND TREES.

STREET TREE LOCATION NOTE:

1. ALL NEW STREET TREE LOCATIONS ARE APPROXIMATE.
2. PLACE NEW STREET TREES IN NEW TREE PITS WHICH ALIGN WITH NEAREST 5' WIDE SIDEWALK SCORING PATTERN
3. PARKS FORESTRY REPRESENTATIVE MAY CHANGE THE LOCATION AND SIZE OF TREE PITS
4. PARKS FORESTRY REPRESENTATIVE MAY CHANGE THE SPECIE AND SIZE OF TREE
5. BRING ANY SPECIAL CONDITIONS TO THE ATTENTION OF THE NYC DEPT OF PARKS BOROUGH FORRESTRY OFFICE.

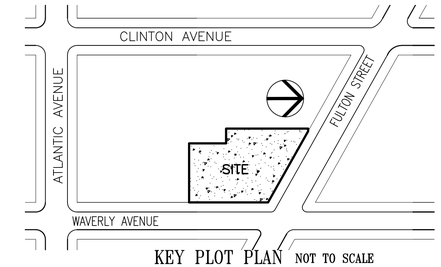
LIST OF ESTIMATED QUANTITIES

New Curb (frontage)	213 (STEEL FACED)	Lin.ft.
New Curb (Corner)	20 (STEEL FACED)	Lin.ft.
New Sidewalk	3582	Sq.Ft.
New Roadway	610	Sq.yds
New Trees	8 (1 ONSITE & 7 PAID INTO DPR TREE FUND)	Each
New CBs	0	Each
New DIP	0	Lin.ft.
New Manholes	0	Each

3RD DRAFT DATE 17 JUNE 2014
2ND DRAFT DATE 2 JUNE 2014
1ST DRAFT DATE 19 MAY 2014

CATCH BASIN NOTES:

1. All new catch basins required under this plan shall be in accordance with the latest N. Y. C. D. E. P. standards and requirements, all new catch basin connections shall be made to existing sewers at manholes, and shall consist of 12" ductile iron pipe class 56, with "push-on" joints laid on 6" of broken stone for the entire width of trench and for one-half the pipe diameter. The broken stone shall be hard unweathered stone uniformly graded from ¼" to ¾" in diameter, conforming to commerical ¼" to ¾" stone.
2. All existing non-standard basins within the project limits shall be replaced or modified to conform with the latest N. Y. C. D. E. P. standards and requirements.
3. All abandoned basins, inlets and drainage structures shown on the paving plans shall be bulkheaded and cut down to two (2) feet below subgrade, and filled with compacted clean sand. Basin connections not required shall be plugged at both ends.
4. All damaged manholes caused by the contractors work shall be repaired or replaced by the contractor, as directed by the engineer, at no cost to the city.
5. Prior to the installation of the drainage facilities proposed under this plan, permits are to be obtained from the local sewer record office of the Department of Environmental Protection (D.E.P.). Construction inspection is to be requested at least 24 hours in advance from the house connection inspection unit of the D.E.P division of sewer regulation and control.



KEY PLOT PLAN NOT TO SCALE

STREET TREE ZONING REQUIREMENTS:	
TOTAL STREET FRONTAGE OF NEW BUILDING	212.95
TOTAL STREET FRONTAGE OF OTHER BUILDINGS ON ZONING LOT	0
TOTAL STREET FRONTAGE	212.95
DIVIDE BY 25'	/ 25
TOTAL REQUIRED STREET TREES (ROUNDED UP OR DOWN)	9
STREET TREE ZONING REQUIREMENTS ARE MET AS FOLLOWS:	
NUMBER OF EXISTING OR RELOCATED TREES TO REMAIN ALONG THIS FRONTAGE	1
NUMBER OF NEW STREET TREES ALONG THIS FRONTAGE	1
NUMBER OF NEW TREES TO BE PLANTED AT OFF SITE LOCATIONS OR PAID INTO DPR TREE FUND	7
TOTAL REQUIRED STREET TREES	9
NOTE:	
NUMBER OF EXISTING TREES TO BE REMOVED (WITH SEPERATE PARKS DEPT APPROVAL)	2

CONCRETE TESTING NOTE:

PER NYCDOT HIGHWAY RULES, SECT 2-09, f, 4, iv, (A) - CORE EVALUATION REPORTS SHALL BE REQUIRED AS FOLLOWS:

SIDEWALKS LESS THAN 100' TOTAL FRONTAGE - NOT REQUIRED

SIDEWALKS MORE THAN 100' TOTAL FRONTAGE - REQUIRED, PROVIDE 1 CORE FOR EACH 500 SF OF INSTALLED SIDEWALK

CONTRACTOR SHALL KEEP CONCRETE TICKETS FOR ALL SIDEWALK CONCRETE DELIVERIES

Figure 6H

BPP SIGNOFF REQUIREMENTS:

AS PART OF BPP SIGNOFF AT THE DOB, THE FOLLOWING ITEMS MIGHT BE REQUIRED,

TOTAL STREET FRONTAGES LESS THAN 100':
- COPIES OF ALL DOT PERMITS
- FINAL SURVEY
- DPR TREE PERMITS & FINAL DPR SIGNOFF
- CONCRETE DELIVERY TICKETS

TOTAL STREET FRONTAGES MORE THAN 100':
ALL OF THE ABOVE ITEMS PLUS
- CONCRETE SIDEWALK CORES (SEE SEPARATE NOTE REGARDING CONCRETE CORES)

CONTRACTOR NOTE:

DOT DRAWINGS AND SPECIFICATIONS REFERENCED ON THESE DRAIWNGS ARE PART OF THE STANDARD NYC DOT INFORMATION. A COPY OF THIS INFORMATION CAN BE OBTAINED FROM THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION, LOCATED AT 55 WATER STREET, CONCOURSE LEVEL, NY, NY. THERE IS A SLIGHT CHARGE FOR THESE REFERENCE MATERIALS.

ASPHALT STREET REPAIR NOTES:

1. The drawing shows the approximate width and length of street repair/ retopping based upon curb replacement. Additional width and length of street repair/ retopping may be necessary if:
   A. Adjustments are made to the roadbed due to re-profiling of the gutter grade
   B. The roadbed along the project frontage is damaged during the course of construction.
   C. New utilities are not backfilled and retopped correctly.
   D. Sinkage or settlement of the roadbed (out of existing alignment) has occured for any reason.
   E. The roadbed surface is scored, grooved or damaged by construction equipment.
   F. Pre-construction roadbed exhibits any of the above conditions.
2. At the end of the project, the extent of responsibility for an undamaged roadbed is 1/2 of the width of the street, plus five feet. If the roadbed is not damaged then no additional repair/ retopping needs to be done beyond what is shown on the drawings.
3. There is a possibility that the DOB or DOT field inspector may require (as a condition of signoff) that the street roadbed be retopped per item 2 (above). There is no way of determining this in advance of the actual work.
4. Restore all street markings, crosswalks, lane striping, etc after street retopping.
5. Seal all edges of repaired/ retopped roadbed.

Borough: BROOKLYN — Sheet 1 of 2

DOB Curb Cut #: TBD — DOB BPP #: TBD

DOB NB #: TBD — Con Ed Layout #: N/A — DOT Vault #: N/A

NEW YORK CITY

BUILDERS PAVEMENT PLAN

PROJECT DATA

Block 2011 — Lot(s) 30
Zoning R7A — Zoning Map No. 16c

Street Address 502 Waverly Avenue, Brooklyn, New York

Owner: Name Orange Management Inc.
Address 350 7th Avenue, Suite 1601, New York, New York, 10001, 212 431 5900

Plan prepared by:

Name SULLIVAN GROUP DESIGN LLC
Street Address 109 WEST 27TH STREET
City / State / Zip NEW YORK, N.Y. 10001
Phone No. 212-352-8636
Fax No. 212-352-8637

Seal: SEE SEAL BELOW

Signature

DOB APPROVAL

Proposed and existing work shown here reviewed for compliance with all applicable rules and requirements by:

Plan Examiner

Approval for issuance of work permits granted by:

Chief / Builders Pavement Section — Date ___/___/___

Project

Street Address 502 Waverly Avenue, Brooklyn, New York

Owner: Name Orange Management Inc.
Address 350 7th Avenue, Suite 1601, New York, New York, 10001, 212 431 5900

Drawing Title

BUILDERS PAVEMENT PLAN

For GROUND FLOOR sidewalk areas outside property limits

Seal & Signature

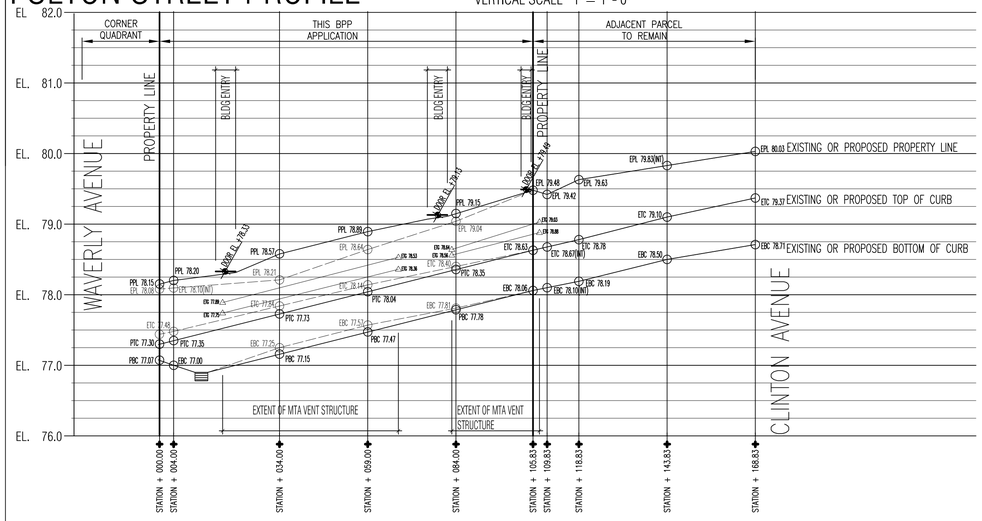
Architect:
Sullivan Group Design LLC
109 West 27th Street
New York, NY, 10001
212 352 8636

Dwg Number: BPP-001.00

Sheet 1 of 2

FULTON STREET PROFILE

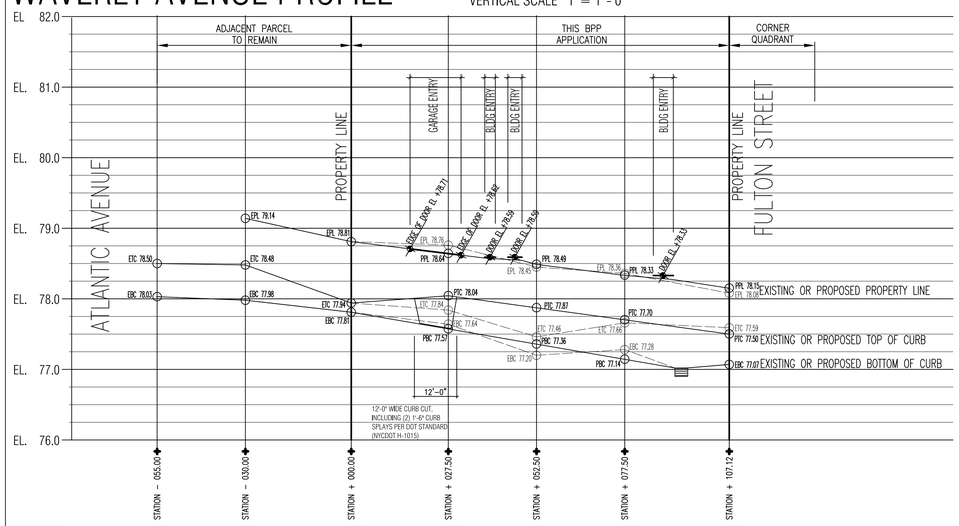
HORIZONTAL SCALE 1' = 20' - 0"
VERTICAL SCALE 1' = 1' - 0"



CURB REVEAL	.23	.35	.58	.57	.57	.57	.57	.59	.60	.66
SWX SLOPE (BLDG TO MTA VENT CURB)	X	X	4.7%	4.7%	4.8%	4.8%	X	X	X	X
SWX SLOPE (BLDG TO CURB)	4.4%	4.4%	4.3%	4.4%	4.1%	4.4%	3.8%	4.4%	3.7%	3.4%
ROAD XSLOPE	X	X	X	X	X	X	X	X	X	X

WAVERLY AVENUE PROFILE

HORIZONTAL SCALE 1' = 20' - 0"
VERTICAL SCALE 1' = 1' - 0"



CURB REVEAL	.47	.50	.13	.47	.51	.56	.43
SWX SLOPE	N/A	4.6%	6.1%	4.2%	4.3%	4.4%	4.5%
ROAD XSLOPE	X	X	X	X	X	X	X

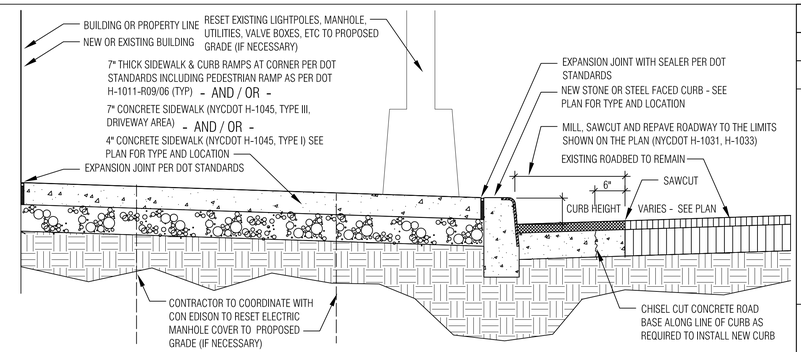
BUILDERS PAVEMENT PLAN LEGEND

+	LOCATION OF SPOT GRADE
11.11	EXISTING SPOT GRADE
11.11	PROPOSED SPOT GRADE
11.11 C	GRADE CORRECTED FROM SURVEY GRADE
11.11 INT	GRADE INTERPOLATED FROM EXISTING ADJACENT SPOT GRADES
PBC	PROPOSED BOTTOM OF CURB
EBC	EXISTING BOTTOM OF CURB
PTC	PROPOSED TOP OF CURB
ETC	EXISTING TOP OF CURB
PPL	PROPOSED GRADE AT PROPERTY LINE OR OUTSIDE FACE OF BUILDING
EPL	EXISTING GRADE AT PROPERTY LINE OR OUTSIDE FACE OF BUILDING
PTF	PROPOSED TOP OF FRAME GRADE AT EXISTING DRAINAGE STRUCTURE
ETF	EXISTING TOP OF FRAME GRADE AT EXISTING DRAINAGE STRUCTURE
ETG	EXISTING GRATE ELEVATION AT MTA VENT

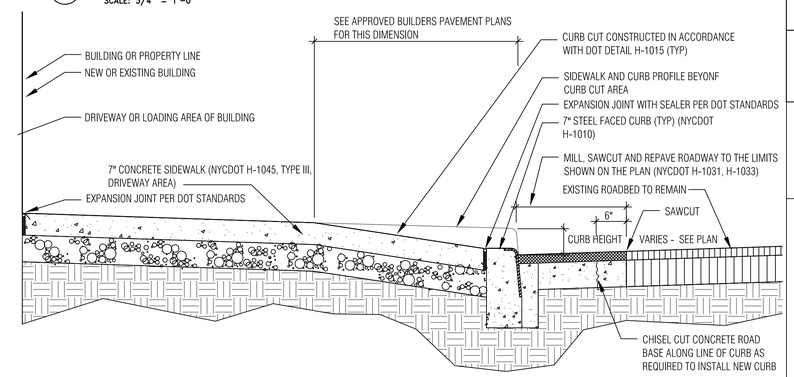
LIST OF ESTIMATED QUANTITIES

New Curb (frontage)	213 (STEEL FACED)	Lin.ft.
New Curb (Corner)	20 (STEEL FACED)	Lin.ft.
New Sidewalk	3582	Sq.Ft.
New Roadway	610	Sq.yds
New Trees	8 (1 ONSITE & 7 PAID INTO DPR TREE FUND)	Each
New CBs	0	Each
New DIP	0	Lin.ft.
New Manholes	0	Each

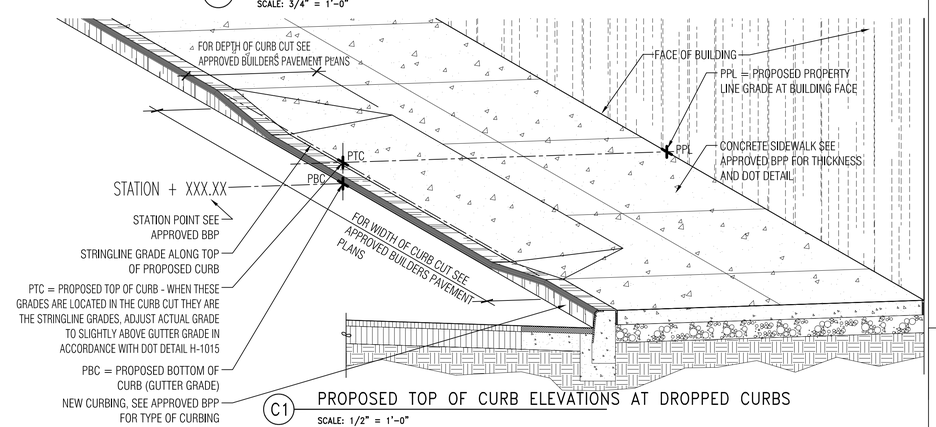
3RD DRAFT DATE 17 JUNE 2014
2ND DRAFT DATE 2 JUNE 2014
1ST DRAFT DATE 19 MAY 2014



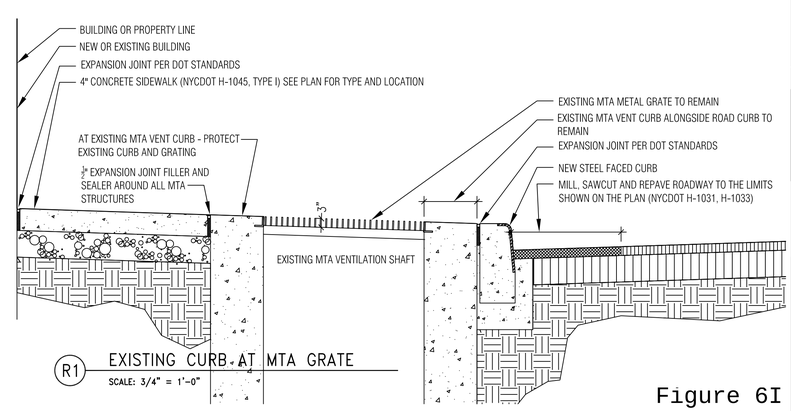
1 TYPICAL SIDEWALK CROSS SECTION
SCALE: 3/4" = 1'-0"



2 TYPICAL DRIVEWAY / DROP CURB CROSS SECTION
SCALE: 3/4" = 1'-0"



C1 PROPOSED TOP OF CURB ELEVATIONS AT DROPPED CURBS
SCALE: 1/2" = 1'-0"



R1 EXISTING CURB AT MTA GRATE
SCALE: 3/4" = 1'-0"

Figure 6I

Borough: BROOKLYN	Sheet 2 of 2	
DOB Curb Cut #: TBD		DOB BPP #: TBD
DOB NB #: TBD	Con Ed Layout #: N/A	DOT Vault #: N/A

NEW YORK CITY

BUILDERS PAVEMENT PLAN

PROJECT DATA

Block 2011 Lot(s) 30
Zoning R7A Zoning Map No. 16c

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Owner: Name Orange Management Inc.
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212 431 5900

Plan prepared by:

Name SULLIVAN GROUP DESIGN LLC
Street Address 109 WEST 27TH STREET
City / State / Zip NEW YORK, N.Y. 10001
Phone No. 212-352-8636
Fax No. 212-352-8637

Seal

SEE SEAL BELOW

Signature

WAIVERS

DOT requirement waived	As per / Date
1)	
2)	
3)	
4)	

GENERAL REQUIREMENTS

1. ALL DESIGNS, MATERIALS, CONSTRUCTION METHODS AND WORKMANSHIP SHALL COMPLY WITH THE FOLLOWING PUBLICATIONS OF THE BUREAU OF HIGHWAYS: STANDARDS SPECIFICATIONS, STANDARD DETAILS OF CONSTRUCTION; RULES OF THE BUREAU OF HIGHWAY OPERATIONS; GUIDELINES FOR THE DESIGN OF INFRASTRUCTURE COMPONETS.
2. ALL NON STANDARD MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE DOT.
3. ANY WORK NOT COMPLYING WITH THE REQUIREMENTS OF THE DOT SHALL BE REMOVED AND REPLACED.
4. THIS PLAN SHALL BE VALID FOR THE ISSUANCE OF CONSTRUCTION PERMITS FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL OR SELF CERTIFICATION, AS APPLICABLE.
5. ALL SIDEWALK AND STREET AREAS CONSTRUCTED UNDER THIS PLAN SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES.

ISSUANCE OF PERMITS

6. NO SIDEWALK, CURB OR ROADWAY WORK SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH HIGHWAY SUPERINTENDENT. APPLICATION SHALL BE MADE THREE DAYS BEFORE STARTING CONSTRUCTION. THE CONTRUCTOR SHALL HAVE ALL REQUIRED INSURANCE COVERAGE ON FILE.
7. NO WORK ON DRAINAGE STRUCTURES SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
8. ANY VAULT WORK AT THE SITE SHALL BE DONE AS PER THE APPLICABLE RULES OF THE DOT AND THE DEPT. OF BUILDINGS.

CONSTRUCTION ACTIVITY

9. A CONSTRUCTION PLAN SHOWING MAINTENANCE AND PROTECTION OF TRAFFIC INCLUDING PLACEMENT OF SIDEWALK BRIDGES, BARRIERS AND SIGNAGE, SHALL BE SUBMITTED TO THE BOROUGH HIGHWAY OFFICE BEFORE CONSTRUCTION BEGINS.
10. NO SIDEWALK SHALL BE CLOSED WITHOUT A PERMIT. PEDESTRIAN AND TRAFFIC SAFETY SHALL BE PROTECTED AT ALL THE TIMES. ROADWAY CLOSINGS SHALL BE AS DIRECTED.
11. THE SITE SHALL BE MAINTAINED IN A CLEAN AND SAFE CONDITION.

FINAL SIGN-OFF

12. PERMITS SHALL BE PRESENTED FROM ALL PUBLIC AGENCIES AND UTILITIES HAVING OWNERSHIP OF STRUCTURES RELOCATED OR REMOVED DURING CONSTRUCTION.
13. ALL PAVEMENT MARKINGS INCLUDING THERMOPLASTIC LANE DIVIDERS, REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE BUREAU OF TRAFFIC STDS.
14. ALL EXISTING CATCH BASINS ON THE SITE SHALL BE CLEANED AND MADE OPERABLE.
15. ALL DAMAGE CAUSED BY CONSTRUCTION ON THIS PROJECT OUTSIDE THE PROJECT LIMITS SHALL BE REPAIRED AS DIRECTED.
16. THE ROADWAY SHALL BE PAVED TO THE REQUIREMENTS OF THE DOT AND AS DIRECTED.

DOB APPROVAL

Proposed and existing work shown here reviewed for compliance with all applicable rules and requirements by:

Plan Examiner

Approval for issuance of work permits granted by:

Chief / Builders Pavement Section — Date ___/___/___

Project

Street Address 502 Waverly Avenue, Brooklyn, New York

Owner: Name Orange Management Inc.
Address 350 7th Avenue, Suite 1601
New York, New York, 10001
212 431 5900

Drawing Title

BUILDERS PAVEMENT PLAN

For GROUND FLOOR sidewalk areas outside property limits

Seal & Signature

Architect:
Sullivan Group Design LLC
109 West 27th Street
New York, NY, 10001
212 352 8636

Dwg Number:

BPP-002.00

Sheet 2 of 2

TABLES

Table 1
Analytical Results for VOCs in Soil Samples
882 Fulton Street
Brooklyn, New York

Client Sample ID:					SB-1 (0-2')	SB-1 (13-15')	SB-2 (0-2')	SB-2 (13-15')	SB-3 (0-2')	SB-3 (13-15')	SB-4 (0-2')	SB-4 (13-15')	SB-5 (0-2')	SB-5 (13-15')	SB-6 (0-2')	SB-6 (13-15')	SB-7 (0-2')	SB-7 (13-15')	SB-8 (0-2')	SB-8 (13-15')	SB-XX	Field Blank 10/11	Trip Blank
Sampling Date:					10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013
Matrix:		Track 2 Restricted Res.	Track 1 Unrestricted Use		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Liquid	Liquid
VOCs 8260																							
Analyte	Units	Limits	Limits	Limits	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1,1,1,2-Tetrachloroethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1,1-Trichloroethane	PPB	100000 (16)	680 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1,2,2-Tetrachloroethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1,2-Trichloro-1,2,2-trifluoroe	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1,2-Trichloroethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1-Dichloroethane	PPB	26000 (16)	270 (14)	19000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1-Dichloroethene	PPB	100000 (16)	330 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,1-Dichloropropene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2,3-Trichlorobenzene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2,3-Trichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2,4,5-Tetramethylbenzene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2,4-Trichlorobenzene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2,4-Trimethylbenzene	PPB	52000 (16)	3600 (14)	47000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2-Dibromo-3-chloropropane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2-Dibromoethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2-Dichlorobenzene	PPB	100000 (16)	1100 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2-Dichloroethane	PPB	3100 (16)	20 (14)	2300 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,2-Dichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,3,5-Trimethylbenzene	PPB	52000 (16)	8400 (14)	47000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,3-Dichlorobenzene	PPB	49000 (16)	2400 (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,3-dichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,4-Dichlorobenzene	PPB	13000 (16)	1800 (14)	17000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
1,4-Dioxane	PPB	13000 (16)	100 (14)	9800 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
2,2-Dichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
2-Butanone	PPB	NA (16)	120 (14)	NA (15)	11 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
2-Chloroethyl vinyl ether	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	4 U	4 U
2-Chlorotoluene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
2-Hexanone	PPB	NA (16)	NA (14)	NA (15)	11 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
2-Propanol	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
4-Chlorotoluene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
4-Isopropyltoluene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
4-Methyl-2-pentanone	PPB	NA (16)	NA (14)	NA (15)	11 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
Acetone	PPB	100000 (16)	50 (14)	100000 (15)	7.1 J	7.3 J	11 U	11 U	11 U	11 U	6.7 J	11 U	10 U	11 U	11 U	6.7 J	11 U	11 U	7.1 J	7.2 J	11 U	5 U	2.6 J
Benzene	PPB	4800 (16)	60 (14)	2900 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Bromobenzene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Bromochloromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Bromodichloromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Bromoform	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Bromomethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Carbon disulfide	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Carbon tetrachloride	PPB	2400 (16)	760 (14)	1400 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Chlorobenzene	PPB	100000 (16)	1100 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Chlorodifluoromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Chloroethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Chloroform	PPB	49000 (16)	370 (14)	10000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Chloromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
cis-1,2-Dichloroethene	PPB	100000 (16)	250 (14)	59000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
cis-1,3-Dichloropropene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Dibromochloromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Dibromomethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Dichlorodifluoromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Diisopropyl ether	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Ethanol	PPB	NA (16)	NA (14)	NA (15)	28 U	27 U	27 U	27 U	27 U	27 U	26 U	27 U	26 U	27 U	28 U	27 U	28 U	26 U	28 U	27 U	28 U	10 U	10 U
Ethylbenzene	PPB	41000 (16)	1000 (14)	30000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Freon-114	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Hexachlorobutadiene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Isopropylbenzene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
m,p-Xylene	PPB	260 (16)	1600 (14)	100000 (15)	11 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	4 U	4 U
Methyl Acetate	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Methyl tert-butyl ether	PPB	100000 (16)	930 (14)	62000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Methylene chloride	PPB	100000 (16)	50 (14)	51000 (15)	4 J	2.8 J	2.7 J	3 J	2.4 J	3.2 J	3.6 J	3.1 J	3.6 J	3.3 J	3 J	3 J	3.5 J	2.5 J	3.6 J	2.6 J	3.4 J	4.4 B	4 B
Naphthalene	PPB	100000 (16)	12000 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
n-Butylbenzene	PPB	100000 (16)	12000 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
n-Propylbenzene	PPB	100000 (16)	3900 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
o-Xylene	PPB	260 (16)	1600 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
p-Diethylbenzene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
p-Ethyltoluene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
sec-Butylbenzene	PPB	100000 (16)	11000 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Styrene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
t-Butyl alcohol	PPB	NA (16)	NA (14)	NA (15)	22	27	16	5.4 U	5.4 U	5.4 U	25	7.2	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	31	33	5.6 U	10 U	10 U
tert-Butylbenzene	PPB	100000 (16)	5900 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Tetrachloroethene	PPB	19000 (16)	1300 (14)	5500 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Toluene	PPB	100000 (16)	700 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
trans-1,2-Dichloroethene	PPB	100000 (16)	190 (14)	100000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
trans-1,3-Dichloropropene	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Trichloroethene	PPB	21000 (16)	470 (14)	10000 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Trichlorofluoromethane	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Vinyl acetate	PPB	NA (16)	NA (14)	NA (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U
Vinyl chloride	PPB	900 (16)	20 (14)	210 (15)	5.5 U	5.3 U	5.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.4 U	5.2 U	5.4 U	5.6 U	5.4 U	5.6 U	5.3 U	5.6 U	5.5 U	5.6 U	2 U	2 U

(16) NYSDEC 375 Restricted Residential Use Limits
(15) NYSDEC 375 Residential Use Limits
(14) NYSDEC 375 Unrestricted Residential Use Limits
Abbreviation:
SB-XX is a duplicate of SB-8 (0-2')
PPB = parts per billion
Q = Laboratory qualifier
U = Analyte not detected
NA = Not available, no value specified in NYSDEC 375 Limits

Table 2
Analytical Results for SVOCs in Soil Samples
882 Fulton Street
Brooklyn, New York

Client Sample ID:					SB-1 (0-2')	SB-1 (13-15')	SB-2 (0-2')	SB-2 (13-15')	SB-3 (0-2')	SB-3 (13-15')	SB-4 (0-2')	SB-4 (13-15')	SB-5 (0-2')	SB-5 (13-15')	SB-6 (0-2')	SB-6 (13-15')	SB-7 (0-2')	SB-7 (13-15')	SB-8 (0-2')	SB-8 (13-15')	SB-XX	Field Blank 10/11
Laboratory ID:					1310114-01	1310114-02	1310114-03	1310114-04	1310114-05	1310114-08	1310114-09	1310114-10	1310114-11	1310114-12	1310114-13	1310114-14	1310114-15	1310114-16	1310114-17	1310114-18	1310114-19	1310114-20
Sampling Date:					10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013
	Matrix	Track 2	Track 1		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Liquid
SVOCs by 8270		Restricted Res.	Unrestricted Use	Residential																		
Analyte	Units	Limits	Limits	Limits	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1,2,4-Trichlorobenzene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
1,2-Dichlorobenzene	PPB	100000 (16)	1100 (14)	100000 (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
1,3-Dichlorobenzene	PPB	49000 (16)	2400 (14)	17000 (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
1,4-Dichlorobenzene	PPB	13000 (16)	1800 (14)	9800 (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2,3,4,6-Tetrachlorophenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2,4,5-Trichlorophenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2,4,6-Trichlorophenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2,4-Dichlorophenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2,4-Dimethylphenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	38 J	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	560 J	260 U	270 U	270 U	270 U	5 U
2,4-Dinitrophenol	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	10 U
2,4-Dinitrotoluene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2,6-Dinitrotoluene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2-Chloronaphthalene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2-Chlorophenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2-Methylnaphthalene	PPB	NA (16)	NA (14)	NA (15)	130 J	270 U	530	260 U	110 J	260 U	1300 U	260 U	260 U	270 U	230 J	260 U	180 J	260 U	270 U	270 U	270 U	5 U
2-Methylphenol	PPB	100000 (16)	330 (14)	100000 (15)	270 U	270 U	31 J	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	450 J	260 U	270 U	270 U	270 U	5 U
2-Nitroaniline	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
2-Nitrophenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	10 U
3,3'-Dichlorobenzidine	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
3+4-Methylphenol	PPB	100000 (16)	330 (14)	100000 (15)	270 U	270 U	83 J	260 U	66 J	260 U	1300 U	260 U	260 U	270 U	60 J	260 U	1200 J	260 U	270 U	180 J	270 U	5 U
3-Nitroaniline	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
4,6-Dinitro-2-methylphenol	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	10 U
4-Bromophenyl phenyl ether	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
4-Chloro-3-methylphenol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
4-Chloroaniline	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	250 J	260 U	270 U	270 U	270 U	5 U
4-Chlorophenyl phenyl ether	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
4-Nitroaniline	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
4-Nitrophenol	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	10 U
Acenaphthene	PPB	100000 (16)	20000 (14)	100000 (15)	380	270 U	2400	260 U	460	260 U	1300 U	260 U	260 U	270 U	1500	260 U	430 J	260 U	270 U	270 U	87 J	5 U
Acenaphthylene	PPB	100000 (16)	100000 (14)	100000 (15)	33 J	270 U	110 J	260 U	62 J	260 U	1300 U	260 U	260 U	270 U	560	260 U	290 J	260 U	270 U	270 U	270 U	5 U
Acetophenone	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	210 J	260 U	270 U	270 U	270 U	5 U
Aniline	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Anthracene	PPB	100000 (16)	100000 (14)	100000 (15)	620	270 U	4600	260 U	530	260 U	1300 U	260 U	260 U	270 U	3000	260 U	970 J	260 U	160 J	270 U	130 J	5 U
Atrazine	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Azobenzene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Benzaldehyde	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	20 U
Benzidine	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	10 U
Benzo(a)anthracene	PPB	1000 (16)	1000 (14)	1000 (15)	1900	270 U	11000	260 U	1200	260 U	450 J	260 U	160 J	270 U	8800	260 U	6700	260 U	46 J	270 U	330	5 U
Benzo(a)pyrene	PPB	1000 (16)	1000 (14)	1000 (15)	1500	270 U	9400	260 U	950	260 U	490 J	260 U	170 J	270 U	7300	260 U	4600	260 U	270 U	270 U	230 J	5 U
Benzo(b)fluoranthene	PPB	1000 (16)	1000 (14)	1000 (15)	1500	270 U	7300	260 U	910	260 U	370 J	260 U	170 J	270 U	6200	260 U	9100	260 U	61 J	270 U	300	5 U
Benzo(g,h,i)perylene	PPB	100000 (16)	100000 (14)	100000 (15)	1400	270 U	5400	260 U	910	260 U	310 J	260 U	190 J	270 U	5600	260 U	5200	260 U	30 J	270 U	190 J	5 U
Benzo(k)fluoranthene	PPB	3900 (16)	800 (14)	1000 (15)	1200	270 U	7800	260 U	920	260 U	370 J	260 U	140 J	270 U	6000	260 U	5800	260 U	41 J	270 U	300	5 U
Benzoic acid	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	3700	520 U	530 U	540 U	550 U	10 U
Benzyl alcohol	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Biphenyl	PPB	NA (16)	NA (14)	NA (15)	46 J	270 U	290	260 U	47 J	260 U	1300 U	260 U	260 U	270 U	180 J	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Bis(2-chloroethoxy)methane	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Bis(2-chloroethyl)ether	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Bis(2-chloroisopropyl)ether	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Bis(2-ethylhexyl)phthalate	PPB	NA (16)	NA (14)	NA (15)	270 U	29 J	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	29 J	150 J	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Butyl benzyl phthalate	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Caprolactam	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Carbazole	PPB	NA (16)	NA (14)	NA (15)	180 J	270 U	1900	260 U	190 J	260 U	1300 U	260 U	260 U	270 U	1100	260 U	1300 U	260 U	270 U	270 U	77 J	5 U
Chrysene	PPB	3900 (16)	1000 (14)	1000 (15)	2000	270 U	11000	260 U	1500	260 U	540 J	260 U	230 J	270 U	9100	260 U	8600	260 U	95 J	270 U	420	5 U
Dibenzo(a,h)anthracene	PPB	330 (16)	330 (14)	330 (15)	300	270 U	1600	260 U	260 J	260 U	1300 U	260 U	260 U	270 U	1400	260 U	1700	260 U	270 U	270 U	52 J	5 U
Dibenzofuran	PPB	59000 (16)	7000 (14)	14000 (15)	220 J	270 U	1500	260 U	270	260 U	1300 U	260 U	260 U	270 U	760	260 U	530 J	260 U	270 U	270 U	56 J	5 U
Diethyl phthalate	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Dimethyl phthalate	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Di-n-butyl phthalate	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	36 J	5 U
Di-n-octyl phthalate	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Fluoranthene	PPB	100000 (16)	100000 (14)	100000 (15)	2600	270 U	24000	260 U	2300	260 U	590 J	260 U	250 J	270 U	15000	260 U	21000	260 U	210 J	270 U	1000	5 U
Fluorene	PPB	100000 (16)	30000 (14)	100000 (15)	240 J	270 U	1600	260 U	340	260 U	1300 U	260 U	260 U	270 U	830	260 U	730 J	260 U	270 U	270 U	65 J	5 U
Hexachlorobenzene	PPB	1200 (16)	330 (14)	330 (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Hexachlorobutadiene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Hexachlorocyclopentadiene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	10 U
Hexachloroethane	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Indeno(1,2,3-c,d)pyrene	PPB	500 (16)	500 (14)	500 (15)	1300	270 U	6800	260 U	940	260 U	290 J	260 U	180 J	270 U	5400	260 U	5900 C	260 U	31 J	270 U	200 J	5 U
Isophorone	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	610 J	260 U	270 U	270 U	270 U	5 U
Naphthalene	PPB	100000 (16)	12000 (14)	100000 (15)	210 J	270 U	1300	260 U	190 J	260 U	1300 U	260 U	260 U	270 U	720	260 U	730 J	260 U	270 U	270 U	73 J	5 U
Nitrobenzene	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
N-Nitrosodimethylamine	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
N-Nitrosodi-n-propylamine	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	630	1300 U	260 U	270 U	270 U	270 U	5 U
N-Nitrosodiphenylamine	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U
Parathion	PPB	NA (16)	NA (14)	NA (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	10 U
Pentachlorophenol	PPB	6700 (16)	800 (14)	2400 (15)	540 U	540 U	530 U	520 U	530 U	520 U	2600 U	520 U	510 U	530 U	540 U	530 U	2700 U	520 U	530 U	540 U	550 U	10 U
Phenanthrene	PPB	100000 (16)	100000 (14)	100000 (15)	3100	270 U	23000	260 U	3700	260 U	510 J	260 U	160 J	270 U	16000	260 U	10000	260 U	160 J	270 U	900	5 U
Phenol	PPB	100000 (16)	330 (14)	100000 (15)	270 U	270 U	54 J	260 U	95 J	260 U	1300 U	260 U	260 U	270 U	73 J	51 J	830 J	260 U	270 U	130 J	270 U	5 U
Pyrene	PPB	100000 (16)	100000 (14)	100000 (15)	4000	270 U	40000	260 U	3300	260 U	650 J	260 U	150 J	270 U	25000	260 U	10000	260 U	140 J	270 U	900	5 U
Pyridine	PPB	NA (16)	NA (14)	NA (15)	270 U	270 U	270 U	260 U	260 U	260 U	1300 U	260 U	260 U	270 U	270 U	260 U	1300 U	260 U	270 U	270 U	270 U	5 U

(16) NYSDEC 375 Restricted Residential Use Limits
(15) NYSDEC 375 Residential Use Limits
(14) NYSDEC 375 Unrestricted Residential Use Limits
Abbreviation:
SB-XX is a duplicate sample of SB-8 (0-2')
PPB = parts per billion
NA = Not available, no value specified in NYSDEC 375 Limits
U = Analyte not detected

Yellow indicates exceedance of Unrestricted Residential Use
Green indicates exceedance of both Restricted Residential Use and Unrestricted Residential Use

Table 3
Analytical Results for Pesticides, PCBs, Metals
882 Fulton Street
Brooklyn, New York

Client Sample ID:					SB-1 (0-2')	SB-1 (13-15')	SB-2 (0-2')	SB-2 (13-15')	SB-3 (0-2')	SB-3 (13-15')	SB-4 (0-2')	SB-4 (13-15')	SB-5 (0-2')	SB-5 (13-15')	SB-6 (0-2')	SB-6 (13-15')	SB-7 (0-2')	SB-7 (13-15')	SB-8 (0-2')	SB-8 (13-15')	SB-XX	Field Blank 10/11
Sampling Date:					10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013
Matrix					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Liquid
		Track 2 Restricted Res.	Track 1 Unrestricted Res.	Residential																		
Analyte	Units	Limits	Limits	Limits	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
PESTICIDES																						
4,4´-DDD	PPB	13000 (16)	3.3 (14)	2600 (15)	1.3 J	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
4,4´-DDE	PPB	8900 (16)	3.3 (14)	1800 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	24	2.6 U	9.8	2.7 U	1.6 J	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
4,4´-DDT	PPB	7900 (16)	3.3 (14)	1700 (15)	1.3 J	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	22	2.6 U	8.6 P	2.7 U	4.9 P	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Aldrin	PPB	97 (16)	5 (14)	19 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
alpha-BHC	PPB	480 (16)	20 (14)	97 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
beta-BHC	PPB	360 (16)	36 (14)	72 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Chlordane	PPB	4200 (16)	94 (14)	910 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	13 J	21 U	22 U	21 U	22 U	22 U	22 U	0.2 U
DBCP	PPB	NA (16)	NA (14)	NA (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
delta-BHC	PPB	100000 (16)	40 (14)	100000 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Dieldrin	PPB	200 (16)	5 (14)	39 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	1.2 J	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Endosulfan I	PPB	24000 (16)	2400 (14)	4800 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Endosulfan II	PPB	24000 (16)	2400 (14)	4800 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Endosulfan sulfate	PPB	24000 (16)	2400 (14)	4800 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Endrin	PPB	11000 (16)	14 (14)	2200 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Endrin aldehyde	PPB	NA (16)	NA (14)	NA (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Endrin ketone	PPB	NA (16)	NA (14)	NA (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
gamma-BHC	PPB	1300 (16)	100 (14)	280 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	18	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Heptachlor	PPB	2100 (16)	42 (14)	420 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Heptachlor epoxide	PPB	NA (16)	NA (14)	NA (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Hexachlorobenzene	PPB	1200 (16)	330 (14)	330 (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Hexachlorocyclopentadiene	PPB	NA (16)	NA (14)	NA (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	1.9 J	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Methoxychlor	PPB	NA (16)	NA (14)	NA (15)	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	0.05 U
Toxaphene	PPB	NA (16)	NA (14)	NA (15)	27 U	27 U	26 U	26 U	26 U	26 U	25 U	26 U	26 U	27 U	28 U	27 U	27 U	26 U	28 U	27 U	27 U	0.5 U
PCBS																						
Aroclor 1016	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1221	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1232	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1242	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1248	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1254	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1260	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	13 J	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1262	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
Aroclor 1268	PPB	1000 (16)	100 (14)	1000 (15)	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U	22 U	0.5 U
METALS																						
Aluminum	PPM	NA (16)	NA (14)	NA (15)	8110	5770	9210	4650	7960	4580	2660	5040	3100	5960	5280	5130	17600	5810	9800	5930	9290	0.02 U
Antimony	PPM	NA (16)	NA (14)	NA (15)	0.527 U	0.539 U	0.542 U	0.532 U	0.527 U	0.53 U	0.512 U	0.512 U	0.515 U	0.533 U	0.436 J	0.526 U	0.534 U	0.531 U	0.548 U	0.543 U	0.548 U	0.02 U
Arsenic	PPM	16 (16)	13 (14)	16 (15)	3.03	1.99	3.1	1.71	3.43	1.88	2.67	1.79	2.42	2.08	5.38	1.84	4.55	1.66	3.53	2.33	4.05	0.025 U
Barium	PPM	400 (16)	350 (14)	350 (15)	50.4	34.2	57.7	31.7	38.2	40.1	32.2	33.4	31.3	34.4	68.6	32.9	37.7	41.8	29.9	42.8	43.6	0.02 U
Beryllium	PPM	72 (16)	7.2 (14)	14 (15)	0.422 U	0.431 U	0.434 U	0.425 U	0.422 U	0.424 U	0.41 U	0.41 U	0.412 U	0.426 U	0.444 U	0.421 U	0.427 U	0.425 U	0.439 U	0.435 U	0.438 U	0.02 U
Cadmium	PPM	4.3 (16)	2.5 (14)	2.5 (15)	0.464	0.431 U	0.434 U	0.425 U	0.422 U	0.424 U	0.115 J	0.41 U	0.412 U	0.426 U	0.633	0.421 U	0.427 U	0.425 U	0.439 U	0.435 U	0.438 U	0.01 U
Calcium	PPM	NA (16)	NA (14)	NA (15)	23300	1160	3330	1270	2440	1310	49600	1550	46400	1460	26600	1280	1510	1670	641	1210	875	0.025 U
Chromium	PPM	180 (16)	30 (14)	36 (15)	12.6	18	16.7	12.8	15.2	19.4	6.56	13.7	7.19	36.3	10.9	12.5	12.6	19	11.4	19.6	14.2	0.02 U
Cobalt	PPM	NA (16)	NA (14)	NA (15)	0.422 U	0.431 U	0.434 U	0.425 U	0.422 U	0.424 U	0.41 U	0.41 U	0.412 U	0.426 U	0.444 U	0.421 U	0.427 U	0.425 U	0.439 U	0.435 U	0.438 U	0.02 U
Copper	PPM	270 (16)	50 (14)	270 (15)	15.5	22.4	19.3	14.4	24.9	19.9	10.1	14.6	8.17	15.6	18.5	31.3	15	26.9	16	16.8	21	0.02 U
Iron	PPM	NA (16)	NA (14)	NA (15)	13500	13000	14400	11200	14500	11400	6360	11700	7660	14500	13200	14600	24200	15100	14700	14100	14700	0.02 U
Lead	PPM	400 (16)	63 (14)	400 (15)	72.6	6.73	128	5.47	41.1	5.45	46.6	5.12	30.7	5.81	113	8.55	47.3	7.15	42.1	10.3	98.3	0.015 U
Magnesium	PPM	NA (16)	NA (14)	NA (15)	3730	2350	2000	2260	2630	2290	19700	2990	19400	2450	5410	2520	2210	2260	1640	3160	1740	0.02 U
Manganese	PPM	2000 (16)	1600 (14)	2000 (15)	211	247	249	242	274	226	129	239	149	263	159	310	156	267	218	283	250	0.02 U
Mercury	PPM	0.81 (16)	0.18 (14)	0.81 (15)	0.122	0.0053 J	0.142	0.00553 J	0.0111	0.00989 U	0.136	0.00723 J	0.05	0.00642 J	0.394	0.0106 U	0.122	0.00462 J	0.0784	0.0105 U	0.747	0.00025 U
Nickel	PPM	310 (16)	30 (14)	140 (15)	13.7	24.7	18.9	23.7	21.9	32.4	9.18	20.4	11.2	24.5	12.7	22.9	13	24.8	11.4	25.8	12.4	0.02 U
Potassium	PPM	NA (16)	NA (14)	NA (15)	1370	1500	1630	1400	1230	1390	1200	1610	1350	2000	2370	1530	1390	1630	1100	2090	1030	0.2 U
Selenium	PPM	180 (16)	3.9 (14)	36 (15)	0.527 U	0.539 U	0.542 U	0.532 U	0.527 U	0.53 U	0.512 U	0.512 U	0.515 U	0.533 U	0.555 U	0.526 U	0.534 U	0.531 U	0.548 U	0.543 U	0.548 U	0.025 U
Silver	PPM	180 (16)	2 (14)	36 (15)	0.774	0.431 U	0.172 J	0.425 U	0.608	0.424 U	0.41 U	0.41 U	0.238 J	0.426 U	1.05	0.421 U	0.427 U	0.425 U	0.439 U	0.435 U	0.438 U	0.02 U
Sodium	PPM	NA (16)	NA (14)	NA (15)	94.1	74.4	74.6	96	82.5	120	95.1	97.9	81.2	144	120	87.3	76.5	155	39.4	85.1	51	0.03 U
Thallium	PPM	NA (16)	NA (14)	NA (15)	0.706	0.897	0.673	0.825	0.577	0.756	0.679	1.11	0.636	1.22	0.993	0.774	0.359 J	0.873	0.492 J	0.513 J	0.625	0.015 U
Vanadium	PPM	NA (16)	NA (14)	NA (15)	16.3	22.4	20.9	18	21.9	19	9.15	21	8.94	28	15.8	26.4	20.6	22.4	18.1	29.9	19.8	0.02 U
Zinc	PPM	10000 (16)	109 (14)	2200 (15)	67.6	25.5	68.6	24.7	51.4	23.5	37.5	25.8	32.3	32.1	120	31.3	60.4	28.1	38.1	33.6	58.8	0.02 U

(16) NYSDEC 375 Restricted Residential Use Limits
(15) NYSDEC 375 Residential Use Limits
(14) NYSDEC 375 Unrestricted Residential Use Limits
Abbreviation:
SB-XX is a duplicate sample of SB-8 (0-2')
PPB= parts per billion
PPM = parts per million
NA = Not available, no value specified in NYSDEC 375 Limits
U = Analyte not detected

Yellow indicates exceedance of Unrestricted Residential Use

Table 4

Analytical Results for Soil Vapor Probes
882 Fulton Street
Brooklyn, New York

Client Sample ID:	SVP-1 10/17/13	SVP-2	SVP-3	SVP-4	SVP-5	SVP-XX 10/17/13	
Lab Sample ID:	JB50673-1	JB50276-2	JB50276-3	JB50276-4	JB50276-5	JB50673-2	
Date Sampled:	10/17/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/17/2013	
Matrix:	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	NYSDOH Matrix 1 and Matrix 2 Guidance Values
Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	
TO-15 ug/m3							
Acetone	94.3	29.9	38.2	226	166	106	NVG
1,3-Butadiene	<1.8	3.8	21	19	32.1	<1.8	NVG
Benzene	62.3	5.8	14	18	41.5	97.4	NVG
Bromodichloromethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	NVG
Bromoform	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	NVG
Bromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	NVG
Bromoethene	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	NVG
Benzyl Chloride	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	NVG
Carbon disulfide	188	134	33.6	40.2	604	169	NVG
Chlorobenzene	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	NVG
Chloroethane	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	NVG
Chloroform	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	NVG
Chloromethane	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	NVG
3-Chloropropene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NVG
2-Chlorotoluene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	NVG
Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Cyclohexane	6.9	<2.8	3.8	6.5	11	226	NVG
1,1-Dichloroethane	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	NVG
1,1-Dichloroethylene	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	NVG
1,2-Dibromoethane	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	NVG
1,2-Dichloroethane	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	NVG
1,2-Dichloropropane	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	NVG
1,4-Dioxane	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	NVG
Dichlorodifluoromethane	2.8 J	<4.0	2.8 J	2.7 J	2.8 J	2.9 J	NVG
Dibromochloromethane	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	NVG
trans-1,2-Dichloroethylene	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	NVG
cis-1,2-Dichloroethylene	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	NVG
cis-1,3-Dichloropropene	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	NVG
m-Dichlorobenzene	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	NVG
o-Dichlorobenzene	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	NVG
p-Dichlorobenzene	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	NVG
trans-1,3-Dichloropropene	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	NVG
Ethanol	24.5	4.9	13	11	10	24.1	NVG
Ethylbenzene	7.8	2.7 J	4.8	6.1	5.2	20	NVG
Ethyl Acetate	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	NVG
4-Ethyltoluene	<3.9	<3.9	<3.9	<3.9	<3.9	4.7	NVG
Freon 113	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	NVG
Freon 114	<5.6	<5.6	3.8 J	<5.6	<5.6	<5.6	NVG
Heptane	19	9.4	3.8	13	85.7	139	NVG
Hexachlorobutadiene	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5	NVG
Hexane	56	18	35	55	186	272	NVG
2-Hexanone	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	NVG
Isopropyl Alcohol	<2.0	<2.0	5.7	5.4	<2.0	<2.0	NVG
Methylene chloride	17	20	82.7	22	23	65.7	NVG
Methyl ethyl ketone	22	4.7	8	38.9	49	20	NVG
Methyl Isobutyl Ketone	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	NVG
Methyl Tert Butyl Ether	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	NVG
Methylmethacrylate	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	NVG
Propylene	630	171	587	514	2030	625	NVG
Styrene	<3.4	4.3	9.4	11	10	<3.4	NVG
1,1,1-Trichloroethane	4.0 J	<4.4	5.3	4.9	<4.4	4.0 J	100
1,1,2,2-Tetrachloroethane	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	NVG
1,1,2-Trichloroethane	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	NVG
1,2,4-Trichlorobenzene	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	NVG
1,2,4-Trimethylbenzene	6.9	<3.9	2.5 J	3.1 J	2.3 J	6.9	NVG
1,3,5-Trimethylbenzene	2.3 J	<3.9	<3.9	<3.9	<3.9	5.9	NVG
2,2,4-Trimethylpentane	<3.7	5.6	<3.7	21	5.1	<3.7	NVG
Tertiary Butyl Alcohol	9.7	<2.4	<2.4	<2.4	<2.4	9.1	NVG
Tetrachloroethylene	5.4	16	10	10	14	3.5	30
Tetrahydrofuran	9.4	<2.4	<2.4	20	<2.4	<2.4	NVG
Toluene	47.1	29	87.4	93.1	84.8	50.9	NVG
Trichloroethylene	<0.86	<0.86	2.3	2.0	4.1	<0.86	5
Trichlorofluoromethane	<4.5	<4.5	2.6 J	2.3 J	2.9 J	3.4 J	NVG
Vinyl chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NVG
Vinyl Acetate	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	NVG
m,p-Xylene	26	7.8	13	16	14	27	NVG
o-Xylene	7.8	2.4 J	4.3	5.6	4.3	6.9	NVG
Xylenes (total)	33	10	17	22	18	34	NVG

Notes:
SVP-XX is a duplicate sample of SVP-1
NVG - No value given

Table 5
Analytical Results of VOCs in Soil Samples during drilling for MW-1
882 Fulton Street
Brooklyn, New York

		Sample ID:				MW-1 (2-4')	MW-1 (4-6')
		Sampling Date:				1/20/2014	1/20/2014
		Matrix:				Soil	Soil
			Track 2 Restricted Res.	Track 1 Unrestricted Use	Residential		
VOC	Analyte	Units	Limits	Limits	Limits	Q	Q
	1,1,1,2-Tetrachloroethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,1,1-Trichloroethane	PPB	100000 (16)	680 (14)	100000 (15)	5.8 U	5.6 U
	1,1,2,2-Tetrachloroethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,1,2-Trichloroethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,1-Dichloroethane	PPB	26000 (16)	270 (14)	19000 (15)	5.8 U	5.6 U
	1,1-Dichloroethene	PPB	100000 (16)	330 (14)	100000 (15)	5.8 U	5.6 U
	1,1-Dichloropropene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2,3-Trichlorobenzene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2,3-Trichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2,4,5-Tetramethylbenzene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2,4-Trichlorobenzene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2,4-Trimethylbenzene	PPB	52000 (16)	3600 (14)	47000 (15)	5.8 U	5.6 U
	1,2-Dibromo-3-chloropropane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2-Dibromoethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,2-Dichlorobenzene	PPB	100000 (16)	1100 (14)	100000 (15)	5.8 U	5.6 U
	1,2-Dichloroethane	PPB	3100 (16)	20 (14)	2300 (15)	5.8 U	5.6 U
	1,2-Dichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,3,5-Trimethylbenzene	PPB	52000 (16)	8400 (14)	47000 (15)	5.8 U	5.6 U
	1,3-Dichlorobenzene	PPB	49000 (16)	2400 (14)	NA (15)	5.8 U	5.6 U
	1,3-dichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	1,4-Dichlorobenzene	PPB	13000 (16)	1800 (14)	17000 (15)	5.8 U	5.6 U
	1,4-Dioxane	PPB	13000 (16)	100 (14)	9800 (15)	5.8 U	5.6 U
	2,2-Dichloropropane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	2-Butanone	PPB	NA (16)	NA (14)	NA (15)	12 U	11 U
	2-Chloroethyl vinyl ether	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	2-Chlorotoluene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	2-Hexanone	PPB	NA (16)	NA (14)	NA (15)	12 U	11 U
	2-Propanol	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	4-Chlorotoluene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	4-Isopropyltoluene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	4-Methyl-2-pentanone	PPB	NA (16)	NA (14)	NA (15)	12 U	11 U
	Acetone	PPB	100000 (16)	50 (14)	100000 (15)	5.3 B	3.2 B
	Benzene	PPB	4800 (16)	60 (14)	2900 (15)	5.8 U	5.6 U
	Bromobenzene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Bromochloromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Bromodichloromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Bromoform	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Bromomethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Carbon disulfide	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Carbon tetrachloride	PPB	2400 (16)	760 (14)	1400 (15)	5.8 U	5.6 U
	Chlorobenzene	PPB	100000 (16)	1100 (14)	100000 (15)	5.8 U	5.6 U
	Chlorodifluoromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Chloroethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Chloroform	PPB	49000 (16)	370 (14)	10000 (15)	5.8 U	5.6 U
	Chloromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	cis-1,2-Dichloroethene	PPB	100000 (16)	250 (14)	59000 (15)	5.8 U	5.6 U
	Cyclohexane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Dibromochloromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Dibromomethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Dichlorodifluoromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Diisopropyl ether	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Ethanol	PPB	NA (16)	NA (14)	NA (15)	23 U	22 U
	Ethylbenzene	PPB	41000 (16)	1000 (14)	30000 (15)	5.8 U	5.6 U
	Freon-114	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Hexachlorobutadiene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Isopropylbenzene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	m,p-Xylene	PPB	100000 (16)	260 (14)	100000 (15)	12 U	11 U
	Methyl Acetate	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Methyl tert-butyl ether	PPB	100000 (16)	930 (14)	62000 (15)	5.8 U	5.6 U
	Methylene chloride	PPB	100000 (16)	50 (14)	51000 (15)	6.1 B	5.1 B
	Naphthalene	PPB	100000 (16)	12000 (14)	100000 (15)	5.8 U	3.2 J
	n-Butylbenzene	PPB	100000 (16)	12000 (14)	100000 (15)	5.8 U	5.6 U
	n-Propylbenzene	PPB	100000 (16)	3900 (14)	100000 (15)	5.8 U	5.6 U
	o-Xylene	PPB	100000 (16)	260 (14)	100000 (15)	5.8 U	5.6 U
	p-Diethylbenzene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	p-Ethyltoluene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	sec-Butylbenzene	PPB	100000 (16)	11000 (14)	100000 (15)	5.8 U	5.6 U
	Styrene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	t-Butyl alcohol	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	tert-Butylbenzene	PPB	100000 (16)	5900 (14)	100000 (15)	5.8 U	5.6 U
	Tetrachloroethene	PPB	19000 (16)	1300 (14)	5500 (15)	5.8 U	5.6 U
	Toluene	PPB	100000 (16)	700 (14)	100000 (15)	5.8 U	5.6 U
	trans-1,2-Dichloroethene	PPB	100000 (16)	190 (14)	100000 (15)	5.8 U	5.6 U
	trans-1,3-Dichloropropene	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Trichloroethene	PPB	21000 (16)	470 (14)	10000 (15)	5.8 U	5.6 U
	Trichlorofluoromethane	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Vinyl acetate	PPB	NA (16)	NA (14)	NA (15)	5.8 U	5.6 U
	Vinyl chloride	PPB	900 (16)	20 (14)	210 (15)	5.8 U	5.6 U

(16) NYSDEC 375 Restricted Residential Use Limits
(15) NYSDEC 375 Residential Use Limits
(14) NYSDEC 375 Unrestricted Residential Use Limits
Abbreviation:
NA = Not available, no value specified in NYSDEC 375 RES. Limits
PPB = parts per billions
Q = Laboratory qualifier
U = Not Detected
B = Analyte was detected in the associated method blank
J = Value is estimated

Table 6
Analytical Results for SVOCs during drilling for MW-1
882 Fulton Street
Brooklyn, New York

		Sample ID:				MW-1 (2-4')	MW-1 (4-6')
		Sample Date:				1/20/2014	1/20/2014
		Matrix:				Soil	Soil
			Track 2 Restricted Res.	Track 1 Unrestricted Use	Residential Use		
SVOC	Analyte	Units	Limits	Limits	Limits	Q	Q
	1,2,4-Trichlorobenzene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	1,2-Dichlorobenzene	PPB	100000 (16)	1100 (14)	100000 (15)	280 U	270 U
	1,3-Dichlorobenzene	PPB	49000 (16)	2400 (14)	17000 (15)	280 U	270 U
	1,4-Dichlorobenzene	PPB	13000 (16)	1800 (14)	9800 (15)	280 U	270 U
	2,3,4,6-Tetrachlorophenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2,4,5-Trichlorophenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2,4,6-Trichlorophenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2,4-Dichlorophenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2,4-Dimethylphenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2,4-Dinitrophenol	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	2,4-Dinitrotoluene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2,6-Dinitrotoluene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2-Chloronaphthalene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2-Chlorophenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2-Methylnaphthalene	PPB	NA (16)	NA (14)	NA (15)	140 J	430
	2-Methylphenol	PPB	100000 (16)	330 (14)	100000 (15)	280 U	270 U
	2-Nitroaniline	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	2-Nitrophenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	3,3´-Dichlorobenzidine	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	3+4-Methylphenol	PPB	100000 (16)	330 (14)	100000 (15)	42 J	36 J
	3-Nitroaniline	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	4,6-Dinitro-2-methylphenol	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	4-Bromophenyl phenyl ether	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	4-Chloro-3-methylphenol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	4-Chloroaniline	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	4-Chlorophenyl phenyl ether	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	4-Nitroaniline	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	4-Nitrophenol	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	Acenaphthene	PPB	100000 (16)	20000 (14)	100000 (15)	330	1600
	Acenaphthylene	PPB	100000 (16)	100000 (14)	100000 (15)	690	140 J
	Acetophenone	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Aniline	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Anthracene	PPB	100000 (16)	100000 (14)	100000 (15)	1300	2700 m
	Atrazine	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Azobenzene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Benzaldehyde	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	Benzidine	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	Benzo(a)anthracene	PPB	1000 (16)	1000 (14)	1000 (15)	3700 m	5000 m
	Benzo(a)pyrene	PPB	1000 (16)	1000 (14)	1000 (15)	2700	3900
	Benzo(b)fluoranthene	PPB	1000 (16)	1000 (14)	1000 (15)	2700	3600
	Benzo(g,h,i)perylene	PPB	100000 (16)	100000 (14)	100000 (15)	1900	2200
	Benzo(k)fluoranthene	PPB	3900 (16)	800 (14)	1000 (15)	2400 m	2800
	Benzoic acid	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	Benzyl alcohol	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Biphenyl	PPB	NA (16)	NA (14)	NA (15)	45 J	110 J
	Bis(2-chloroethoxy)methane	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Bis(2-chloroethyl)ether	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Bis(2-chloroisopropyl)ether	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Butyl benzyl phthalate	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Carbazole	PPB	NA (16)	NA (14)	NA (15)	490	1400
	Chrysene	PPB	3900 (16)	1000 (14)	1000 (15)	3600	4800 m
	Dibenzo(a,h)anthracene	PPB	330 (16)	330 (14)	330 (15)	490 m	550 m
	Dibenzofuran	PPB	59000 (16)	7000 (14)	14000 (15)	300	1200
	Diethyl phthalate	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Dimethyl phthalate	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Di-n-butyl phthalate	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Di-n-octyl phthalate	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	Fluoranthene	PPB	100000 (16)	100000 (14)	100000 (15)	9100	14000
	Fluorene	PPB	100000 (16)	30000 (14)	100000 (15)	450	1200
	Hexachlorobenzene	PPB	1200 (16)	330 (14)	330 (15)	280 U	270 U
	Hexachlorobutadiene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Hexachlorocyclopentadiene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Hexachloroethane	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Indeno(1,2,3-c,d)pyrene	PPB	500 (16)	500 (14)	500 (15)	2200	2600
	Isophorone	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Naphthalene	PPB	100000 (16)	12000 (14)	100000 (15)	250 J	650
	Nitrobenzene	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	N-Nitrosodimethylamine	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	N-Nitrosodi-n-propylamine	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	N-Nitrosodiphenylamine	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U
	Parathion	PPB	NA (16)	NA (14)	NA (15)	560 U	550 U
	Pentachlorophenol	PPB	6700 (16)	800 (14)	2400 (15)	560 U	550 U
	Phenanthrene	PPB	100000 (16)	100000 (14)	100000 (15)	5500	15000
	Phenol	PPB	100000 (16)	330 (14)	100000 (15)	280 U	270 U
	Pyrene	PPB	100000 (16)	100000 (14)	100000 (15)	6900	11000
	Pyridine	PPB	NA (16)	NA (14)	NA (15)	280 U	270 U

(16) NYSDEC 375 Restricted Residential Use Limits
(15) NYSDEC 375 Residential Use Limits
(14) NYSDEC 375 Unrestricted Residential Use Limits

Yellow indicates exceedance of Unrestricted Residential Use
Green indicates exceedance of both Restricted Residential Use and Unrestricted Residential Use

Abbreviation:
NA = Not available, no value specified in NYSDEC 375 RES. Limits
U = Not Detected
J = Value is an estimate
Q = Laboratory qualifier

Table 7
Analytical Results for Pesticides, PCBs, and Metals in Soil Samples during Drilling for MW-1
882 Fulton Street
Brooklyn, New York

		Sample ID:				MW-1 (2-4')	MW-1 (4-6')
		Sampling Date:				1/20/2014	1/20/2014
		Matrix:				Soil	Soil
			Track 2 Restricted Res.	Track 1 Unrestricted Use	Residential		
	Analyte	Units	Limits	Limits	Limits	Q	Q
PESTICIDES							
	4,4´-DDD	PPB	13000 (16)	3.3 (14)	2600 (15)	2.8 U	2.7 U
	4,4´-DDE	PPB	8900 (16)	3.3 (14)	1800 (15)	2.8 U	2.7 U
	4,4´-DDT	PPB	7900 (16)	3.3 (14)	1700 (15)	6.3	2.7 U
	Aldrin	PPB	97 (16)	5 (14)	19 (15)	2.8 U	2.7 U
	alpha-BHC	PPB	480 (16)	20 (14)	97 (15)	2.8 U	2.7 U
	beta-BHC	PPB	360 (16)	36 (14)	72 (15)	2.8 U	2.7 U
	Chlordane	PPB	4200 (16)	94 (14)	910 (15)	22 U	21 U
	Chlorobenzilate	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	DBCP	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	delta-BHC	PPB	100000 (16)	40 (14)	100000 (15)	2.8 U	2.7 U
	Dieldrin	PPB	200 (16)	5 (14)	39 (15)	4.1	2.7 U
	Endosulfan I	PPB	24000 (16)	2400 (14)	4800 (15)	2.8 U	2.7 U
	Endosulfan II	PPB	24000 (16)	2400 (14)	4800 (15)	2.8 U	2.7 U
	Endosulfan sulfate	PPB	24000 (16)	2400 (14)	4800 (15)	2.8 U	2.7 U
	Endrin	PPB	11000 (16)	14 (14)	2200 (15)	2.8 U	2.7 U
	Endrin aldehyde	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	Endrin ketone	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	gamma-BHC	PPB	1300 (16)	100 (14)	280 (15)	2.8 U	2.7 U
	Heptachlor	PPB	2100 (16)	42 (14)	420 (15)	2.8 U	2.7 U
	Heptachlor epoxide	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	Hexachlorobenzene	PPB	1200 (16)	330 (14)	330 (15)	2.8 U	2.7 U
	Hexachlorocyclopentadiene	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	Methoxychlor	PPB	NA (16)	NA (14)	NA (15)	2.8 U	2.7 U
	Toxaphene	PPB	NA (16)	NA (14)	NA (15)	28 U	27 U
PCBS							
	Aroclor 1016	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1221	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1232	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1242	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1248	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1254	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1260	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1262	PPB	1000 (16)	100 (14)	1000 (15)	22 U	21 U
	Aroclor 1268	PPB	1000 (15)	100 (14)	1000 (15)	22 U	21 U
METALS							
	Aluminum	PPM	NA (16)	NA (14)	NA (15)	4010	7210
	Antimony	PPM	NA (16)	NA (14)	NA (15)	0.577 U	0.544 U
	Arsenic	PPM	16 (16)	13 (14)	16 (15)	2.6	2.92
	Barium	PPM	400 (16)	350 (14)	350 (15)	42.5	29.9
	Beryllium	PPM	72 (16)	7.2 (14)	14 (15)	0.461 U	0.435 U
	Cadmium	PPM	4.3 (16)	2.5 (14)	2.5 (15)	0.461 U	0.435 U
	Calcium	PPM	NA (16)	NA (14)	NA (15)	27300	803
	Chromium	PPM	180 (16)	30 (14)	36 (15)	7.3	15.9
	Cobalt	PPM	NA (16)	NA (14)	NA (15)	3.83	0.435 U
	Copper	PPM	270 (16)	50 (14)	270 (15)	12.2	13.4
	Iron	PPM	NA (16)	NA (14)	NA (15)	3090	9260
	Lead	PPM	400 (16)	63 (14)	400 (15)	42.8	18.9
	Magnesium	PPM	NA (16)	NA (14)	NA (15)	1710	2050
	Manganese	PPM	2000 (16)	1600 (14)	2000 (15)	144	236
	Mercury	PPM	0.81 (16)	0.18 (14)	0.81 (15)	0.125	0.0484
	Nickel	PPM	310 (16)	30 (14)	140 (15)	13.2	14.4
	Potassium	PPM	NA (16)	NA (14)	NA (15)	1400	1180
	Selenium	PPM	180 (16)	3.9 (14)	36 (15)	0.577 U	0.544 U
	Silver	PPM	180 (16)	2 (14)	36 (15)	0.461 U	0.435 U
	Sodium	PPM	NA (16)	NA (14)	NA (15)	161	50
	Thallium	PPM	NA (16)	NA (14)	NA (15)	0.577 U	0.544 U
	Vanadium	PPM	NA (16)	NA (14)	NA (15)	11.2	18.7
	Zinc	PPM	10000 (16)	109 (14)	2200 (15)	41.8	34.1

(16) NYSDEC 375 Restricted Residential Use Limits
(15) NYSDEC 375 Residential Use Limits
(14) NYSDEC 375 Unrestricted Residential Use Limits

Yellow indicates exceedance of Unrestricted Residential Use

Abbreviation:
PPB = parts per billion
NA = Not available, no value specified in NYSDEC 375 RES. Limits
U = Not Detected
Q = Laboratory qualifier

APPENDIX A
Phase I Report

D.V.D. Environmental, Inc.

PO Box 2152, Cliffside Park, New Jersey 07010

Phone:212 260 9818 Fax: 201 941 8739 www.dvdenvironmental.com

October 29, 2013

Mr. Andrew Bradfield
Orange Management Inc.
6 West 14th Street, 2nd Floor
New York, NY 10011

Re: Addendum and clarification for Phase 1 Environmental Audit at 882 Fulton Street in Brooklyn, NY.

Dear Mr. Bradfield:

Please find the updated phase 1 report for your property attached. The following comments were addressed in the revised report:

	Comment	Revision found in:
1.	Data Gaps (ASTM 12.7)	Section 3.01
2.	Conclusion (ASTM 12.8)	Section 3.02
3.	Professional Statement (ASTM 12.12, 12.13)	Section 6.0
4.	Sewage Disposal (ASTM 9.4.1.10)	Section 4.7
5.	Owner Info (ASTM 10.5.1)	Section 3.0
6.	User Info (ASTM 6)	Section 3.3.4
7.	Contact Authorities (ASTM 11.0)	Section 3.5
8.	Contact Authorities (ASTM 11.0)	Section 3.5
9.	Scope of services (ASTM 12.4)	Section 1.1
10.	Findings (ASTM 12.5)	Section 3.0.2

Additionally the cover letter was edited to include reliance information and REC identifications was added to sections 3.0 and 3.6.

Feel free to call if you have any questions.

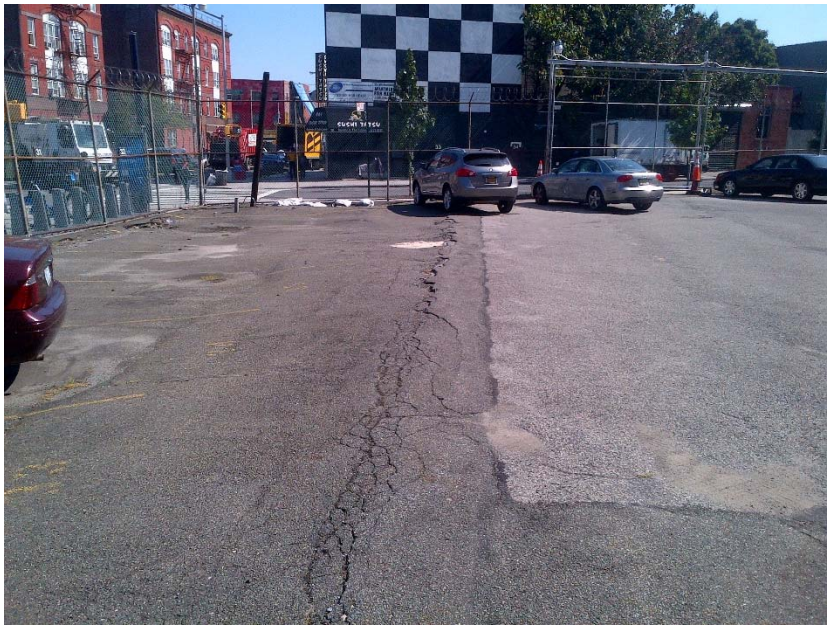
Sincerely,

Timothy J. Donohoe

Timothy J Donohoe
DVD Environmental, Inc.

Phase I Environmental Audit

At
Parking Lot
882 Fulton Street
Brooklyn, NY 11238



Reliance for:
The Carlyle Group, L.P.
Carlyle Investment Management, LLC
Carlyle Realty VI, L.P. and
Their affiliate investors, joint ventures and assigns

Prepared for:

ANDREW BRADFIELD
Orange Management Inc.
6 West 14th Street, 2nd Floor
New York, NY 10011

Prepared by:

D.V.D. Environmental, Inc.
PO Box 2152, Cliffside Park, New Jersey 07010
Phone:212 260 9818 Fax: 201 941 8739 www.dvdenvironmental.com

October 2, 2013

EXECUTIVE SUMMARY

This report presents the findings of the Phase I Environmental Assessment (EA) of the property (the "site') located at 882 Fulton Street, Brooklyn, NY performed by DVD Environmental, Inc.(DVD). A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate. DVD has performed this EA in accordance with the ASTM *Standard Practice for Phase I Environmental Site Assessments for Commercial Real Estate (E1527-00).*

This EA was prepared for the owner, ANDREW BRADFIELD at the his request, in accordance with the ASTM *Standard Practice for Phase I Environmental Site Assessments for Commercial Real Estate (E1527-00).*

The site is a half acre parcel of vacant land. The property is currently a Parking Lot on the corner of Fulton Street and Waverly Ave in an urban section of Brooklyn.

COORDINATES

Latitude (North): 40.6831000 - 40° 40' 59.16''
Longitude (West): 73.9661000 - 73° 57' 57.96''
Universal Tranverse Mercator: Zone 18
UTM X (Meters): 587370.8
UTM Y (Meters): 4503881.5
Elevation: 78 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY
Target Property Map: 40073-F8 BROOKLYN, NY
Most Recent Revision: 1995

AERIAL PHOTOGRAPHY IN THIS REPORT
Portions of Photo from: 2010, 2011
Source: USDA

TARGET PROPERTY SEARCH RESULTS
The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:
Site Database(s) EPA ID
LOT 30, TAX BLOCK 2011
882 FULTON STREET
BROOKLYN, NY 11238
E DESIGNATION

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1.0 INTRODUCTION

DVD Environmental, Inc. (DVD) has performed a Phase I Environmental Assessment (EA) of the property (the "site') Parking Lot located on 882 Fulton Street, Brooklyn, NY (Figure 1) in accordance with the American Society of Testing and Materials (ASTM) *Standard Practice for Phase Environmental Site Assessments for Commercial Real Estate* (E-1527, ASTM Standard). The following report documents the activities performed, and the findings of the EA.

At the request of ANDREW BRADFIELD, DVD has performed an EA of the above referenced property. The EA has been prepared in accordance with the "due diligence" regulations of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 9601 (35)(b) of the Superfund Amendment and Reauthorization Act (SARA), which requires that "all appropriate inquiry" by made in to the presence or potential presence of hazardous substances or petroleum products on the subject property under conditions that indicate an existing release, past release, or material threat of release on the property or into the ground, groundwater, or surface water of the property.

Mr. Timothy Donohoe of DVD performed the site reconnaissance on October 1, 2013 and was assisted by Mr. Nat White, who was interviewed and provided access to the site. All areas of the parking lot at 882 Fulton Street were inspected.

1.1 Scope of Services

The site investigation consisted of an interview with Mr. Nat White, the site owner since 1970 and a complete investigation of the site, including neighboring properties and damaged asphalt throughout the parking lot. The records search included review of all EDR records, the NYC DOB records, NYS DOH Health Profiles, contact with the NYC DEP and NYS DEC. All information garnered from the interview with the owner was checked with the Abstract records and NYC Department of Buildings Records.

2.0 SITE DESCRIPTION

The site consists of an acre of land located within an area of Brooklyn, NY that is currently characterized by residential, retail and commercial use to the North, South, East and West. The surrounding residential properties to the West are apartment buildings which appear to be fully occupied. A new school building is at the south end of the property. The subway runs under the property and to the North on Fulton Street. In early 2000 the entire street, sidewalk and subway was removed and rebuilt. Several Con Edison vaults are located around the property and are listed as hazardous waste storage, manifest and historical spill sites.

2.1 PHYSICAL SETTING

The site is located at 882 Fulton Street in the area of Brooklyn, NY, Kings County (Figure 1). The coordinates of the site are Latitude (North): 40.6831000 - 40° 40' 59.16'' Longitude (West): 73.9661000 - 73° 57' 57.96''and is 78 feet above sea level. The underlying bedrock within this region is from the Mesozoic Era and categorized as Stratified Sequence, it is typically located at a depth of 1 foot below the soil. Soils are variable. Urban land consists of areas where man has altered the soil during development such that 40 to 80% of the original soil has been altered (United States Department of Agriculture Soil Conservation Service). Slopes are approximately 30 percent upwards to the South and 5 percent downwards to the East West and North. The soil materials urban land and do not meet the requirements for hydric soils. Based on review of area topography, groundwater would be expected to flow from the South on to the property and East and West away from the property.

2.2 STRUCTURES, ROADS, AND OTHER IMPROVEMENTS

The property is currently vacant, the adjacent properties are paved roads, residential properties, commercial buildings, school buildings and a subway station. The area has been developed since before 1887 according to the Sanborn Maps. The site is a parking lot with asphalt over a concrete foundation from a building which was demolished by the City of New York in 1974. The floor and west wall of the original building remain on the site. Drilling at the site will require penetrating the concrete slab under the parking lot. The North side of the parking lot was a strip of stores prior to 1970, the concrete foundations appear to have been removed from the front section of the lot and the asphalt is sinking.

2.3 CURRENT USE OF THE SITE AND ADJOINING PROPERTIES

The site is not currently developed. Properties adjoining the site are characterized as residential and commercial properties.

3.0 RECORDS REVIEW

According to ASTM, standard Federal and State record sources must be reviewed to identify potential sites of environmental concern that are located within established search distances. The review of the standard environmental record sources was accomplished utilizing a computer database search report provided by Environmental Data Resources, Inc. (EDR). A copy of the EDR report is included as Appendix C. In general, it is difficult to conclude within the scope of an ASTM Phase I EA if the sites located within the ASTM search radii have the potential to, or are impacting the subject site. Additional investigation or review, which is beyond the scope of an ASTM Phase I EA, would be necessary to fully assess the impact, if any, of the sites have on the subject site. The subject property was listed in 7 of the federal and state databases. An interview with the current owner, who is also the sole site manager was conducted and all information provided by the owner was included in the investigation. The current owner acquired the property prior to the demolition of the garage which was on site prior to 1974. RECs are identified in section 3.0.2.

3.0.1 Data Gaps

No specific data regarding the garage building which was demolished by the city of New York in 1974 was found in the records search. Parts of the foundation from the original building remain in place but no information about the original building's heating system or configuration was available. The current owner stated that the garage was completely removed except for the ground floor slab and part of the West side foundation wall. The existence of a concrete foundation with rebar would render ground penetrating radar ineffective.

3.0.2 Conclusion

2 RECs were found during the Audit. The site has an E-designation due to noise pollution from the NYC Subway and a recommendation that the soil gets tested for gasoline. There was no evidence of gasoline tanks on the site and no historical records to confirm or disprove the existence of tanks. Soil borings and testing will be needed to investigate this concern.

3.1 FEDERAL ASTM RECORDS

3.1.1 Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. A review of the CERCLIS list, as provided by EDR, and dated 04/26/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

ULANO CORP 601 BERGEN ST

3.1.2 Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. A review of the RCRA-LQG list, as provided by EDR, and dated 07/11/2013 has revealed that there are 5 RCRA-LQG sites within approximately 0.25 miles of the target property.

NYC BD OF ED - PUBLIC SCHOOL 1 419 WAVERLY AVE N
CON EDISON - MANHOLE 14828 960 ATLANTIC AVENUE
CON EDISON - MANHOLE 2904 506 WASHINGTON AVE
WARD BREAD BUILDING 800 PACIFIC ST SW
NYCDOT BRIDGE BIN 2243290 CARLTON AVE

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. A review of the RCRA-SQG list, as provided by EDR, and dated 07/11/2013 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

BROTHERS CLEANERS 349 WAVERLY AVE
MARTINEZ SERVICE STATION INC 514-16 VANDERBILT AVE
NYC DEPT OF ED - PUBLIC SCHOOL 510 CLERMONT AVE

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. A review of the RCRA-CESQG list, as provided by EDR, and dated 07/11/2013 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.
MEGA CLEANERS 916 FULTON ST E 0 - 1/8 (0.092 mi.) I60 135

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 07/11/2013 has revealed that there are 24 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

M M C GALE FRENCH CLEANERS INC 856 FULTON ST
CON EDISON MANHOLE 69589 VANDERBILT AVE & DEAN ST
CON EDISON MANHOLE 69598 VANDERBILT AVE & DEAN ST
CONTINENTAL LATEX CORP 645 DEAN ST
BROTHERS CLEANERS 349 WAVERLY AVE
SAIKA AUTO INTL INC 980 ATLANTIC AVE
GUMBALL RUBBISH REMOVAL 510 WAVERLY AVE

BELL ATLANTIC 547 CLINTON AVE
CON ED - V 2903 WASHINGTON AVE & FULTON
REGGEV CONSTRUCTION 470 VANDERBILT AVE
CON EDISON MANHOLE 2814 485 VANDERBILT AVE
CON EDISON MANHOLE 2814 485 VANDERBILT AVE
NYC PKS & REC - GATEWAY TRIANG FULTON ST & VANDERBILT
CON EDISION - MH2814 485 VANDERBILT AVE
CON EDISON MANHOLE 2814 VANDERBILT AVE & FULTON
SUNOCO SERVICE STATION 840 ATLANTIC AVE
CITY GAS 524 VANDERBUILT AVE
NYCTA - CLERMONT AVE SUBSTATIO FULTON ST & CLERMONT AV
NYNEX-MANHOLE FULTON ST & CAMBRIDGE
CON ED - M/H 2968 FULTON ST & GRAND AVE
CON ED - V 2968 GRAND ST & FULTON ST
CON ED MH 2968 GRAND ST & FULTON ST
CON EDISON MANHOLE 69588 FULTON ST & ADELPHI ST
AYDC INTERIM DEVELOPER LLC 754 PACIFIC ST

3.1.3 FUDS

The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions. A review of the FUDS list, as provided by EDR, and dated 12/31/2011 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

NAVY BARRACKS BKLYN

3.2 State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list. A review of the SWF/LF list, as provided by EDR, and dated 07/08/2013 has revealed that there are 3 SWF/LF sites within approximately 0.5 miles of the target property.

PARTS EXPRESS II INC 860-64 ATLANTIC AVE
GRAND RECYCLING CORP. 535 GRAND AVE.
BERGEN STREET USED PARTS INC 762-765 BERGEN STREET

3.2.1 State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills A review of the LTANKS list, as provided by EDR, and dated 08/19/2013 has revealed that there are 38 LTANKS sites within approximately 0.5 miles of the target property.

900 FULTON ST/BKLYN 900 FULTON STREET Closed Date: 2/22/1990
RESIDENTS 420 CLINTON AVE Closed Date: 3/5/1999
428 CLERMONT AVE Closed Date: 1/25/1993
410 CLINTON AVE Closed Date: 1/12/2004
ST JOSEPH'S SRO 683 DEAN ST Closed Date: 12/8/2003
375 VANDERBILT AVE/BKLYN Closed Date: 12/24/1989
CARLTON REHAB CENTER 405 CARLTON AVE Closed Date: 6/6/2006
990 ATLANTIC AVE Closed Date: 12/18/1992
276 ST MARKS AVE/N Y TEL Closed Date: 4/28/2000
WEATHER FUEL COMPANY UNDERHILL + ST MARKS AV Closed Date: 6/4/1997
COMMERCIAL SITE - TTF 967 ATLANITC AVE Closed Date: 4/4/2013
APT BUILDING - TTF 307 PROSPECT PLACE Closed Date: 1206302
651 VANDERBILT AVE/BKLYN Closed Date: 11/5/1993
316 PROSPECT PLACE/BKLYN Closed Date: 3/28/1990
PHOENIX HOUSE 174 PROSPECT PLACE Closed Date:
ST. JOSEPHS COLLEGE 290 WASHINGTON AVE Closed Date: 8/21/2009
AUTO REPAIR SHOP 641 CLASSON AVE Closed Date: 12/20/2005
LOT 1,TAXBLOCK 1978 937 FULTON STREET Closed Date: 10/28/2009
VAULT # 4724 547 CLINTON AVE Closed Date: 12/4/2000
551 WAVERLY AVE/BKLYN Closed Date: 1/5/1990
VMS 470 VANDERBILT AVENUE Closed Date: 2/14/2003
191 ST JAMES PL. 191 ST JAMES PLACE Closed Date: 6/14/1993
ATLANTIC AVE AT CARLTON Closed Date: 2/24/2003
140 ST JAMES PLACE Closed Date: 7/7/2004
ATLANTIC MERIT ATLANTIC & CARLTON AVE. Closed Date: 8/29/1988
44 LEFFERTS PL/BKLYN Closed Date: 5/15/1991
ATLANTIC TERMINAL 483 CARLTON AVE Closed Date: Not Reported
Closed Date: 9/8/1994
Closed Date: 2/1/1996
PS 56 SCHOOL 170 GATES AVE Closed Date: 2/15/2000
ALLIANCE OF RESIDENT THEATRICS 138 SOUTH OXFORD STREET Closed Date: 1/28/2005
130 LEFFERTS PLACE Closed Date: 12/23/2003
APARTMENT BUILDING 21 SAINT JAMES PLACE Closed Date: 6/7/2006
DEPARTMENT HPD 516 BERGEN STREET Closed Date: 10/25/2005
ENGINE CO. 219/LADD. CO. 105 F 494 DEAN STREET Closed Date: 7/29/2011
Closed Date: 4/30/2004
SMITH RESIDENCE 99 ST MARKS AVE Closed Date: 12/20/2004
PETER F REILLY STORAGE INC 491 BERGEN ST Closed Date: 2/15/2007
141 LAFAYETTE AVE NW 1/4 - 1/2 Closed Date: 8/31/2006
AY 473 DEAN, LLC 473 DEAN ST Closed Date: 8/5/2005
NY PACIFIC REALITY 626 PACIFIC ST Closed Date: 3/3/2003

3.2.2 State and tribal registered storage tank lists

TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency. A review of the TANKS list, as provided by EDR, and dated 08/07/2013 has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

VAULT # 4724 547 CLINTON AVE

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database A review of the UST list, as provided by EDR, and dated 08/07/2013 has revealed that there are 16 UST sites within approximately 0.25 miles of the target property.

525 CLINTON AVENUE
FULVAN CORP 846 FULTON STREET
TEEN CHALLENGE INC. 444 CLINTON AVENUE
SR. JOSEPH CHURCH 856 PACIFIC ST
ST JOSEPH'S SRO RESIDENCE 683 DEAN STREET
AFFILIATED SERVICES & RESOURCE 937 FULTON STREET
WAVERLY AVE 531-557 WAVERLY AVE
VMS 470 VANDERBILT AVENUE
VANDERBILT 470 VANDERBILT AVENUE
SUPERIOR ASSOCIATES LLS 825 ATLANTIC AVENUE
MCDONALD'S 840 ATLANTIC AVE
FORMER BP SERVICE STATION 516 VANDERBILT AVENUE
FACILITY NOT IN OPERATION 524 VANDERBILT AVENUE
840 ATLANTIC AVENUE ATLANTIC AVENUE
ADELPHI STATION 950 FULTON STREET
THE TIME RECORD STORAGE CO. 800 PACIFIC STREET

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database. A review of the AST list, as provided by EDR, and dated 08/07/2013 has revealed that there are 28 AST sites within approximately 0.25 miles of the target property.

L.T. PROPERTIES LLC 515 CLINTON AVENUE
525 CLINTON AVENUE 525 CLINTON AVENUE
487 CLINTON AVE 487 CLINTON AVE
ROYAL CASTLE 476 CLINTON AVE
464 CLINTON AVE 464 CLINTON AVE
451 CLINTON AVE 451 CLINTON AVE
450 CLINTON LLC 450 CLINTON AVENUE
429 CLINTON AVE INC 429 CLINTON AVE
NYC BOARD OF EDUCATION 419 WAVERLY AVENUE
420 CLINTON AVE 420 CLINTON AVENUE

ATLAS AUTO SERVICE LTD. 542-544 VANDERBILT AVEN
410 CLINTON LLC 410 CLINTON AVENUE
400 CLINTON AVENUE 400 CLINTON AVENUE
390-392 CLINTON AVENUE 390-392 CLINTON AVE
385 CLINTON AVENUE CORPORATION 385 CLINTON AVENUE
ACHIEVEMENT FIRST CHARTER SCHO 510 WAVERLY AVENUE
941 FULTON STREET 941 FULTON STREET
APARTMENT BUILDING 537 CLINTON AVE
495 WASHINGTON AVENUE LLC 495 WASHINGTON AVENUE
BNS BUILDINGS LLC 500 WASHINGTON AVENUE
VANDERBILT 470 VANDERBILT AVENUE
FULTON AUTO REPAIR INC 840 FULTON STREET
PS 85 510 CLERMONT AVENUE
THE TIME RECORD STORAGE CO. 800 PACIFIC STREET
150 ST. JAMES PLACE 150 ST. JAMES PLACE
415 WASHINGTON AVENUE 415 WASHINGTON AVE
BNS BUILDINGS LLC 407-409 WASHINGTON AVEN
GRAND AVENUE REALTY 435 GRAND AVE

3.2.3 State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List A review of the BROWNFIELDS list, as provided by EDR, and dated 08/19/2013 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

CINDERELLA CLEANERS 248 FLATBUSH AVE WSW 1/4 - 1/2 (0.489 mi.) 220 507

3.3 ADDITIONAL ENVIRONMENTAL RECORDS

3.3.1 Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 8 HIST UST sites within approximately 0.25 miles of the target property.

525 CLINTON AVENUE 525 CLINTON AVENUE
FULVAN CORP 846 FULTON STREET
TEEN CHALLENGE INC. 444 CLINTON AVENUE
ST JOSEPH'S SRO RESIDENCE 683 DEAN STREET
BELL ATLANTIC 547 CLINTON AVENUE
524 VANDERBILT AVE, INC. 524 VANDERBILT AVE
ADELPHI STATION 950 FULTON STREET
THE TIME RECORD STORAGE CO. 800 PACIFIC STREET

3.3.2 Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date. A review of the NY Spills list, as provided by EDR, and dated 08/19/2013 has revealed that there are 25 NY Spills sites within approximately 0.125 miles of the target property.
SOIL 487 CLINTON AVE Closed Date: 8/4/2011
SOIL 487 CLINTON AVE Closed Date: 12/22/2010
900 FULTON ST/BKLYN 900 FULTON STREET Closed Date: 5/25/1995
COASTAL GAS STATION 846 FULTON STREET Closed Date: 7/1/2010
MANHOLE # 289 WAVERLEY AVE AT GATES Closed Date: 1/10/2006
MASTER CHEF WHOLESALE 864 ATLANTIC AVE Closed Date: 4/20/2012
STREET WAVERLY AND ATLANTIC AV Closed Date: 6/23/2004
MANHOLE # 2909 ATLANTIC AVE AND WAVERL Closed Date: 10/7/2004
MANHOLE 2909 ATLANTIC AVE/WAVERLY PL Closed Date: 5/3/2007
510 WAVERLY AVE Closed Date: 1/2/1998
510 WAVERLY AVE Closed Date: 11/21/1997
APARTMENT BUILDING 537 CLINTON AVE Closed Date: 12/28/2011
VAULT # 4724 547 CLINTON AVE Closed Date: 1/6/2005
900 FULTON STREET 900 FULTON STREET Closed Date: 12/18/1992
MANHOLE #2903 WASHINGTON & FULTON ST Closed Date: 6/16/2003
SPILL NUMBER 9911883 FULTON ST & WASHINGTON Closed Date: 3/5/2002
FULTON ST FULTON ST Closed Date: 3/30/2011
511 VANDERBILT AV Closed Date: 7/5/2005
503 VANDERBILT AVE 503 VANDERBILT AVE Closed Date: 2/6/2004
ATLANTIC TELECOM CENTER 470 VANDERBILT AVE Closed Date: 12/31/2002
ATLANTIC TELECOM CENTER 470 VANDERBILT AVE Closed Date: 12/31/2002
ATLANTIC TELECOM CENTER 470 VANDERBILT AVE Closed Date: 12/31/2002
ATLANTIC TELECOM CENTER 470 VANDERBILT AVE Closed Date: 12/31/2002
VMS 470 VANDERBILT AVENUE Closed Date: 9/22/1998
MH 19778 FULTON ST/VANDERBUILT A Closed Date: 4/19/2001
VANDERBILT AV/FULTON ST Closed Date: 8/23/2002
177A ST JAMES PLACE/BKLYN Closed Date: 5/25/1995
CROSSTOWN REALTY 840 ATLANTIC AVE Closed Date: 3/4/2010
MANHOLE 1798 VANDERBILT AV/ATLANTIC Closed Date: 6/6/2002
MARTINEZ SERVICE STATION INC 514-16 VANDERBILT AVE Closed Date: 7/7/2005, 4/23/2012

DRYCLEANERS: A listing of all registered drycleaning facilities. A review of the DRYCLEANERS list, as provided by EDR, and dated 07/18/2013 has revealed that there are 4 DRYCLEANERS sites within approximately 0.25 miles of the target property.
IMPERIAL/BUBBLE WORKS CLEANERS 856 FULTON STREET
A & J FRENCH CLEANERS 585 VANDERBILT AVENUE
BROTHERS CLEANERS 349 WAVERLY AVENUE
MEGA CLEANERS 916 FULTON STREET

3.3.3 E DESIGNATION

Lots designation with an E on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts. A review of the E DESIGNATION list, as provided by EDR, and dated 06/17/2013 has revealed that there are 15 E DESIGNATION sites within approximately 0.125 miles of the target property.

Target Property
LOT 27, TAXBLOCK 2012 884 FULTON STREET
LOT 71, TAXBLOCK 2012 849 ATLANTIC AVENUE
LOT 70, TAXBLOCK 2012 851 ATLANTIC AVENUE
LOT 10, TAXBLOCK 2012 517 WAVERLY AVENUE
LOT 1, TAXBLOCK 1978 937 FULTON STREET
LOT 32, TAXBLOCK 2012 894 FULTON STREET
LOT 1, TAXBLOCK 2011 549 CLINTON AVENUE
LOT 1, TAXBLOCK 2012 551 WAVERLY AVENUE
LOT 232, TAXBLOCK 2012 538 WASHINGTON AVENUE
LOT 18, TAXBLOCK 2010 507 VANDERBILT AVENUE
LOT 19, TAXBLOCK 2010 505 VANDERBILT AVENUE
LOT 20, TAXBLOCK 2010 503 VANDERBILT AVENUE
LOT 25, TAXBLOCK 2010 840 FULTON STREET
LOT 1, TAXBLOCK 2010 539 VANDERBILT AVENUE
LOT 59, TAXBLOCK 2010 809 ATLANTIC AVENUE

3.3.4 Environmental Liens

No records of environmental cleanup liens were filed or recorded under federal, tribal, state or local law. The only actions filed With the NYC Department of buildings were a plumbing/drainage repair in 1928 and a demo permit in 1974. The previous owner lost the building to foreclosure in 1970, no records of those liens were found during the investigation.

3.4 EDR PROPRIETARY RECORDS

3.4.1 EDR US Hist Auto Stat

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR’s HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches. A review of the EDR US Hist Auto Stat

list, as provided by EDR, has revealed that there are 24 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

846 FULTON ST WNW 0 - 1/8 (0.083 mi.) K48 122
858 ATLANTIC AVE SSW 0 - 1/8 (0.115 mi.) Q90 199
860 ATLANTIC AVE S 0 - 1/8 (0.115 mi.) Q93 201
890 ATLANTIC AVE SSE 1/8 - 1/4 (0.140 mi.) R119 270
914 ATLANTIC AVE SSE 1/8 - 1/4 (0.167 mi.) W133 310
538 VANDERBILT AVE SSW 1/8 - 1/4 (0.192 mi.) AA140 331
542 VANDERBILT AVE SSW 1/8 - 1/4 (0.202 mi.) AA146 341
544 VANDERBILT AVE SSW 1/8 - 1/4 (0.207 mi.) AA148 342
587 VANDERBILT AVE SSW 1/8 - 1/4 (0.231 mi.) AH166 370
904 PACIFIC ST SSE 1/8 - 1/4 (0.236 mi.) AK171 377
908 PACIFIC ST SSE 1/8 - 1/4 (0.242 mi.) AK181 412
980 ATLANTIC AVE SE 1/8 - 1/4 (0.245 mi.) AP190 431
542 CLINTON AVE SW 0 - 1/8 (0.048 mi.) E19 60
840 FULTON ST WNW 0 - 1/8 (0.100 mi.) K69 170
825 ATLANTIC AVE SSW 0 - 1/8 (0.103 mi.) J71 172
821 ATLANTIC AVE SSW 0 - 1/8 (0.104 mi.) J73 177
817 ATLANTIC AVE SSW 0 - 1/8 (0.105 mi.) O76 180
838 FULTON ST WNW 0 - 1/8 (0.105 mi.) K77 180
887 FULTON ST WNW 0 - 1/8 (0.106 mi.) K78 181
811 ATLANTIC AVE SW 0 - 1/8 (0.109 mi.) O85 192
854 ATLANTIC AVE SSW 0 - 1/8 (0.114 mi.) O89 199
852 ATLANTIC AVE SSW 0 - 1/8 (0.115 mi.) O91 200
514 VANDERBILT AVE SW 0 - 1/8 (0.123 mi.) S109 234
524 VANDERBILT AVE SSW 1/8 - 1/4 (0.133 mi.) S114 255

3.4.2 EDR US Hist Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, Laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR’s HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches. A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 14 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.
528 CLINTON AVE
856 FULTON ST
851 ATLANTIC AVE
558 VANDERBILT AVE
349 WAVERLY AVE
353 WAVERLY AVE

141 GREENE AVE
961 FULTON ST
583 CLINTON AVE
916 FULTON ST
592 CLINTON AVE
286 SAINT JAMES PL
1 PUTNAM AVE
31 LEFFERTS PL

3.4.3 Due to poor or inadequate address information, the following 20 sites were not mapped.

BELL ATLANTIC-NY MANIFEST
GREAT LAKES DREDGE & DOCK RCRA-NLR, MANIFEST
LONG ISLAND RAILROAD FINDS, RCRA-NLR, MANIFEST
CONSOLIDATED EDISON MANIFEST
CONSOLIDATED EDISON RCRA-NLR, MANIFEST
CONSOLIDATED EDISON MANIFEST
CON EDISON MANIFEST
NYNEX RCRA-NLR, MANIFEST
NYNEX RCRA-NLR, MANIFEST
NYC BOARD OF EDUCATION PS 369 BKLY FINDS, MANIFEST, RCRA-NLR
NYCTA FINDS, RCRA-NLR, MANIFEST
BROOKLYN WHITE LEAD CO CERCLIS-NFRAP
BAYRIDGE MAINTENANCE CORP FINDS, RCRA-NLR
MTA NYCT - MONTAGUE ST TUNNEL M N FINDS, RCRA-NLR
BELL ATLANTIC-NY RCRA-NLR
BELL ATLANTIC-NY RCRA-NLR
BETW/AVE X & SPILLS
ROADWAY SPILLS
KINGS HIGHWAY MOBIL SPILLS
205842; KINGS HWY SPILL

3.5 AERIAL PHOTOGRAPHS

Aerial photographs of the study area for the years 1924, 1954, 1966, 1975, 1978, 1984, 1994, 2006, 2009 and 2011 were reviewed to determine prior land usage and identify historical recognized environmental conditions. Review of the photographs indicated that the subject property and adjoining properties have been significantly developed since 1924. The surrounding properties have been used as commercial and residential since the then. Appendix C includes copies of aerial photographs from the years listed.

3.6 SANBORN FIRE INSURANCE MAPS

A search of Sanborn Fire Insurance Maps (Sanborn Maps) was conducted and it was found that the site is included in the Sanborn Database. Maps from 2007, 2006, 2005, 2004, 2003, 2002, 2001, 1996, 1995, 1993, 1992, 1991, 1989, 1988, 1987, 1986, 1982, 1981, 1980, 1979, 1977, 1969, 1950, 1938, 1915, 1904 and 1887 were found (See Appendix D).

The maps show that development around the property began in 1887 and began with subdivisions of the front lots for use as stores. The rest of the property was a coal yard until the 1930s when a large shed was built on the lot. The 1938 map shows the front of the property divided into stores and a large garage built on the main property. Up until 1938 the area was populated by Ice cream factories, auto repair shops and residential buildings. The 1938 map shows the Rubel Ice and Coal Building across the street. The area and property remained the same until 1970 when it was purchased by the current owner in a foreclosure sale. At that time the City of New York demolished the garage on the site, leaving the foundation base and north wall. The property has been used as a parking lot by the current owner since then. A gasoline filling station appears on the 1969 and subsequent maps on Fulton and Vanderbuilt Ave. NY Telephone occupied several buildings to the south of the target property since 1950. Although some of these properties are listed on EDR databases they are not considered REC on the subject properties. Soil sampling will determine soil contamination at the site.

3.7 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

The ASTM Standard also states that additional state and local records sources may be checked to attempt to supplement information obtained through review of standard environmental record sources. The additional records and sources consulted in conjunction with this ESA are listed below. Copies of correspondence to and from, any of these record sources is included in Appendix F. Any additional information received after the submission of this report will be forwarded under a separate cover

Brooklyn Building/Zoning Office – The Department of Buildings shows 2 actions on the subject property, a drainage plumbing permit from 1928 and a demolition permit from 1974.

NYC Department of Health – The DOH was contacted via telephone and mail to determine if any of the city agencies had records for the subject site. We have included a Community Health Profile in Appendix E of this report. Any pertinent information received from the DOH will be forwarded under a separate cover.

NYC DEP – No Additional records for the subject property were available from the DEP. Any future correspondence from the DEP will be forwarded under a separate cover.

NYS DEC – No Additional records for the subject property were available from the NYSDEC. Any future correspondence from the DEC will be forwarded under a separate cover.

4.0 SITE RECONNAISSANCE AND INTERVIEWS

Mr. Timothy Donohoe of DVD performed the site reconnaissance and interviews with the Owner, Mr. Nat White on October 1, 2008. Information and observations gathered during this phase of the project are included in the following sections.

4.1 INTERVIEWS WITH SITE REPRESENTATIVES

Mr. White was interviewed during the site inspection. No changes on the property have occurred since he took ownership. The property is currently vacant and being used as a parking lot.

4.2 HAZARDOUS SUBSTANCES AND AREAS OF CONCERN

Several documented spills and hazardous material activity was found during the records search. One gas station is located 1 block to the west. No evidence of spills or contamination were found during the site inspection. The area has an E designation from the City of New York. The 2 reasons for the E designation are noise and possible gasoline contamination. In order to file for building permits, the owner will need to follow the NYC Office of Environmental Remediation ("OER") rules which include testing of the soil for volatile organics and building plans which include noise protection. Under section 11-15 of the Zoning Resolution of the City of New York, a Hazardous Materials, Air Quality or Noise (E) Designation in Appendix C of the Zoning Resolution
indicates that environmental requirements have been established for a tax lot. Prior to any improvement at such a lot, including the construction of a new structure or certain remodeling of an existing structure, property owners must demonstrate to OER that the improvement will satisfy the environmental requirements and will occur without potential hazardous material, air quality or noise impacts that could negatively affect construction workers, future users of the lot or those in close proximity to the lot.

4.3 UNIDENTIFIED HAZARDOUS SUBSTANCES/ PETROLEUM PRODUCTS

No unidentified hazardous substances or petroleum products were noted or reported to exist during the site inspection.

4.4 UNDERGROUND STORAGE TANKS (USTS)

No USTs were reported on the site. No evidence of USTs was found at the site. Any UST that could potentially be on site would have to be a tank used by the garage which was removed in 1974. The original concrete slab from the garage is still under the asphalt. The concrete slab under the asphalt will have rebar which would make Ground Penetrating radar ineffective. Phase 2 drilling and soil sampling would be the most effective way to identify and locate evidence of previous USTs at the site.

4.5 PITS AND SUMPS

Pits were observed in the North section of the parking lot and in the center, the North most 10 feet of the lot is sinking and one large depression is noticeable in the center of the parking lot. It is likely that the concrete foundation does not exist in the North part of the parking lot and the asphalt is sinking into the dirt.

4.6 INDICATIONS OF PCBS (POLYCHORINATED BIPHENYLS)

Potential PCB containing transformers were noted on the street adjacent to the property. The entire area was renovated by the DOT and MTA so all subway, Con-Ed vaults and roads were upgraded at that time. No evidence of leaking or dumping was noted during the site inspection.

4.7 INDICATIONS OF SOLID WASTE DISPOSAL

No solid waste (garbage) is generated on the site.

4.8 ASBESTOS CONTAINING MATERIALS (ACM)

During the site inspection no PACMs were identified on the property.

4.9 LEAD BASED PAINT

No painted areas exist on the property.

4.10 DRINKING WATER QUALITY

Water is supplied by the NYC municipal water system, at this time the property has no water supply.

4.11 RADON

Area radon information reviewed indicated that the site is an area classified as Zone 3 where the average indoor concentration of radon is below 2 picocuries per liter (pCi/L). The Federal EPA Radon zone for Kings County, NY is 3. The indoor average level for zone 3 areas is less than 2 pCi/L. No specific radon testing information was available for the subject property. There were no radon concerns reported.

5.0 SUMMARY

Data collected for the EA shows the following potential impediments to the site's development:
1. Noise pollution from the NYC Subway
2. Inclusion on the following databases: NYC E-Designation
These are the only two Recognized Environmental Conditions identified in the course of the EA."

NYC E-Designation

Prior to development of the site and during soil disturbance and/or removal all soil should be tested in accordance with RCRA (40 CFR Part 261) of D004 through D052. It is the generator's responsibility to make this determination using TCLP testing of all waste soil. Ongoing contamination may occur due to the properties in the immediate vicinity. All soil and materials removed from the site should be considered contaminated until tested using TCLP Sampling Protocol (Appendix F)

Site inspections revealed no visible contamination or stressed vegetation, good housekeeping procedures appear to be followed by occupants of adjacent properties. Phase 2 sampling will determine the extent of historical contamination.

DVD has performed this EA in accordance with the ASTM Standard Practice for Phase I Environmental Site Assessments for Commercial Real Estate (E1527-00). Any exception to, or deletions from, these practices are described in Section 1.1 of this report. This assessment has revealed evidence of recognized environmental conditions in connection with the property. These conditions are noted and described in this report.

6.0 LIMITATIONS

This EA was limited to the review of available records, interviews with available on-site personnel and local officials, and an on-site inspection. The site inspection was limited to observation of exterior surficial conditions only. Such an inspection cannot be expected to reveal all hazardous materials or situations that might be present on-site; some hazardous materials or conditions may exist and not be detected because they are beyond the scope of this study. The investigation was conducted in a manner consistent with that level of care and skill exercised by environmental professionals currently practicing under similar conditions and was based on information made available to the representatives of DVD Environmental, Inc. All documents prepared or furnished by DVD Environmental, Inc. pursuant to this project are to be used in the context of the scope of services contracted. This document is not intended or represented to be suitable for reuse by the client or others on modifications of the project scope. This EA has been prepared for the use of the client and agents thereof. The reuse or release to other third parties with the expressed written permission of the consultant is prohibited.

7.0 Certification

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

PREPARED BY: _____

Timothy Donohoe

DATE: October 3, 2011

8.0 REFERENCES

American Society for Testing and Materials, ASTM Standard E-1527-00, *Standards for Environmental Site Assessments for Commercial Real Estate, 2000.*

Environmental Data Resources, Inc. *Radius Map Report, 882 Fulton Street, Brooklyn, NY* , October 12, 2005.

Stearns & Wheler Companies, Site investigation and Remedial Action Work Plan. January 2004.

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

Figure 1

Site Maps

White Memorial Chapels
882 Fulton Street
Brooklyn, NY 11238

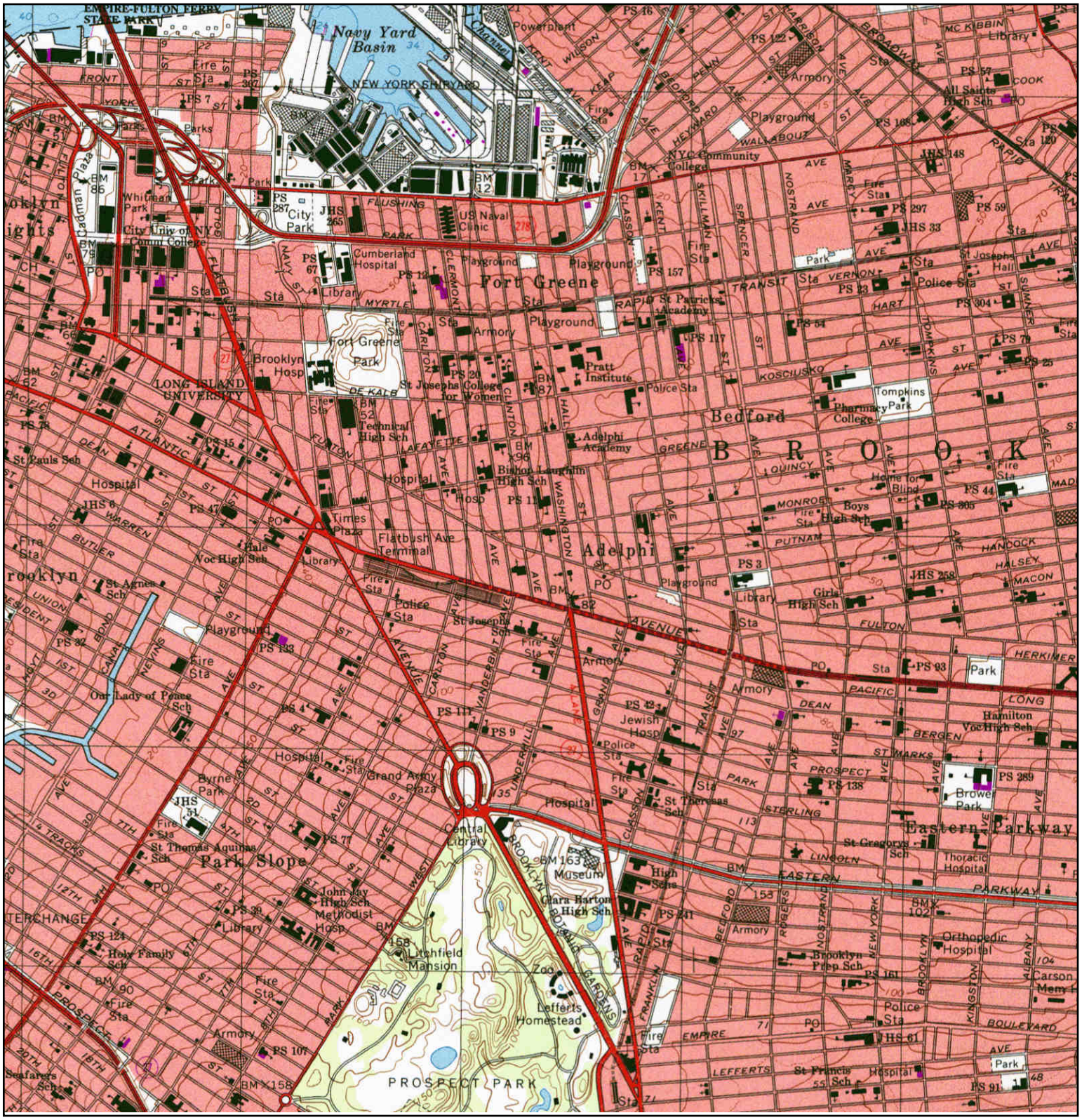
Inquiry Number: 3736798.4
September 23, 2013

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Historical Topographic Map

N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

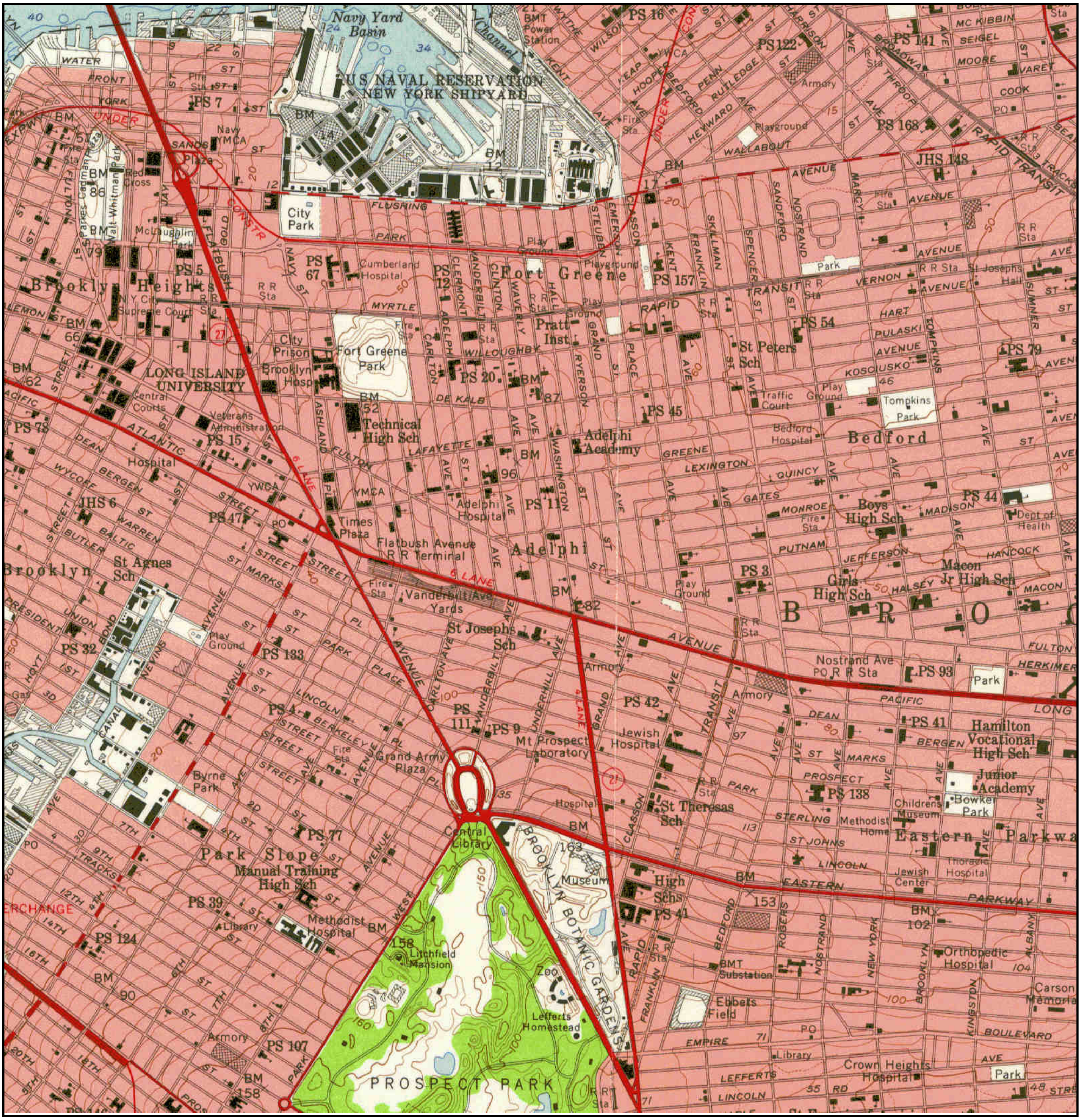
Historical Topographic Map

N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1924 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

Historical Topographic Map

N	**TARGET QUAD** NAME: BROOKLYN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

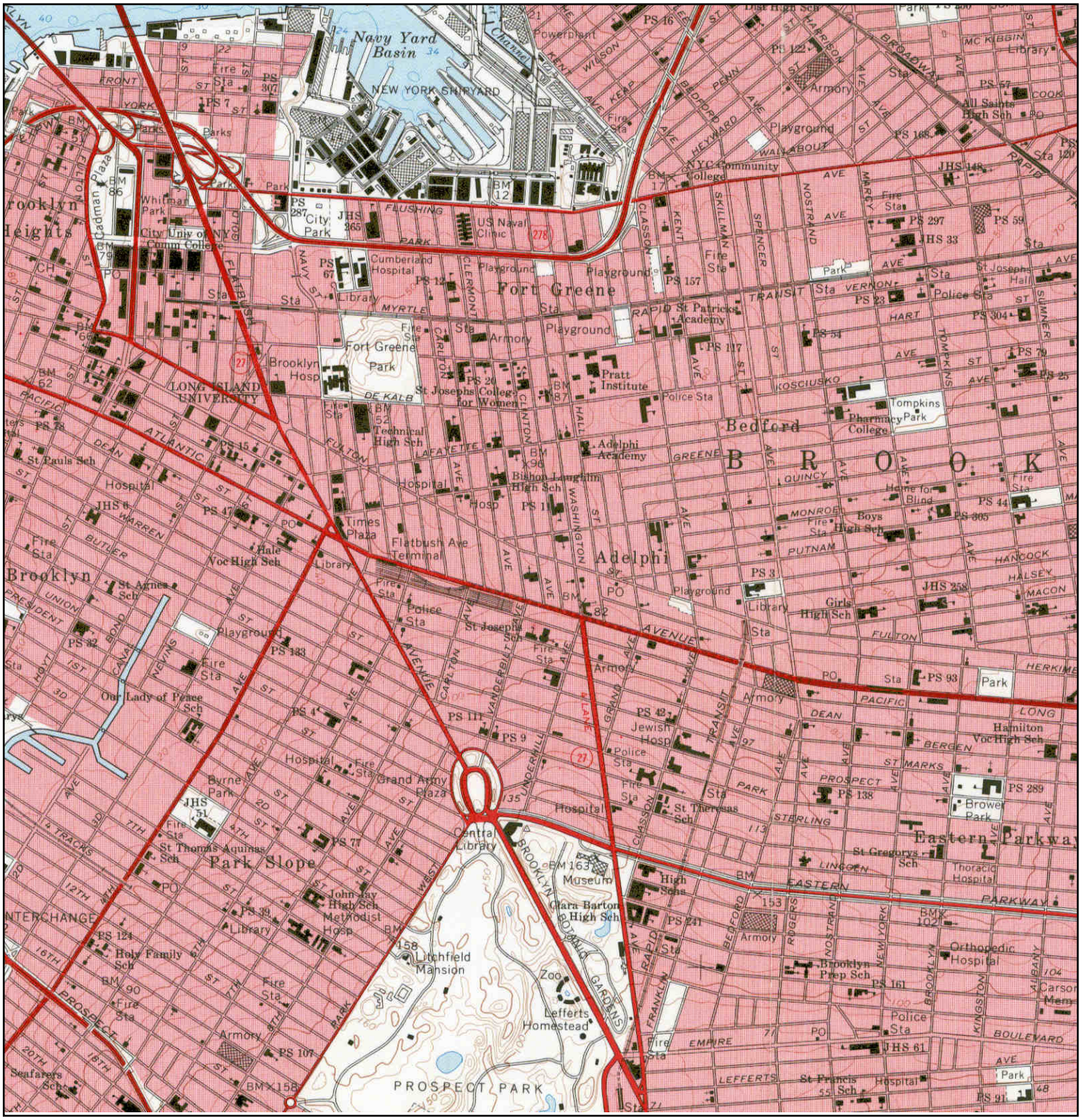
Historical Topographic Map



TARGET QUAD NAME: BROOKLYN MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

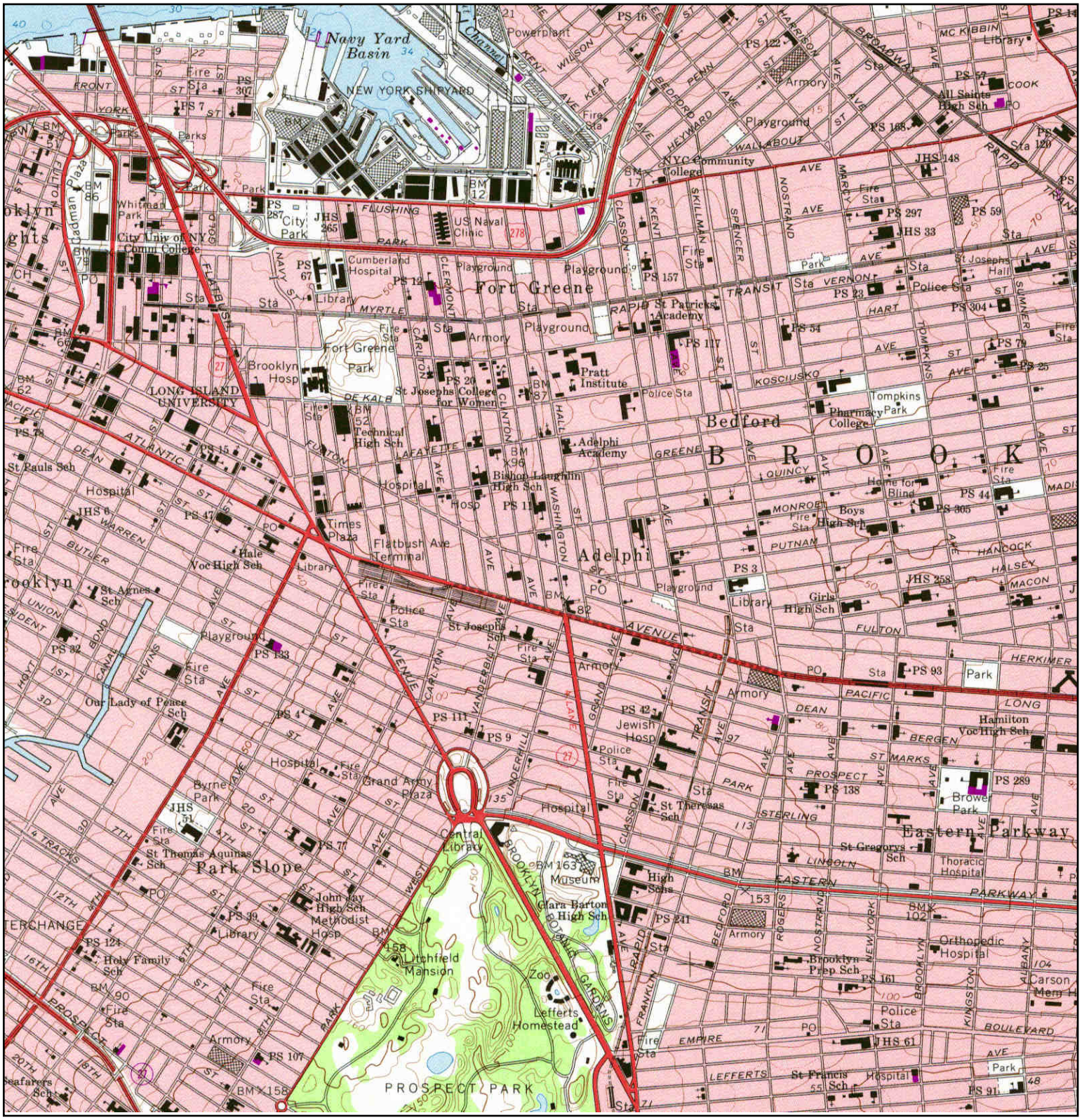
N

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

Historical Topographic Map

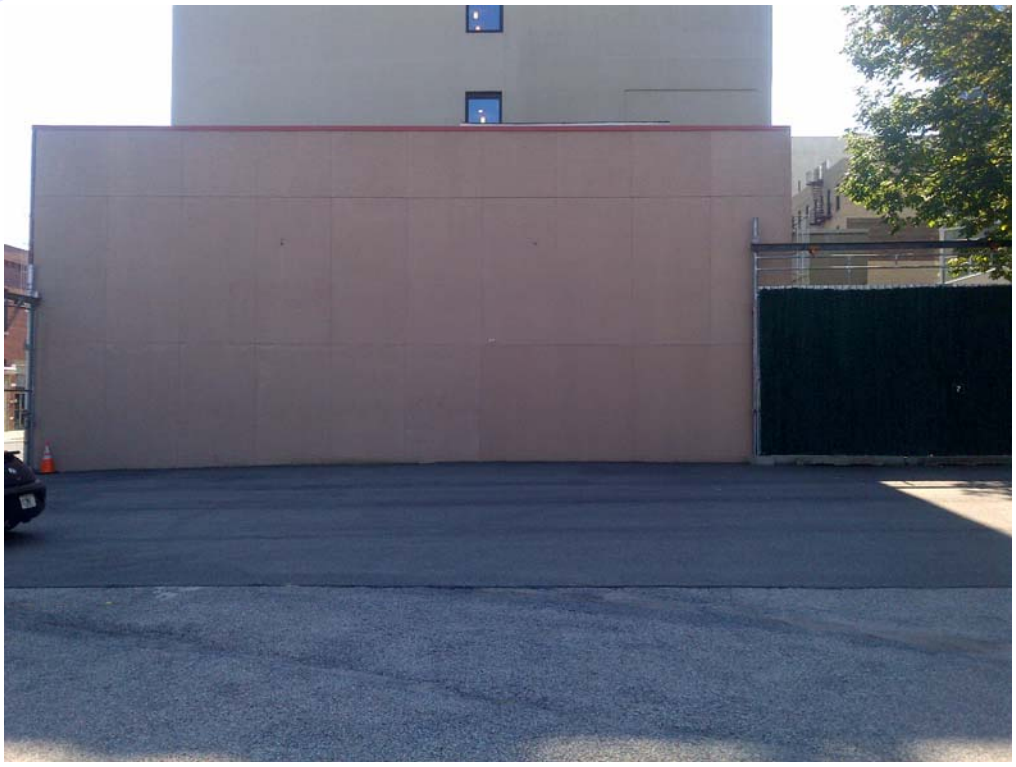


N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1979 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: White Memorial Chapels ADDRESS: 882 Fulton Street Brooklyn, NY 11238 LAT/LONG: 40.6831 / -73.9661	CLIENT: DVD Environmental CONTACT: Tim Donohoe INQUIRY#: 3736798.4 RESEARCH DATE: 09/23/2013

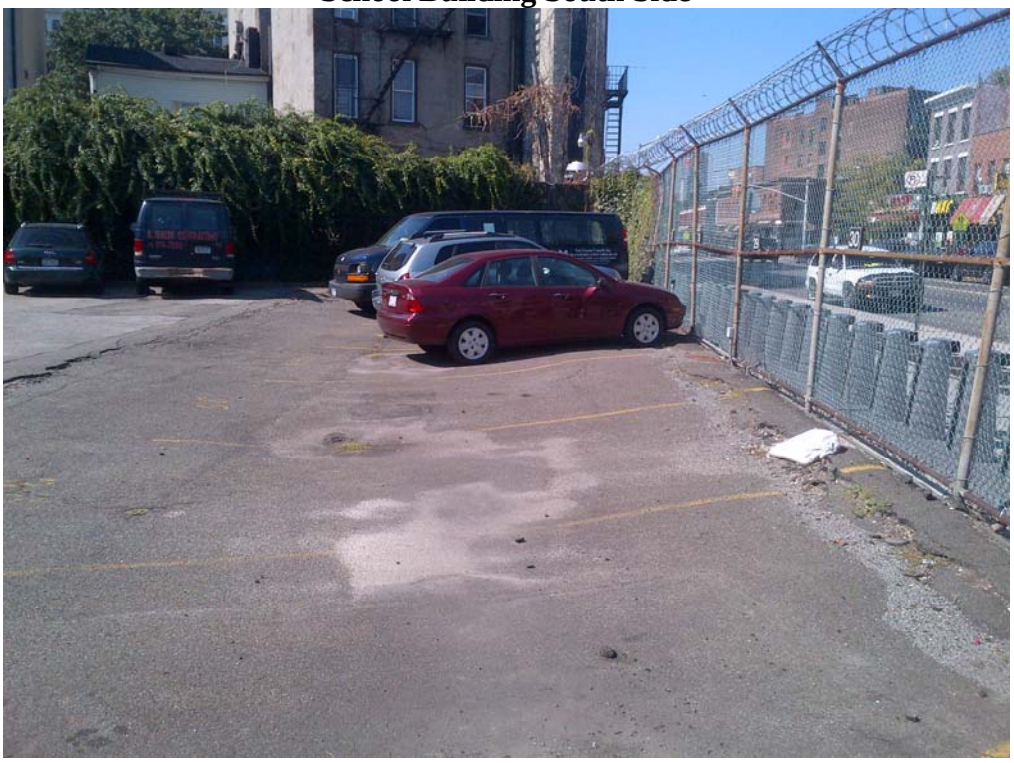
Appendix A

Photographs

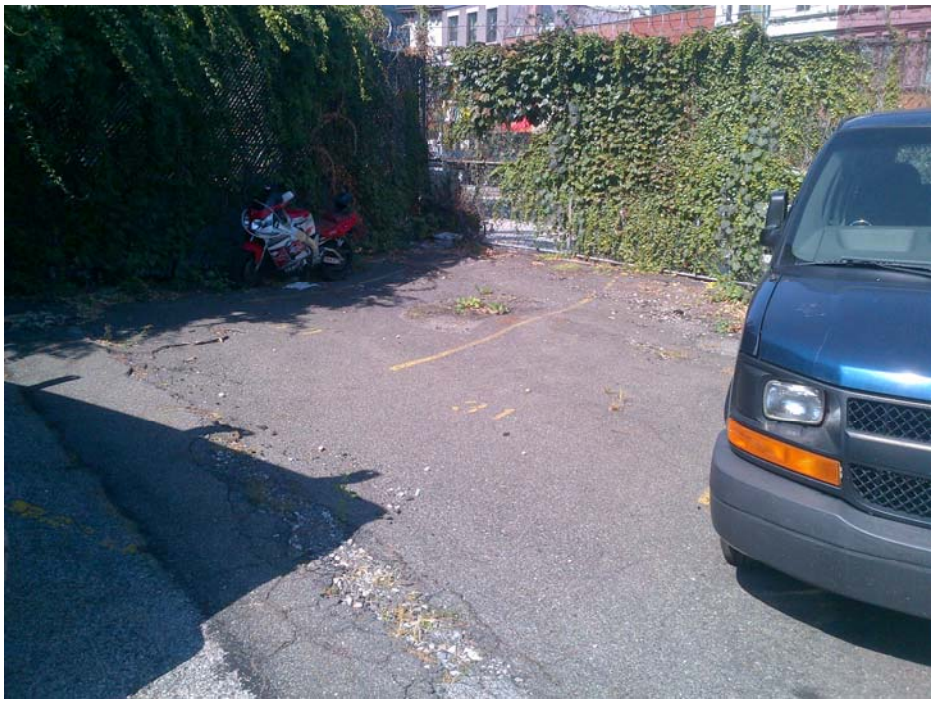
Rear of White's Memorial Chapels' Building.

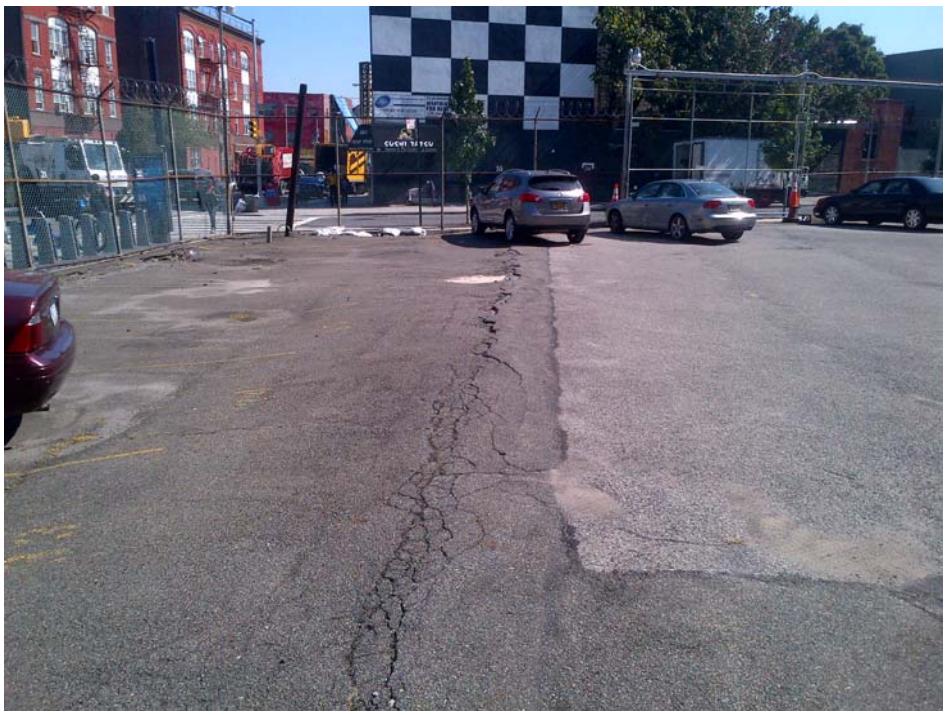


School Building South Side

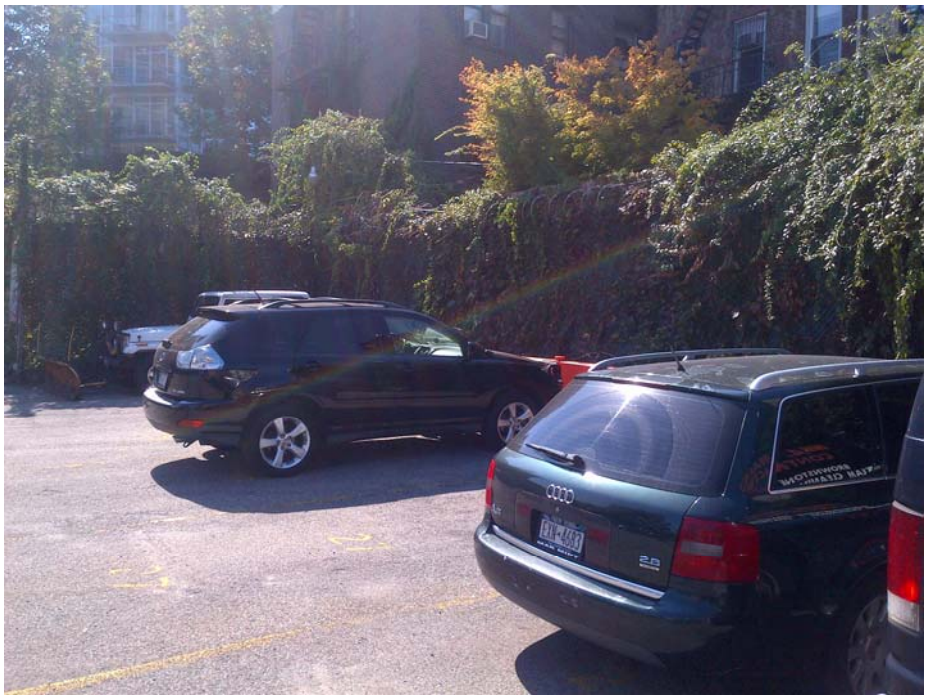


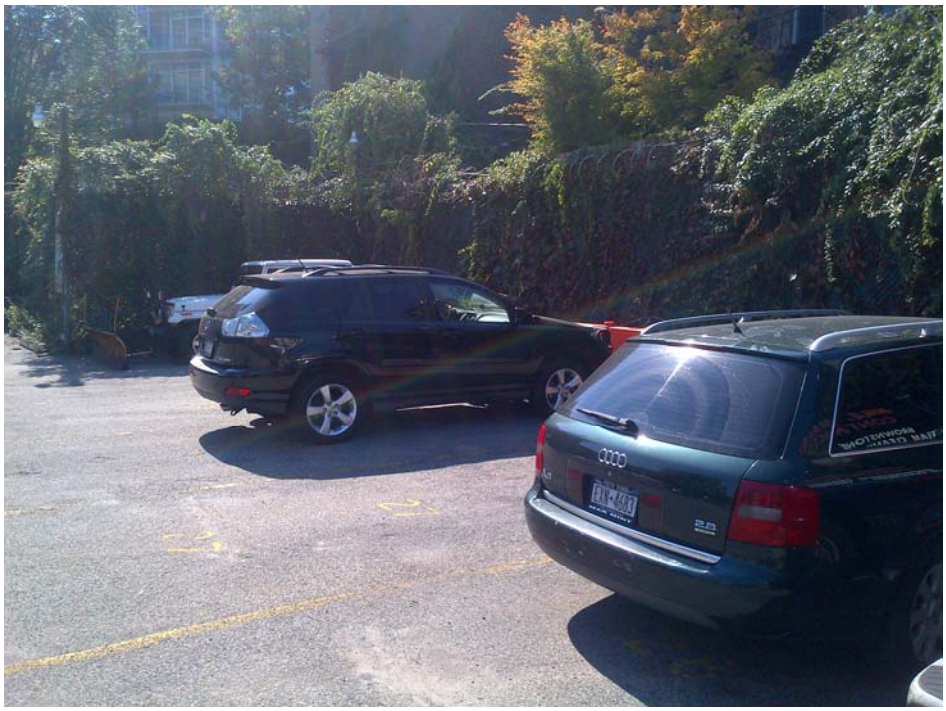
North Side Collapsing asphalt





North Side Collapsing asphalt





West Fence, between parking lot and residential buildings

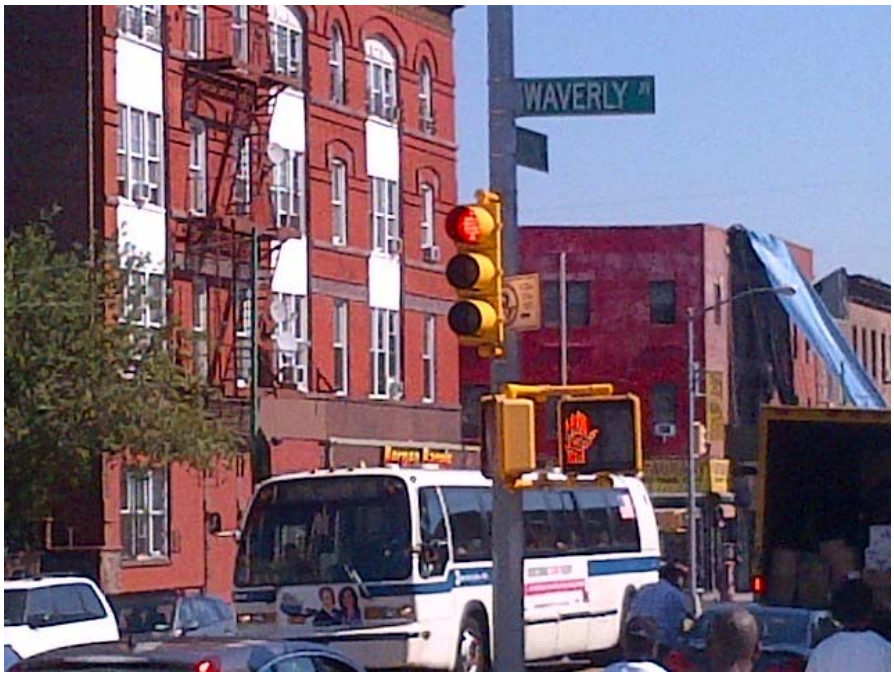
West Side apartment buildings

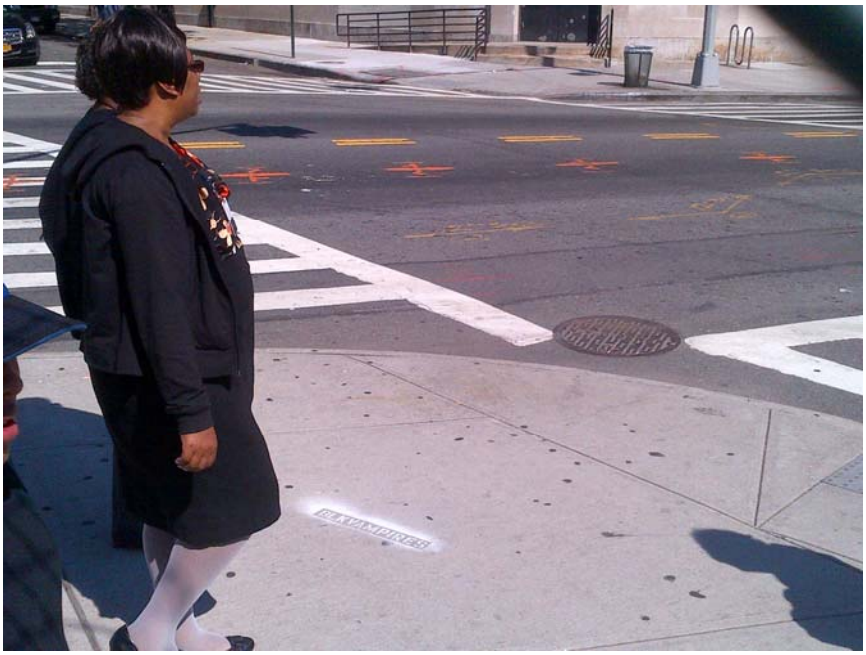
West Side apartment buildings

North Side Commercial / residential buildings on Fulton Street

North Side Commercial / residential buildings on Fulton Street

Interior of Rubel Building after opening





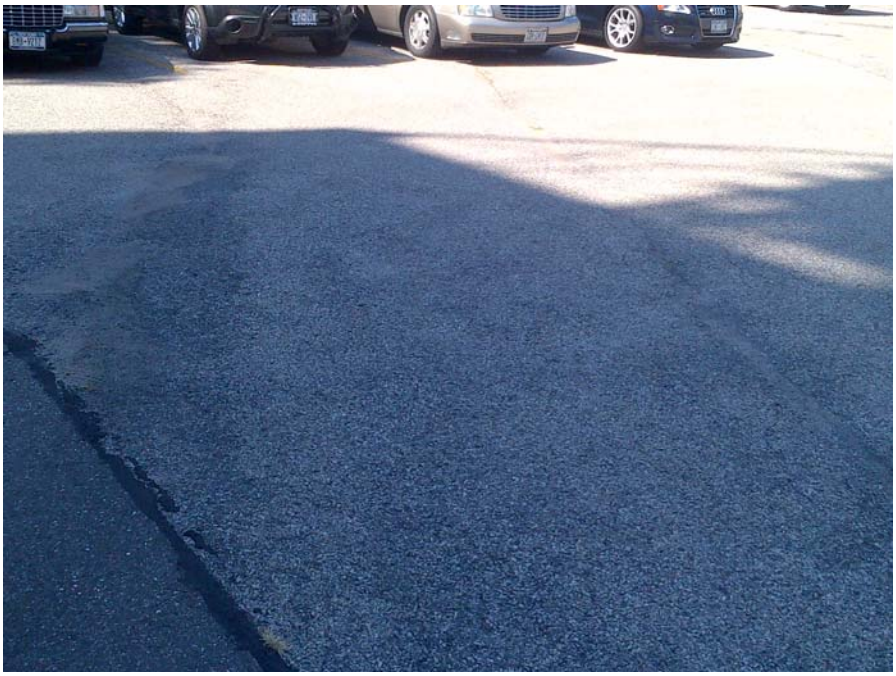
Fulton and Waverly looking East

Sinking asphalt, West side

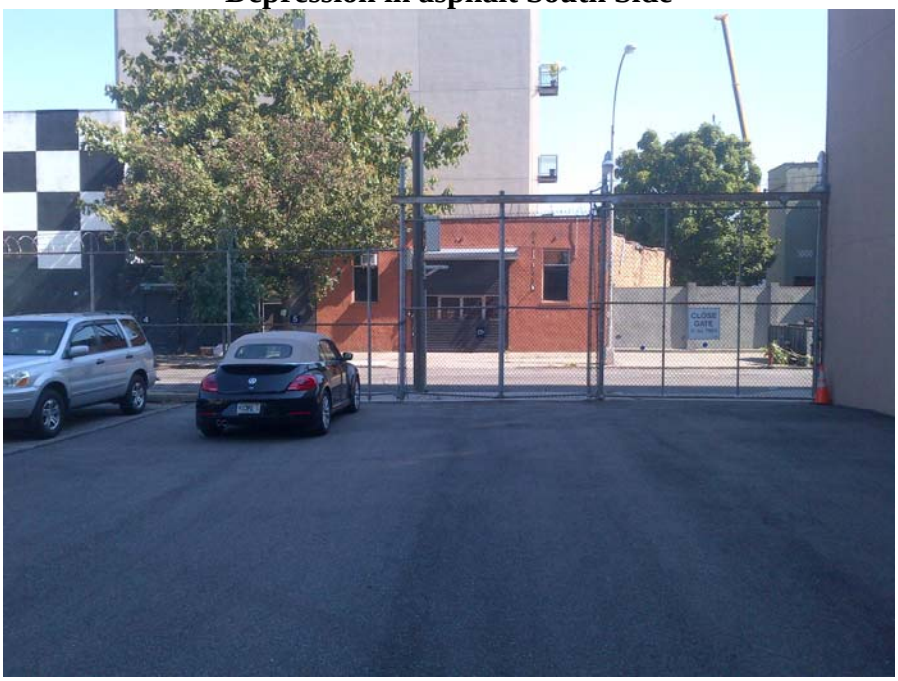
Sinking Asphalt North Side

Sinking Asphalt North Side

Depressions in center of parking lot



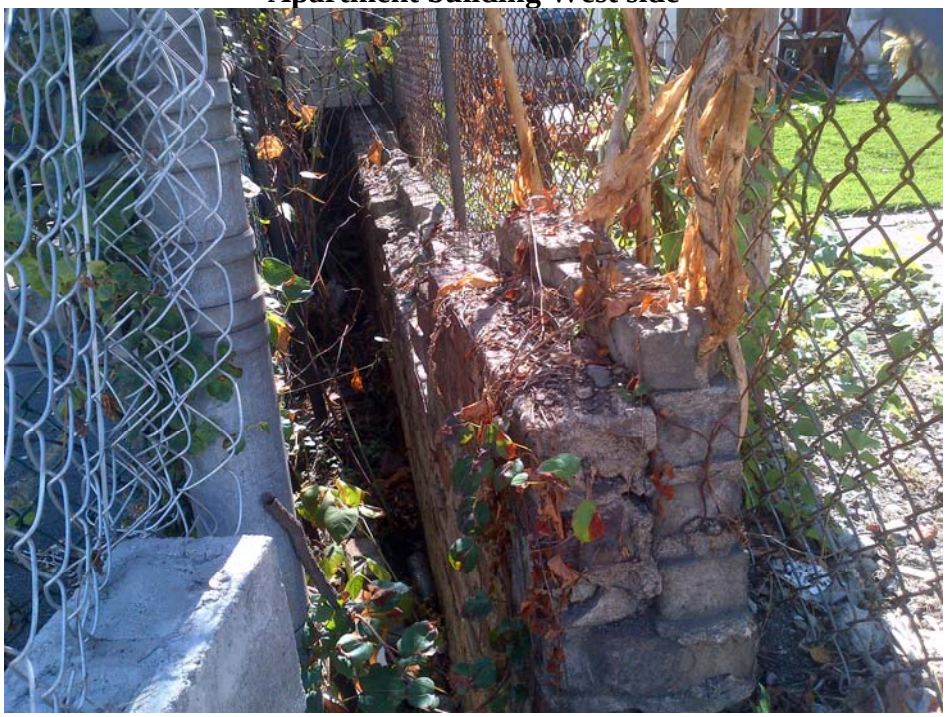
Depression in asphalt South Side



Newly paved South driveway and new antenna on sidewalk

View from South to North

Apartment building West side



Remaining foundation wall from original brick garage which was demolished in 1974. Foundation wall is currently a retaining wall for West side neighbors.

Appendix B

EDR Database Report

White Memorial Chapels
882 Fulton Street
Brooklyn, NY 11238

Inquiry Number: 3736798.2s
September 23, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

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Physical Setting Source Map	A-8
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Thank you for your business.
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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

882 FULTON STREET
BROOKLYN, NY 11238

COORDINATES

Latitude (North):	40.6831000 - 40˚ 40' 59.16''
Longitude (West):	73.9661000 - 73˚ 57' 57.96''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	587370.8
UTM Y (Meters):	4503881.5
Elevation:	78 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2010, 2011
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LOT 30,TAXBLOCK 2011 882 FULTON STREET BROOKLYN, NY 11238	E DESIGNATION	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ..... Inactive Hazardous Waste Disposal Sites in New York State
VAPOR REOPENED ..... Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

HIST LTANKS ..... Listing of Leaking Storage Tanks
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

CBS UST ..... Chemical Bulk Storage Database
MOSF UST ..... Major Oil Storage Facilities Database
CBS AST ..... Chemical Bulk Storage Database
MOSF AST ..... Major Oil Storage Facilities Database
MOSF ..... Major Oil Storage Facility Site Listing
CBS ..... Chemical Bulk Storage Site Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS ..... Registry of Engineering Controls
INST CONTROL ..... Registry of Institutional Controls
RES DECL ..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Cleanup Agreements

State and tribal Brownfields sites

ERP ..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
SWRCY ..... Registered Recycling Facility List
SWTIRE ..... Registered Waste Tire Storage & Facility List
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
DEL SHWS ..... Delisted Registry Sites
US HIST CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST AST ..... Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2 ..... CERCLA Lien Information

LIENS ..... Spill Liens Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
NY Hist Spills ..... SPILLS Database
SPILLS 90 ..... SPILLS 90 data from FirstSearch
SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
US MINES ..... Mines Master Index File
TRIS ..... Toxic Chemical Release Inventory System
TSCA ..... Toxic Substances Control Act
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ..... Section 7 Tracking Systems
ICIS ..... Integrated Compliance Information System
PADS ..... PCB Activity Database System
MLTS ..... Material Licensing Tracking System
RADINFO ..... Radiation Information Database
FINDS ..... Facility Index System/Facility Registry System
RAATS ..... RCRA Administrative Action Tracking System
RMP ..... Risk Management Plans
HSWDS ..... Hazardous Substance Waste Disposal Site Inventory
UIC ..... Underground Injection Control Wells
SPDES ..... State Pollutant Discharge Elimination System
AIRS ..... Air Emissions Data
INDIAN RESERV ..... Indian Reservations
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
COAL ASH ..... Coal Ash Disposal Site Listing
PRP ..... Potentially Responsible Parties
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
Financial Assurance ..... Financial Assurance Information Listing
LEAD SMELTERS ..... Lead Smelter Sites
2020 COR ACTION ..... 2020 Corrective Action Program List
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
PCB TRANSFORMER ..... PCB Transformer Registration Database
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
COAL ASH DOE ..... Steam-Electric Plant Operation Data

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 04/26/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ULANO CORP	***601 BERGEN ST***	***SW 1/4 - 1/2 (0.302 mi.)***	***197***	***443***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 07/11/2013 has revealed that there are 5 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYC BD OF ED - PUBLIC SCHOOL 1	419 WAVERLY AVE	N 1/8 - 1/4 (0.166 mi.)	U130	294
CON EDISON - MANHOLE 14828	960 ATLANTIC AVENUE	SE 1/8 - 1/4 (0.233 mi.)	AD167	370

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - MANHOLE 2904	506 WASHINGTON AVE	NE 0 - 1/8 (0.059 mi.)	H27	81
WARD BREAD BUILDING	800 PACIFIC ST	SW 1/8 - 1/4 (0.187 mi.)	Z139	330
NYCDOT BRIDGE BIN 2243290	***CARLTON AVE***	***WSW 1/8 - 1/4 (0.243 mi.)***	***AN184***	***415***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 07/11/2013 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BROTHERS CLEANERS	***349 WAVERLY AVE***	***N 1/8 - 1/4 (0.241 mi.)***	***AM180***	***389***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ SERVICE STATION INC	***514-16 VANDERBILT AVE***	***SW 0 - 1/8 (0.123 mi.)***	***S111***	***245***
NYC DEPT OF ED - PUBLIC SCHOOL	510 CLERMONT AVE	W 1/8 - 1/4 (0.148 mi.)	V124	280

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 07/11/2013 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MEGA CLEANERS	***916 FULTON ST***	***E 0 - 1/8 (0.092 mi.)***	***I60***	***135***

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 07/08/2013 has revealed that there are 3 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PARTS EXPRESS II INC	860-64 ATLANTIC AVE	S 0 - 1/8 (0.115 mi.)	Q92	201
GRAND RECYCLING CORP.	***535 GRAND AVE.***	***SE 1/4 - 1/2 (0.351 mi.)***	***202***	***469***
BERGEN STREET USED PARTS INC	762-765 BERGEN STREET	SSE 1/4 - 1/2 (0.358 mi.)	204	472

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 08/19/2013 has revealed that there are 38

EXECUTIVE SUMMARY

LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
900 FULTON ST/BKLYN	***900 FULTON STREET***	***WNW 0 - 1/8 (0.066 mi.)***	***G31***	***87***
Spill Number/Closed Date: 8911055 / 2/22/1990				
RESIDENTS 420 CLINTON AVE	420 CLINTON AVE & GREEN	NNW 1/8 - 1/4 (0.192 mi.)	AB141	332
Spill Number/Closed Date: 9813604 / 3/5/1999				
428 CLERMONT AVE	428 CLERMONT AVE	NW 1/8 - 1/4 (0.207 mi.)	147	341
Spill Number/Closed Date: 9212121 / 1/25/1993				
410 CLINTON AVE/BKLYN	***410 CLINTON AVENUE***	***NNW 1/8 - 1/4 (0.216 mi.)***	***AF153***	***350***
Spill Number/Closed Date: 9012611 / 1/12/2004				
ST JOSEPH'S SRO	683 DEAN ST	SSW 1/8 - 1/4 (0.219 mi.)	AG155	355
Spill Number/Closed Date: 0209294 / 12/8/2003				
375 VANDERBILT AVE/BKLYN	375 VANDERBILT AVENUE	NNW 1/4 - 1/2 (0.291 mi.)	196	442
Spill Number/Closed Date: 8909323 / 12/24/1989				
CARLTON REHAB CENTER	***405 CARLTON AVE***	***WNW 1/4 - 1/2 (0.315 mi.)***	***198***	***457***
Spill Number/Closed Date: 0209163 / 6/6/2006				
990 ATLANTIC AVE	990 ATLANTIC AVE	SE 1/4 - 1/2 (0.321 mi.)	200	466
Spill Number/Closed Date: 9210824 / 12/18/1992				
276 ST MARKS AVE/N Y TEL	***276 ST. MARK'S AVENUE***	***S 1/4 - 1/2 (0.351 mi.)***	***201***	***467***
Spill Number/Closed Date: 9110236 / 4/28/2000				
WEATHER FUEL COMPANY	UNDERHILL + ST MARKS AV	S 1/4 - 1/2 (0.353 mi.)	203	471
Spill Number/Closed Date: 9613753 / 6/4/1997				
COMMERCIAL SITE - TTF	967 ATLANITC AVE	ESE 1/4 - 1/2 (0.361 mi.)	205	473
Spill Number/Closed Date: 1100459 / 4/4/2013				
APT BUILDING - TTF	307 PROSPECT PLACE	S 1/4 - 1/2 (0.410 mi.)	AQ207	479
Spill Number/Closed Date: 1206302 / Not Reported				
651 VANDERBILT AVE/BKLYN	651 VANDERBILT AVE	SSW 1/4 - 1/2 (0.414 mi.)	208	480
Spill Number/Closed Date: 8710118 / 11/5/1993				
316 PROSPECT PLACE/BKLYN	316 PROSPECT PLACE	S 1/4 - 1/2 (0.416 mi.)	AQ210	484
Spill Number/Closed Date: 8912288 / 3/28/1990				
PHOENIX HOUSE	174 PROSPECT PLACE	SW 1/4 - 1/2 (0.433 mi.)	214	493
Spill Number/Closed Date: 0701000 / Not Reported				
ST. JOSEPHS COLLEGE	290 WASHINGTON AVE	N 1/4 - 1/2 (0.477 mi.)	219	506
Spill Number/Closed Date: 0813822 / 8/21/2009				
AUTO REPAIR SHOP	641 CLASSON AVE	SE 1/4 - 1/2 (0.497 mi.)	222	524
Spill Number/Closed Date: 9902093 / 12/20/2005				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 1,TAXBLOCK 1978	***937 FULTON STREET***	***ENE 0 - 1/8 (0.025 mi.)***	***B8***	***25***
Spill Number/Closed Date: 0702450 / 10/28/2009				
VAULT # 4724	***547 CLINTON AVE***	***SW 0 - 1/8 (0.048 mi.)***	***E18***	***57***
Spill Number/Closed Date: 9111872 / 12/4/2000				
551 WAVERLY AVE/BKLYN	551 WAVERLY AVENUE	SSE 0 - 1/8 (0.059 mi.)	D25	76
Spill Number/Closed Date: 8909618 / 1/5/1990				
VMS	***470 VANDERBILT AVENUE***	***WSW 0 - 1/8 (0.097 mi.)***	***M66***	***155***
Spill Number/Closed Date: 0110901 / 2/14/2003				
191 ST JAMES PL.	191 ST JAMES PLACE	ENE 1/8 - 1/4 (0.128 mi.)	112	253
Spill Number/Closed Date: 9303316 / 6/14/1993				

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
ATLANTIC AVE AT CARLTON Spill Number/Closed Date: 9701786 / 2/24/2003	ATLANTIC AVE AT CARLTON	WSW 1/8 - 1/4 (0.173 mi.)	136	314
SPILL NUMBER 0401949 Spill Number/Closed Date: 0401949 / 7/7/2004	140 ST JAMES PLACE	NNE 1/8 - 1/4 (0.216 mi.)	AC152	349
ATLANTIC MERIT Spill Number/Closed Date: 8804681 / 8/29/1988	ATLANTIC & CARLTON AVE.	WSW 1/8 - 1/4 (0.245 mi.)	AN186	421
44 LEFFERTS PL/BKLYN Spill Number/Closed Date: 9101804 / 5/15/1991	44 LEFFERTS PLACE	ESE 1/8 - 1/4 (0.248 mi.)	AJ194	435
ATLANTIC TERMINAL Spill Number/Closed Date: 0201138 / Not Reported Spill Number/Closed Date: 9010635 / 9/8/1994 Spill Number/Closed Date: 9513597 / 2/1/1996	***483 CARLTON AVE***	***W 1/8 - 1/4 (0.249 mi.)***	***195***	***436***
PS 56 SCHOOL Spill Number/Closed Date: 9911611 / 2/15/2000	***170 GATES AVE***	***ENE 1/4 - 1/2 (0.316 mi.)***	***199***	***464***
ALLIANCE OF RESIDENT THEATRICS Spill Number/Closed Date: 9909509 / 1/28/2005	***138 SOUTH OXFORD STREET***	***WNW 1/4 - 1/2 (0.398 mi.)***	***206***	***475***
SPILL NUMBER 0204332 Spill Number/Closed Date: 0204332 / 12/23/2003	***130 LEFFERTS PLACE***	***ESE 1/4 - 1/2 (0.415 mi.)***	***209***	***481***
APARTMENT BUILDING Spill Number/Closed Date: 0509286 / 6/7/2006	***21 SAINT JAMES PLACE***	***N 1/4 - 1/2 (0.420 mi.)***	***211***	***485***
DEPARTMENT HPD Spill Number/Closed Date: 0106869 / 10/25/2005	516 BERGEN STREET	WSW 1/4 - 1/2 (0.421 mi.)	212	487
ENGINE CO. 219/LADD. CO. 105 F Spill Number/Closed Date: 0102628 / 7/29/2011 Spill Number/Closed Date: 0109974 / 4/30/2004	***494 DEAN STREET***	***WSW 1/4 - 1/2 (0.425 mi.)***	***213***	***489***
SMITH RESIDENCE Spill Number/Closed Date: 0408289 / 12/20/2004	99 ST MARKS AVE	SW 1/4 - 1/2 (0.446 mi.)	215	495
PETER F REILLY STORAGE INC Spill Number/Closed Date: 0611363 / 2/15/2007	***491 BERGEN ST***	***WSW 1/4 - 1/2 (0.450 mi.)***	***216***	***496***
141-147 LAFAYETTE AVE. Spill Number/Closed Date: 9213645 / 8/31/2006	141 LAFAYETTE AVE	NW 1/4 - 1/2 (0.451 mi.)	217	501
AY 473 DEAN, LLC Spill Number/Closed Date: 0412319 / 8/5/2005	***473 DEAN ST***	***WSW 1/4 - 1/2 (0.470 mi.)***	***218***	***502***
NY PACIFIC REALITY Spill Number/Closed Date: 9807467 / 3/3/2003	626 PACIFIC ST	W 1/4 - 1/2 (0.493 mi.)	221	523

State and tribal registered storage tank lists

TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the TANKS list, as provided by EDR, and dated 08/07/2013 has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAULT # 4724	***547 CLINTON AVE***	***SW 0 - 1/8 (0.048 mi.)***	***E18***	***57***

EXECUTIVE SUMMARY

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 08/07/2013 has revealed that there are 16 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
525 CLINTON AVENUE	***525 CLINTON AVENUE***	***WSW 0 - 1/8 (0.039 mi.)***	***C13***	***38***
FULVAN CORP	***846 FULTON STREET***	***WNW 0 - 1/8 (0.083 mi.)***	***K47***	***117***
TEEN CHALLENGE INC.	***444 CLINTON AVENUE***	***NNW 1/8 - 1/4 (0.147 mi.)***	***T121***	***271***
SR. JOSEPH CHURCH	856 PACIFIC ST	S 1/8 - 1/4 (0.172 mi.)	134	310
ST JOSEPH'S SRO RESIDENCE	***683 DEAN STREET***	***SSW 1/8 - 1/4 (0.219 mi.)***	***AG154***	***352***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AFFILIATED SERVICES & RESOURCE	937 FULTON STREET	ENE 0 - 1/8 (0.025 mi.)	B7	23
WAVERLY AVE	531-557 WAVERLY AVE	SSE 0 - 1/8 (0.038 mi.)	D11	32
VMS	***470 VANDERBILT AVENUE***	***WSW 0 - 1/8 (0.097 mi.)***	***M66***	***155***
VANDERBILT	***470 VANDERBILT AVENUE***	***WSW 0 - 1/8 (0.097 mi.)***	***M67***	***160***
SUPERIOR ASSOCIATES LLS	825 ATLANTIC AVENUE	SSW 0 - 1/8 (0.103 mi.)	J72	172
MCDONALD'S	840 ATLANTIC AVE	SW 0 - 1/8 (0.121 mi.)	O103	215
FORMER BP SERVICE STATION	516 VANDERBILT AVENUE	SW 0 - 1/8 (0.123 mi.)	S110	234
FACILITY NOT IN OPERATION	524 VANDERBILT AVENUE	SSW 1/8 - 1/4 (0.133 mi.)	S117	261
840 ATLANTIC AVENUE	ATLANTIC AVENUE	SW 1/8 - 1/4 (0.148 mi.)	125	282
ADELPHI STATION	***950 FULTON STREET***	***E 1/8 - 1/4 (0.167 mi.)***	***Y132***	***307***
THE TIME RECORD STORAGE CO.	***800 PACIFIC STREET***	***SW 1/8 - 1/4 (0.187 mi.)***	***Z138***	***317***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 08/07/2013 has revealed that there are 28 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
L.T. PROPERTIES LLC	515 CLINTON AVENUE	W 0 - 1/8 (0.037 mi.)	C10	30
525 CLINTON AVENUE	***525 CLINTON AVENUE***	***WSW 0 - 1/8 (0.039 mi.)***	***C13***	***38***
487 CLINTON AVE	487 CLINTON AVE	NW 0 - 1/8 (0.062 mi.)	G30	85
ROYAL CASTLE	476 CLINTON AVE	NW 0 - 1/8 (0.082 mi.)	44	111
464 CLINTON AVE	464 CLINTON AVE	NNW 0 - 1/8 (0.110 mi.)	86	193
451 CLINTON AVE	451 CLINTON AVE	NNW 0 - 1/8 (0.120 mi.)	97	205
450 CLINTON LLC	450 CLINTON AVENUE	NNW 1/8 - 1/4 (0.136 mi.)	T118	268
429 CLINTON AVE INC	***429 CLINTON AVE***	***NNW 1/8 - 1/4 (0.165 mi.)***	***128***	***290***
NYC BOARD OF EDUCATION	***419 WAVERLY AVENUE***	***N 1/8 - 1/4 (0.166 mi.)***	***U131***	***296***
420 CLINTON AVE	420 CLINTON AVENUE	NNW 1/8 - 1/4 (0.193 mi.)	AB142	333
ATLAS AUTO SERVICE LTD.	542-544 VANDERBILT AVEN	SSW 1/8 - 1/4 (0.202 mi.)	AA145	338
410 CLINTON LLC	410 CLINTON AVENUE	NNW 1/8 - 1/4 (0.212 mi.)	AF151	346
400 CLINTON AVENUE	400 CLINTON AVENUE	NNW 1/8 - 1/4 (0.231 mi.)	AF165	368
390-392 CLINTON AVENUE	390-392 CLINTON AVE (10	NNW 1/8 - 1/4 (0.243 mi.)	183	413
385 CLINTON AVENUE CORPORATION	385 CLINTON AVENUE	N 1/8 - 1/4 (0.245 mi.)	AM191	431

Lower Elevation	Address	Direction / Distance	Map ID	Page
ACHIEVEMENT FIRST CHARTER SCHO	510 WAVERLY AVENUE	SE 0 - 1/8 (0.018 mi.)	A5	17
941 FULTON STREET	941 FULTON STREET	ENE 0 - 1/8 (0.032 mi.)	B9	28
APARTMENT BUILDING	***537 CLINTON AVE***	***SW 0 - 1/8 (0.041 mi.)***	***E15***	***45***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
495 WASHINGTON AVENUE LLC	495 WASHINGTON AVENUE	ENE 0 - 1/8 (0.074 mi.)	39	98
BNS BUILDINGS LLC	500 WASHINGTON AVENUE	NE 0 - 1/8 (0.086 mi.)	L50	123
VANDERBILT	***470 VANDERBILT AVENUE***	***WSW 0 - 1/8 (0.097 mi.)***	***M67***	***160***
FULTON AUTO REPAIR INC	840 FULTON STREET	WNW 0 - 1/8 (0.100 mi.)	K70	170
PS 85	***510 CLERMONT AVENUE***	***W 1/8 - 1/4 (0.148 mi.)***	***V123***	***276***
THE TIME RECORD STORAGE CO.	***800 PACIFIC STREET***	***SW 1/8 - 1/4 (0.187 mi.)***	***Z138***	***317***
150 ST. JAMES PLACE	150 ST. JAMES PLACE	NNE 1/8 - 1/4 (0.202 mi.)	AC144	336
415 WASHINGTON AVENUE	***415 WASHINGTON AVE***	***N 1/8 - 1/4 (0.209 mi.)***	***AE150***	***343***
BNS BUILDINGS LLC	407-409 WASHINGTON AVEN	N 1/8 - 1/4 (0.226 mi.)	AE161	363
GRAND AVENUE REALTY	435 GRAND AVE	E 1/8 - 1/4 (0.234 mi.)	AI169	373

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 08/19/2013 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CINDERELLA CLEANERS	***248 FLATBUSH AVE***	***WSW 1/4 - 1/2 (0.489 mi.)***	***220***	***507***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 8 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
525 CLINTON AVENUE	***525 CLINTON AVENUE***	***WSW 0 - 1/8 (0.039 mi.)***	***C13***	***38***
FULVAN CORP	***846 FULTON STREET***	***WNW 0 - 1/8 (0.083 mi.)***	***K47***	***117***
TEEN CHALLENGE INC.	***444 CLINTON AVENUE***	***NNW 1/8 - 1/4 (0.147 mi.)***	***T121***	***271***
ST JOSEPH'S SRO RESIDENCE	***683 DEAN STREET***	***SSW 1/8 - 1/4 (0.219 mi.)***	***AG154***	***352***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BELL ATLANTIC	***547 CLINTON AVENUE***	***SW 0 - 1/8 (0.048 mi.)***	***E16***	***48***
524 VANDERBILT AVE,INC.	524 VANDERBILT AVE	SSW 1/8 - 1/4 (0.133 mi.)	S115	255
ADELPHI STATION	***950 FULTON STREET***	***E 1/8 - 1/4 (0.167 mi.)***	***Y132***	***307***
THE TIME RECORD STORAGE CO.	***800 PACIFIC STREET***	***SW 1/8 - 1/4 (0.187 mi.)***	***Z138***	***317***

EXECUTIVE SUMMARY

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 08/19/2013 has revealed that there are 25 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOIL Spill Number/Closed Date: 1008343 / 8/4/2011 Spill Number/Closed Date: 1008781 / 12/22/2010	487 CLINTON AVE	NW 0 - 1/8 (0.062 mi.)	G29	83
900 FULTON ST/BKLYN Spill Number/Closed Date: 9013121 / 5/25/1995	***900 FULTON STREET***	***WNW 0 - 1/8 (0.066 mi.)***	***G31***	***87***
COASTAL GAS STATION Spill Number/Closed Date: 9607997 / 7/1/2010	846 FULTON STREET	WNW 0 - 1/8 (0.083 mi.)	K46	114
MANHOLE # 289 Spill Number/Closed Date: 0505088 / 1/10/2006	WAVERLEY AVE AT GATES A	N 0 - 1/8 (0.092 mi.)	N56	132
MASTER CHEF WHOLESALE Spill Number/Closed Date: 1200600 / 4/20/2012	864 ATLANTIC AVE	S 0 - 1/8 (0.116 mi.)	Q96	204
STREET Spill Number/Closed Date: 0313115 / 6/23/2004	WAVERLY AND ATLANTIC AV	SSE 0 - 1/8 (0.121 mi.)	R98	207
MANHOLE # 2909 Spill Number/Closed Date: 0404641 / 10/7/2004	ATLANTIC AVE AND WAVERL	SSE 0 - 1/8 (0.121 mi.)	R99	208
MANHOLE 2909 Spill Number/Closed Date: 0503259 / 5/3/2007	ATLANTIC AVE/WAVERLY PL	SSE 0 - 1/8 (0.121 mi.)	R100	209

Lower Elevation	Address	Direction / Distance	Map ID	Page
510 WAVERLY AVE Spill Number/Closed Date: 9710289 / 1/2/1998 Spill Number/Closed Date: 9511079 / 11/21/1997	510 WAVERLY AVE	SE 0 - 1/8 (0.018 mi.)	A4	15
APARTMENT BUILDING Spill Number/Closed Date: 1106484 / 12/28/2011	***537 CLINTON AVE***	***SW 0 - 1/8 (0.041 mi.)***	***E15***	***45***
VAULT # 4724 Spill Number/Closed Date: 0408695 / 1/6/2005	***547 CLINTON AVE***	***SW 0 - 1/8 (0.048 mi.)***	***E18***	***57***
900 FULTON STREET Spill Number/Closed Date: 9210839 / 12/18/1992	900 FULTON STREET	E 0 - 1/8 (0.053 mi.)	F21	64
MANHOLE #2903 Spill Number/Closed Date: 0001846 / 6/16/2003	WASHINGTON & FULTON ST	E 0 - 1/8 (0.070 mi.)	F34	92
SPILL NUMBER 9911883 Spill Number/Closed Date: 9911883 / 3/5/2002	FULTON ST & WASHINGTON	E 0 - 1/8 (0.070 mi.)	F37	96
221814; FULTON ST Spill Number/Closed Date: 1008899 / 3/30/2011	FULTON ST	E 0 - 1/8 (0.084 mi.)	I49	122
511 VANDERBILT AV Spill Number/Closed Date: 9912177 / 7/5/2005	511 VANDERBILT AVE	W 0 - 1/8 (0.089 mi.)	M51	125
503 VANDERBILT AVE Spill Number/Closed Date: 9509830 / 2/6/2004	503 VANDERBILT AVE	W 0 - 1/8 (0.091 mi.)	M55	131
ATLANTIC TELECOM CENTER Spill Number/Closed Date: 9913613 / 12/31/2002 Spill Number/Closed Date: 9910950 / 12/31/2002 Spill Number/Closed Date: 9912247 / 12/31/2002 Spill Number/Closed Date: 9912266 / 12/31/2002	470 VANDERBILT AVE	WSW 0 - 1/8 (0.097 mi.)	M64	149

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
VMS	***470 VANDERBILT AVENUE***	***WSW 0 - 1/8 (0.097 mi.)***	***M66***	***155***
Spill Number/Closed Date: 9806994 / 9/22/1998				
MH 19778	FULTON ST/VANDERBUILT A	WNW 0 - 1/8 (0.107 mi.)	K82	188
Spill Number/Closed Date: 0010591 / 4/19/2001				
SPILL NUMBER 0205427	VANDERBILT AV/FULTON ST	WNW 0 - 1/8 (0.107 mi.)	K83	189
Spill Number/Closed Date: 0205427 / 8/23/2002				
177A ST JAMES PLACE/BKLYN	177A ST JAMES PLACE	NE 0 - 1/8 (0.111 mi.)	88	198
Spill Number/Closed Date: 9011934 / 5/25/1995				
CROSSTOWN REALTY	840 ATLANTIC AVE	SW 0 - 1/8 (0.121 mi.)	O104	224
Spill Number/Closed Date: 9714110 / 3/4/2010				
MANHOLE 1798	VANDERBILT AV/ATLANTIC	SW 0 - 1/8 (0.122 mi.)	S105	227
Spill Number/Closed Date: 9815159 / 6/6/2002				
MARTINEZ SERVICE STATION INC	***514-16 VANDERBILT AVE***	***SW 0 - 1/8 (0.123 mi.)***	***S111***	***245***
Spill Number/Closed Date: 0503961 / 7/7/2005				
Spill Number/Closed Date: 1104188 / 4/23/2012				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 07/11/2013 has revealed that there are 24 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
M M C GALE FRENCH CLEANERS INC	***856 FULTON ST***	***WNW 0 - 1/8 (0.055 mi.)***	***G24***	***66***
CON EDISON MANHOLE 69589	***VANDERBILT AVE & DEAN S***	***SSW 1/8 - 1/4 (0.223 mi.)***	***AH157***	***357***
CON EDISON MANHOLE 69598	***VANDERBILT AVE & DEAN S***	***SSW 1/8 - 1/4 (0.223 mi.)***	***AH158***	***360***
CONTINENTAL LATEX CORP	***645 DEAN ST***	***SW 1/8 - 1/4 (0.235 mi.)***	***170***	***375***
BROTHERS CLEANERS	***349 WAVERLY AVE***	***N 1/8 - 1/4 (0.241 mi.)***	***AM177***	***384***
SAIKA AUTO INTL INC	***980 ATLANTIC AVE***	***SE 1/8 - 1/4 (0.245 mi.)***	***AP189***	***427***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GUMBALL RUBBISH REMOVAL	510 WAVERLY AVE	SE 0 - 1/8 (0.018 mi.)	A3	14
BELL ATLANTIC	***547 CLINTON AVE***	***SW 0 - 1/8 (0.048 mi.)***	***E17***	***53***
CON ED - V 2903	WASHINGTON AVE & FULTONE	0 - 1/8 (0.070 mi.)	F36	95
REGGEV CONSTRUCTION	470 VANDERBILT AVE	WSW 0 - 1/8 (0.097 mi.)	M65	153
CON EDISON MANHOLE 2814	485 VANDERBILT AVE	WNW 0 - 1/8 (0.104 mi.)	K74	178
CON EDISON MANHOLE 2814	***485 VANDERBILT AVE & FU***	***WNW 0 - 1/8 (0.104 mi.)***	***K75***	***179***
NYC PKS & REC - GATEWAY TRIANG	FULTON ST & VANDERBILT	WNW 0 - 1/8 (0.107 mi.)	K80	185
CON EDISION - MH2814	***485 VANDERBILT AVE 485***	***WNW 0 - 1/8 (0.107 mi.)***	***K81***	***186***
CON EDISON MANHOLE 2814	***VANDERBILT AVE & FULTON***	***WNW 0 - 1/8 (0.107 mi.)***	***K84***	***190***
SUNOCO SERVICE STATION	***840 ATLANTIC AVE***	***SW 0 - 1/8 (0.121 mi.)***	***O102***	***213***
CITY GAS	***524 VANDERBUILT AVE***	***SSW 1/8 - 1/4 (0.133 mi.)***	***S116***	***258***
NYCTA - CLERMONT AVE SUBSTATIO	***FULTON ST & CLERMONT AV***	***WNW 1/8 - 1/4 (0.173 mi.)***	***135***	***312***
NYNEX-MANHOLE	***FULTON ST & CAMBRIDGE A***	***E 1/8 - 1/4 (0.184 mi.)***	***Y137***	***315***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON ED - M/H 2968	***FULTON ST & GRAND AVE***	***ESE 1/8 - 1/4 (0.241 mi.)***	***AL173***	***379***
CON ED - V 2968	GRAND ST & FULTON ST	ESE 1/8 - 1/4 (0.241 mi.)	AL174	381
CON ED MH 2968	***GRAND ST & FULTON ST***	***ESE 1/8 - 1/4 (0.241 mi.)***	***AL175***	***382***
CON EDISON MANHOLE 69588	FULTON ST & ADELPHI ST	WNW 1/8 - 1/4 (0.242 mi.)	182	412
AYDC INTERIM DEVELOPER LLC	754 PACIFIC ST	WSW 1/8 - 1/4 (0.245 mi.)	AO188	425

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2011 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NAVY BARRACKS BKLYN		NNW 1/2 - 1 (0.946 mi.)	223	525

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 08/01/2013 has revealed that there are 43 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
M M C GALE FRENCH CLEANERS INC	***856 FULTON ST***	***WNW 0 - 1/8 (0.055 mi.)***	***G24***	***66***
NYNEX	WAVERLY & GATES AVE	N 0 - 1/8 (0.092 mi.)	N57	134
CON EDISON	428 WAVERLY AVE	N 1/8 - 1/4 (0.146 mi.)	U120	270
CONSOLIDATED EDISON MH14817	ATLANTIC AVENUE AND UND	SE 1/8 - 1/4 (0.159 mi.)	W126	288
NYC BOARD OF EDUCATION	***419 WAVERLY AVENUE***	***N 1/8 - 1/4 (0.166 mi.)***	***U131***	***296***
VERIZON NEW YORK INC MANHOLE	***ATLANTIC AVE & ST JAMES***	***SE 1/8 - 1/4 (0.209 mi.)***	***AD149***	***342***
NYNEX	VANDERBILT AVE & DEAN S	SSW 1/8 - 1/4 (0.223 mi.)	AH156	357
CON EDISON MANHOLE 69589	***VANDERBILT AVE & DEAN S***	***SSW 1/8 - 1/4 (0.223 mi.)***	***AH157***	***357***
CON EDISON MANHOLE 69598	***VANDERBILT AVE & DEAN S***	***SSW 1/8 - 1/4 (0.223 mi.)***	***AH158***	***360***
CONSOLIDATED EDISON	DEAN & VANDERBILT	SSW 1/8 - 1/4 (0.224 mi.)	AH159	362
CONSOLIDATED EDISON MH14828	960 ATLANTIC AVENUE	SE 1/8 - 1/4 (0.233 mi.)	AD168	372
BROTHERS CLEANERS	***349 WAVERLY AVE***	***N 1/8 - 1/4 (0.241 mi.)***	***AM180***	***389***
SAIKA AUTO INTL INC	***980 ATLANTIC AVE***	***SE 1/8 - 1/4 (0.245 mi.)***	***AP189***	***427***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAULT # 4724	***547 CLINTON AVE***	***SW 0 - 1/8 (0.048 mi.)***	***E18***	***57***
CONSOLIDATED EDISON	506 WASHINGTON AVE	NE 0 - 1/8 (0.059 mi.)	H28	82
CONSOLIDATED EDISON	530 WASHINGTON AVE	E 0 - 1/8 (0.068 mi.)	F32	89
CONSOLIDATED EDISON	FULTON & WASHINGTON	E 0 - 1/8 (0.070 mi.)	F33	91
CONSOLIDATED EDISON	WASHINGTON AVENUE AND F	E 0 - 1/8 (0.070 mi.)	F35	93
CON EDISON	OPP 493 WASHINGTON AVE	ENE 0 - 1/8 (0.073 mi.)	H38	97
CONSOLIDATED EDISON	WASHINGTON AVE & FULTON	NE 0 - 1/8 (0.079 mi.)	H41	103
CON EDISON	544 WASHINGTON AVE	ESE 0 - 1/8 (0.079 mi.)	I42	110
MEGA CLEANERS	***916 FULTON ST***	***E 0 - 1/8 (0.092 mi.)***	***I60***	***135***
CON EDISON	475 WASHINGTON	NE 0 - 1/8 (0.094 mi.)	L61	147
REGGEV CONSTRUCTION	470 VANDERBILT AVE	WSW 0 - 1/8 (0.097 mi.)	M63	148
CON EDISON MANHOLE 2814	***485 VANDERBILT AVE & FU***	***WNW 0 - 1/8 (0.104 mi.)***	***K75***	***179***
CON EDISION - MH2814	***485 VANDERBILT AVE 485***	***WNW 0 - 1/8 (0.107 mi.)***	***K81***	***186***
CON EDISON MANHOLE 2814	***VANDERBILT AVE & FULTON***	***WNW 0 - 1/8 (0.107 mi.)***	***K84***	***190***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON	OPP 805 ATLANTIC AVE	SW 0 - 1/8 (0.115 mi.)	P94	202
CON EDISON	848 ATLANTIC AVE	SSW 0 - 1/8 (0.116 mi.)	O95	203
CONSOLIDATED EDISON	VANDERBILT AVE & ATLANT	SW 0 - 1/8 (0.122 mi.)	S106	228
MARTINEZ SERVICE STATION INC	***514-16 VANDERBILT AVE***	***SW 0 - 1/8 (0.123 mi.)***	***S111***	***245***
CON EDISON	OPP 580 WASHINGTON AVE	SE 1/8 - 1/4 (0.131 mi.)	113	254
NYC DEPT OF ED - PUBLIC SCHOOL	510 CLERMONT AVE	W 1/8 - 1/4 (0.148 mi.)	V122	275
CON EDISON	OPP 288 ST JAMES PLACE	ESE 1/8 - 1/4 (0.165 mi.)	X129	293
NYNEX-MANHOLE	***FULTON ST & CAMBRIDGE A***	***E 1/8 - 1/4 (0.184 mi.)***	***Y137***	***315***
THE TIME RECORD STORAGE CO.	***800 PACIFIC STREET***	***SW 1/8 - 1/4 (0.187 mi.)***	***Z138***	***317***
CON EDISON	444 GRAND AVE	E 1/8 - 1/4 (0.228 mi.)	AI162	365
CON EDISON	111 ST JAMES PL	NNE 1/8 - 1/4 (0.229 mi.)	164	367
CON ED - M/H 2968	***FULTON ST & GRAND AVE***	***ESE 1/8 - 1/4 (0.241 mi.)***	***AL173***	***379***
CON ED MH 2968	***GRAND ST & FULTON ST***	***ESE 1/8 - 1/4 (0.241 mi.)***	***AL175***	***382***
CONSOLIDATED EDISON	GRAND AVENUE AND GATES	ENE 1/8 - 1/4 (0.243 mi.)	185	418
AYDC INTERIM DEVELOPER LLC	754 PACIFIC ST	WSW 1/8 - 1/4 (0.245 mi.)	AO187	422
CON EDISON	752 PACIFIC	WSW 1/8 - 1/4 (0.248 mi.)	AO193	434

DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the DRYCLEANERS list, as provided by EDR, and dated 07/18/2013 has revealed that there are 4 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IMPERIAL/BUBBLE WORKS CLEANERS	856 FULTON STREET	WNW 0 - 1/8 (0.055 mi.)	G23	65
A & J FRENCH CLEANERS	585 VANDERBILT AVENUE	SSW 1/8 - 1/4 (0.225 mi.)	AG160	363
BROTHERS CLEANERS	349 WAVERLY AVENUE	N 1/8 - 1/4 (0.241 mi.)	AM178	388

Lower Elevation	Address	Direction / Distance	Map ID	Page
MEGA CLEANERS	916 FULTON STREET	E 0 - 1/8 (0.092 mi.)	I59	135

E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the E DESIGNATION list, as provided by EDR, and dated 06/17/2013 has revealed that there are 15 E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 27,TAXBLOCK 2012	884 FULTON STREET	NE 0 - 1/8 (0.017 mi.)	A2	11
LOT 71,TAXBLOCK 2012	849 ATLANTIC AVENUE	SSE 0 - 1/8 (0.121 mi.)	R101	210
LOT 70,TAXBLOCK 2012	851 ATLANTIC AVENUE	SSE 0 - 1/8 (0.123 mi.)	R108	230

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 10,TAXBLOCK 2012	517 WAVERLY AVENUE	SE 0 - 1/8 (0.023 mi.)	A6	19
LOT 1,TAXBLOCK 1978	***937 FULTON STREET***	***ENE 0 - 1/8 (0.025 mi.)***	***B8***	***25***
LOT 32,TAXBLOCK 2012	894 FULTON STREET	E 0 - 1/8 (0.038 mi.)	B12	35
LOT 1,TAXBLOCK 2011	549 CLINTON AVENUE	SW 0 - 1/8 (0.049 mi.)	E20	61
LOT 1,TAXBLOCK 2012	551 WAVERLY AVENUE	SSE 0 - 1/8 (0.059 mi.)	D26	78
LOT 232,TAXBLOCK 2012	538 WASHINGTON AVENUE	ESE 0 - 1/8 (0.077 mi.)	I40	100
LOT 18,TAXBLOCK 2010	507 VANDERBILT AVENUE	W 0 - 1/8 (0.090 mi.)	M52	126
LOT 19,TAXBLOCK 2010	505 VANDERBILT AVENUE	W 0 - 1/8 (0.091 mi.)	M53	128

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 20,TAXBLOCK 2010	503 VANDERBILT AVENUE	W 0 - 1/8 (0.091 mi.)	M54	130
LOT 25,TAXBLOCK 2010	840 FULTON STREET	WNW 0 - 1/8 (0.100 mi.)	K68	167
LOT 1,TAXBLOCK 2010	539 VANDERBILT AVENUE	SW 0 - 1/8 (0.106 mi.)	P79	181
LOT 59,TAXBLOCK 2010	809 ATLANTIC AVENUE	SW 0 - 1/8 (0.111 mi.)	O87	195

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 24 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	846 FULTON ST	WNW 0 - 1/8 (0.083 mi.)	K48	122
Not reported	858 ATLANTIC AVE	SSW 0 - 1/8 (0.115 mi.)	Q90	199
Not reported	860 ATLANTIC AVE	S 0 - 1/8 (0.115 mi.)	Q93	201
Not reported	890 ATLANTIC AVE	SSE 1/8 - 1/4 (0.140 mi.)	R119	270
Not reported	914 ATLANTIC AVE	SSE 1/8 - 1/4 (0.167 mi.)	W133	310
Not reported	538 VANDERBILT AVE	SSW 1/8 - 1/4 (0.192 mi.)	AA140	331
Not reported	542 VANDERBILT AVE	SSW 1/8 - 1/4 (0.202 mi.)	AA146	341
Not reported	544 VANDERBILT AVE	SSW 1/8 - 1/4 (0.207 mi.)	AA148	342
Not reported	587 VANDERBILT AVE	SSW 1/8 - 1/4 (0.231 mi.)	AH166	370
Not reported	904 PACIFIC ST	SSE 1/8 - 1/4 (0.236 mi.)	AK171	377
Not reported	908 PACIFIC ST	SSE 1/8 - 1/4 (0.242 mi.)	AK181	412
Not reported	980 ATLANTIC AVE	SE 1/8 - 1/4 (0.245 mi.)	AP190	431

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	542 CLINTON AVE	SW 0 - 1/8 (0.048 mi.)	E19	60
Not reported	840 FULTON ST	WNW 0 - 1/8 (0.100 mi.)	K69	170
Not reported	825 ATLANTIC AVE	SSW 0 - 1/8 (0.103 mi.)	J71	172
Not reported	821 ATLANTIC AVE	SSW 0 - 1/8 (0.104 mi.)	J73	177
Not reported	817 ATLANTIC AVE	SSW 0 - 1/8 (0.105 mi.)	O76	180
Not reported	838 FULTON ST	WNW 0 - 1/8 (0.105 mi.)	K77	180
Not reported	887 FULTON ST	WNW 0 - 1/8 (0.106 mi.)	K78	181
Not reported	811 ATLANTIC AVE	SW 0 - 1/8 (0.109 mi.)	O85	192
Not reported	854 ATLANTIC AVE	SSW 0 - 1/8 (0.114 mi.)	O89	199
Not reported	852 ATLANTIC AVE	SSW 0 - 1/8 (0.115 mi.)	O91	200
Not reported	514 VANDERBILT AVE	SW 0 - 1/8 (0.123 mi.)	S109	234
Not reported	524 VANDERBILT AVE	SSW 1/8 - 1/4 (0.133 mi.)	S114	255

EXECUTIVE SUMMARY

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 14 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	528 CLINTON AVE	WSW 0 - 1/8 (0.040 mi.)	C14	45
Not reported	856 FULTON ST	WNW 0 - 1/8 (0.055 mi.)	G22	65
Not reported	851 ATLANTIC AVE	SSE 0 - 1/8 (0.123 mi.)	R107	230
Not reported	558 VANDERBILT AVE	SSW 1/8 - 1/4 (0.240 mi.)	AH172	378
Not reported	349 WAVERLY AVE	N 1/8 - 1/4 (0.241 mi.)	AM176	384
Not reported	353 WAVERLY AVE	N 1/8 - 1/4 (0.241 mi.)	AM179	389
Not reported	141 GREENE AVE	N 1/8 - 1/4 (0.245 mi.)	AM192	433

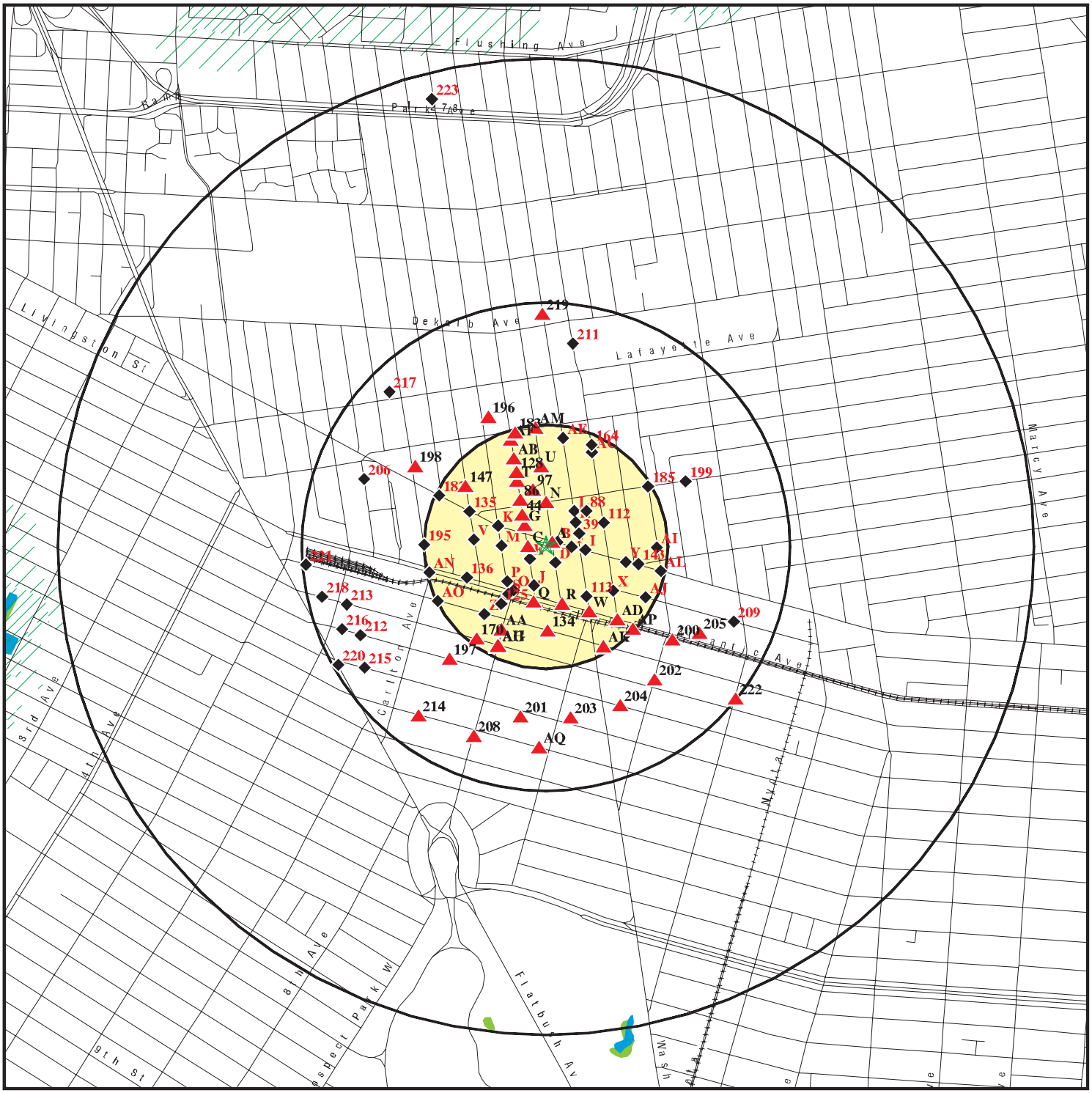
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	961 FULTON ST	E 0 - 1/8 (0.081 mi.)	I43	111
Not reported	583 CLINTON AVE	SSW 0 - 1/8 (0.083 mi.)	J45	113
Not reported	916 FULTON ST	E 0 - 1/8 (0.092 mi.)	I58	134
Not reported	592 CLINTON AVE	SSW 0 - 1/8 (0.094 mi.)	J62	148
Not reported	286 SAINT JAMES PL	ESE 1/8 - 1/4 (0.164 mi.)	X127	289
Not reported	1 PUTNAM AVE	E 1/8 - 1/4 (0.193 mi.)	143	336
Not reported	31 LEFFERTS PL	ESE 1/8 - 1/4 (0.229 mi.)	AJ163	366

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
BELL ATLANTIC-NY	MANIFEST
GREAT LAKES DREDGE & DOCK	RCRA-NLR,MANIFEST
LONG ISLAND RAILROAD	FINDS,RCRA-NLR,MANIFEST
CONSOLIDATED EDISON	MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
CONSOLIDATED EDISON	MANIFEST
CON EDISON	MANIFEST
NYNEX	RCRA-NLR,MANIFEST
NYNEX	RCRA-NLR,MANIFEST
NYC BOARD OF EDUCATION PS 369 BKLY	FINDS,MANIFEST,RCRA-NLR
NYCTA	FINDS,RCRA-NLR,MANIFEST
BROOKLYN WHITE LEAD CO	CERCLIS-NFRAP
BAYRIDGE MAINTENANCE CORP	FINDS,RCRA-NLR
MTA NYCT - MONTAGUE ST TUNNEL M N	FINDS,RCRA-NLR
BELL ATLANTIC-NY	RCRA-NLR
BELL ATLANTIC-NY	RCRA-NLR
BETW/AVE X &	SPILLS
ROADWAY	SPILLS
KINGS HIGHWAY MOBIL	SPILLS
205842; KINGS HWY	SPILLS

OVERVIEW MAP - 3736798.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: White Memorial Chapels	CLIENT: DVD Environmental
ADDRESS: 882 Fulton Street Brooklyn NY 11238	CONTACT: Tim Donohoe
LAT/LONG: 40.6831 / 73.9661	INQUIRY #: 3736798.2s
	DATE: September 23, 2013 5:42 pm

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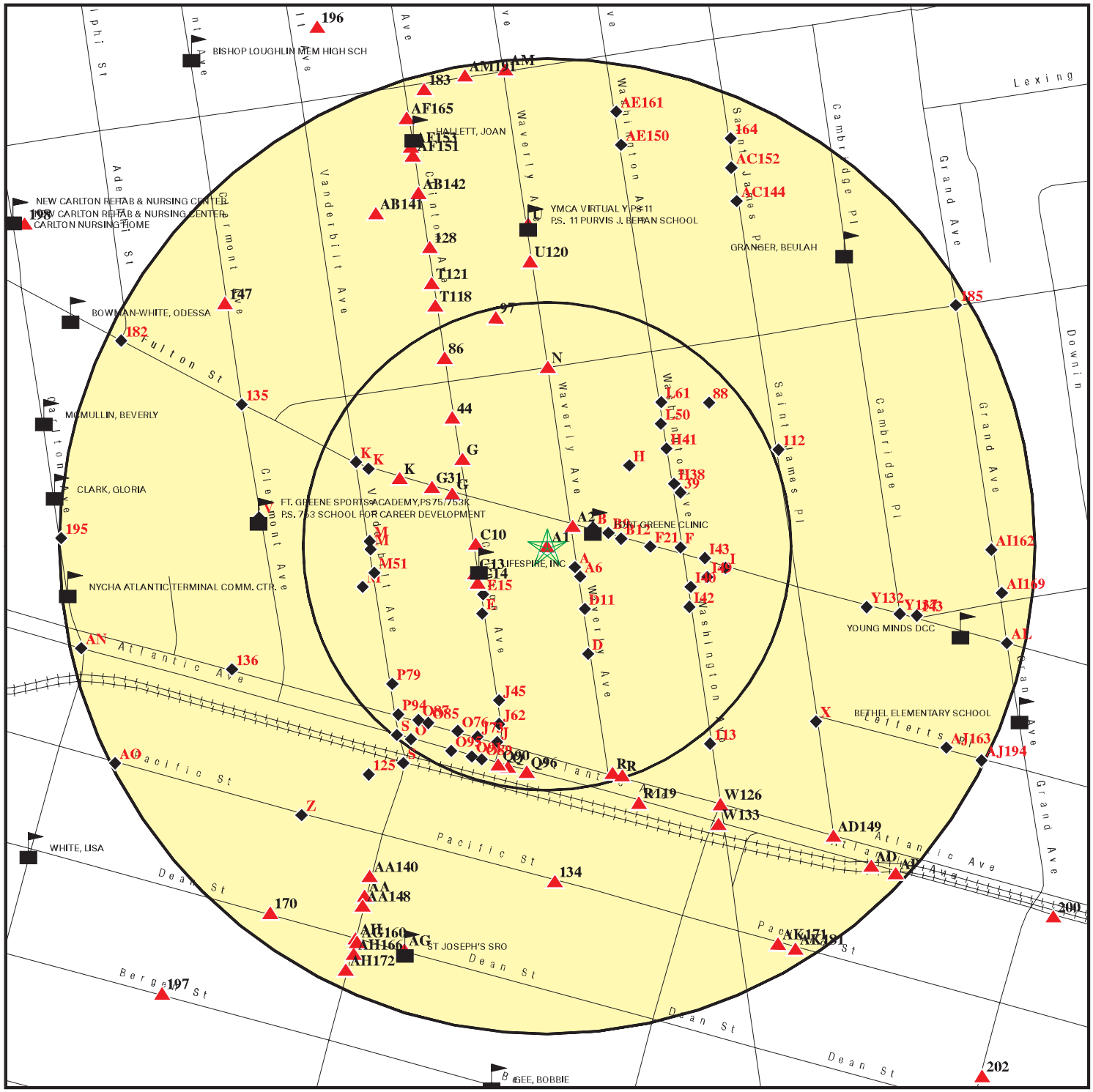
DETAIL MAP - 3736798.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: White Memorial Chapels	CLIENT: DVD Environmental
ADDRESS: 882 Fulton Street Brooklyn NY 11238	CONTACT: Tim Donohoe
LAT/LONG: 40.6831 / 73.9661	INQUIRY #: 3736798.2s
	DATE: September 23, 2013 5:46 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	4	NR	NR	NR	5
RCRA-SQG	0.250		1	2	NR	NR	NR	3
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		1	0	2	NR	NR	3
State and tribal leaking storage tank lists								
LTANKS	0.500		5	10	23	NR	NR	38
HIST LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
TANKS	0.250		1	0	NR	NR	NR	1
UST	0.250		9	7	NR	NR	NR	16
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
AST	0.250		13	15	NR	NR	NR	28
CBS AST	0.250		0	0	NR	NR	NR	0
MOSF AST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
CBS	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
ERP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		3	5	NR	NR	NR	8
HIST AST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		25	NR	NR	NR	NR	25
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
SPILLS 90	0.125		0	NR	NR	NR	NR	0
SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		11	13	NR	NR	NR	24
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	1	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
HSWDS	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		20	23	NR	NR	NR	43
DRYCLEANERS	0.250		2	2	NR	NR	NR	4
SPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
E DESIGNATION	0.125	1	15	NR	NR	NR	NR	16
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		14	10	NR	NR	NR	24
EDR US Hist Cleaners	0.250		7	7	NR	NR	NR	14

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property	**LOT 30,TAXBLOCK 2011 882 FULTON STREET BROOKLYN, NY 11238**	**E DESIGNATION**	**S108984046 N/A**

Site 1 of 6 in cluster A

Actual: 78 ft.

E DESIGNATION:

Tax Lot(s):	30
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3002
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	M1-1
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	M1-1
Split Boundary Indicator:	Y
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	WHITE MEMORIAL CHAPEL
Lot Area:	000011333
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	4
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0105.83
Lot Depth:	0107.08
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3

LOT 30,TAXBLOCK 2011 (Continued) **S108984046**

Basement Type Grade:	5
Land Assessed Value:	00000103500
Total Assessed Value:	00000103500
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020110030
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993644
Y Coordinate:	0188136
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	30
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3002
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	M1-1
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6

LOT 30,TAXBLOCK 2011 (Continued) **S108984046**

All Components2:	M1-1
Split Boundary Indicator:	Y
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	WHITE MEMORIAL CHAPEL
Lot Area:	000011333
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	4
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0105.83
Lot Depth:	0107.08
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000103500
Total Assessed Value:	00000103500
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020110030
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993644
Y Coordinate:	0188136
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 30,TAXBLOCK 2011 (Continued) **S108984046**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

A2
NE
< 1/8
0.017 mi.
89 ft.

LOT 27,TAXBLOCK 2012
884 FULTON STREET
BROOKLYN, NY 11238

Site 2 of 6 in cluster A

E DESIGNATION **S108984037**
N/A

Relative:
Higher

Actual:
78 ft.

E DESIGNATION:

Tax Lot(s):	27
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	S2
Land Use Category:	04
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	FULTON PARTNERS LLC
Lot Area:	000003766
Total Building Floor Area:	00000003363
Commercial Floor Area:	00000001121
Office Floor Area:	00000000000
Retail Floor Area:	00000001121
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00003
Number of Floors:	003.00
Residential Units:	00002
Non and Residential Units:	00003
Lot Frontage:	0041.33
Lot Depth:	0101.50

LOT 27,TAXBLOCK 2012 (Continued) **S108984037**

Building Frontage:	0020.33
Building Depth:	0040.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000003156
Total Assessed Value:	00000012420
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.89
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020120027
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993778
Y Coordinate:	0188105
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	27
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported

LOT 27,TAXBLOCK 2012 (Continued) **S108984037**

Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	S2
Land Use Category:	04
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	FULTON PARTNERS LLC
Lot Area:	000003766
Total Building Floor Area:	00000003363
Commercial Floor Area:	00000001121
Office Floor Area:	00000000000
Retail Floor Area:	00000001121
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00003
Number of Floors:	003.00
Residential Units:	00002
Non and Residential Units:	00003
Lot Frontage:	0041.33
Lot Depth:	0101.50
Building Frontage:	0020.33
Building Depth:	0040.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000003156
Total Assessed Value:	00000012420
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.89
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020120027
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993778
Y Coordinate:	0188105
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005

LOT 27,TAXBLOCK 2012 (Continued) **S108984037**

Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

A3 **GUMBALL RUBBISH REMOVAL** **RCRA NonGen / NLR** **1008404484**
SE **510 WAVERLY AVE** **NYR000134817**
< 1/8 **BROOKLYN, NY 11238**
0.018 mi.
94 ft. **Site 3 of 6 in cluster A**

Relative:
Lower

Actual:
77 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	GUMBALL RUBBISH REMOVAL
Facility address:	510 WAVERLY AVE BROOKLYN, NY 11238
EPA ID:	NYR000134817
Mailing address:	WAVERLY AVE BROOKLYN, NY 11238
Contact:	ROBERT EDWARDS
Contact address:	WAVERLY AVE BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	(646) 423-0404
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	A-1 PROPERTIES
Owner/operator address:	PMB 134 BROOKLYN, NY 11211
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/29/2001
Owner/Op end date:	Not reported
Owner/operator name:	NO NAME FOUND
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	11/01/2003
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

GUMBALL RUBBISH REMOVAL (Continued) **1008404484**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	Yes

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	GUMBALL RUBBISH REMOVAL
Classification:	Not a generator, verified
Date form received by agency:	09/30/2005
Facility name:	GUMBALL RUBBISH REMOVAL
Classification:	Large Quantity Generator
Violation Status:	No violations found

A4 **510 WAVERLY AVE** **NY Spills** **S102238366**
SE **510 WAVERLY AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.018 mi.
94 ft. **Site 4 of 6 in cluster A**

Relative:
Lower

Actual:
77 ft.

SPILLS:

Facility ID:	9710289
DER Facility ID:	70613
Facility Type:	ER
Site ID:	75440
DEC Region:	2
Spill Date:	12/8/1997
Spill Number/Closed Date:	9710289 / 1/2/1998
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	12/8/1997
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/8/1997
Spill Record Last Update:	7/3/2000

510 WAVERLY AVE (Continued) **S102238366**

Spiller Name:	TIM SOILCH
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	MANHATTAN, NY 10003
Spiller Company:	001
Contact Name:	BILL MURRAY
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"12/8/97, 5:04PM - spoke with Stan Piszczatowski, Con Ed ERT - 20 gallons of oil in sump. Sump was operational but sump pump was not operational. Historical records indicate PCB levels of 112 ppm maximum. The transformer was tested and found to be tight - oil was not from the transformer. Looks like motor oil. Sample collected for PCB analysis and fingerprinting.Mr. Campbell (Con Ed Underground Transmissions) reported that float switch on sump pump was broken, and that no oil was found in the sump pump trap and none in adjacent sewer. There is evidence of oil on the grating above the vault and oil staining on the walls of the sump. Possible case of illegal dumping of used motor oil. Awaiting lab results before cleaning the vault.12/9/97, 8:45Am - Stan P. called with analysis results. PCb <1 ppm, oil ID'd as lubricating oil.
Remarks:	US COAST GUARD WAS NOTIFIED BY NAT'L RESPONSE CTR REQ SPILL ATCON ED SITE-VACUMM TRUCK ON SITE FOR CLEAN UP.

Material:

Site ID:	75440
Operable Unit ID:	1053316
Operable Unit:	01
Material ID:	328598
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9511079
DER Facility ID:	70613
Facility Type:	ER
Site ID:	75439
DEC Region:	2
Spill Date:	12/4/1995
Spill Number/Closed Date:	9511079 / 11/21/1997
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	12/4/1995
CID:	205

510 WAVERLY AVE (Continued) **S102238366**

Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/4/1995
Spill Record Last Update:	11/21/1997
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	TIM SOLICH
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Remarks:	OIL FOUND IN SUMP PUMP AT CON ED SITE.

Material:

Site ID:	75439
Operable Unit ID:	1025419
Operable Unit:	01
Material ID:	358434
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4
Units:	Gallons
Recovered:	4
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A5 **ACHIEVEMENT FIRST CHARTER SCHOOL** **AST** **U004118633**
SE **510 WAVERLY AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.018 mi.
94 ft. **Site 5 of 6 in cluster A**

Relative:
Lower

Actual:
77 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-610793
Program Type:	PBS
UTM X:	587387.60722999997
UTM Y:	4504075.0861200001
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

ACHIEVEMENT FIRST CHARTER SCHOOL (Continued) **U004118633**

Site Id:	395105
Affiliation Type:	Mail Contact
Company Name:	CIVIC BUILDERS
Contact Type:	Not reported
Contact Name:	FAYE PREMER
Address1:	304 HUDSON STREET
Address2:	3RD FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(212) 571-7260
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2008

Site Id:	395105
Affiliation Type:	On-Site Operator
Company Name:	ACHIEVEMENT FIRST CHARTER SCHOOL
Contact Type:	Not reported
Contact Name:	CIVIC BUILDERS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 476-3695
EMail:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	3/18/2008

Site Id:	395105
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
Contact Type:	Not reported
Contact Name:	ANNIE TIRSCHWELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 476-3695
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/25/2008

Site Id:	395105
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
Contact Type:	VP REAL ESTATE, CIVIC BUILDERS
Contact Name:	ANNIE TIRSCHWELL
Address1:	30-30 THOMSON

ACHIEVEMENT FIRST CHARTER SCHOOL (Continued) **U004118633**

Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 472-8501
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/25/2008

Tank Info:

Tank Number:	001
Tank Id:	222086
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
J00 - Dispenser - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
K99 - Spill Prevention - Other

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/10/1960
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	10/17/2008
Register:	True
Modified By:	NRLOMBAR
Last Modified:	11/17/2008
Material Name:	#6 Fuel Oil (On-Site Consumption)

A6 **LOT 10,TAXBLOCK 2012** **E DESIGNATION** **S108984004**
SE **517 WAVERLY AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.023 mi.
121 ft. **Site 6 of 6 in cluster A**

Relative:
Lower

Actual:
77 ft.

E DESIGNATION:

Tax Lot(s):	10
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported

LOT 10,TAXBLOCK 2012 (Continued) **S108984004**

Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	R6
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	C2-3/R6
Split Boundary Indicator:	Y
Building Class:	F9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	WILLIAMS, KAREN A
Lot Area:	000025135
Total Building Floor Area:	00000026540
Commercial Floor Area:	00000026540
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000026540
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	002.00
Residential Units:	00000
Non and Residential Units:	00002
Lot Frontage:	0226.83
Lot Depth:	0100.00
Building Frontage:	0100.00
Building Depth:	0092.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000132750
Total Assessed Value:	00000399600
Land Exempt Value:	00000000000
Total Exempt Value:	00000224100
Year Built:	1930
Year Built Code:	E
Year Altered1:	2000
Year Altered2:	0000

LOT 10,TAXBLOCK 2012 (Continued) **S108984004**

Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.06
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120010
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993832
Y Coordinate:	0187964
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	10
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	R6
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	C2-3/R6
Split Boundary Indicator:	Y
Building Class:	F9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	WILLIAMS, KAREN A
Lot Area:	000025135
Total Building Floor Area:	00000026540

LOT 10,TAXBLOCK 2012 (Continued) **S108984004**

Commercial Floor Area:	00000026540
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000026540
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	002.00
Residential Units:	00000
Non and Residential Units:	00002
Lot Frontage:	0226.83
Lot Depth:	0100.00
Building Frontage:	0100.00
Building Depth:	0092.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000132750
Total Assessed Value:	00000399600
Land Exempt Value:	00000000000
Total Exempt Value:	00000224100
Year Built:	1930
Year Built Code:	E
Year Altered1:	2000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.06
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120010
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993832
Y Coordinate:	0187964
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

B7 ENE < 1/8 0.025 mi. 134 ft. | **AFFILIATED SERVICES & RESOURCES CORP.** | **UST** | **U004107534**
937 FULTON STREET | **N/A**
BROOKLYN, NY 11238

Site 1 of 4 in cluster B

Relative: Lower

Actual: 77 ft.

UST:

Id/Status:	2-610601 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2014/07/26
UTM X:	587411.22823000001
UTM Y:	4504111.2823900003
Site Type:	Other

Affiliation Records:

Site Id:	383623
Affiliation Type:	Facility Owner
Company Name:	ADDICTION RESEARCH & TREATMENT CO.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	22 CHAPEL STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 260-2900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/24/2012

Site Id:	383623
Affiliation Type:	Mail Contact
Company Name:	ADDICTION RESEARCH & TREATMENT CO.
Contact Type:	Not reported
Contact Name:	LAUDRICK DALZELL
Address1:	22 CHAPEL STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 260-2900
EMail:	DWRIGHT@ARTCNY.ORG
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/24/2012

Site Id:	383623
Affiliation Type:	On-Site Operator
Company Name:	ADDICTION RESEARCH & TREATMENT CORPORATION
Contact Type:	Not reported
Contact Name:	STEVE ALEXANDER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

AFFILIATED SERVICES & RESOURCES CORP. (Continued) **U004107534**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 789-1212
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/28/2007

Site Id:	383623
Affiliation Type:	Emergency Contact
Company Name:	ADDICTION RESEARCH & TREATMENT CO.
Contact Type:	Not reported
Contact Name:	DOBORAH A. WRIGHT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 260-2900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/28/2007

Tank Info:

Tank Number:	001
Tank ID:	218051
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2000
Install Date:	01/03/1930
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	07/19/2008
Next Test Date:	07/19/2013
Pipe Model:	Not reported
Modified By:	MXAJOKU
Last Modified:	09/26/2008

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L00 - Piping Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G03 - Tank Secondary Containment - Vault (w/o access)

AFFILIATED SERVICES & RESOURCES CORP. (Continued) **U004107534**

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

B8
ENE
< 1/8
0.025 mi.
134 ft.

LOT 1,TAXBLOCK 1978
937 FULTON STREET
BROOKLYN, NY 11238

Site 2 of 4 in cluster B

LTANKS **S108983995**
E DESIGNATION **N/A**

Relative:
Lower

Actual:
77 ft.

LTANKS:

Site ID:	382178
Spill Number/Closed Date:	0702450 / 10/28/2009
Spill Date:	5/29/2007
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	5/29/2007
CID:	410
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/29/2007
Spill Record Last Update:	10/28/2009
Spiller Name:	MARLIN JOSEPH
Spiller Company:	COMMERCIAL SITE / REHAB C
Spiller Address:	937 FULTON STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	MARLIN JOSEPH
Spiller Phone:	(718) 624-4842
Spiller Extention:	112
DEC Region:	2
DER Facility ID:	331605
DEC Memo:	05/30/07-Vought-Off hours responder. Dry portion leak. Spill assigned to DEC Falvey due to tank test failure.6/14/07 Called ARTC (718)260-2933. I was told that Kurt Burns is the person I need to speak to re: tank failure. ph:(718)260-2912. Secretary took message for him to call me. sent ttf letter to:Kurt BurnsARTC22 Chapel St.Brooklyn, NY 11201Possoibly no PBS registration for this facility. Did search of data base for 937 Fulton and no hits. bf6/28/07 On 6/26/07, received fax from Mark Salamack of Petroleum Tank Cleaners (PTC) sdtating that he is waiting for a sidewalk permit to access the tank and find the problem. He will advise me when the problem is identified. bf09/26/08: Tank passed tightness test after re-test. TTT processed. (MA)12/22/08 Received letter from PTC requesting closure of spill. Tank failed test because of fill and stick lines. Both lines were replaced. Contaminated soil was encountered. bf 10/28/09 Sampling reults had one exceedance of recommended soilcleanup objectives to protect gw quality: chrysene @ 508 ug/l. Recommended

LOT 1,TAXBLOCK 1978 (Continued) **S108983995**

clean-up objective for chrysene is 400 ug/l. bf
Remarks: DRY PORTION LEAK

Material:
Site ID: 382178
Operable Unit ID: 1139583
Operable Unit: 01
Material ID: 2129625
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 382178
Spill Tank Test: 1550878
Tank Number: 1
Tank Size: 3000
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Watchdog
Last Modified: 5/29/2007
Test Method: Horner EZ Check I or II

E DESIGNATION:
Tax Lot(s): 1
E-No: E-183
Effective Date: 7/25/2007
Satisfaction Date: Not reported
Ceqr Number: 07DCP066K
Ulurp Number: 070430ZMK
Zoning Map No: 16c
Description: Window Wall Attenuation & Alternate Ventilation
Borough Code: BK
Community District: 302
Census Tract: 199
Census Block: 3000
School District: 13
City Council District: 35
Fire Company: E210
Health Area: 36
Police Precinct: 088
Zone District 1: R6
Zone District 2: Not reported
Commercial Overlay1: Not reported
Commercial Overlay2: Not reported
Special Purpose District1: Not reported
Special Purpose District2: Not reported
All Components1: R6

LOT 1,TAXBLOCK 1978 (Continued) **S108983995**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	O9
Land Use Category:	05
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	AFFILIATED SERV & RES
Lot Area:	000012800
Total Building Floor Area:	00000027450
Commercial Floor Area:	00000027450
Office Floor Area:	00000027450
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	003.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0111.42
Lot Depth:	0075.00
Building Frontage:	0111.42
Building Depth:	0075.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000077850
Total Assessed Value:	00000621000
Land Exempt Value:	00000077850
Total Exempt Value:	00000621000
Year Built:	1930
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0002.14
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3019780001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993782
Y Coordinate:	0188303
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30703
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 1,TAXBLOCK 1978 (Continued) **S108983995**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

B9 **941 FULTON STREET** **AST** **A100183017**
ENE **941 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.032 mi.
170 ft. **Site 3 of 4 in cluster B**

Relative:
Lower

Actual:
77 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-603334
Program Type: PBS
UTM X: 587439.55734000006
UTM Y: 4504089.6185999997
Expiration Date: 2016/07/17
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 25254
Affiliation Type: Facility Owner
Company Name: FULTON HARBOR REALTY, LLC
Contact Type: MANAGING MEMBER
Contact Name: LEON GOLDENBERG
Address1: 1360 EAST 14TH STREET #101
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11230
Country Code: 001
Phone: (718) 972-1800
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 7/18/2006

Site Id: 25254
Affiliation Type: Mail Contact
Company Name: GOLDMONT REALTY CORP.
Contact Type: Not reported
Contact Name: LEON GOLDENBERG
Address1: 1360 EAST 14TH STREET
Address2: #101
City: BROOKLYN
State: NY
Zip Code: 11230
Country Code: 001
Phone: (718) 972-1800
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 25254
Affiliation Type: On-Site Operator

941 FULTON STREET (Continued) **A100183017**

Company Name:	941 FULTON STREET
Contact Type:	Not reported
Contact Name:	DESMOND EVELYN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 857-0300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25254
Affiliation Type:	Emergency Contact
Company Name:	FULTON HARBOR REALTY, LLC
Contact Type:	Not reported
Contact Name:	POSITIVE HEATING
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 629-4000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	7/18/2006

Tank Info:

Tank Number:	001
Tank Id:	53880
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I01 - Overfill - Float Vent Valve
G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported

941 FULTON STREET (Continued) **A100183017**

Install Date:	10/12/1982
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	05/03/2011
Material Name:	#2 Fuel Oil (On-Site Consumption)

C10 West < 1/8 0.037 mi. 193 ft. **L.T. PROPERTIES LLC** **AST** **U004078581**
515 CLINTON AVENUE **N/A**
BROOKLYN, NY 11238

Site 1 of 3 in cluster C

Relative: Higher

Actual: 79 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609144
Program Type:	PBS
UTM X:	587317.18892999995
UTM Y:	4504072.9839300001
Expiration Date:	2013/07/24
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	30990
Affiliation Type:	Facility Owner
Company Name:	L.T. PROPERTIES LLC
Contact Type:	MEMBER
Contact Name:	DANIEL REIFER
Address1:	130 WEST 70TH ST 1G
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10023
Country Code:	001
Phone:	(212) 580-2305
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/6/2009

Site Id:	30990
Affiliation Type:	Mail Contact
Company Name:	L.T. PROPERTIES LLC
Contact Type:	MEMBER
Contact Name:	DANIEL REIFER
Address1:	130 WEST 70TH ST 1G
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10023
Country Code:	001
Phone:	(212) 580-2305

L.T. PROPERTIES LLC (Continued) **U004078581**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/6/2009

Site Id:	30990
Affiliation Type:	On-Site Operator
Company Name:	L.T. PROPERTIES LLC
Contact Type:	Not reported
Contact Name:	BENEDICT CUFFY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 250-8329
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/6/2009

Site Id:	30990
Affiliation Type:	Emergency Contact
Company Name:	L.T. PROPERTIES LLC
Contact Type:	Not reported
Contact Name:	DANIEL REIFER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 580-2305
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	66580
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

K00 - Spill Prevention - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B05 - Tank External Protection - Jacketed
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None

L.T. PROPERTIES LLC (Continued) **U004078581**

I00 - Overfill - None
G03 - Tank Secondary Containment - Vault (w/o access)
F00 - Pipe External Protection - None

Tank Location:	6
Tank Type:	Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1925
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	03/06/2009
Material Name:	#2 Fuel Oil (On-Site Consumption)

D11 **WAVERLY AVE** **UST** **U004048726**
SSE **531-557 WAVERLY AVE** **N/A**
< 1/8 **BROOKLYN, NY 11230**
0.038 mi.
198 ft. **Site 1 of 3 in cluster D**

Relative:
Lower

Actual:
76 ft.

UST:

Id/Status:	2-607918 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587410.50098000001
UTM Y:	4504007.9128099997
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	29770
Affiliation Type:	Facility Owner
Company Name:	HUY PACIFIC REALTY LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1318 AVE J
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11230
Country Code:	001
Phone:	(718) 388-4031
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	29770
Affiliation Type:	Mail Contact
Company Name:	ASSOCIATED ENVIRONMENTAL SERVICES LTD
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	P.O. BOX 695

WAVERLY AVE (Continued) **U004048726**

Address2:	Not reported
City:	SHOREHAM
State:	NY
Zip Code:	11786
Country Code:	001
Phone:	(631) 744-8900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	29770
Affiliation Type:	On-Site Operator
Company Name:	WAVERLY AVE
Contact Type:	Not reported
Contact Name:	HUY PACIFIC REALTY LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-4031
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	29770
Affiliation Type:	Emergency Contact
Company Name:	HUY PACIFIC REALTY LLC
Contact Type:	Not reported
Contact Name:	HUY PACIFIC REALTY LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-4031
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	1
Tank ID:	63841
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

WAVERLY AVE (Continued) **U004048726**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel

Tank Number: 2
Tank ID: 63842
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/2002
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel

Tank Number: 3
Tank ID: 63843
Tank Status: Closed - In Place
Material Name: Closed - In Place

WAVERLY AVE (Continued) **U004048726**

Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel

B12 **LOT 32,TAXBLOCK 2012** **E DESIGNATION** **S108984052**
East **894 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.038 mi.
201 ft. **Site 4 of 4 in cluster B**

Relative:
Lower

Actual:
77 ft.

E DESIGNATION:

Tax Lot(s):	32
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	M1-1
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6

LOT 32,TAXBLOCK 2012 (Continued) **S108984052**

All Components2:	M1-1
Split Boundary Indicator:	Y
Building Class:	G1
Land Use Category:	10
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	DIANA REALTY LLC
Lot Area:	000009655
Total Building Floor Area:	00000013500
Commercial Floor Area:	00000013500
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000013500
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	002.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0108.00
Lot Depth:	0172.92
Building Frontage:	0029.00
Building Depth:	0132.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000057600
Total Assessed Value:	00000094050
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.40
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020120032
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993904
Y Coordinate:	0188047
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 32,TAXBLOCK 2012 (Continued) **S108984052**

Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	32
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	M1-1
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	M1-1
Split Boundary Indicator:	Y
Building Class:	G1
Land Use Category:	10
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	DIANA REALTY LLC
Lot Area:	000009655
Total Building Floor Area:	00000013500
Commercial Floor Area:	00000013500
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000013500
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	002.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0108.00
Lot Depth:	0172.92
Building Frontage:	0029.00
Building Depth:	0132.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5

LOT 32,TAXBLOCK 2012 (Continued) **S108984052**

Land Assessed Value:	00000057600
Total Assessed Value:	00000094050
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.40
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020120032
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993904
Y Coordinate:	0188047
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C13 **525 CLINTON AVENUE** **UST** **U003074465**
WSW **525 CLINTON AVENUE** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11238** **AST**
0.039 mi. **HIST AST**
208 ft. **Site 2 of 3 in cluster C**

Relative:
Higher

Actual:
78 ft.

UST:

Id/Status:	2-246875 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587340.32863999996
UTM Y:	4504018.1022800002
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	9676
Affiliation Type:	Facility Owner
Company Name:	FLYING M, LLC
Contact Type:	V.P.
Contact Name:	MARSHALL SHINE
Address1:	179 COLUMBIA STREET
Address2:	Not reported
City:	NEW YORK
State:	NY

525 CLINTON AVENUE (Continued) **U003074465**

Zip Code:	11231
Country Code:	001
Phone:	(718) 875-4599
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

Site Id:	9676
Affiliation Type:	Mail Contact
Company Name:	FLYING M, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	179 COLUMBIA STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-4599
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

Site Id:	9676
Affiliation Type:	On-Site Operator
Company Name:	NEW HOPE
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

Site Id:	9676
Affiliation Type:	Emergency Contact
Company Name:	FLYING M, LLC
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG

525 CLINTON AVENUE (Continued) **U003074465**

Date Last Modified: 3/3/2005

Tank Info:

Tank Number:	001
Tank ID:	10627
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1500
Install Date:	Not reported
Date Tank Closed:	02/24/2005
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0000
Common Name of Substance:	Empty
Tightness Test Method:	03
Date Test:	06/01/1998
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KXTANG
Last Modified:	03/03/2005

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

HIST UST:

PBS Number:	2-246875
SPDES Number:	Not reported
Emergency Contact:	MS. BONNIE ZIMMERMAN
Emergency Telephone:	(718) 857-9492
Operator:	LIFESPIRE, ACRMD
Operator Telephone:	(718) 857-9492
Owner Name:	LUTHERAN COMMUNITY SERVICES OF NEW YORK
Owner Address:	27 PARK PLACE
Owner City,St,Zip:	NEW YORK, NY 10007
Owner Telephone:	(212) 406-9110
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	LUTHERAN COMMUNITY SERVICES
Mailing Address:	OF METROPOLITAN NEW YORK, INC
Mailing Address 2:	27 PARK PLACE
Mailing City,St,Zip:	NEW YORK, NY 10007
Mailing Contact:	Not reported
Mailing Telephone:	(212) 406-9110
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is

525 CLINTON AVENUE (Continued) **U003074465**

	greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	525 CLINTON AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	02/29/2000
Expiration Date:	07/28/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	1500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Gravity
Date Tested:	06/01/1998
Next Test Date:	06/01/2003
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated

525 CLINTON AVENUE (Continued) **U003074465**

Facility Id:	2-246875
Program Type:	PBS
UTM X:	587340.32863999996
UTM Y:	4504018.1022800002
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	9676
Affiliation Type:	Facility Owner
Company Name:	FLYING M, LLC
Contact Type:	V.P.
Contact Name:	MARSHALL SHINE
Address1:	179 COLUMBIA STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-4599
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

Site Id:	9676
Affiliation Type:	Mail Contact
Company Name:	FLYING M, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	179 COLUMBIA STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-4599
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

Site Id:	9676
Affiliation Type:	On-Site Operator
Company Name:	NEW HOPE
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

525 CLINTON AVENUE (Continued) **U003074465**

Site Id:	9676
Affiliation Type:	Emergency Contact
Company Name:	FLYING M, LLC
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/3/2005

Tank Info:

Tank Number:	002
Tank Id:	10628
Material Code:	0000
Common Name of Substance:	Empty

Equipment Records:

	L00 - Piping Leak Detection - None
	B00 - Tank External Protection - None
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	H00 - Tank Leak Detection - None
	G00 - Tank Secondary Containment - None
	J03 - Dispenser - Gravity
	C00 - Pipe Location - No Piping
	F00 - Pipe External Protection - None
	I04 - Overfill - Product Level Gauge (A/G)
Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/01/1996
Register:	True
Modified By:	KXTANG
Last Modified:	03/03/2005
Material Name:	Empty

HIST AST:

PBS Number:	2-246875
SWIS Code:	6101
Operator:	LIFESPIRE, ACRMD
Facility Phone:	(718) 857-9492
Facility Addr2:	525 CLINTON AVENUE

525 CLINTON AVENUE (Continued) **U003074465**

Facility Type:	OTHER
Emergency:	MS. BONNIE ZIMMERMAN
Emergency Tel:	(718) 857-9492
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	LUTHERAN COMMUNITY SERVICES OF NEW YORK
Owner Address:	27 PARK PLACE
Owner City,St,Zip:	NEW YORK, NY 10007
Federal ID:	Not reported
Owner Tel:	(212) 406-9110
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	LUTHERAN COMMUNITY SERVICES
Mailing Address:	OF METROPOLITAN NEW YORK, INC
Mailing Address 2:	27 PARK PLACE
Mailing City,St,Zip:	NEW YORK, NY 10007
Mailing Telephone:	(212) 406-9110
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	02/29/2000
Expiration:	07/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	002
Tank Location:	ABOVEGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (Gal):	1000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4

525 CLINTON AVENUE (Continued) **U003074465**

Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	08/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

C14 **EDR US Hist Cleaners** **1015072285**
WSW **528 CLINTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.040 mi.
212 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
78 ft.

EDR Historical Cleaners:

Name:	TELFER LAUNDROMAT CORP
Year:	2002
Address:	528 CLINTON AVE
Name:	TELFER LAUNDROMAT CORP
Year:	2003
Address:	528 CLINTON AVE

E15 **APARTMENT BUILDING** **AST** **U003384451**
SW **537 CLINTON AVE** **NY Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.041 mi.
216 ft. **Site 1 of 6 in cluster E**

Relative:
Lower

Actual:
77 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-107077
Program Type:	PBS
UTM X:	587347.39616
UTM Y:	4503973.4591399999
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	3081
Affiliation Type:	Facility Owner
Company Name:	537 CLINTON LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	156 WILLIAM ST.
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 587-6100
EMail:	Not reported

APARTMENT BUILDING (Continued) **U003384451**

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/26/2011

Site Id:	3081
Affiliation Type:	Mail Contact
Company Name:	GALSTER MANAGEMENT CORP.
Contact Type:	Not reported
Contact Name:	MARC GOODMAN
Address1:	80 MAIDEN LANE
Address2:	SUITE 2204
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 587-6100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/3/2012

Site Id:	3081
Affiliation Type:	On-Site Operator
Company Name:	537 CLINTON AVENUE
Contact Type:	Not reported
Contact Name:	CHARLES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 398-5553
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/26/2011

Site Id:	3081
Affiliation Type:	Emergency Contact
Company Name:	537 CLINTON LLC
Contact Type:	Not reported
Contact Name:	MARC GOODMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 687-5557
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/26/2011

Tank Info:

APARTMENT BUILDING (Continued) **U003384451**

Tank Number: 001
Tank Id: 3802
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Equipment Records:
G03 - Tank Secondary Containment - Vault (w/o access)
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
H04 - Tank Leak Detection - Groundwater Well
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/01/1950
Capacity Gallons: 5000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 08/16/2011
Register: True
Modified By: NRLOMBAR
Last Modified: 10/26/2011
Material Name: #6 Fuel Oil (On-Site Consumption)

SPILLS:
Facility ID: 1106484
DER Facility ID: 408758
Facility Type: ER
Site ID: 454166
DEC Region: 2
Spill Date: 8/30/2011
Spill Number/Closed Date: 1106484 / 12/28/2011
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 8/30/2011
CID: Not reported
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0

APARTMENT BUILDING (Continued) **U003384451**

Date Entered In Computer:	8/30/2011
Spill Record Last Update:	12/28/2011
Spiller Name:	PETE MIRADILE
Spiller Company:	APARTMENT OWNER
Spiller Address:	537 CLINTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	PETE MIRADILE
Contact Phone:	(718) 855-7272
DEC Memo:	8/31/2011 - Sangesland spoke to Pete at Riteway. He said yesterday they pulled the tank and found contaminated soil. Today they are excavating as much soil as they can and will then take end point samples. Soil samples, photos and writeup will be submitted to DEC for review and closure. DEC Piper reviewed closure report. Based on work to date, this spill is closed. See edocs if warranted.
Remarks:	CALLER REMOVED TANK TO FIND A OIL OEAK UNDER THE TANK.

Material:

Site ID:	454166
Operable Unit ID:	1204318
Operable Unit:	01
Material ID:	2201084
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E16
SW
< 1/8
0.048 mi.
252 ft.

BELL ATLANTIC **HIST UST** **U003074740**
547 CLINTON AVENUE **HIST AST** **N/A**
BROOKLYN, NY 11238

Site 2 of 6 in cluster E

Relative:
Lower

Actual:
77 ft.

HIST UST:

PBS Number:	2-344451
SPDES Number:	Not reported
Emergency Contact:	BELL ATLANTIC
Emergency Telephone:	(800) 386-9639
Operator:	BELL ATLANTIC
Operator Telephone:	(888) 696-3973
Owner Name:	BELL ATLANTIC
Owner Address:	221 EAST 37TH STREET, 4TH FLOOR
Owner City,St,Zip:	NEW YORK, NY 10016
Owner Telephone:	(888) 696-3973
Owner Type:	Corporate/Commercial
Owner Subtype:	New York Telephone
Mailing Name:	BELL ATLANTIC
Mailing Address:	221 EAST 37TH STREET
Mailing Address 2:	4TH FLOOR
Mailing City,St,Zip:	NEW YORK, NY 10016

BELL ATLANTIC (Continued) **U003074740**

Mailing Contact:	MS. KATHLEEN TOBIN
Mailing Telephone:	(212) 338-6731
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	UTILITY
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/05/1998
Expiration Date:	08/23/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	12310
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	01/01/1997
Capacity (gals):	10000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	01/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

BELL ATLANTIC (Continued) **U003074740**

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	01/01/1997
Capacity (gals):	1100
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	12/01/1991
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	01/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	01/01/1997
Capacity (gals):	8000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	03/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	01/01/1997
Test Method:	Petro-Tite
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	In Service

BELL ATLANTIC (Continued) **U003074740**

Install Date:	09/01/1993
Capacity (gals):	12000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	Vault (w/access)
Leak Detection:	41
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	09/01/2008
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

HIST AST:

PBS Number:	2-344451
SWIS Code:	6101
Operator:	BELL ATLANTIC
Facility Phone:	(888) 696-3973
Facility Addr2:	Not reported
Facility Type:	UTILITY
Emergency:	BELL ATLANTIC
Emergency Tel:	(800) 386-9639
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	BELL ATLANTIC
Owner Address:	221 EAST 37TH STREET, 4TH FLOOR
Owner City,St,Zip:	NEW YORK, NY 10016
Federal ID:	Not reported
Owner Tel:	(888) 696-3973
Owner Type:	Corporate/Commercial
Owner Subtype:	T
Mailing Contact:	MS. KATHLEEN TOBIN
Mailing Name:	BELL ATLANTIC
Mailing Address:	221 EAST 37TH STREET
Mailing Address 2:	4TH FLOOR
Mailing City,St,Zip:	NEW YORK, NY 10016
Mailing Telephone:	(212) 338-6731
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	08/05/1998
Expiration:	08/23/2003
Renew Flag:	False

BELL ATLANTIC (Continued) **U003074740**

Renew Date:	Not reported
Total Capacity:	12310
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	004
Tank Location:	ABOVEGROUND
Tank Status:	Closed-Removed
Install Date:	01/01/1997
Capacity (Gal):	2000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	None
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Diking
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	01/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	005
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	01/01/1993
Capacity (Gal):	300
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Excavation/Tranch Liner
Leak Detection:	01
Overfill Protection:	03

BELL ATLANTIC (Continued) **U003074740**

Dispenser Method:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	007
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	12/01/1997
Capacity (Gal):	10
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Excavation/Tranch Liner
Leak Detection:	09
Overfill Protection:	03
Dispenser Method:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

E17 **BELL ATLANTIC** **RCRA NonGen / NLR** **1001493658**
SW **547 CLINTON AVE** **US AIRS** **NYR000075515**
< 1/8 **BROOKLYN, NY 11238**
0.048 mi.
252 ft. **Site 3 of 6 in cluster E**

Relative:
Lower

Actual:
77 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	BELL ATLANTIC
Facility address:	547 CLINTON AVE BROOKLYN, NY 112382201
EPA ID:	NYR000075515
Mailing address:	E 37TH ST NEW YORK, NY 10016
Contact:	LEO BUSINELLI
Contact address:	E 37TH ST NEW YORK, NY 10016
Contact country:	US
Contact telephone:	(212) 338-7694

BELL ATLANTIC (Continued) **1001493658**

Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: BELL ATLANTIC
Owner/operator address: 547 CLINTON AVE
BROOKLYN, NY 11238
Owner/operator country: US
Owner/operator telephone: (212) 285-7676
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BELL ATLANTIC
Owner/operator address: 547 CLINTON AVE
BROOKLYN, NY 11238
Owner/operator country: US
Owner/operator telephone: (212) 285-7676
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BELL ATLANTIC
Classification: Not a generator, verified

Date form received by agency: 08/20/1999
Facility name: BELL ATLANTIC
Classification: Large Quantity Generator

Violation Status: No violations found

AIRS (AFS):

BELL ATLANTIC (Continued) **1001493658**

Compliance and Violation Data Major Sources:

EPA plant ID:	110012590767
Plant name:	VERIZON - CLINTON AVE
Plant address:	547 CLINTON AVE BROOKLYN, NY 11231
County:	KINGS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	4812
Sic code desc:	Not reported
North Am. industrial classf:	Not reported
NAIC code description:	Not reported
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE REGULATIONS OR LIMITATIONS.
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Historical Compliance Minor Sources:

State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1001
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1003
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1004
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1102
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1103
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1104
Air prog code hist file:	NSPS
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1104
Air prog code hist file:	MACT (SECTION 63 NESHAPS)
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1201
Air prog code hist file:	NSPS
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

BELL ATLANTIC (Continued) **1001493658**

Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

E18	**VAULT # 4724**	**LTANKS**	**S106721662**
SW	**547 CLINTON AVE**	**TANKS**	**N/A**
< 1/8	**BROOKLYN, NY**	**MANIFEST**	
0.048 mi.		**NY Spills**	
252 ft.	**Site 4 of 6 in cluster E**		

Relative:
Lower

Actual:
77 ft.

LTANKS:

Site ID:	281899
Spill Number/Closed Date:	9111872 / 12/4/2000
Spill Date:	2/18/1992
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	2/19/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/20/1992
Spill Record Last Update:	12/4/2000
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	268667
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"transfered from tang to tibbe on 12/4/20000. see file.
Remarks:	E I & R 8K HORNER EZ CHECK

Material:

Site ID:	281899
Operable Unit ID:	962106
Operable Unit:	01
Material ID:	416879
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

VAULT # 4724 (Continued) **S106721662**

Tank Test:

Site ID:	281899
Spill Tank Test:	1539637
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

TANKS:

Facility Id:	2-344451
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2018/08/23
UTM X:	587353.28576
UTM Y:	4503936.2565299999

NY MANIFEST:

EPA ID:	NYR000075515
Country:	USA
Mailing Name:	BELL ATLANTIC
Mailing Contact:	WAYNE SEBRO
Mailing Address:	140 WEST ST RM 2121
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10007
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	570-342-7232

NY MANIFEST:

No Manifest Records Available

EPA ID:	NYP004126546
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

NY MANIFEST:

No Manifest Records Available

VAULT # 4724 (Continued) **S106721662**

SPILLS:

Facility ID:	0408695
DER Facility ID:	268667
Facility Type:	ER
Site ID:	333432
DEC Region:	2
Spill Date:	11/5/2004
Spill Number/Closed Date:	0408695 / 1/6/2005
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	11/5/2004
CID:	73
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/6/2004
Spill Record Last Update:	1/6/2005
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	40 ELDRIDGE AV
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	e2mis no. 156133:11/5/04 11:20 HRS ENV OPS C. LUGO #03594 ENV OPS REPORTS FINDING APPROX 1 PT OF UNKNOWN OIL ON APPROX 5 GAL OF WATER IN V4724. THIS WAS FOUND WHILE ATTEMPTING TO CLEAN STRUCTURE FOR BQE WHO WAS THERE TO REPLACE A SUMP PUMP ON ACCT#C3275. THE SOURCE AND CAUSE OF THE SPILL IS UNKNOWN. THERE WERE NO SUBSTANTIAL CRACKS IN THE STRUCTURE AND THE STANDING WATER HAD NO MOVEMENT. THERE DID NOT APPEAR TO BE ANY SEWER CONNECTIONS AND THERE IS A CONCRETE SUMP. ENV STOP TAG# 45119 WAS PLACED AND ONE LIQUID SAMPLE TAKEN ON "E" PRIORITY FOR PCB ANALYSIS ON CHAIN OF CUSTODY# DD11404. HISTORICAL RECORDS INDICATE PCB 1PPM DATED 11/29/01. THE BQE CREW ON LOCATION WAS ADVISED TO PRESSURE TEST THE UNIT. CLEANUP IS PENDING LAB RESULTS.UPDATE 11/5/04 12:59 HRS BQE J. GUARDARRAMA REPORTS THE UNIT PASSED THE PRESSURE TEST.Lab Sequence Number: 04-09232-001 TOTAL PCB: 83 ppmSaturday, November 06, 2004 9:12 PMAn Environmental Crew made up of A. Gladowski, R. Vega and R. Esponda completed the cleanup of VS 4724 on 6 Nov 04. The structure was double washed with 5 gal. Biogen 760, 5 gal. of Biogen 715 and 5 gal. bulldog. 110 gal. of liquid were removed via Astoria >50 tanker. Three drums of debris were removed and brought to 3rd Ave Yard via the 'one trip rule'. The sump was found cemented. Environmental stop tag # 45119 was pulled from the structure.
Remarks:	1 PINT OIL ON 5 GALS OF WATER. NO TO ALL 5 QUESTIONS. SPILL COMING OFF 24 HR PROGRAM DUE TO LACK OF RESOURCES. CON ED REF # 156133.

VAULT # 4724 (Continued) **S106721662**

Material:

Site ID:	333432
Operable Unit ID:	1095587
Operable Unit:	01
Material ID:	575710
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E19 **EDR US Hist Auto Stat** **1015547049**
SW **542 CLINTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.048 mi.
253 ft. **Site 5 of 6 in cluster E**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name:	NASSAUS AUTO COLLISION
Year:	2003
Address:	542 CLINTON AVE
Name:	ECLIPSE AUTO COLLISION
Year:	2004
Address:	542 CLINTON AVE
Name:	ECLIPSE AUTO COLLISION
Year:	2005
Address:	542 CLINTON AVE
Name:	ECLIPSE AUTO COLLISION
Year:	2006
Address:	542 CLINTON AVE
Name:	ECLIPSE AUTO COLLISION
Year:	2007
Address:	542 CLINTON AVE
Name:	ECLIPSE AUTO COLLISION
Year:	2008
Address:	542 CLINTON AVE
Name:	NASSAUS AUTO COLLISION
Year:	2009
Address:	542 CLINTON AVE
Name:	ECLIPSE AUTO COLLISON
Year:	2010
Address:	542 CLINTON AVE

E20 SW < 1/8 0.049 mi. 261 ft. | **LOT 1,TAXBLOCK 2011**
549 CLINTON AVENUE
BROOKLYN, NY 11238

E DESIGNATION | **S108983999**
N/A

Site 6 of 6 in cluster E

Relative: Lower

Actual: 77 ft.

E DESIGNATION:

Tax Lot(s):	1
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3002
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	U6
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	NEW YORK TELEPHONE CO
Lot Area:	000000000
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00003
Number of Floors:	006.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0218.92
Lot Depth:	0219.83
Building Frontage:	0218.92
Building Depth:	0219.83
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3

LOT 1,TAXBLOCK 2011 (Continued) **S108983999**

Basement Type Grade:	5
Land Assessed Value:	00000000000
Total Assessed Value:	00000000000
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020110001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993664
Y Coordinate:	0187699
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	1
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3002
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1

LOT 1,TAXBLOCK 2011 (Continued) **S108983999**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	U6
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	NEW YORK TELEPHONE CO
Lot Area:	000000000
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00003
Number of Floors:	006.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0218.92
Lot Depth:	0219.83
Building Frontage:	0218.92
Building Depth:	0219.83
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000000000
Total Assessed Value:	00000000000
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020110001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993664
Y Coordinate:	0187699
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 1,TAXBLOCK 2011 (Continued) **S108983999**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

F21 **900 FULTON STREET** **NY Spills** **S102143580**
East **900 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.053 mi.
279 ft. **Site 1 of 7 in cluster F**

Relative:
Lower

Actual:
76 ft.

SPILLS:

Facility ID:	9210839
DER Facility ID:	281917
Facility Type:	ER
Site ID:	275865
DEC Region:	2
Spill Date:	12/18/1992
Spill Number/Closed Date:	9210839 / 12/18/1992
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	12/18/1992
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	12/18/1992
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/18/1992
Spill Record Last Update:	7/9/1993
Spiller Name:	Not reported
Spiller Company:	BAERENKLAU
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
Remarks:	BACK PRESSURE FROM TANK CONTAINED ON SIDEWALK. SORBENT USED IN CLEANUP.

Material:

Site ID:	275865
Operable Unit ID:	975038
Operable Unit:	01
Material ID:	404281
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported

900 FULTON STREET (Continued) **S102143580**

Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

G22
WNW
< 1/8
0.055 mi.
293 ft.

856 FULTON ST **EDR US Hist Cleaners** **1015101606**
BROOKLYN, NY 11238 **N/A**

Site 1 of 6 in cluster G

Relative:
Higher

Actual:
80 ft.

EDR Historical Cleaners:

Name:	BUBBLEWORKS DRYCLEANING & LAUN
Year:	2005
Address:	856 FULTON ST
Name:	BUBBLEWORKS LAUNDRY & DRYCLEANING
Year:	2006
Address:	856 FULTON ST
Name:	BUBBLEWORKS DRYCLEANING & LAUNDRY SE
Year:	2008
Address:	856 FULTON ST
Name:	IMPERIAL CLEANERS
Year:	2010
Address:	856 FULTON ST
Name:	IMPERIAL CLEANERS
Year:	2011
Address:	856 FULTON ST
Name:	IMPERIAL CLEANERS
Year:	2012
Address:	856 FULTON ST

G23
WNW
< 1/8
0.055 mi.
293 ft.

IMPERIAL/BUBBLE WORKS CLEANERS **DRYCLEANERS** **S110246847**
856 FULTON STREET **N/A**
BROOKLYN, NY 11238

Site 2 of 6 in cluster G

Relative:
Higher

Actual:
80 ft.

DRYCLEANERS:

Facility ID:	2-6103-00669
Phone Number:	718-789-8991
Region:	Not reported
Registration Effective Date:	1/7/2010
Inspection Date:	10JAN8
Install Date:	01/03
Drop Shop:	Not reported
Shutdown:	Not reported

IMPERIAL/BUBBLE WORKS CLEANERS (Continued) **S110246847**

Alternate Solvent: Not reported
Current Business: Not reported

G24
WNW
< 1/8
0.055 mi.
293 ft.

M M C GALE FRENCH CLEANERS INC
856 FULTON ST
BROOKLYN, NY 11238

RCRA NonGen / NLR **1000114969**
FINDS **NYD982272270**
MANIFEST

Site 3 of 6 in cluster G

Relative:
Higher

Actual:
80 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	M M C GALE FRENCH CLEANERS INC
Facility address:	856 FULTON ST BROOKLYN, NY 11238
EPA ID:	NYD982272270
Mailing address:	FULTON ST BROOKLYN, NY 11238
Contact:	Not reported
Contact address:	FULTON ST BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	UNKNOWN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	UNKNOWN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: M M C GALE FRENCH CLEANERS INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/14/1999
Facility name: M M C GALE FRENCH CLEANERS INC
Classification: Small Quantity Generator

Date form received by agency: 08/14/1987
Facility name: M M C GALE FRENCH CLEANERS INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004417809

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

NY MANIFEST:
EPA ID: NYD982272270
Country: USA
Mailing Name: MAE E GALE CLNRS
Mailing Contact: MAE E GALE CLNRS
Mailing Address: 856 FULTON ST ATTN:JORGE M
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11232
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-622-0009

Document ID: NYA8624867
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Trans1 State ID:	NY16549GW
Trans2 State ID:	Not reported
Generator Ship Date:	880106
Trans1 Recv Date:	880106
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880106
Part A Recv Date:	880303
Part B Recv Date:	880112
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA9123311
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYAM6252
Trans2 State ID:	Not reported
Generator Ship Date:	881110
Trans1 Recv Date:	881110
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881110
Part A Recv Date:	890105
Part B Recv Date:	881118
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA9082135
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	LP3931
Trans2 State ID:	Not reported
Generator Ship Date:	880915
Trans1 Recv Date:	880915
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880915
Part A Recv Date:	881107
Part B Recv Date:	880923
Generator EPA ID:	NYD982272270

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA9670397
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	891012
Trans1 Recv Date:	891012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891012
Part A Recv Date:	891027
Part B Recv Date:	891018
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA9826468
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	891107
Trans1 Recv Date:	891107
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891107
Part A Recv Date:	891114
Part B Recv Date:	891115
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00200
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Specific Gravity: 100
Year: 89

Document ID: NYA9834862
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: AM6252NY
Trans2 State ID: Not reported
Generator Ship Date: 891222
Trans1 Recv Date: 891222
Trans2 Recv Date: Not reported
TSD Site Recv Date: 891222
Part A Recv Date: 900208
Part B Recv Date: 900103
Generator EPA ID: NYD982272270
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00270
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 89

Document ID: NYC0641406
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: LP3931NY
Trans2 State ID: Not reported
Generator Ship Date: 910425
Trans1 Recv Date: 910425
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910425
Part A Recv Date: 910612
Part B Recv Date: 910508
Generator EPA ID: NYD982272270
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 91

Document ID: NYC2102602
Manifest Status: Completed copy
Trans1 State ID: HW8207NY
Trans2 State ID: Not reported
Generator Ship Date: 930112

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Trans1 Recv Date:	930112
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930112
Part A Recv Date:	930128
Part B Recv Date:	930122
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00140
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYC1729708
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	920721
Trans1 Recv Date:	920721
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920721
Part A Recv Date:	920806
Part B Recv Date:	920729
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00070
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NYC1910158
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	921021
Trans1 Recv Date:	921021
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921021
Part A Recv Date:	921118
Part B Recv Date:	921030
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NYC2123796
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	930209
Trans1 Recv Date:	930209
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930209
Part A Recv Date:	Not reported
Part B Recv Date:	930219
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00140
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYC2198564
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	930310
Trans1 Recv Date:	930310
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930310
Part A Recv Date:	Not reported
Part B Recv Date:	930319
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00150
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00060

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYC3343443
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	941123
Trans1 Recv Date:	941123
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941123
Part A Recv Date:	Not reported
Part B Recv Date:	941205
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00140
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NYC3128567
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	940920
Trans1 Recv Date:	940920
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940920
Part A Recv Date:	Not reported
Part B Recv Date:	940929
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NYC3463738
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	950208
Trans1 Recv Date:	950208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950208
Part A Recv Date:	Not reported
Part B Recv Date:	950217
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00140
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NYC4125396
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AM6252NY
Trans2 State ID:	AR0042613
Generator Ship Date:	960604
Trans1 Recv Date:	960604
Trans2 Recv Date:	960607
TSD Site Recv Date:	960608
Part A Recv Date:	Not reported
Part B Recv Date:	960702
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Specific Gravity:	100
Year:	96

Document ID:	NYC4052632
Manifest Status:	Completed copy
Trans1 State ID:	GF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	960404
Trans1 Recv Date:	960404
Trans2 Recv Date:	960409
TSD Site Recv Date:	960410
Part A Recv Date:	Not reported
Part B Recv Date:	960425
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC3991983
Manifest Status:	Completed copy
Trans1 State ID:	GF2859NY
Trans2 State ID:	AR004
Generator Ship Date:	960207
Trans1 Recv Date:	960207
Trans2 Recv Date:	960209
TSD Site Recv Date:	960210
Part A Recv Date:	Not reported
Part B Recv Date:	960229
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC4074873
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AM6252NY
Trans2 State ID:	PC1319H72
Generator Ship Date:	960501

M M C GALE FRENCH CLEANERS INC (Continued) **1000114969**

Trans1 Recv Date:	960501
Trans2 Recv Date:	960503
TSD Site Recv Date:	960504
Part A Recv Date:	Not reported
Part B Recv Date:	960530
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC4199084
Manifest Status:	Completed copy
Trans1 State ID:	NYJE4550
Trans2 State ID:	4295AZ
Generator Ship Date:	960723
Trans1 Recv Date:	960723
Trans2 Recv Date:	960726
TSD Site Recv Date:	960727
Part A Recv Date:	Not reported
Part B Recv Date:	960815
Generator EPA ID:	NYD982272270
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Click this hyperlink while viewing on your computer to access
118 additional NY_MANIFEST: record(s) in the EDR Site Report.

D25 **551 WAVERLY AVE/BKLYN** **LTANKS** **S106703409**
SSE **551 WAVERLY AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.059 mi.
312 ft. **Site 2 of 3 in cluster D**

Relative:
Lower

Actual:
76 ft.

LTANKS:

Site ID:	141999
Spill Number/Closed Date:	8909618 / 1/5/1990
Spill Date:	1/5/1990
Spill Cause:	Tank Overfill
Spill Source:	Tank Truck
Spill Class:	Not reported

551 WAVERLY AVE/BKLYN (Continued) **S106703409**

Cleanup Ceased:	1/5/1990
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	1/5/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/17/1990
Spill Record Last Update:	7/16/2003
Spiller Name:	Not reported
Spiller Company:	HERBERT PETROLEUM
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	121222
DEC Memo:	Not reported
Remarks:	TANK OVERFILL, CONTAINED ON PAVEMENT, NYCFD ON SCENE, SPILL CLEANED WITH SPEEDY DRY, PICKED UP & DISPOSED.

Material:

Site ID:	141999
Operable Unit ID:	936749
Operable Unit:	01
Material ID:	442779
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	7
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D26 SSE < 1/8 0.059 mi. 312 ft. | **LOT 1,TAXBLOCK 2012 551 WAVERLY AVENUE BROOKLYN, NY 11238** | **E DESIGNATION** | **S108984000 N/A**

Site 3 of 3 in cluster D

Relative: Lower

Actual: 76 ft.

E DESIGNATION:

Tax Lot(s):	1
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	F9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	BROADWAY EQUITIES COR
Lot Area:	000023523
Total Building Floor Area:	00000043350
Commercial Floor Area:	00000043350
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000043350
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00002
Number of Floors:	003.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0226.58
Lot Depth:	0100.00
Building Frontage:	0226.00
Building Depth:	0090.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5

LOT 1,TAXBLOCK 2012 (Continued) **S108984000**

Basement Type Grade:	5
Land Assessed Value:	00000129150
Total Assessed Value:	00000382050
Land Exempt Value:	00000000000
Total Exempt Value:	00000198450
Year Built:	1915
Year Built Code:	Not reported
Year Altered1:	2003
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.84
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993867
Y Coordinate:	0187724
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	1
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1

LOT 1,TAXBLOCK 2012 (Continued) **S108984000**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	F9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	BROADWAY EQUITIES COR
Lot Area:	000023523
Total Building Floor Area:	00000043350
Commercial Floor Area:	00000043350
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000043350
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00002
Number of Floors:	003.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0226.58
Lot Depth:	0100.00
Building Frontage:	0226.00
Building Depth:	0090.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000129150
Total Assessed Value:	00000382050
Land Exempt Value:	00000000000
Total Exempt Value:	00000198450
Year Built:	1915
Year Built Code:	Not reported
Year Altered1:	2003
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.84
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993867
Y Coordinate:	0187724
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 1,TAXBLOCK 2012 (Continued) **S108984000**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

H27 NE < 1/8 0.059 mi. 312 ft. | **CON EDISON - MANHOLE 2904** | **RCRA-LQG** | **1012184904**
506 WASHINGTON AVE | **NYP004153227**
BROOKLYN, NY 11238

Site 1 of 4 in cluster H

Relative: Lower

Actual: 77 ft.

RCRA-LQG:

Date form received by agency:	02/21/2008
Facility name:	CON EDISON - MANHOLE 2904
Facility address:	506 WASHINGTON AVE BROOKLYN, NY 11238
EPA ID:	NYP004153227
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	FRANKLIN MURRAY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-2808
Contact email:	MURRAYFR@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/24/2007
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner

CON EDISON - MANHOLE 2904 (Continued) **1012184904**

Owner/Op start date: 08/24/2007
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Waste code: B007
Waste name: B007

Violation Status: No violations found

H28 **CONSOLIDATED EDISON** **MANIFEST** **S109321233**
NE **506 WASHINGTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.059 mi.
312 ft. **Site 2 of 4 in cluster H**

Relative:
Lower

Actual:
77 ft.

NY MANIFEST:
EPA ID: NYP004153227
Country: USA
Mailing Name: consolidated edison
Mailing Contact: franklyn murray
Mailing Address: 4 irving pl rm 828
Mailing Address 2: Not reported
Mailing City: new york
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

NY MANIFEST:
No Manifest Records Available

G29 NW < 1/8 0.062 mi. 329 ft. | **SOIL 487 CLINTON AVE BROOKLYN, NY** | **NY Spills** | **S110611934 N/A**

Site 4 of 6 in cluster G

Relative: Higher

Actual: 80 ft.

SPILLS:

Facility ID:	1008343
DER Facility ID:	396850
Facility Type:	ER
Site ID:	441832
DEC Region:	2
Spill Date:	11/9/2010
Spill Number/Closed Date:	1008343 / 8/4/2011
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	11/9/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/9/2010
Spill Record Last Update:	8/4/2011
Spiller Name:	RACHEL
Spiller Company:	APT BUILDING/ CLINTON PARTNERS
Spiller Address:	487 CLINTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	RACHEL
Contact Phone:	(718) 399-9300
DEC Memo:	Statewide Oil made delivery for Castle. Spill from a 2k gallon tank. A gauge for a 275 was on top of the tank and blew out duing delivery. Unknown at time though. Castle responded and found approx 10-15 gal on floor. They will clean with speedy dry and own crew. Small spill. Followup needed though. see also 1008781Small spill to tank room. Cleaned by Castle. Closed.
Remarks:	vaulted tank lost fuel to basemnet floor. Clean up in progress

Material:

Site ID:	441832
Operable Unit ID:	1192365
Operable Unit:	01
Material ID:	2187679
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons

SOIL (Continued) **S110611934**

Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1008781
DER Facility ID:	396850
Facility Type:	ER
Site ID:	442300
DEC Region:	2
Spill Date:	11/8/2010
Spill Number/Closed Date:	1008781 / 12/22/2010
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	11/22/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/22/2010
Spill Record Last Update:	12/22/2010
Spiller Name:	Not reported
Spiller Company:	G-WAY MANAGEMENT
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ANDREW HAGUE
Contact Phone:	Not reported
DEC Memo:	11/24/10 - Austin- Refer to remediation work under spill # 1008643, assigned to Piper - end
Remarks:	Caller is a tenant in an apt advising that can smell fumes and was advised by management company that there was an oil spill. Caller advised has not seen anyone there to clean up the spill and management company advised him that the fumes were not hazardous.

Material:

Site ID:	442300
Operable Unit ID:	1192810
Operable Unit:	01
Material ID:	2188154
Material Code:	1801A
Material Name:	HEAT TRANSFER OIL
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported

SOIL (Continued) **S110611934**

Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

G30 **487 CLINTON AVE** **AST** **A100358212**
NW **487 CLINTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.062 mi.
329 ft. **Site 5 of 6 in cluster G**

Relative:
Higher

Actual:
80 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-611655
Program Type: PBS
UTM X: Not reported
UTM Y: Not reported
Expiration Date: N/A
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 453145
Affiliation Type: Facility Owner
Company Name: CLINTON PARTNERS, LLC
Contact Type: AGENT
Contact Name: MATTHEW MATATOF
Address1: 9 BEDFORD PLACE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11216
Country Code: 001
Phone: (718) 399-9300
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 8/15/2011

Site Id: 453145
Affiliation Type: Mail Contact
Company Name: 6-WAY MGMT
Contact Type: Not reported
Contact Name: MATTHEW MATATOF
Address1: 9 BEDFORD PLACE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11216
Country Code: 001
Phone: (718) 399-9300
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS

487 CLINTON AVE (Continued) **A100358212**

Date Last Modified:	8/15/2011

Site Id:	453145
Affiliation Type:	On-Site Operator
Company Name:	487 CLINTON AVE
Contact Type:	Not reported
Contact Name:	6-WAY MGMT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 399-9300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	8/15/2011

Site Id:	453145
Affiliation Type:	Emergency Contact
Company Name:	CLINTON PARTNERS, LLC
Contact Type:	Not reported
Contact Name:	MATTHEW MATATOF
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 399-9300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	8/23/2011

Tank Info:

Tank Number:	001
Tank Id:	240509
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	07/20/2011
Register:	True
Modified By:	CGFREEDM
Last Modified:	08/23/2011
Material Name:	#4 Fuel Oil (On-Site Consumption)

G31 WNW < 1/8 0.066 mi. 350 ft. | **900 FULTON ST/BKLYN 900 FULTON STREET NEW YORK CITY, NY** | **LTANKS NY Spills** | **S102141863 N/A**

Site 6 of 6 in cluster G

Relative: Higher

Actual: 80 ft.

LTANKS:

Site ID:	275863
Spill Number/Closed Date:	8911055 / 2/22/1990
Spill Date:	2/21/1990
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	2/22/1990
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	2/21/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/11/1990
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	224292
DEC Memo:	Not reported
Remarks:	TANK GAUGE FAULTY, SPILL ON SIDEWALK, SPEEDY DRY APPLIED & PICKED UP.

Material:

Site ID:	275863
Operable Unit ID:	938050
Operable Unit:	01
Material ID:	440600
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

900 FULTON ST/BKLYN (Continued) **S102141863**

SPILLS:

Facility ID:	9013121
DER Facility ID:	224292
Facility Type:	ER
Site ID:	275864
DEC Region:	2
Spill Date:	3/25/1991
Spill Number/Closed Date:	9013121 / 5/25/1995
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	3/25/1991
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	5/25/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/4/1991
Spill Record Last Update:	5/25/1995
Spiller Name:	Not reported
Spiller Company:	BAERENLAU
Spiller Address:	740 JAMAICA AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	FAULTY GAUGE, APPLIED SPEEDY DRY.

Material:

Site ID:	275864
Operable Unit ID:	953038
Operable Unit:	01
Material ID:	426014
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F32 East < 1/8 0.068 mi. 361 ft. | **CONSOLIDATED EDISON 530 WASHINGTON AVE BROOKLYN, NY** | **MANIFEST** | **S109064777 N/A**

Site 2 of 7 in cluster F

Relative: Lower

Actual: 75 ft.

NY MANIFEST:

EPA ID:	NYP004158358
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PLACE
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2008-05-07
Trans1 Recv Date:	2008-05-07
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-05-08
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004158358
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	150.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001450592FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported

CONSOLIDATED EDISON (Continued) **S109064777**

Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2008-05-07
Trans1 Recv Date:	2008-05-07
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-05-08
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004158358
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	150.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001450592FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2008-05-07
Trans1 Recv Date:	2008-05-07
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-05-08
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004158358
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	150.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001450592FLE

CONSOLIDATED EDISON (Continued) **S109064777**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

F33
East
< 1/8
0.070 mi.
367 ft.

CONSOLIDATED EDISON
FULTON & WASHINGTON
BROOKLYN, NY 11201

MANIFEST **1009231927**
N/A

Site 3 of 7 in cluster F

Relative:
Lower

Actual:
75 ft.

NY MANIFEST:

EPA ID:	NYP000795641
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYB7187877
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	CU7789
Trans2 State ID:	Not reported
Generator Ship Date:	960811
Trans1 Recv Date:	960811
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960812
Part A Recv Date:	960829
Part B Recv Date:	960913
Generator EPA ID:	NYP000795641
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00114
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYB7235928

CONSOLIDATED EDISON (Continued) **1009231927**

Manifest Status:	Completed copy
Trans1 State ID:	CU7789
Trans2 State ID:	Not reported
Generator Ship Date:	960811
Trans1 Recv Date:	960811
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960812
Part A Recv Date:	960829
Part B Recv Date:	960904
Generator EPA ID:	NYP000795641
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	00396
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96

F34 **MANHOLE #2903** **NY Spills** **S104652731**
East **WASHINGTON & FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.070 mi.
369 ft. **Site 4 of 7 in cluster F**

Relative:
Lower

Actual:
75 ft.

SPILLS:

Facility ID:	0001846
DER Facility ID:	188569
Facility Type:	ER
Site ID:	228649
DEC Region:	2
Spill Date:	5/12/2000
Spill Number/Closed Date:	0001846 / 6/16/2003
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	5/12/2000
CID:	255
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/12/2000
Spill Record Last Update:	6/16/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported

MANHOLE #2903 (Continued) **S104652731**

Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: STEVE ROMERO
Contact Phone: (212) 580-6763
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"E2MIS 1313895/12/00--2315hrs-fod bernier REPORTS FOUND APPROX 1-GALLON OF UNKNOWN OIL ON 2-GALLONS OF WATER IN MH-2903.IT APPEARS TO BECONTAINED AT THIS TIME NO SEWERS OR WATER WAYS EFFECTED. FOUND OLD TAG#12224 ,HE REMOVED AND INSTALLED NEW TAG#15041.1-SAMPLE TAKEN PENDING TEST RESULTS.NOTE:WAS UNABLE TO INPUT INCIDENT DUE TO ORACLE SYSTEM DOWN.GAVE IT CIG S.ROMERO AT 2328HRS 5/12/00--UPDATE @ 0825 HRS 5/13 TEST RESULTS RECEIVED SEQ# 00-04742 @ <1PPM PCB. #12255 VDC.UPDATE @ 1600HRS 5/13 CLEANUP COMPLETED & STOP TAG REMOVED BY A.GLODOWSKI, NO SUMP INVOLVED, #12255 VDCupdate--0150hrs O.S.R.walter reports while entering structure found 3-single conductors cable cut .that spilled approx 4-0z of oil on dry floor.he spoke to E.R.T.kesseler he said no sample is needed due to cleanup is being treated as 50-499UPDATE 1/23/03 VISUAL FOUND CABLE ENDS CAPPED AND NOT LEAKING....
Remarks: 1 gallon on 2 gallons of water - cleaning pending test results

Material:
Site ID: 228649
Operable Unit ID: 823403
Operable Unit: 01
Material ID: 550228
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

F35 **CONSOLIDATED EDISON** **MANIFEST** **S110046767**
East **WASHINGTON AVENUE AND FULTON S** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.070 mi.
369 ft. **Site 5 of 7 in cluster F**

Relative:
Lower

Actual:
75 ft.

NY MANIFEST:
EPA ID: NYP004183711
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLYN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

CONSOLIDATED EDISON (Continued) **S110046767**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-27
Trans1 Recv Date:	2009-07-27
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-27
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183711
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894736GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-27
Trans1 Recv Date:	2009-07-27
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-27
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183711
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0

CONSOLIDATED EDISON (Continued) **S110046767**

Year:	2009
Manifest Tracking Num:	000894736GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

F36 **CON ED - V 2903** **RCRA NonGen / NLR** **1007206069**
East **WASHINGTON AVE & FULTON ST** **NYP004002978**
< 1/8 **BROOKLYN, NY 11238**
0.070 mi.
369 ft. **Site 6 of 7 in cluster F**

Relative:
Lower

Actual:
75 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/28/1998
Facility name:	CON ED - V 2903
Facility address:	WASHINGTON AVE & FULTON ST BROOKLYN, NY 112380000
EPA ID:	NYP004002978
Mailing address:	CONSOLIDATED EDISON INC 4 IRVING PL RM 300 NEW YORK, NY 100030000
Contact:	ANTHONY DRUMMINGS
Contact address:	CONSOLIDATED EDISON INC NEW YORK, NY 100030000
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

CON ED - V 2903 (Continued) **1007206069**

Historical Generators:

Date form received by agency:	02/27/1998
Facility name:	CON ED - V 2903
Classification:	Not a generator, verified
Date form received by agency:	02/26/1998
Facility name:	CON ED - V 2903
Classification:	Large Quantity Generator
Violation Status:	No violations found

F37 East < 1/8 0.070 mi. 369 ft. **SPILL NUMBER 9911883** **NY Spills** **S104650148**
FULTON ST & WASHINGTON AV **N/A**
BROOKLYN, NY

Site 7 of 7 in cluster F

Relative: Lower

Actual: 75 ft.

SPILLS:

Facility ID:	9911883
DER Facility ID:	88232
Facility Type:	ER
Site ID:	99251
DEC Region:	2
Spill Date:	1/13/2000
Spill Number/Closed Date:	9911883 / 3/5/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	COMENALE
Referred To:	Not reported
Reported to Dept:	1/13/2000
CID:	266
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/13/2000
Spill Record Last Update:	11/17/2004
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	e2mis no. 129584:1/13/00 0200hrs - Tom Bullen # 17094 Sr. Field Operator, FOD, reports he found 1 pt oil on 50 gallons water in mh2903 while marking feeder 6b45. Bullen has found dead 1c cable with open ends in structure and has stated oil has come from cable. Sample has been taken and marked 4 - 6 hr. priority. Env. stop tag # 15448 placed. #9 to cap ends of cable and clean structure. Update********** Lab seq# 00-00392 <1.0ppm.1/14/2000 01:50

SPILL NUMBER 9911883 (Continued) **S104650148**

hrs -- J. Middleton, Brooklyn Env. Ops., reports the cleanup is completed and env. stop tag #15448 removed. No sump. NOTE: 1C CABLE FOUND REPAIRED. UNKNOWN AS TO WHO REPAIRED IT. NO SUMP FOUND IN STRUCTURE. STRUCTURE CLEANED BY DOUBLE WASHING WITH SLIX. LIQUID WASTE REMOVED BY TANKER. SOLID WASTE REMOVED BY VACTOR. INCIDENT IS CLOSED.

Remarks: MANHOLE 2903. DEFECTIVE CABLE. ONE PINT DIELECTRIC FLUID ON FIFTY GALLONS OF WATER. WATER LEVEL APPEARS CONSTANT. SAMPLE TAKEN FOR PCB TEST. CLEAN UP PENDING TEST RESULTS. CON EDISON REFERENCE NUMBER 129584.

Material:

Site ID:	99251
Operable Unit ID:	1090586
Operable Unit:	01
Material ID:	297321
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	Yes
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

H38 **CON EDISON** **MANIFEST** **S113814917**
ENE **OPP 493 WASHINGTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.073 mi.
383 ft. **Site 3 of 4 in cluster H**

Relative:
Lower

Actual:
75 ft.

NY MANIFEST:

EPA ID:	NYP004312666
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	14-May-2013 00:00:00
Trans1 Recv Date:	14-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	14-May-2013 00:00:00

CON EDISON (Continued) **S113814917**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004312666
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	30
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017565GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

39
ENE
< 1/8
0.074 mi.
389 ft.

495 WASHINGTON AVENUE LLC **AST** **A100194078**
495 WASHINGTON AVENUE **N/A**
BROOKLYN, NY 11238

Relative:
Lower

Actual:
75 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-602840
Program Type:	PBS
UTM X:	587492.00676000002
UTM Y:	4504121.0098400004
Expiration Date:	2016/11/30
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	24795
Affiliation Type:	Facility Owner
Company Name:	495 WASHINGTON AVENUE C/O ELY MGT , LLC
Contact Type:	LLC MEMBER
Contact Name:	ELY HARR
Address1:	1208 AVENUE M, #2513
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11230
Country Code:	001
Phone:	(718) 253-7048
EMail:	Not reported

495 WASHINGTON AVENUE LLC (Continued) **A100194078**

Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/29/2012

Site Id:	24795
Affiliation Type:	Mail Contact
Company Name:	495 WASHINGTON AVENUE LLC
Contact Type:	Not reported
Contact Name:	ELY HARR
Address1:	C/O ELY MGT , LLC
Address2:	1208 AVE. M #2513
City:	BROOKLYN
State:	NY
Zip Code:	11230
Country Code:	001
Phone:	(718) 253-7048
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/29/2012

Site Id:	24795
Affiliation Type:	On-Site Operator
Company Name:	495 WASHINGTON AVENUE LLC
Contact Type:	Not reported
Contact Name:	DEXTER WALLCOT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 399-1642
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24795
Affiliation Type:	Emergency Contact
Company Name:	495 WASHINGTON AVENUE C/O ELY MGT , LLC
Contact Type:	Not reported
Contact Name:	DEXTER WALLCOT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 244-9466
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/29/2012

Tank Info:

495 WASHINGTON AVENUE LLC (Continued) **A100194078**

Tank Number:	001
Tank Id:	51808
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	09/10/1995
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	03/29/2012
Material Name:	#2 Fuel Oil (On-Site Consumption)

I40 **LOT 232,TAXBLOCK 2012** **E DESIGNATION** **S113453027**
ESE **538 WASHINGTON AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.077 mi.
404 ft. **Site 1 of 7 in cluster I**

Relative:
Lower

Actual:
75 ft.

E DESIGNATION:

Tax Lot(s):	232
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	Not reported
Community District:	Not reported
Census Tract:	Not reported
Census Block:	Not reported
School District:	Not reported
City Council District:	Not reported
Fire Company:	Not reported
Health Area:	Not reported
Police Precinct:	Not reported

LOT 232,TAXBLOCK 2012 (Continued) **S113453027**

Zone District 1:	Not reported
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	Not reported
All Components2:	Not reported
Split Boundary Indicator:	Not reported
Building Class:	Not reported
Land Use Category:	Not reported
Number of Easements:	Not reported
Owner, Type of Code:	Not reported
Owner Name:	Not reported
Lot Area:	Not reported
Total Building Floor Area:	Not reported
Commercial Floor Area:	Not reported
Office Floor Area:	Not reported
Retail Floor Area:	Not reported
Garage Floor Area:	Not reported
Storage Floor Area:	Not reported
Factory Floor Area:	Not reported
Other Floor Area:	Not reported
Floor Area,Total Bld Source Code	Not reported
Number of Buildings:	Not reported
Number of Floors:	Not reported
Residential Units:	Not reported
Non and Residential Units:	Not reported
Lot Frontage:	Not reported
Lot Depth:	Not reported
Building Frontage:	Not reported
Building Depth:	Not reported
Proximity Code:	Not reported
Irregular Lot Code:	Not reported
Lot Type:	Not reported
Basement Type Grade:	Not reported
Land Assessed Value:	Not reported
Total Assessed Value:	Not reported
Land Exempt Value:	Not reported
Total Exempt Value:	Not reported
Year Built:	Not reported
Year Built Code:	Not reported
Year Altered1:	Not reported
Year Altered2:	Not reported
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	Not reported
Maximum Allowable Far:	Not reported
Borough Code:	Not reported
Borough Tax Block And Lot:	Not reported
Condominium Number:	Not reported
Census Tract 2:	Not reported
X Coordinate:	Not reported
Y Coordinate:	Not reported
Zoning Map:	Not reported
Sanborn Map:	Not reported
Tax Map:	Not reported

LOT 232,TAXBLOCK 2012 (Continued) **S113453027**

E Designation No:	Not reported
Date of RPAD Data:	Not reported
Date of DCAS Data:	Not reported
Date of Zoning Data:	Not reported
Date of Major Property Data:	Not reported
Date of Landmark Data:	Not reported
Date of Base Map Data:	Not reported
Date of Mass Appraisal Data:	Not reported
Date of Political and Adm Data:	Not reported
Pluto-Base Map Indicator:	Not reported
Tax Lot(s):	232
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	Not reported
Community District:	Not reported
Census Tract:	Not reported
Census Block:	Not reported
School District:	Not reported
City Council District:	Not reported
Fire Company:	Not reported
Health Area:	Not reported
Police Precinct:	Not reported
Zone District 1:	Not reported
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	Not reported
All Components2:	Not reported
Split Boundary Indicator:	Not reported
Building Class:	Not reported
Land Use Category:	Not reported
Number of Easements:	Not reported
Owner, Type of Code:	Not reported
Owner Name:	Not reported
Lot Area:	Not reported
Total Building Floor Area:	Not reported
Commercial Floor Area:	Not reported
Office Floor Area:	Not reported
Retail Floor Area:	Not reported
Garage Floor Area:	Not reported
Storage Floor Area:	Not reported
Factory Floor Area:	Not reported
Other Floor Area:	Not reported
Floor Area,Total Bld Source Code:	Not reported
Number of Buildings:	Not reported
Number of Floors:	Not reported
Residential Units:	Not reported
Non and Residential Units:	Not reported
Lot Frontage:	Not reported

LOT 232,TAXBLOCK 2012 (Continued) **S113453027**

Lot Depth:	Not reported
Building Frontage:	Not reported
Building Depth:	Not reported
Proximity Code:	Not reported
Irregular Lot Code:	Not reported
Lot Type:	Not reported
Basement Type Grade:	Not reported
Land Assessed Value:	Not reported
Total Assessed Value:	Not reported
Land Exempt Value:	Not reported
Total Exempt Value:	Not reported
Year Built:	Not reported
Year Built Code:	Not reported
Year Altered1:	Not reported
Year Altered2:	Not reported
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	Not reported
Maximum Allowable Far:	Not reported
Borough Code:	Not reported
Borough Tax Block And Lot:	Not reported
Condominium Number:	Not reported
Census Tract 2:	Not reported
X Coordinate:	Not reported
Y Coordinate:	Not reported
Zoning Map:	Not reported
Sanborn Map:	Not reported
Tax Map:	Not reported
E Designation No:	Not reported
Date of RPAD Data:	Not reported
Date of DCAS Data:	Not reported
Date of Zoning Data:	Not reported
Date of Major Property Data:	Not reported
Date of Landmark Data:	Not reported
Date of Base Map Data:	Not reported
Date of Mass Appraisal Data:	Not reported
Date of Political and Adm Data:	Not reported
Pluto-Base Map Indicator:	Not reported

H41 **CONSOLIDATED EDISON** **MANIFEST** **S108933375**
NE **WASHINGTON AVE & FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11201**
0.079 mi.
417 ft. **Site 4 of 4 in cluster H**

Relative:
Lower

Actual:
75 ft.

NY MANIFEST:

EPA ID:	NYP004153581
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PL RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

CONSOLIDATED EDISON (Continued) **S108933375**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	9/5/2007
Trans1 Recv Date:	9/5/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	9/6/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	61
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001437104FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	8/29/2007
Trans1 Recv Date:	8/29/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	8/29/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	3600
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	18
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1

CONSOLIDATED EDISON (Continued) **S108933375**

Year:	2007
Manifest Tracking Num:	001437110FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	8/29/2007
Trans1 Recv Date:	8/29/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	9/4/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	613
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	7
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001451472FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	8/30/2007
Trans1 Recv Date:	8/30/2007

CONSOLIDATED EDISON (Continued) **S108933375**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	8/31/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	63
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001451474FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	9/5/2007
Trans1 Recv Date:	9/5/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	9/7/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153581
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	100
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001437061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

CONSOLIDATED EDISON (Continued) **S108933375**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2007-09-05
Trans1 Recv Date:	2007-09-05
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-09-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	61.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2007
Manifest Tracking Num:	001437104FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2007-08-29
Trans1 Recv Date:	2007-08-29
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-08-29
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported

CONSOLIDATED EDISON (Continued) **S108933375**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	3600.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	18.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2007
Manifest Tracking Num:	001437110FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2007-08-29
Trans1 Recv Date:	2007-08-29
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-09-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004153227
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	613.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	7.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2007
Manifest Tracking Num:	001451472FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CONSOLIDATED EDISON (Continued) **S108933375**

Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 2007-08-30
Trans1 Recv Date: 2007-08-30
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2007-08-31
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004153227
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 63.0
Units: K - Kilograms (2.2 pounds)
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 1.0
Year: 2007
Manifest Tracking Num: 001451474FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 2007-09-05
Trans1 Recv Date: 2007-09-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2007-09-07
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004153581
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 100.0
Units: K - Kilograms (2.2 pounds)
Number of Containers: 2.0

CONSOLIDATED EDISON (Continued) **S108933375**

Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2007
Manifest Tracking Num:	001437061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

I42 **CON EDISON** **MANIFEST** **S113814488**
ESE **544 WASHINGTON AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.079 mi.
419 ft. **Site 2 of 7 in cluster I**

Relative:
Lower

Actual:
75 ft.

NY MANIFEST:

EPA ID:	NYP004308284
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07-May-2013 00:00:00
Trans1 Recv Date:	07-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004308284
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	80
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.

CON EDISON (Continued) **S113814488**

Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017387GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

I43 **EDR US Hist Cleaners** **1015108749**
East **961 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.081 mi.
429 ft. **Site 3 of 7 in cluster I**

Relative:
Lower

Actual:
75 ft.

EDR Historical Cleaners:

Name:	YES CLEANERS
Year:	2010
Address:	961 FULTON ST
Name:	YES CLEANERS
Year:	2011
Address:	961 FULTON ST
Name:	YES CLEANERS
Year:	2012
Address:	961 FULTON ST

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44 **ROYAL CASTLE** **AST** **U004077585**
NW **476 CLINTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.082 mi.
433 ft.

Relative:
Higher

Actual:
81 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-304778
Program Type:	PBS
UTM X:	587311.10152000003
UTM Y:	4504182.5138499998
Expiration Date:	2017/07/14
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	13903
Affiliation Type:	Facility Owner
Company Name:	476 PROPERTIES CORP
Contact Type:	OFFICER
Contact Name:	ANDRE HULAIN

ROYAL CASTLE (Continued) **U004077585**

Address1:	PO BOX 170542
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-9659
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	8/18/2011

Site Id:	13903
Affiliation Type:	Mail Contact
Company Name:	476 PROPERTIES CORP
Contact Type:	Not reported
Contact Name:	MARIE LIONEL
Address1:	PO BOX 170452
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-9659
EMail:	MDGLION@MSN.COM
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	8/18/2011

Site Id:	13903
Affiliation Type:	On-Site Operator
Company Name:	ROYAL CASTLE
Contact Type:	Not reported
Contact Name:	ANDY NICHOLAS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 636-9659
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	13903
Affiliation Type:	Emergency Contact
Company Name:	476 PROPERTIES CORP
Contact Type:	Not reported
Contact Name:	MARIE LIONEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001

ROYAL CASTLE (Continued) **U004077585**

Phone:	(718) 636-9659
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	16266
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	H00 - Tank Leak Detection - None
	B00 - Tank External Protection - None
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	J01 - Dispenser - Pressurized Dispenser
	G03 - Tank Secondary Containment - Vault (w/o access)
	C00 - Pipe Location - No Piping
	F00 - Pipe External Protection - None
	I04 - Overfill - Product Level Gauge (A/G)
Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/01/1993
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	07/29/2011
Material Name:	#2 Fuel Oil (On-Site Consumption)

J45 **EDR US Hist Cleaners** **1015077444**
SSW **583 CLINTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.083 mi.
436 ft. **Site 1 of 5 in cluster J**

Relative:
Lower

Actual:
76 ft.

EDR Historical Cleaners:

Name:	C M B LAUNDRY CORP
Year:	2007
Address:	583 CLINTON AVE

K46 WNW < 1/8 0.083 mi. 439 ft. | **COASTAL GAS STATION 846 FULTON STREET BROOKLYN, NY** | **NY Spills** | **S102662650 N/A**

Site 1 of 15 in cluster K

Relative: Higher

Actual: 79 ft.

SPILLS:

Facility ID:	9607997
DER Facility ID:	246073
Facility Type:	ER
Site ID:	304642
DEC Region:	2
Spill Date:	9/26/1996
Spill Number/Closed Date:	9607997 / 7/1/2010
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	9/26/1996
CID:	266
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/26/1996
Spill Record Last Update:	7/1/2010
Spiller Name:	NITZAN NEEMAN
Spiller Company:	CONCORD TRUCKING
Spiller Address:	46 PAERDEGAT 11TH STREET
Spiller City,St,Zip:	BROOKLYN, NY 11236
Spiller Company:	999
Contact Name:	JEED
Contact Phone:	(718) 399-3704
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"12/29/2003 Reassigned from Rommel to Sun.07/31/09 - Received call from John Ronan 718-474-3400; 917 7636693. Preiously, John e-mail Robert Leung with the following:Hello Robert,The NYSDEC shows spill report 9607997 open for this gasoline service station. The report was created over ten (10) years ago and was for a tank overfill. We are currently before the NYC Board of Standards and Appeals seeking an extension of term for the zoning variance so that we may secure a new certificate of occupancy. Before granting our case, the BSA would like to know that the spill report can be closed out. Please advise us as to what steps we nust take to have the spill report closed out.Thank You,John RonanSenior Project ManagerPhone 1-718-474-3400Cell 1-917-763-6693Fax 1-718-945-5931I requested submission of a spill closure report. (V. Brevdo)02/02/2010 - I requested R. Austin that this 15 gallon tank overfill case be handled by Section of Spill Prevention and Response. V.Brevdo.3/3/10 - Austin - Spill reassigned to Ketani, to investigate if tank overfill created any long term issues - end3/5/10 - Raphael Ketani. The spill took place on 9/26/96. It was a tank overfill of 15 gals. of gasoline. It

COASTAL GAS STATION (Continued) **S102662650**

was unknown why the overfill took place. The spill was called in by Nitzan Neeman of Concord Trucking (718) 209-1155. The contact is Jeed (718) 399-3704. The PBS registration is #2-320420. There are 4 tanks on site. All are active. Three are 4,000 gal. and one is 550 gal. The first two large tanks have gasoline and the other large tank has diesel. The 550 gal. tank has some other type of liquid which isn't indicated on the PBS form. Mail goes to the Fulvan Corp. at 846 Fulton Street, 11238 to the attention of Javaid Jahangir (718) 399-0844. The owner is Paul Cassuto, 102 Jesse Place, East Meadow, NY, 11554. His phone is (516) 579-1793/(917) 494-0287.Property Shark lists the block and lot as 2010 and 5. The main address is 840 Fulton Street. The alternate addresses are: 838-846 Fulton Street; and 485 Vanderbilt Avenue. Photos from 3/28/07 show the CITGO station. ACRIS indicates that a deed transfer took place on 7/22/08 to 531-533 Vanderbilt LLC, 157-55 96th Street, Howard Beach, NY, 11414. There is no paper file, nor are there any E-docs. No other spill cases could be found for the site.On 3/3/10, Randall Austin, Chief of the Spills Unit, asked me to go to the site and see whether they have spill sumps. If they do have spill sumps, then I should check to see whether they are large enough to contain any spills that may occur.3/19/10 - Raphael Ketani. I made an unannouced site visit. The site is an active COASTAL gas station and Fulton Auto Repairs service station. I met Jerry, the manager of the business.3/29/10 - Raphael Ketani. I tried to contact Jerry today, but I could only leave a message.3/31/10 - Raphael Ketani. I contacted Jerry. I asked him about the capacity of the spill containment/overfill containment vessels that he had on site. Jerry explained that this was too technical a question and so he couldn't answer me. He told me to call Mr. Cassuto, the owner of the property.I contacted Mr. Cassuto and asked him whether he had spill containment/overfill containment vessels on site. He said that he thought he did, but he wasn't sure about the details. He said that he will contact his technical people and have them talk to me about this.Charles Nalbon of CJN Consulting (917) 346-8976 called. He said that he was responding to Mr. Cassuto's call regarding spill containment equipment. He said that he was pretty sure that each tank had a 15 gal. spill bucket and an overfill alarm. However, he will go to the site and make sure that this equipment is present. He will call me later. 4/2/10 - Raphael Ketani. I spoke to Mr. Nalbon. He said that he is still trying to find the original overfill investigation report from 1996. He said that he took pictures of the typical spill bucket for a UST at the station. He said that each tank has a 15 gal. spill bucket. He will send me the report when he gets all of the paperwork together.4/15/10 - Raphael Ketani. I spoke to Mr. Nalbon. He said that he found some of the paperwork regarding the spill at the site. He said that he will call me back to discuss the work that was performed. He added that he thought the paperwork indicated that the spill had been closed. I told him that the spill is open in our database.4/26/10 - Raphael Ketani. I spoke to Mr. Nalbon (917) 346-8976 today. He said that the site investigation report was originally sent to Jennifer Rommel, Vadim Brevdo, and Joe Sun of DER Region 2 many years ago. I told him that Mr. Sun and Ms. Rommel had both left the Department. I added that Mr. Brevdo is still here, but I doubt that he could find the report now. I asked Mr. Nalbon to try and obtain another copy of the report from the consulting company that originally performed the investigation. He said that he will try.4/27/10 - Raphael Ketani. I was told that Mr. Nalbon had additional questions regarding the site.

COASTAL GAS STATION (Continued) **S102662650**

I tried to reach him, but could only leave a message.Later, I talked to Mr. Nalbon. He said that he is going to try and get the investigation report from the consultants who had handled the project back in 2001.5/24/10 - Raphael Ketani. I tried to contact Mr. Nalbon regarding whether he had found the 2001 report. However, I could only leave a message stating that either he send DEC the 2001 report or submit a new report indicating that the Coastal Gas Station has the overfill/spill containment equipment.5/25/10 - Raphael Ketani. I spoke to Mr. Nalbon. He said that he found the 2001 remediation report for the site. He said that it was a surface spill. He will bring the report by hand to DEC today. I told him that I will review the report as soon as I get it. I received the 8/24/01 HydroEnvironmental Solutions Inc. UST Closure and Gasoline Tank Upgrade Report (with cover letter dated 9/10/09). The VOC and SVOC analyses for the 6 soil samples that were taken were mostly non-detect or well below TAGM 4046 RSCO standards, with the exception of the benzo series analytes and their combustion products from the boring number 2 and boring number 6 samples. However, there was historical fill at the site. So these analytes were likely elevated due to components of the historical fill. Groundwater was not encountered. I had no comments.I spoke to Mr. Nalbon and told him that the report demonstrated that there was no impact to the subsurface from the surface spill at the site. I asked him to send me the pictures of the 15 gal. overfill buckets. He said that he will.6/7/10 - Raphael Ketani. I spoke to Mr. Nalbon. He said that he has the pictures, but that he forgot to send them. I told him that DEC needs the pictures. Otherwise, the spill case can't be closed. He said that he will send them soon.7/1/10 - Raphael Ketani. Mr. Nalbon dropped off the two pictures of the spill buckets. The pictures depict four spill bucket locations.Based upon the data in the 8/24/01 HydroEnvironmental Solutions Inc. UST Closure and Gasoline Tank Upgrade Report, I have determined that there is no threat to the public or the environment from any spill which had taken place at the site. Therefore, I am closing the spill case.

Remarks: TANK OVERFILL. UNKNOWN EXACT REASON. CLEAN UP CREW ENROUTE.

Material:

Site ID:	304642
Operable Unit ID:	1039043
Operable Unit:	01
Material ID:	343743
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15
Units:	Gallons
Recovered:	15
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K47 WNW < 1/8 0.083 mi. 439 ft. | **FULVAN CORP**
846 FULTON STREET
BROOKLYN, NY 11238

Site 2 of 15 in cluster K

UST **U000407374**
HIST UST **N/A**

Relative: Higher

Actual: 79 ft.

UST:

Id/Status:	2-320420 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2013/04/15
UTM X:	587267.36240999994
UTM Y:	4504136.6709200004
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	14848
Affiliation Type:	Mail Contact
Company Name:	FULVAN CORPORATION
Contact Type:	Not reported
Contact Name:	JAVAID JAHANGIR
Address1:	846 FULTON STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 399-0844
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	3/19/2008

Site Id:	14848
Affiliation Type:	On-Site Operator
Company Name:	FULVAN CORP
Contact Type:	Not reported
Contact Name:	FULVAN CORP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 399-0844
EMail:	Not reported
Fax Number:	Not reported
Modified By:	EXROSSAN
Date Last Modified:	2/11/2005

Site Id:	14848
Affiliation Type:	Emergency Contact
Company Name:	PAUL CASSUTO
Contact Type:	Not reported
Contact Name:	PAUL CASSUTO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

FULVAN CORP (Continued) **U000407374**

Zip Code:	Not reported
Country Code:	999
Phone:	(917) 494-0287
EMail:	Not reported
Fax Number:	Not reported
Modified By:	EXROSSAN
Date Last Modified:	2/11/2005

Site Id:	14848
Affiliation Type:	Facility Owner
Company Name:	PAUL CASSUTO
Contact Type:	OPERATOR/MANAGER
Contact Name:	JAVAID JAHANGIR
Address1:	102 JESSE PL
Address2:	Not reported
City:	EAST MEADOW
State:	NY
Zip Code:	11554
Country Code:	001
Phone:	(516) 579-1793
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	3/19/2008

Tank Info:

Tank Number:	001
Tank ID:	26297
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	06/01/1976
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	21
Date Test:	03/22/2010
Next Test Date:	03/22/2015
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	04/29/2013

Equipment Records:

A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F04 - Pipe External Protection - Fiberglass
B07 - Tank External Protection - Retrofitted Sacrificial Anode
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
J01 - Dispenser - Pressurized Dispenser

FULVAN CORP (Continued) **U000407374**

Tank Number:	002
Tank ID:	26298
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	06/01/1976
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	03/22/2010
Next Test Date:	03/22/2015
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	04/29/2013

Equipment Records:

C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F04 - Pipe External Protection - Fiberglass
B07 - Tank External Protection - Retrofitted Sacrificial Anode
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
J01 - Dispenser - Pressurized Dispenser

Tank Number:	003
Tank ID:	26299
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	06/01/1976
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	21
Date Test:	03/22/2010
Next Test Date:	03/22/2015
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	04/29/2013

Equipment Records:

A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F04 - Pipe External Protection - Fiberglass
B07 - Tank External Protection - Retrofitted Sacrificial Anode
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

FULVAN CORP (Continued) **U000407374**

C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
J01 - Dispenser - Pressurized Dispenser

Tank Number:	004
Tank ID:	26300
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	500
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

HIST UST:

PBS Number:	2-320420
SPDES Number:	Not reported
Emergency Contact:	JAGJIT SINGH
Emergency Telephone:	(718) 831-0098
Operator:	JAGJIT SINGH
Operator Telephone:	(718) 399-0844
Owner Name:	JAGJIT SINGH
Owner Address:	846 FULTON STREET
Owner City,St,Zip:	BKLYN, NY 11238
Owner Telephone:	(718) 831-0098
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	D.D. GAS INC.
Mailing Address:	846 FULTON STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BKLYN, NY 11238
Mailing Contact:	JAGJIT SINGH
Mailing Telephone:	(718) 399-0844

FULVAN CORP (Continued) **U000407374**

Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	846 FULTON ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/12/2000
Expiration Date:	10/23/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	12500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	500
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

K48
WNW
< 1/8
0.083 mi.
439 ft.

846 FULTON ST
BROOKLYN, NY 11238

Site 3 of 15 in cluster K

EDR US Hist Auto Stat **1015654489**
N/A

Relative:
Higher

Actual:
79 ft.

EDR Historical Auto Stations:

Name:	DOABA PETROLEUM INC
Year:	2001
Address:	846 FULTON ST
Name:	FULTON AUTO REPAIR
Year:	2002
Address:	846 FULTON ST
Name:	DOABA PETROLEUM INC
Year:	2010
Address:	846 FULTON ST

I49
East
< 1/8
0.084 mi.
441 ft.

221814; FULTON ST
FULTON ST
BROOKLYN, NY

Site 4 of 7 in cluster I

NY Spills **S110750340**
N/A

Relative:
Lower

Actual:
75 ft.

SPILLS:

Facility ID:	1008899
DER Facility ID:	108282
Facility Type:	ER
Site ID:	442397
DEC Region:	2
Spill Date:	6/7/2010
Spill Number/Closed Date:	1008899 / 3/30/2011
Spill Cause:	Unknown
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	DMPOKRZY
Referred To:	Not reported
Reported to Dept:	6/30/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/23/2010
Spill Record Last Update:	11/23/2010
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	5030 BROADWAY
Spiller City,St,Zip:	New York, NY
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383

221814; FULTON ST (Continued) **S110750340**

DEC Memo: 3/30/2011 - See eDocs for Con Ed report detailing cleanup and closure.
Not reported
Remarks: Not reported

Material:
Site ID: 442397
Operable Unit ID: 1192900
Operable Unit: 01
Material ID: 2188250
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

L50 **BNS BUILDINGS LLC** **AST** **A100293290**
NE **500 WASHINGTON AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.086 mi.
453 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
76 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-609425
Program Type: PBS
UTM X: 587456.66321999999
UTM Y: 4504193.1960800001
Expiration Date: 2014/01/09
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 31269
Affiliation Type: Facility Owner
Company Name: BNS BUILDINGS LLC
Contact Type: AGENT
Contact Name: NICK CONWAY
Address1: 28-18 31 ST
Address2: Not reported
City: ASTORIA
State: NY
Zip Code: 11102
Country Code: 001
Phone: (718) 267-0300
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 10/31/2008

Site Id: 31269

BNS BUILDINGS LLC (Continued) **A100293290**

Affiliation Type:	On-Site Operator
Company Name:	BNS BUILDINGS LLC
Contact Type:	Not reported
Contact Name:	MENSUR NIKAJ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 267-0300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/31/2008

Site Id:	31269
Affiliation Type:	Emergency Contact
Company Name:	BNS BUILDINGS LLC
Contact Type:	Not reported
Contact Name:	NICK CONWAY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 267-0347
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/31/2008

Site Id:	31269
Affiliation Type:	Mail Contact
Company Name:	ALMA REALTY CORP.
Contact Type:	Not reported
Contact Name:	NICK CONWAY
Address1:	31-10 37TH AVENUE
Address2:	SUITE 500
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 267-0300
EMail:	NCONWAY@ALMAREALTY.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	11/3/2008

Tank Info:

Tank Number:	001
Tank Id:	67397
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

BNS BUILDINGS LLC (Continued) **A100293290**

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
G07 - Tank Secondary Containment - Excavation Liner
I02 - Overfill - High Level Alarm
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
K00 - Spill Prevention - None

Tank Location:	1
Tank Type:	Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/1992
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	10/31/2008
Material Name:	#2 Fuel Oil (On-Site Consumption)

M51 **511 VANDERBILT AV** **NY Spills** **S104650190**
West **511 VANDERBILT AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.089 mi.
472 ft. **Site 1 of 10 in cluster M**

Relative:
Lower

Actual:
75 ft.

SPILLS:

Facility ID:	9912177
DER Facility ID:	265509
Facility Type:	ER
Site ID:	330006
DEC Region:	2
Spill Date:	1/21/2000
Spill Number/Closed Date:	9912177 / 7/5/2005
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	kamalone
Referred To:	Not reported
Reported to Dept:	1/21/2000
CID:	312
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

511 VANDERBILT AV (Continued) **S104650190**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/21/2000
Spill Record Last Update:	7/28/2005
Spiller Name:	Not reported
Spiller Company:	COLUMBIA UTILITIES
Spiller Address:	1350 60TH ST
Spiller City,St,Zip:	BROOKLYN, NY 11219-
Spiller Company:	001
Contact Name:	REVEREND DEBRA COPELAND
Contact Phone:	(718) 344-7511
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"01/26/04Reassigned fromRommel to Austin02/17/04: Reassigned from AUSTIN to KRIMGOLD.6/05: Assigned to Maloney as part of the Spill Initiative6/8/05: Spoke with Steve Moser at Columbia Utilities. He will contact the insurance agency to get proof of clean-up and fax a letter to us. - Maloney7/05 - Rec'd clean-up report; spill closed. - Maloney
Remarks:	driver went to the wrong location - caller's ins. co was contacted TO CONTACT A CLEANUP COMPANY - OIL IS IN THE FINISHED BASEMENT

Material:

Site ID:	330006
Operable Unit ID:	1086699
Operable Unit:	01
Material ID:	294070
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	35
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

M52 **LOT 18,TAXBLOCK 2010** **E DESIGNATION** **S108984019**
West **507 VANDERBILT AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.090 mi.
475 ft. **Site 2 of 10 in cluster M**

Relative:
Lower

Actual:
76 ft.

E DESIGNATION:

Tax Lot(s):	18
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003

LOT 18,TAXBLOCK 2010 (Continued) **S108984019**

School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	R6
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	C0
Land Use Category:	02
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	MOORE EDWIN J
Lot Area:	000001600
Total Building Floor Area:	00000002400
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	002.00
Residential Units:	00003
Non and Residential Units:	00003
Lot Frontage:	0020.00
Lot Depth:	0080.00
Building Frontage:	0020.00
Building Depth:	0040.00
Proximity Code:	3
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	1
Land Assessed Value:	00000001038
Total Assessed Value:	00000009158
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1899
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.50
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020100018
Condominium Number:	00000
Census Tract 2:	0199

LOT 18,TAXBLOCK 2010 (Continued) **S108984019**

X Coordinate:	0993231
Y Coordinate:	0188118
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

M53 **LOT 19,TAXBLOCK 2010** **E DESIGNATION** **S108984022**
West **505 VANDERBILT AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.091 mi.
478 ft. **Site 3 of 10 in cluster M**

Relative:
Lower

Actual:
76 ft.

E DESIGNATION:

Tax Lot(s):	19
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	C3
Land Use Category:	02
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	MOORE EDWIN J
Lot Area:	000001600
Total Building Floor Area:	00000002400
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000

LOT 19,TAXBLOCK 2010 (Continued) **S108984022**

Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	003.00
Residential Units:	00004
Non and Residential Units:	00004
Lot Frontage:	0020.00
Lot Depth:	0080.00
Building Frontage:	0020.00
Building Depth:	0040.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000002840
Total Assessed Value:	00000032076
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.50
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020100019
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993253
Y Coordinate:	0188141
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

M54 **LOT 20,TAXBLOCK 2010** **E DESIGNATION** **S108984025**
West **503 VANDERBILT AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.091 mi.
481 ft. **Site 4 of 10 in cluster M**

Relative:
Lower

Actual:
76 ft.

E DESIGNATION:

Tax Lot(s):	20
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	C0
Land Use Category:	02
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	KURT A RICHWERGER
Lot Area:	000001600
Total Building Floor Area:	00000002400
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	002.00
Residential Units:	00003
Non and Residential Units:	00003
Lot Frontage:	0020.00
Lot Depth:	0080.00
Building Frontage:	0020.00
Building Depth:	0040.00
Proximity Code:	2
Irregular Lot Code:	N
Lot Type:	5

LOT 20,TAXBLOCK 2010 (Continued) **S108984025**

Basement Type Grade:	1
Land Assessed Value:	00000000834
Total Assessed Value:	00000009866
Land Exempt Value:	00000000834
Total Exempt Value:	00000001430
Year Built:	1899
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.50
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020100020
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993226
Y Coordinate:	0188156
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

M55 **503 VANDERBILT AVE** **NY Spills** **S103272560**
West **503 VANDERBILT AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.091 mi.
481 ft. **Site 5 of 10 in cluster M**

Relative:
Lower

Actual:
76 ft.

SPILLS:

Facility ID:	9509830
DER Facility ID:	126587
Facility Type:	ER
Site ID:	148771
DEC Region:	2
Spill Date:	11/8/1995
Spill Number/Closed Date:	9509830 / 2/6/2004
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	11/8/1995
CID:	211
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons

503 VANDERBILT AVE (Continued) **S103272560**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/8/1995
Spill Record Last Update:	2/6/2004
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"no reoccurance
Remarks:	CALLER REPORTS THERE IS A STRONG SMELL OF WHAT SHE BELEIVES TO BEAN OIL PRODUCT IN RESIDENCE - CALLER BELEIVES PRODUCT MAY HAVEBEEN DUMPED IN SEWER SYSTEM - CALLER STATES THERE IS A SERVICESTATION AT CORNER OF FULTON & VANDERBILT THAT MAY BE RESPONSBLE

Material:

Site ID:	148771
Operable Unit ID:	1020246
Operable Unit:	01
Material ID:	360762
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

N56 **MANHOLE # 289** **NY Spills** **S106970081**
North **WAVERLEY AVE AT GATES AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.092 mi.
485 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
79 ft.

SPILLS:

Facility ID:	0505088
DER Facility ID:	296492
Facility Type:	ER
Site ID:	350047
DEC Region:	2
Spill Date:	7/27/2005
Spill Number/Closed Date:	0505088 / 1/10/2006
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401

MANHOLE # 289 (Continued) **S106970081**

Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	7/27/2005
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/27/2005
Spill Record Last Update:	1/10/2006
Spiller Name:	ERT DESK MIKE DAUGHTERY
Spiller Company:	MANHOLE#289
Spiller Address:	WAVERLEY AVE/ GATES AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	ERT DESK MIKE DAUGHTERY
Contact Phone:	(212) 580-8383
DEC Memo:	160076. 7/27/05 - 1559hrs - Louis Bilbo # 38673 Splicer, Q&A, reports while on location to perform inspections for low voltage using acct # C7513 found 3 qtsunknown oil on 1 gallon water in M289. No fire/smoke involved. No sewers or waterways affected. No private property affected. Structure has been dfaulted by his OS Sobilewski dfault # 05269, fdr # unknown at this time. Dfault is 3c not hooked to tank - tank has been removed from structure - and cable not drained and filled. Sample taken marked E priority chain of custody # EE01953. No parking restrictions, structure on SEC. Env. stop tag # 41097 placed. Clean up pending safe access and test results. cn#19661
Remarks:	CLEAN UP IS NOT IN PROCESS. 160076.

Material:

Site ID:	350047
Operable Unit ID:	1107629
Operable Unit:	01
Material ID:	2097518
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

N57 North < 1/8 0.092 mi. 486 ft. | **NYNEX WAVERLY & GATES AVE BROOKLYN, NY 11238** | **MANIFEST** | **1009231889 N/A**

Site 2 of 2 in cluster N

Relative: Higher

Actual: 79 ft.

NY MANIFEST:

EPA ID:	NYP000794685
Country:	USA
Mailing Name:	NYNEX
Mailing Contact:	RICHARD SMITH
Mailing Address:	1095 AVE OF AMER
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10036
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-395-6040

Document ID:	NJA1771114
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPES50
Trans2 State ID:	Not reported
Generator Ship Date:	940129
Trans1 Recv Date:	940129
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940203
Part A Recv Date:	940401
Part B Recv Date:	940228
Generator EPA ID:	NYP000794685
Trans1 EPA ID:	NYD980761191
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00385
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	94

I58 East < 1/8 0.092 mi. 486 ft. | **916 FULTON ST BROOKLYN, NY 11238** | **EDR US Hist Cleaners** | **1015105807 N/A**

Site 5 of 7 in cluster I

Relative: Lower

Actual: 74 ft.

EDR Historical Cleaners:

Name:	MEGA CLEANERS
Year:	2006
Address:	916 FULTON ST
Name:	MEGA CLEANERS
Year:	2007
Address:	916 FULTON ST
Name:	MEGA DRY CLEANERS

(Continued) **1015105807**

Year: 2011
Address: 916 FULTON ST

I59
East
< 1/8
0.092 mi.
486 ft.

MEGA CLEANERS
916 FULTON STREET
BROOKLYN, NY 11238

DRYCLEANERS **S106435813**
N/A

Site 6 of 7 in cluster I

Relative:
Lower

Actual:
74 ft.

DRYCLEANERS:

Facility ID:	2-6103-00192
Phone Number:	718-623-1696
Region:	Not reported
Registration Effective Date:	11/8/2001 11:16:36:966
Inspection Date:	12JUN12
Install Date:	95/10
Drop Shop:	Not reported
Shutdown:	Y
Alternate Solvent:	Not reported
Current Business:	Not reported

I60
East
< 1/8
0.092 mi.
486 ft.

MEGA CLEANERS
916 FULTON ST
BROOKLYN, NY

RCRA-CESQG **1000890204**
FINDS **NY0000277285**
MANIFEST

Site 7 of 7 in cluster I

Relative:
Lower

Actual:
74 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	MEGA DRY CLEANERS
Facility address:	916 FULTON ST BROOKLYN, NY 11238
EPA ID:	NY0000277285
Mailing address:	FULTON ST BROOKLYN, NY 11238
Contact:	LUIS MARTINEZ
Contact address:	FULTON ST BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	(718) 857-0802
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

MEGA CLEANERS (Continued) **1000890204**

hazardous waste

Owner/Operator Summary:

Owner/operator name:	LUIS MARTINEZ
Owner/operator address:	916 FULTON ST BROOKLYN, NY 11238
Owner/operator country:	US
Owner/operator telephone:	(718) 857-0802
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	LUIS MARTINEZ
Owner/operator address:	916 FULTON ST BROOKLYN, NY 11238
Owner/operator country:	US
Owner/operator telephone:	(718) 857-0802
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	MEGA DRY CLEANERS
Classification:	Conditionally Exempt Small Quantity Generator

Date form received by agency:	07/12/2000
Facility name:	MEGA DRY CLEANERS
Classification:	Small Quantity Generator

Date form received by agency:	07/14/1999
Facility name:	MEGA DRY CLEANERS
Classification:	Small Quantity Generator

Violation Status: No violations found

FINDS:

MEGA CLEANERS (Continued) **1000890204**

Registry ID: 110004314947

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

NY MANIFEST:

EPA ID:	NY0000277285
Country:	USA
Mailing Name:	D'GALAS CLNRS
Mailing Contact:	VICTOR PERALTA ROJAS
Mailing Address:	916 FULTON ST
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11238
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-857-0802

Document ID:	NYC3171464
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	940728
Trans1 Recv Date:	940728
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940728
Part A Recv Date:	940809
Part B Recv Date:	940808
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV

MEGA CLEANERS (Continued) **1000890204**

Quantity:	00070
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NYC3343487
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	941115
Trans1 Recv Date:	941115
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941115
Part A Recv Date:	941201
Part B Recv Date:	941125
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00070
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NYC3128591
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	940920
Trans1 Recv Date:	940920
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940920
Part A Recv Date:	940927
Part B Recv Date:	940929
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00070
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

MEGA CLEANERS (Continued) **1000890204**

Document ID:	NYC3898844
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	950531
Trans1 Recv Date:	950531
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950531
Part A Recv Date:	950615
Part B Recv Date:	950608
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00150
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NYC4246391
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYGF2859
Trans2 State ID:	FT43560
Generator Ship Date:	961015
Trans1 Recv Date:	961015
Trans2 Recv Date:	961018
TSD Site Recv Date:	961021
Part A Recv Date:	961031
Part B Recv Date:	961114
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	MOD095038998
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC3983051
Manifest Status:	Completed copy

MEGA CLEANERS (Continued) **1000890204**

Trans1 State ID:	GF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	960111
Trans1 Recv Date:	960111
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960116
Part A Recv Date:	960123
Part B Recv Date:	960201
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC4199062
Manifest Status:	Completed copy
Trans1 State ID:	NYJE4550
Trans2 State ID:	4295AZ
Generator Ship Date:	960723
Trans1 Recv Date:	960723
Trans2 Recv Date:	960726
TSD Site Recv Date:	960727
Part A Recv Date:	960802
Part B Recv Date:	960814
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC4153555
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	1JU058OK
Generator Ship Date:	960624
Trans1 Recv Date:	960624
Trans2 Recv Date:	960628
TSD Site Recv Date:	960629
Part A Recv Date:	Not reported
Part B Recv Date:	960717
Generator EPA ID:	NY0000277285

MEGA CLEANERS (Continued) **1000890204**

Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC4397038
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYGF2859
Trans2 State ID:	Not reported
Generator Ship Date:	961206
Trans1 Recv Date:	961206
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	961212
Part A Recv Date:	961231
Part B Recv Date:	970109
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NYC3928050
Manifest Status:	Completed copy
Trans1 State ID:	GF2859NY
Trans2 State ID:	1636BCOK
Generator Ship Date:	960306
Trans1 Recv Date:	960306
Trans2 Recv Date:	960308
TSD Site Recv Date:	960309
Part A Recv Date:	960320
Part B Recv Date:	960321
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.

MEGA CLEANERS (Continued) **1000890204**

Specific Gravity:	100
Year:	96

Document ID:	NYC4915855
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	971209
Trans1 Recv Date:	971209
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	971217
Part A Recv Date:	980107
Part B Recv Date:	980121
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NYC5645485
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	05/26/1999
Trans1 Recv Date:	05/26/1999
Trans2 Recv Date:	06/03/1999
TSD Site Recv Date:	06/08/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

MEGA CLEANERS (Continued) **1000890204**

Document ID:	NYC5975043
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	11/08/1999
Trans1 Recv Date:	11/08/1999
Trans2 Recv Date:	11/10/1999
TSD Site Recv Date:	11/16/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	06
Manifest Status:	000830865JJK
Trans1 State ID:	NY0000277285
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	MOD09538998
Part B Recv Date:	2006-10-19
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	160
Handling Method:	P
Specific Gravity:	1
Waste Code:	R
Quantity:	D040
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	NYC6774401
Manifest Status:	Not reported

MEGA CLEANERS (Continued) **1000890204**

Trans1 State ID:	SCR000075150
Trans2 State ID:	NJD071629976
Generator Ship Date:	07/18/2002
Trans1 Recv Date:	07/18/2002
Trans2 Recv Date:	07/26/2002
TSD Site Recv Date:	08/05/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYC94889J
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00140
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC6680351
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	MOD095038998
Generator Ship Date:	03/27/2002
Trans1 Recv Date:	03/27/2002
Trans2 Recv Date:	04/04/2002
TSD Site Recv Date:	04/05/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NJXAB6384
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00070
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

MEGA CLEANERS (Continued) **1000890204**

Year: 2002

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: NJD071629976
Generator Ship Date: 2007-08-15
Trans1 Recv Date: 2007-08-15
Trans2 Recv Date: 2007-08-23
TSD Site Recv Date: 2007-08-24
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000277285
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD980587364
Waste Code: Not reported
Quantity: 195.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2007
Manifest Tracking Num: 000049897SKS
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H020

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: OHR000110858
Generator Ship Date: 2009-08-13
Trans1 Recv Date: 2009-08-13
Trans2 Recv Date: 2009-08-20
TSD Site Recv Date: 2009-08-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000277285
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD980587364
Waste Code: Not reported
Quantity: 390.0
Units: P - Pounds
Number of Containers: 2.0

MEGA CLEANERS (Continued) **1000890204**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002030360SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	NYC3418244
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	950111
Trans1 Recv Date:	950111
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950111
Part A Recv Date:	950123
Part B Recv Date:	950120
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00070
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NYC7675874
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	08/09/2005
Trans1 Recv Date:	08/09/2005
Trans2 Recv Date:	08/11/2005
TSD Site Recv Date:	08/19/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000277285
Trans1 EPA ID:	NY71148JR
Trans2 EPA ID:	NJT44V4W
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV

MEGA CLEANERS (Continued) **1000890204**

Quantity:	00480
Units:	P - Pounds
Number of Containers:	004
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	Not reported

Click this hyperlink while viewing on your computer to access
25 additional NY_MANIFEST: record(s) in the EDR Site Report.

L61 **CON EDISON** **MANIFEST** **S113814802**
NE **475 WASHINGTON** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.094 mi.
497 ft. **Site 2 of 2 in cluster L**

Relative:
Lower

Actual:
75 ft.

NY MANIFEST:

EPA ID:	NYP004311510
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	13-May-2013 00:00:00
Trans1 Recv Date:	13-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	14-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004311510
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	60
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017568GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N

CON EDISON (Continued) **S113814802**

Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

J62 **EDR US Hist Cleaners** **1015078108**
SSW **592 CLINTON AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.094 mi.
498 ft. **Site 2 of 5 in cluster J**

Relative:
Lower

Actual:
77 ft.

EDR Historical Cleaners:

Name:	JNJ CLEANERS INC
Year:	2006
Address:	592 CLINTON AVE
Name:	JNJ CLEANERS INC
Year:	2007
Address:	592 CLINTON AVE
Name:	JNJ CLEANERS INC
Year:	2008
Address:	592 CLINTON AVE
Name:	JNJ CLEANERS INC
Year:	2009
Address:	592 CLINTON AVE

M63 **REGGEV CONSTRUCTION** **MANIFEST** **S112141165**
WSW **470 VANDERBILT AVE** **N/A**
< 1/8 **BROOKLYN, NY 11230**
0.097 mi.
511 ft. **Site 6 of 10 in cluster M**

Relative:
Lower

Actual:
74 ft.

NY MANIFEST:

EPA ID:	NYR000087742
Country:	USA
Mailing Name:	REGGEV CONSTRUCTION
Mailing Contact:	ATLANTIC TELECOM CENTER
Mailing Address:	1825 CONEY ISLAND DRIVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11230
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	973-344-4004

NY MANIFEST:

No Manifest Records Available

M64 WSW < 1/8 0.097 mi. 511 ft. | **ATLANTIC TELECOM CENTER 470 VANDERBILT AVE BROOKLYN, NY** | **NY Spills** | **S104509372 N/A**

Site 7 of 10 in cluster M

Relative: Lower

Actual: 74 ft.

SPILLS:

Facility ID:	9913613
DER Facility ID:	75555
Facility Type:	ER
Site ID:	81723
DEC Region:	2
Spill Date:	3/2/2000
Spill Number/Closed Date:	9913613 / 12/31/2002
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	3/2/2000
CID:	312
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/2/2000
Spill Record Last Update:	2/20/2004
Spiller Name:	TOM RAY
Spiller Company:	VANDERBILT HOLDINGS LLC
Spiller Address:	1001 PENN AVE
Spiller City,St,Zip:	WASHINGTON, DC 20004-2505
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	VACANT MANUFACTURING PLANT - 5’ OF FREE FLOATING PRODUCT THAT WAS DRILLED INTO UNDER THE BLDG - ON SITE WELL THAT HAS FREE FLOATING OIL IN IT - 8 OR 10K AST IN THE BASEMENT THAT FELL OVER AND BURST

Material:

Site ID:	81723
Operable Unit ID:	1088155
Operable Unit:	01
Material ID:	295451
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	81723

ATLANTIC TELECOM CENTER (Continued) **S104509372**

Operable Unit ID:	1088155
Operable Unit:	01
Material ID:	295452
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9910950
DER Facility ID:	75555
Facility Type:	ER
Site ID:	81720
DEC Region:	2
Spill Date:	12/15/1999
Spill Number/Closed Date:	9910950 / 12/31/2002
Spill Cause:	Housekeeping
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	12/15/1999
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/15/1999
Spill Record Last Update:	12/31/2002
Spiller Name:	TOM RAY
Spiller Company:	VANDERBILT HOLDINGFS LLC
Spiller Address:	1001 PENN AVENUE
Spiller City,St,Zip:	WASHINGTON, DC 20004-2505
Spiller Company:	001
Contact Name:	MR LICHTMAN
Contact Phone:	(212) 265-2280
DEC Memo:	Not reported
Remarks:	There is borings taking place and caller was told that there is contaminated soil

Material:

Site ID:	81720
Operable Unit ID:	1085711
Operable Unit:	01

ATLANTIC TELECOM CENTER (Continued) **S104509372**

Material ID:	296425
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9912247
DER Facility ID:	75555
Facility Type:	ER
Site ID:	81721
DEC Region:	2
Spill Date:	1/24/2000
Spill Number/Closed Date:	9912247 / 12/31/2002
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1/24/2000
CID:	233
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/24/2000
Spill Record Last Update:	1/8/2004
Spiller Name:	TOM RAY
Spiller Company:	VANDERBILT HOLDINGS LLC
Spiller Address:	1001 PENN AVE
Spiller City,St,Zip:	WASHINGTON, DC 20004-2505
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	Caller has a crew enroute to scene he has no info on the spill at this time.

Material:

Site ID:	81721
Operable Unit ID:	1086777
Operable Unit:	01
Material ID:	294139
Material Code:	0001A

ATLANTIC TELECOM CENTER (Continued) **S104509372**

Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9912266
DER Facility ID:	75555
Facility Type:	ER
Site ID:	81722
DEC Region:	2
Spill Date:	1/24/2000
Spill Number/Closed Date:	9912266 / 12/31/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1/25/2000
CID:	282
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/25/2000
Spill Record Last Update:	12/31/2002
Spiller Name:	TOM RAY
Spiller Company:	VANDERBILT HOLDINGS, LLC
Spiller Address:	1001 PENN AVE
Spiller City,St,Zip:	WASHINGTON, DC 20004-2505
Spiller Company:	001
Contact Name:	MR LICHTMAN
Contact Phone:	(212) 265-2280
DEC Memo:	Not reported
Remarks:	There was #2 oil spilled around the 6 tanks at the business.spill is not cleaned up.

Material:

Site ID:	81722
Operable Unit ID:	1086795
Operable Unit:	01
Material ID:	294155
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported

ATLANTIC TELECOM CENTER (Continued) **S104509372**

Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

M65 WSW < 1/8 0.097 mi. 511 ft. | **REGGEV CONSTRUCTION** | **RCRA NonGen / NLR** | **1004761524**
470 VANDERBILT AVE | **NYR000087742**
BROOKLYN, NY 11230

Site 8 of 10 in cluster M

Relative: Lower

Actual: 74 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/20/2012
Facility name:	REGGEV CONSTRUCTION
Facility address:	470 VANDERBILT AVE BROOKLYN, NY 11230
EPA ID:	NYR000087742
Mailing address:	CONEY ISLAND AVE BROOKLYN, NY 11230
Contact:	RAMI MECHALOVICH
Contact address:	CONEY ISLAND AVE BROOKLYN, NY 11230
Contact country:	US
Contact telephone:	(718) 382-4511
Contact email:	REGGEV1@HOTMAIL.COM
EPA Region:	02
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ATARA VANDERBILT LLC
Owner/operator address:	BROADWAY NEW YORK, NY 20004
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	11/17/2007
Owner/Op end date:	Not reported

Owner/operator name:	REGGEV CONSTRUCTION
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	04/01/2011
Owner/Op end date:	Not reported

REGGEV CONSTRUCTION (Continued) **1004761524**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 05/02/2012
Facility name: REGGEV CONSTRUCTION
Site name: 4 ATARA VANDERBILT LLC
Classification: Large Quantity Generator

Date form received by agency: 05/24/2011
Facility name: REGGEV CONSTRUCTION
Classification: Large Quantity Generator

Date form received by agency: 01/01/2007
Facility name: REGGEV CONSTRUCTION
Site name: ATLANTIC TELECOM CENTER
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Facility name: REGGEV CONSTRUCTION
Site name: ATLANTIC TELECOM CENTER
Classification: Not a generator, verified

Date form received by agency: 07/07/2000
Facility name: REGGEV CONSTRUCTION
Site name: ATLANTIC TELECOM CENTER
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D008
Waste name: LEAD

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D008
Waste name: LEAD
Amount (Lbs): 14400

REGGEV CONSTRUCTION (Continued) **1004761524**

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 05/24/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

M66 **VMS** **LTANKS** **U003074296**
WSW **470 VANDERBILT AVENUE** **UST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304** **NY Spills**
0.097 mi.
511 ft. **Site 9 of 10 in cluster M**

Relative:
Lower

Actual:
74 ft.

LTANKS:
Site ID: 241920
Spill Number/Closed Date: 0110901 / 2/14/2003
Spill Date: 1/27/2002
Spill Cause: Tank Failure
Spill Source: Gasoline Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 4301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 2/14/2002
CID: 397
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2/14/2002
Spill Record Last Update: 2/14/2003
Spiller Name: Not reported
Spiller Company: COASTAL
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: CALLER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 198831
DEC Memo: Not reported
Remarks: tanks failure leaking product. unk clean up.

Material:
Site ID: 241920
Operable Unit ID: 849378
Operable Unit: 01
Material ID: 528506
Material Code: 0854B
Material Name: BENZOL

VMS (Continued) **U003074296**

Case No.:	00071432
Material FA:	Hazardous Material
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	241920
Operable Unit ID:	849378
Operable Unit:	01
Material ID:	528504
Material Code:	0063A
Material Name:	UNKNOWN HAZARDOUS MATERIAL
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

UST:

Id/Status:	2-045519 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2016/09/07
UTM X:	577390
UTM Y:	4496404
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	574
Affiliation Type:	Mail Contact
Company Name:	NICK SINGH
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	470 VANDERBILT AVENUE
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10302
Country Code:	001
Phone:	(917) 215-5949
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/27/2013

Site Id:	574
Affiliation Type:	On-Site Operator
Company Name:	VMS
Contact Type:	Not reported
Contact Name:	NSS PETROLEUM

VMS (Continued) **U003074296**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 815-6960
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/27/2013

Site Id:	574
Affiliation Type:	Emergency Contact
Company Name:	J.K. PETROLEUM INC.
Contact Type:	Not reported
Contact Name:	NICK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 215-5949
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/27/2013

Site Id:	574
Affiliation Type:	Facility Owner
Company Name:	J.K. PETROLEUM INC.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	4668 AMBOY ROAD
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10312
Country Code:	001
Phone:	(718) 984-9551
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/27/2013

Tank Info:

Tank Number:	1
Tank ID:	45440
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	12/01/1974
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground

VMS (Continued) **U003074296**

Tank Type: Steel/carbon steel
Material Code: 2712
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21
Date Test: 12/23/2009
Next Test Date: Not reported
Pipe Model: B
Modified By: NRLOMBAR
Last Modified: 03/27/2013

Equipment Records:

A02 - Tank Internal Protection - Rubber Liner
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
J01 - Dispenser - Pressurized Dispenser
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
E04 - Piping Secondary Containment - Double-Walled (Underground)

Tank Number: 2
Tank ID: 45441
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 12/01/1974
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 2712
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21
Date Test: 12/23/2009
Next Test Date: Not reported
Pipe Model: B
Modified By: NRLOMBAR
Last Modified: 03/27/2013

Equipment Records:

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
A01 - Tank Internal Protection - Epoxy Liner
G00 - Tank Secondary Containment - None
B02 - Tank External Protection - Original Sacrificial Anode
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
J01 - Dispenser - Pressurized Dispenser

VMS (Continued) **U003074296**

E04 - Piping Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm

Tank Number:	3
Tank ID:	45442
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	12/01/1974
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	04/16/2010
Next Test Date:	Not reported
Pipe Model:	B
Modified By:	NRLOMBAR
Last Modified:	03/27/2013

Equipment Records:

J01 - Dispenser - Pressurized Dispenser
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
A01 - Tank Internal Protection - Epoxy Liner
G00 - Tank Secondary Containment - None
B02 - Tank External Protection - Original Sacrificial Anode
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

SPILLS:

Facility ID:	9806994
DER Facility ID:	198831
Facility Type:	ER
Site ID:	241921
DEC Region:	2
Spill Date:	9/7/1998
Spill Number/Closed Date:	9806994 / 9/22/1998
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	9/8/1998
CID:	281
Water Affected:	Not reported

VMS (Continued) **U003074296**

Spill Source:	Gasoline Station
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/8/1998
Spill Record Last Update:	9/22/1998
Spiller Name:	STEVE
Spiller Company:	470 VADERBILT AVE, INC.
Spiller Address:	470 VANDERBILT AVE.
Spiller City,St,Zip:	STATEN ISLAND, NY 10312-
Spiller Company:	001
Contact Name:	STEVE
Contact Phone:	(718) 972-4300
DEC Memo:	Not reported
Remarks:	CALLER REPORTS THAT AT A SERVICE STATION LOCATED AT ABOVE ADDRESSTHERE IS TANK REMOVAL IN PROGRESS. CALLER REPORTS STRONG ODOROF POSSIBLY GASOLINE IN ABOVE AREA. CALL REQUESTS CALL BACK FROM DEC.

Material:

Site ID:	241921
Operable Unit ID:	1068068
Operable Unit:	01
Material ID:	318123
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

M67 **VANDERBILT** **UST** **U004107548**
WSW **470 VANDERBILT AVENUE** **AST** **N/A**
< 1/8 **BROOKLYN, NY 11218**
0.097 mi.
511 ft. **Site 10 of 10 in cluster M**

Relative:
Lower

Actual:
74 ft.

UST:

Id/Status:	2-610556 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2012/11/13
UTM X:	586413.09123000002
UTM Y:	4500716.4646699997
Site Type:	Apartment Building/Office Building

Affiliation Records:

VANDERBILT (Continued) **U004107548**

Site Id:	381040
Affiliation Type:	Mail Contact
Company Name:	GFI MGMT SERVICES, INC.
Contact Type:	Not reported
Contact Name:	DAVID ARNOW
Address1:	50 BROADWAY 4TH FL
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 837-4539
EMail:	DARNOW@GFICAP.COM
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Site Id:	381040
Affiliation Type:	On-Site Operator
Company Name:	VANDERBILT
Contact Type:	Not reported
Contact Name:	ANTHONY BONILLA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-6816
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Site Id:	381040
Affiliation Type:	Emergency Contact
Company Name:	ATARA VANDERBILT, LLC.
Contact Type:	Not reported
Contact Name:	ANTHONY BONILLA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 247-6669
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Site Id:	381040
Affiliation Type:	Facility Owner
Company Name:	ATARA VANDERBILT, LLC.
Contact Type:	VP
Contact Name:	S HWING
Address1:	50 BROADWAY 4TH FLOOR

VANDERBILT (Continued) **U004107548**

Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 837-4539
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Tank Info:

Tank Number:	123
Tank ID:	217085
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	20000
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	EJCALIFA
Last Modified:	05/07/2007

Equipment Records:

C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number:	124
Tank ID:	217086
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	20000
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

VANDERBILT (Continued) **U004107548**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: EJCALIFA
Last Modified: 05/07/2007

Equipment Records:

F04 - Pipe External Protection - Fiberglass
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number: 125
Tank ID: 217087
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 20000
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: EJCALIFA
Last Modified: 05/07/2007

Equipment Records:

B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
F04 - Pipe External Protection - Fiberglass
I00 - Overfill - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number: 126
Tank ID: 217088
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 20000
Install Date: Not reported
Date Tank Closed: Not reported

VANDERBILT (Continued) **U004107548**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	EJCALIFA
Last Modified:	05/07/2007

Equipment Records:

F04 - Pipe External Protection - Fiberglass
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I00 - Overfill - None

Tank Number:	127
Tank ID:	217089
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	20000
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	EJCALIFA
Last Modified:	05/07/2007

Equipment Records:

F04 - Pipe External Protection - Fiberglass
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
G03 - Tank Secondary Containment - Vault (w/o access)

AST:

Region:	STATE

VANDERBILT (Continued) **U004107548**

DEC Region:	2
Site Status:	Active
Facility Id:	2-610556
Program Type:	PBS
UTM X:	586413.09123000002
UTM Y:	4500716.4646699997
Expiration Date:	2012/11/13
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	381040
Affiliation Type:	Mail Contact
Company Name:	GFI MGMT SERVICES, INC.
Contact Type:	Not reported
Contact Name:	DAVID ARNOW
Address1:	50 BROADWAY 4TH FL
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 837-4539
EMail:	DARNOW@GFICAP.COM
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Site Id:	381040
Affiliation Type:	On-Site Operator
Company Name:	VANDERBILT
Contact Type:	Not reported
Contact Name:	ANTHONY BONILLA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-6816
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Site Id:	381040
Affiliation Type:	Emergency Contact
Company Name:	ATARA VANDERBILT, LLC.
Contact Type:	Not reported
Contact Name:	ANTHONY BONILLA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 247-6669
EMail:	Not reported
Fax Number:	Not reported

VANDERBILT (Continued) **U004107548**

Modified By:	kakyer
Date Last Modified:	1/22/2008

Site Id:	381040
Affiliation Type:	Facility Owner
Company Name:	ATARA VANDERBILT, LLC.
Contact Type:	VP
Contact Name:	S HWING
Address1:	50 BROADWAY 4TH FLOOR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 837-4539
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kakyer
Date Last Modified:	1/22/2008

Tank Info:

Tank Number:	001
Tank Id:	220078
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
D05 - Pipe Type - Steel Encased in Concrete
K01 - Spill Prevention - Catch Basin
E12 - Piping Secondary Containment - Double-Wall (Aboveground)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F06 - Pipe External Protection - Wrapped
C01 - Pipe Location - Aboveground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/22/2002
Capacity Gallons:	17000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving
Last Modified:	10/29/2007
Material Name:	Diesel

K68 WNW < 1/8 0.100 mi. 527 ft. | **LOT 25,TAXBLOCK 2010**
840 FULTON STREET
BROOKLYN, NY 11238

Site 4 of 15 in cluster K

E DESIGNATION | **S108984033**
N/A

Relative: Lower

Actual: 77 ft.

E DESIGNATION:

Tax Lot(s):	25
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G4
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	FULVAN REALTY CORP
Lot Area:	000009881
Total Building Floor Area:	00000001223
Commercial Floor Area:	00000001223
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000001223
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0100.92
Lot Depth:	0097.92
Building Frontage:	0042.67
Building Depth:	0028.67
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3

LOT 25,TAXBLOCK 2010 (Continued) **S108984033**

Basement Type Grade:	5
Land Assessed Value:	00000057150
Total Assessed Value:	00000114300
Land Exempt Value:	00000000000
Total Exempt Value:	00000033750
Year Built:	1930
Year Built Code:	E
Year Altered1:	2001
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.12
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020100025
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993232
Y Coordinate:	0188259
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	25
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	R6
Zone District 2:	Not reported
Commercial Overlay1:	C2-3
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	C2-3/R6

LOT 25,TAXBLOCK 2010 (Continued) **S108984033**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G4
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	FULVAN REALTY CORP
Lot Area:	000009881
Total Building Floor Area:	00000001223
Commercial Floor Area:	00000001223
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000001223
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0100.92
Lot Depth:	0097.92
Building Frontage:	0042.67
Building Depth:	0028.67
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000057150
Total Assessed Value:	00000114300
Land Exempt Value:	00000000000
Total Exempt Value:	00000033750
Year Built:	1930
Year Built Code:	E
Year Altered1:	2001
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.12
Maximum Allowable Far:	02.43
Borough Code:	3
Borough Tax Block And Lot:	3020100025
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993232
Y Coordinate:	0188259
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 25,TAXBLOCK 2010 (Continued) **S108984033**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

K69 **EDR US Hist Auto Stat** **1015652882**
WNW **840 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.100 mi.
527 ft. **Site 5 of 15 in cluster K**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name: FULTON AUTO REPAIR INC
Year: 2006
Address: 840 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2007
Address: 840 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2008
Address: 840 FULTON ST

K70 **FULTON AUTO REPAIR INC** **AST** **A100300876**
WNW **840 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.100 mi.
527 ft. **Site 6 of 15 in cluster K**

Relative:
Lower

Actual:
77 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-610481
Program Type:	PBS
UTM X:	587219.92633000005
UTM Y:	4504151.4804600002
Expiration Date:	2017/02/12
Site Type:	Other

Affiliation Records:

Site Id:	377219
Affiliation Type:	Facility Owner
Company Name:	FULTON AUTO REPAIR INC
Contact Type:	PRESIDENT
Contact Name:	JAVID M. JAHANGIR
Address1:	840 FULTON ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 622-8228
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/18/2009

FULTON AUTO REPAIR INC (Continued) **A100300876**

Site Id:	377219
Affiliation Type:	Mail Contact
Company Name:	FULTON AUTO REPAIR INC.
Contact Type:	Not reported
Contact Name:	JAVID M. JAHANGIR
Address1:	840 FULTON STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 622-8228
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/12/2007

Site Id:	377219
Affiliation Type:	On-Site Operator
Company Name:	FULTON AUTO REPAIR INC
Contact Type:	Not reported
Contact Name:	JAVID M. JAHANGIR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 622-8228
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/18/2009

Site Id:	377219
Affiliation Type:	Emergency Contact
Company Name:	FULTON AUTO REPAIR INC
Contact Type:	Not reported
Contact Name:	JAVID M. JAHANGIR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 622-8228
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/18/2009

Tank Info:

Tank Number:	0013
Tank Id:	215814
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

FULTON AUTO REPAIR INC (Continued) **A100300876**

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
J00 - Dispenser - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2002
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	02/12/2007
Material Name:	Waste Oil/Used Oil

J71 **EDR US Hist Auto Stat** **1015648902**
SSW **825 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.103 mi.
546 ft. **Site 3 of 5 in cluster J**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name:	V ROSA & SONS AUTO REPAIR INC
Year:	2004
Address:	825 ATLANTIC AVE

J72 **SUPERIOR ASSOCIATES LLS** **UST** **U004048432**
SSW **825 ATLANTIC AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.103 mi.
546 ft. **Site 4 of 5 in cluster J**

Relative:
Lower

Actual:
77 ft.

UST:

Id/Status:	2-609761 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587326.22039000003
UTM Y:	4503937.42191
Site Type:	Other

Affiliation Records:

SUPERIOR ASSOCIATES LLS (Continued) **U004048432**

Site Id:	333227
Affiliation Type:	Facility Owner
Company Name:	SUPERIOR ASSOCIATES LLC
Contact Type:	AGENT
Contact Name:	ROMEO SANTOS
Address1:	29-37 41ST AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	11/2/2004

Site Id:	333227
Affiliation Type:	Mail Contact
Company Name:	SUPERIOR ASSOCIATES LLC
Contact Type:	AGENT
Contact Name:	ROMEO SANTOS
Address1:	29-37 41ST AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	11/2/2004

Site Id:	333227
Affiliation Type:	On-Site Operator
Company Name:	SUPERIOR ASSOCIATES LLS
Contact Type:	Not reported
Contact Name:	ANTHONY MUSTO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	11/2/2004

Site Id:	333227
Affiliation Type:	Emergency Contact
Company Name:	SUPERIOR ASSOCIATES LLC
Contact Type:	Not reported
Contact Name:	ANTHONY MUSTO
Address1:	Not reported

SUPERIOR ASSOCIATES LLS (Continued) **U004048432**

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	11/2/2004

Tank Info:

Tank Number:	01
Tank ID:	180694
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/30/2004
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KXTANG
Last Modified:	11/02/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
L00 - Piping Leak Detection - None

Tank Number:	02
Tank ID:	180695
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/30/2004
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

SUPERIOR ASSOCIATES LLS (Continued) **U004048432**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: KXTANG
Last Modified: 11/02/2004

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None

Tank Number: 03
Tank ID: 180696
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 09/30/2004
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: KXTANG
Last Modified: 11/02/2004

Equipment Records:

L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

SUPERIOR ASSOCIATES LLS (Continued) **U004048432**

Tank Number:	04
Tank ID:	180697
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/30/2004
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KXTANG
Last Modified:	11/02/2004

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser

Tank Number:	05
Tank ID:	180698
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/30/2004
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KXTANG
Last Modified:	11/02/2004

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping

SUPERIOR ASSOCIATES LLS (Continued) **U004048432**

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser

Tank Number:	06
Tank ID:	180699
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/30/2004
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KXTANG
Last Modified:	11/02/2004

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None

J73 **EDR US Hist Auto Stat** **1015647618**
SSW **821 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.104 mi.
548 ft. **Site 5 of 5 in cluster J**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name:	V ROSA & SONS AUTO REPAIR
Year:	2002
Address:	821 ATLANTIC AVE

K74 WNW < 1/8 0.104 mi. 551 ft. | **CON EDISON MANHOLE 2814**
485 VANDERBILT AVE
BROOKLYN, NY 11201 | **RCRA NonGen / NLR** | **1010327324**
NYP004145793

Site 7 of 15 in cluster K

Relative: Lower

Actual: 77 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/11/2007
Facility name:	CON EDISON MANHOLE 2814
Facility address:	485 VANDERBILT AVE BROOKLYN, NY 11201
EPA ID:	NYP004145793
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	DANIEL PONTECORVO
Contact address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 580-8383
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/10/2007
Facility name:	CON EDISON MANHOLE 2814
Site name:	CON EDISON
Classification:	Not a generator, verified

Date form received by agency:	01/09/2007
Facility name:	CON EDISON MANHOLE 2814
Site name:	CON EDISON
Classification:	Unverified

Violation Status: No violations found

K75 WNW < 1/8 0.104 mi. 551 ft. | **CON EDISON MANHOLE 2814**
485 VANDERBILT AVE & FULTON ST
BROOKLYN, NY 11238 | **RCRA NonGen / NLR**
MANIFEST | **1010327308**
NYP004145710

Site 8 of 15 in cluster K

Relative: Lower

Actual: 77 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/11/2007
Facility name:	CON EDISON MANHOLE 2814
Facility address:	485 VANDERBILT AVE & FULTON ST FRONT OF 485 & S OF FULTON ST BROOKLYN, NY 11238
EPA ID:	NYP004145710
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	STEVEN MARTIS
Contact address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 580-8383
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/10/2007
Facility name:	CON EDISON MANHOLE 2814
Site name:	CON EDISON
Classification:	Not a generator, verified
Date form received by agency:	01/09/2007
Facility name:	CON EDISON MANHOLE 2814
Site name:	CON EDISON
Classification:	Unverified
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004145710
Country:	USA
Mailing Name:	CONSOLIDATED EDISON OF NY INC

CON EDISON MANHOLE 2814 (Continued) **1010327308**

Mailing Contact:	WOO DONG KIM
Mailing Address:	31-01 20TH AVE
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY
Mailing State:	NY
Mailing Zip:	11105
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-204-4090

NY MANIFEST:
No Manifest Records Available

O76 **EDR US Hist Auto Stat** **1015646006**
SSW **817 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.105 mi.
555 ft. **Site 1 of 9 in cluster O**

Relative:
Lower

Actual:
76 ft.

EDR Historical Auto Stations:

Name:	SWEDISH UNDERGROUND AUTO REPAIRS
Year:	1999
Address:	817 ATLANTIC AVE
Name:	SWEDISH AUTO REPAIR
Year:	2001
Address:	817 ATLANTIC AVE
Name:	SWEDISH AUTO REPAIR
Year:	2002
Address:	817 ATLANTIC AVE
Name:	SWEDISH UNDERGROUND AUTO RPR
Year:	2003
Address:	817 ATLANTIC AVE
Name:	SWEDISH MOTORS
Year:	2004
Address:	817 ATLANTIC AVE

K77 **EDR US Hist Auto Stat** **1015652390**
WNW **838 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.105 mi.
556 ft. **Site 9 of 15 in cluster K**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name:	FULTON AUTO REPAIR
Year:	1999
Address:	838 FULTON ST
Name:	FULTON AUTO REPAIR
Year:	2000
Address:	838 FULTON ST
Name:	FULTON AUTO REPAIR

(Continued) **1015652390**

Year: 2003
Address: 838 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2004
Address: 838 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2005
Address: 838 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2009
Address: 838 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2010
Address: 838 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2011
Address: 838 FULTON ST

Name: FULTON AUTO REPAIR
Year: 2012
Address: 838 FULTON ST

K78 **EDR US Hist Auto Stat** **1015663206**
WNW **887 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.106 mi.
558 ft. **Site 10 of 15 in cluster K**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:
Name: WASHINGTON CAR SERVICE CORPORATION
Year: 1999
Address: 887 FULTON ST

Name: WASHINGTON CAR SERVICE CORPORATION
Year: 2000
Address: 887 FULTON ST

P79 **LOT 1,TAXBLOCK 2010** **E DESIGNATION** **S108983998**
SW **539 VANDERBILT AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.106 mi.
560 ft. **Site 1 of 2 in cluster P**

Relative:
Lower

Actual:
73 ft.

E DESIGNATION:
Tax Lot(s): 1
E-No: E-183
Effective Date: 7/25/2007
Satisfaction Date: Not reported
Ceqr Number: 07DCP066K
Ulurp Number: 070430ZMK
Zoning Map No: 16c

LOT 1,TAXBLOCK 2010 (Continued) **S108983998**

Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G9
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	V AND A BRUSHLESS CAR
Lot Area:	000010520
Total Building Floor Area:	00000002920
Commercial Floor Area:	00000002920
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000002920
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0131.50
Lot Depth:	0080.00
Building Frontage:	0073.00
Building Depth:	0040.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000051750
Total Assessed Value:	00000088650
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.28

LOT 1,TAXBLOCK 2010 (Continued) **S108983998**

Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020100001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993302
Y Coordinate:	0187796
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	1
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G9
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	V AND A BRUSHLESS CAR
Lot Area:	000010520
Total Building Floor Area:	00000002920
Commercial Floor Area:	00000002920
Office Floor Area:	00000000000
Retail Floor Area:	00000000000

LOT 1,TAXBLOCK 2010 (Continued) **S108983998**

Garage Floor Area:	00000002920
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0131.50
Lot Depth:	0080.00
Building Frontage:	0073.00
Building Depth:	0040.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000051750
Total Assessed Value:	00000088650
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.28
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020100001
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993302
Y Coordinate:	0187796
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

K80 WNW < 1/8 0.107 mi. 565 ft. | **NYC PKS & REC - GATEWAY TRIANGLE FULTON ST & VANDERBILT AVE & BROOKLYN, NY 11201** | **RCRA NonGen / NLR** | **1007112550 NYR000118265**

Site 11 of 15 in cluster K

Relative: Lower

Actual: 77 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYC PKS & REC - GATEWAY TRIANGLE
Facility address:	FULTON ST & VANDERBILT AVE & GATES AVE BROOKLYN, NY 11201
EPA ID:	NYR000118265
Mailing address:	PROSPECT PARK W BROOKLYN, NY 11215
Contact:	JEFFREY SIGADEL
Contact address:	PROSPECT PARK W BROOKLYN, NY 11215
Contact country:	US
Contact telephone:	(718) 965-7711
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYC PARKS & RECREATION
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	12/31/1979
Owner/Op end date:	Not reported

Owner/operator name:	NYC PARKS & RECREATION
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	12/31/1979
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

NYC PKS & REC - GATEWAY TRIANGLE (Continued) **1007112550**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: Yes
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYC PKS & REC - GATEWAY TRIANGLE
Classification: Not a generator, verified

Date form received by agency: 09/18/2003
Facility name: NYC PKS & REC - GATEWAY TRIANGLE
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

K81
WNW
< 1/8
0.107 mi.
566 ft.

CON EDISION - MH2814 **RCRA NonGen / NLR** **1007207643**
485 VANDERBILT AVE 485 VANDERB **MANIFEST** **NYP004072369**
NEW YORK, NY 10003

Site 12 of 15 in cluster K

Relative:
Lower

Actual:
77 ft.

RCRA NonGen / NLR:
Date form received by agency: 06/02/2002
Facility name: CON EDISION - MH2814
Facility address: 485 VANDERBILT AVE 485 VANDERB
NEW YORK, NY 10003
EPA ID: NYP004072369
Mailing address: IRVING PLACE
NEW YORK, NY 10003
Contact: ANTHONY DRUMMINGS
Contact address: IRVING PLACE
NEW YORK, NY 10003
Contact country: US
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

CON EDISION - MH2814 (Continued) **1007207643**

Historical Generators:

Date form received by agency:	06/01/2002
Facility name:	CON EDISION - MH2814
Classification:	Not a generator, verified
Date form received by agency:	05/31/2002
Facility name:	CON EDISION - MH2814
Classification:	Large Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004072369
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808
Document ID:	CTF0810648
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	MAD039322250
Generator Ship Date:	01/23/2001
Trans1 Recv Date:	01/23/2001
Trans2 Recv Date:	01/27/2001
TSD Site Recv Date:	01/29/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004072369
Trans1 EPA ID:	CTD000604488
Trans2 EPA ID:	Not reported
TSDF ID:	PUL9202OH
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00003
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2001

K82 WNW < 1/8 0.107 mi. 566 ft. | **MH 19778**
FULTON ST/VANDERBUILT AVE
BROOKLYN, NY | **NY Spills** | **S104881217**
N/A

Site 13 of 15 in cluster K

Relative: Lower

Actual: 77 ft.

SPILLS:

Facility ID:	0010591
DER Facility ID:	179883
Facility Type:	ER
Site ID:	217279
DEC Region:	2
Spill Date:	12/21/2000
Spill Number/Closed Date:	0010591 / 4/19/2001
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	12/21/2000
CID:	396
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/21/2000
Spill Record Last Update:	6/19/2001
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	SEAN MCKEEVER
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"DEC INSPECTOR'S NOTESCON ED 2MIS REPORT 12-21-00Approx. 1 qt. unknown oil on 250gals. water. No joint regulator, sump or sewer connection visible at this time. One liquid sample taken. Cleanup pending results.Lab Seq#00-11896 <1.00ppm12-21-00 1845hrs. Updateresult of oil indicates the presence of a substance similar to a lubricating oil.Cleanup complete, structure double washed, sump cemented and tag removed,Update 1-04-010830hrs.Cleanup completed by removing liquids from structure with coagulant and diapers. No leaking company equipment.Aroclor 1242 1ppmAroclor 1248 1ppmAroclor 1254 1ppmAroclor 1260 1ppm
Remarks:	samples taken clean up pending... 1 quart on 250 gal of water...ref #134844.

Material:

Site ID:	217279
Operable Unit ID:	832621
Operable Unit:	01
Material ID:	544487
Material Code:	0064A

MH 19778 (Continued) **S104881217**

Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K83
WNW
< 1/8
0.107 mi.
566 ft.

SPILL NUMBER 0205427 **NY Spills** **S106006829**
VANDERBILT AV/FULTON ST **N/A**
BROOKLYN, NY

Site 14 of 15 in cluster K

Relative:
Lower

Actual:
77 ft.

SPILLS:

Facility ID:	0205427
DER Facility ID:	263873
Facility Type:	ER
Site ID:	327789
DEC Region:	2
Spill Date:	8/23/2002
Spill Number/Closed Date:	0205427 / 8/23/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	8/23/2002
CID:	281
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/23/2002
Spill Record Last Update:	8/23/2002
Spiller Name:	SAME
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	001
Contact Name:	LARRY COSTA
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"e2mis no. 144-688:8/23/02 - 1040L. WILLIAMS - 11235 - FOD, REPORTS A SPILL OF APPROX 1 QT OF MOTOR OIL ONTO CONCRETE FROM VEH # 41229. SPILL IS CONTAINED. NOSEWERS OR WATERWAYS AFFECTED. NO FIRE OR SMOKE INVOLVED. NO INJURIES RELATED TO SPILL. NO PRIVATE PROPERTY

SPILL NUMBER 0205427 (Continued) **S106006829**

AFFECTED. CLEANUP IS IN PROGRESS USING DIAPERS.UPDATE: 8/23/02 - 1115L. WILLIAMS REPORTS THAT HIS PARTNER, JOHN POLI, WALKED BACK TO THE PARKING LOT LOCATED ON THE W/S OF VANDERBILT AVE 100' S/O FULTON ST TO CHECK IF THEIR VEHICLE HAD LEAKED ANY MOTOR OIL THERE. PARKING LOT BELONGS TO VANDERBILT HOLDING. THIS WAS THE LOCATION OF THEIR JOB INITIALLY. MR. POLI FOUND THAT APPROX 1/2 PINT OF MOTOR OIL HAD LEAKED ONTO ASPHALT IN THE PARKING LOT. SPILL WAS CONTAINED. NO SEWERS OR WATERWAYS WERE AFFECTED. THIS SPILL WAS WIPED UP WITH DIAPERS. MSSRS WILLIAMS & POLI ARE PRESENTLY WAITING FOR OIL ABSORB TO BE DELIVERED TO THEM TO FINISH UP THESE CLEANUPS.UPDATE: 8/23/02 - 1215L. WILLIAMS REPORTS CLEANUP ON S/S ATLANTIC AVE 50' E/O VANDERBILT AVE COMPLETED WITH OIL ABSORB & DIAPERS.UPDATE: 8/23/02 - 1230L. WILLIAMS REPORTS CLEANUP IN CUSTOMER PARKING LOT ON W/S VANDERBILT AVE 100' S/O FULTON ST COMPLETED WITH OIL ABSORB &DIAPERS. CUSTOMER SATISFIED WITH CLEANUP.

Remarks: AMOUNT REPORTED AS 1 QUART. MATERIAL LEAKED FROM VEHICLE # 41229AT ABOVE LOCATION. ALL MATERIAL REPORTED RECOVERED. CON ED # 144688MATERIAL ALSO LEAKED ON ATLANTIC AVE AND VANDERBILT AVE.

Material:

Site ID:	327789
Operable Unit ID:	858082
Operable Unit:	01
Material ID:	519630
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	Yes
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K84 WNW < 1/8 0.107 mi. 566 ft. | **CON EDISON MANHOLE 2814** | **RCRA NonGen / NLR** | **1010326602**
VANDERBILT AVE & FULTON ST | **MANIFEST** | **NYP004142055**
BROOKLYN, NY 11203

Site 15 of 15 in cluster K

Relative: Lower

Actual: 77 ft.

RCRA NonGen / NLR:

Date form received by agency:	11/17/2006
Facility name:	CON EDISON MANHOLE 2814
Facility address:	VANDERBILT AVE & FULTON ST BROOKLYN, NY 11203
EPA ID:	NYP004142055
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	MICHAEL DAUGHTREY
Contact address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 580-8383
Contact email:	Not reported
EPA Region:	02

CON EDISON MANHOLE 2814 (Continued) **1010326602**

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 11/16/2006
Facility name: CON EDISON MANHOLE 2814
Site name: CON EDISON
Classification: Not a generator, verified

Date form received by agency: 11/15/2006
Facility name: CON EDISON MANHOLE 2814
Site name: CON EDISON
Classification: Unverified

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004142055
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: NYE1300887
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 05/02/2006
Trans1 Recv Date: 05/02/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/02/2006
Part A Recv Date: Not reported

CON EDISON MANHOLE 2814 (Continued) **1010326602**

Part B Recv Date:	Not reported
Generator EPA ID:	NYP004142055
Trans1 EPA ID:	12446JT
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00046
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2006

O85 **EDR US Hist Auto Stat** **1015643715**
SW **811 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.109 mi.
576 ft. **Site 2 of 9 in cluster O**

Relative:
Lower

Actual:
75 ft.

EDR Historical Auto Stations:

Name:	ATLANTECK AUTO SERVICE
Year:	1999
Address:	811 ATLANTIC AVE
Name:	ATLANTECK AUTO SERVICE
Year:	2000
Address:	811 ATLANTIC AVE
Name:	ATLANTECK AUTO SERVICE
Year:	2001
Address:	811 ATLANTIC AVE
Name:	ATLANTECK AUTO SERVICE
Year:	2002
Address:	811 ATLANTIC AVE
Name:	R & N ATLANTECH SUPERIOR AUTO
Year:	2003
Address:	811 ATLANTIC AVE
Name:	ATLANTIC AUTOTECH
Year:	2004
Address:	811 ATLANTIC AVE
Name:	R & N ATLANTECH SUPERIOR AUTO
Year:	2005
Address:	811 ATLANTIC AVE
Name:	ATLANTECK AUTO SERVICE
Year:	2006
Address:	811 ATLANTIC AVE
Name:	RN ATLANTECK AUTO CENTER
Year:	2008
Address:	811 ATLANTIC AVE
Name:	ATLANTECK AUTO SERVICE

(Continued) **1015643715**

Year: 2009
Address: 811 ATLANTIC AVE

Name: 1 TOWING & COLLISION 24 HOURS
Year: 2010
Address: 811 ATLANTIC AVE

Name: 1 TOWING COLLISION TWENTY FOUR HOURS
Year: 2011
Address: 811 ATLANTIC AVE

Name: 1 TOWING COLLISION TWENTY FOUR HOURS
Year: 2012
Address: 811 ATLANTIC AVE

86
NNW
< 1/8
0.110 mi.
581 ft.

464 CLINTON AVE
464 CLINTON AVE
BROOKLYN, NY 11238

AST **A100292401**
N/A

Relative:
Higher

Actual:
82 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-276189
Program Type: PBS
UTM X: 587302.70935999998
UTM Y: 4504225.9073999999
Expiration Date: 2014/11/24
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 11878
Affiliation Type: On-Site Operator
Company Name: 464 CLINTON AVE
Contact Type: Not reported
Contact Name: SEAN VIECHWEG
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 398-6745
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 11878
Affiliation Type: Emergency Contact
Company Name: WEST LLC
Contact Type: Not reported
Contact Name: SEAN VIECHWEG
Address1: Not reported
Address2: Not reported
City: Not reported

464 CLINTON AVE (Continued) **A100292401**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 398-6745
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	11878
Affiliation Type:	Mail Contact
Company Name:	CLINTON 464 LLC
Contact Type:	REP
Contact Name:	JOSIE LULLO
Address1:	80 MAIDEN LANE STE 2204
Address2:	Not reported
City:	NY
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 587-6100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	6/11/2012

Site Id:	11878
Affiliation Type:	Facility Owner
Company Name:	CLINTON 464 LLC
Contact Type:	REP
Contact Name:	JOSIE LULLO
Address1:	80 MAIDEN LANE STE 2204
Address2:	Not reported
City:	NY
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 587-6100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	6/11/2012

Tank Info:

Tank Number:	001
Tank Id:	13953
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

B00 - Tank External Protection - None
K00 - Spill Prevention - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None

464 CLINTON AVE (Continued) **A100292401**

D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1930
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KXTANG
Last Modified:	06/20/2007
Material Name:	#2 Fuel Oil (On-Site Consumption)

O87 **LOT 59,TAXBLOCK 2010** **E DESIGNATION** **S108984085**
SW **809 ATLANTIC AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.111 mi.
585 ft. **Site 3 of 9 in cluster O**

Relative:
Lower

Actual:
74 ft.

E DESIGNATION:

Tax Lot(s):	59
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G9
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported

LOT 59,TAXBLOCK 2010 (Continued) **S108984085**

Owner Name:	SUPERIOR ASSOCIATES,
Lot Area:	000017363
Total Building Floor Area:	00000010466
Commercial Floor Area:	00000010466
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000010466
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00005
Lot Frontage:	0179.33
Lot Depth:	0097.58
Building Frontage:	0120.00
Building Depth:	0060.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000075150
Total Assessed Value:	00000166050
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1925
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.60
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020100059
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993397
Y Coordinate:	0187723
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	59
E-No:	E-183

LOT 59,TAXBLOCK 2010 (Continued) **S108984085**

Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3003
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G9
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	SUPERIOR ASSOCIATES,
Lot Area:	000017363
Total Building Floor Area:	00000010466
Commercial Floor Area:	00000010466
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000010466
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00005
Lot Frontage:	0179.33
Lot Depth:	0097.58
Building Frontage:	0120.00
Building Depth:	0060.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000075150
Total Assessed Value:	00000166050
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1925
Year Built Code:	Not reported

LOT 59,TAXBLOCK 2010 (Continued) **S108984085**

Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.60
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020100059
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993397
Y Coordinate:	0187723
Zoning Map:	16C
Sanborn Map:	302 037
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

88
NE
< 1/8
0.111 mi.
586 ft.

177A ST JAMES PLACE/BKLYN **NY Spills** **S102141839**
177A ST JAMES PLACE **N/A**
BROOKLYN, NY

Relative:
Lower

Actual:
74 ft.

SPILLS:

Facility ID:	9011934
DER Facility ID:	92714
Facility Type:	ER
Site ID:	105043
DEC Region:	2
Spill Date:	2/14/1991
Spill Number/Closed Date:	9011934 / 5/25/1995
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	2/14/1991
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	5/25/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/27/1991

177A ST JAMES PLACE/BKLYN (Continued) **S102141839**

Spill Record Last Update:	1/7/2003
Spiller Name:	Not reported
Spiller Company:	BAERENKLAU
Spiller Address:	740 JAMAICA AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	OFFICE GAVE DRIVER WRONG SLIP,MADE WRONG DELIVERY,SPILL CAME OUT OF VENT,BAERENKLAU SPILL TEAM TO CLEAN UP.

Material:

Site ID:	105043
Operable Unit ID:	951863
Operable Unit:	01
Material ID:	428443
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

O89 **EDR US Hist Auto Stat** **1015656708**
SSW **854 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.114 mi.
603 ft. **Site 4 of 9 in cluster O**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name:	SPORTS CAR AUTO SALES INC
Year:	2003
Address:	854 ATLANTIC AVE

Q90 **EDR US Hist Auto Stat** **1015657349**
SSW **858 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.115 mi.
605 ft. **Site 1 of 4 in cluster Q**

Relative:
Higher

Actual:
78 ft.

EDR Historical Auto Stations:

Name:	ULTIMATE AUTO REPAIR
Year:	1999
Address:	858 ATLANTIC AVE
Name:	ULTIMATE AUTO REPAIR
Year:	2000
Address:	858 ATLANTIC AVE

(Continued) **1015657349**

Name: ULTIMATE AUTO REPAIR
Year: 2001
Address: 858 ATLANTIC AVE

Name: ULTIMATE AUTO REPAIR
Year: 2002
Address: 858 ATLANTIC AVE

Name: ULTIMATE AUTO REPAIR SHOP
Year: 2003
Address: 858 ATLANTIC AVE

Name: P J SERVICE STATION CORP
Year: 2007
Address: 858 ATLANTIC AVE

Name: P J SERVICE STATION INC
Year: 2008
Address: 858 ATLANTIC AVE

Name: ULTIMATE AUTO REPAIR SHOP
Year: 2009
Address: 858 ATLANTIC AVE

Name: ULTIMATE AUTO REPAIR
Year: 2011
Address: 858 ATLANTIC AVE

Name: ULTIMATE AUTO REPAIR
Year: 2012
Address: 858 ATLANTIC AVE

O91 **EDR US Hist Auto Stat** **1015656296**
SSW **852 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.115 mi.
605 ft. **Site 5 of 9 in cluster O**

Relative:
Lower

Actual:
77 ft.

EDR Historical Auto Stations:

Name: KBR AUTOBODY
Year: 1999
Address: 852 ATLANTIC AVE

Name: KBR AUTOBODY
Year: 2000
Address: 852 ATLANTIC AVE

Name: KBR AUTOBODY
Year: 2001
Address: 852 ATLANTIC AVE

Name: KBR AUTOBODY
Year: 2011
Address: 852 ATLANTIC AVE

Q92
South
< 1/8
0.115 mi.
606 ft.

PARTS EXPRESS II INC
860-64 ATLANTIC AVE
BROOKLYN, NY 11238

Site 2 of 4 in cluster Q

SWF/LF **S108146048**
N/A

Relative:
Higher

Actual:
78 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	No
East Coordinate:	587368
North Coordinate:	4503884
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

Q93
South
< 1/8
0.115 mi.
606 ft.

860 ATLANTIC AVE
BROOKLYN, NY 11238

Site 3 of 4 in cluster Q

EDR US Hist Auto Stat **1015657790**
N/A

Relative:
Higher

Actual:
78 ft.

EDR Historical Auto Stations:

Name:	CLIFTON AUTO BODY
Year:	1999
Address:	860 ATLANTIC AVE
Name:	CLIFTON AUTO BODY
Year:	2000
Address:	860 ATLANTIC AVE
Name:	CLIFTON AUTO BODY
Year:	2001
Address:	860 ATLANTIC AVE

P94 **CON EDISON** **MANIFEST** **S113815022**
SW **OPP 805 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.115 mi.
608 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
73 ft.

NY MANIFEST:

EPA ID:	NYP004313805
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	15-May-2013 00:00:00
Trans1 Recv Date:	15-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	24-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004313805
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	50
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002018072GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

O95 SSW < 1/8 0.116 mi. 612 ft. | **CON EDISON**
848 ATLANTIC AVE
BROOKLYN, NY 11238

Site 6 of 9 in cluster O | **MANIFEST** | **S113815010**
N/A

Relative: Lower

Actual: 76 ft.

NY MANIFEST:

EPA ID:	NYP004313672
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	15-May-2013 00:00:00
Trans1 Recv Date:	15-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	24-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004313672
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	200
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017930GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Q96 **MASTER CHEF WHOLESALE** **NY Spills** **S111835635**
South **864 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.116 mi.
613 ft. **Site 4 of 4 in cluster Q**

Relative:
Higher

Actual:
78 ft.

SPILLS:

Facility ID:	1200600
DER Facility ID:	417648
Facility Type:	ER
Site ID:	463243
DEC Region:	2
Spill Date:	4/19/2012
Spill Number/Closed Date:	1200600 / 4/20/2012
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	4/19/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/19/2012
Spill Record Last Update:	4/20/2012
Spiller Name:	NYC DEP
Spiller Company:	UNKNOWN
Spiller Address:	864 ATLANTIC AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	NYC DEP
Contact Phone:	(212) 689-1620
DEC Memo:	Non Petroleum, biodegradable. Spill Closed.
Remarks:	Cleaning materials being dumped in soil outside of the business. Reported by DEP Supervisor.

Material:

Site ID:	463243
Operable Unit ID:	1213341
Operable Unit:	01
Material ID:	2211268
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

97 NNW < 1/8 0.120 mi. 635 ft. | **451 CLINTON AVE**
451 CLINTON AVE
BROOKLYN, NY 11238 | **AST** | **A100292387**
N/A

Relative: Higher

Actual: 81 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-253146
Program Type:	PBS
UTM X:	587297.74372999999
UTM Y:	4504256.4112299997
Expiration Date:	2017/07/14
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	10232
Affiliation Type:	Mail Contact
Company Name:	451 CLINTON OWNERS CORP.
Contact Type:	Not reported
Contact Name:	JOSIE LULLO
Address1:	80 MAIDEN LANE 2204
Address2:	Not reported
City:	NY
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 587-6100
EMail:	JOSIEL@GALSTERMGMT.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	6/11/2012

Site Id:	10232
Affiliation Type:	On-Site Operator
Company Name:	451 CLINTON AVE
Contact Type:	Not reported
Contact Name:	ERVOL CYNS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-9298
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/20/2007

Site Id:	10232
Affiliation Type:	Emergency Contact
Company Name:	451 CLINTON OWNERS CORP.
Contact Type:	Not reported
Contact Name:	ERVOL CYNS
Address1:	Not reported
Address2:	Not reported
City:	Not reported

451 CLINTON AVE (Continued) **A100292387**

State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 638-9298
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/20/2007

Site Id:	10232
Affiliation Type:	Facility Owner
Company Name:	451 CLINTON OWNERS CORP.
Contact Type:	REP
Contact Name:	JOSIE LULLO
Address1:	156 WILLIAM ST., SUITE 802
Address2:	Not reported
City:	NY
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 587-6100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	6/11/2012

Tank Info:

Tank Number:	001
Tank Id:	14201
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1930
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True

451 CLINTON AVE (Continued) **A100292387**

Modified By: KXTANG
Last Modified: 06/20/2007
Material Name: #2 Fuel Oil (On-Site Consumption)

R98 SSE < 1/8 0.121 mi. 638 ft. **STREET WAVERLY AND ATLANTIC AV BROOKLYN, NY** **NY Spills** **S106383232 N/A**

Site 1 of 7 in cluster R

Relative: Higher

Actual: 78 ft.

SPILLS:

Facility ID:	0313115
DER Facility ID:	149111
Facility Type:	ER
Site ID:	177451
DEC Region:	2
Spill Date:	2/28/2004
Spill Number/Closed Date:	0313115 / 6/23/2004
Spill Cause:	Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	2/28/2004
CID:	41
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/28/2004
Spill Record Last Update:	6/23/2004
Spiller Name:	Not reported
Spiller Company:	KEYSPAN ENERGY
Spiller Address:	1 METRO TECH CTR
Spiller City,St,Zip:	BROOKLYN, NY 11201
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"3/1/04, 1:45 PM - spoke with Paul Smith, KeySpan: Con Ed was working on electric burnout on secondary feeder. Burnout created hole in plastic gas main - resulted in explosion and fire. KeySpan completed repairs on 2/28/04. Also spoke with Mike Daughtrey (Con Ed) - repairs underway on secondary feeder. No environmental release from any Con Ed equipment. Con Ed employee who was burned is at Cornell Hospital. (JHO)6/23/04: P. Smith faxed 30-day report. Close out. (JHO) Not reported
Remarks:	CON ED LINE NEXT TO GAS MAIN LINE BURNED OUT, CAUSING EXPLOSION/FIRE. FIRE SERVICES ON SCENE. KEYSPAN ON SCENE.

Material:

STREET (Continued) **S106383232**

Site ID:	177451
Operable Unit ID:	880281
Operable Unit:	01
Material ID:	498275
Material Code:	0054A
Material Name:	NATURAL GAS
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

R99
SSE
< 1/8
0.121 mi.
638 ft.

MANHOLE # 2909 **NY Spills** **S106697783**
ATLANTIC AVE AND WAVERLY **N/A**
BROOKLYN, NY

Site 2 of 7 in cluster R

Relative:
Higher

Actual:
78 ft.

SPILLS:

Facility ID:	0404641
DER Facility ID:	203935
Facility Type:	ER
Site ID:	248540
DEC Region:	2
Spill Date:	7/28/2004
Spill Number/Closed Date:	0404641 / 10/7/2004
Spill Cause:	Unknown
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	7/29/2004
CID:	405
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/29/2004
Spill Record Last Update:	10/7/2004
Spiller Name:	ERT DESK
Spiller Company:	MANHOLE # 2909
Spiller Address:	ATLANTIC AVE AND WAVERLY
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	ERT DESK

MANHOLE # 2909 (Continued) **S106697783**

Contact Phone: (212) 580-8383
DEC Memo: 154563Employee reports finding approx five gallons of unknown oil on approx 100 gallons of water in MH 47273. SPILL APPEARS TO BE CONTAINED. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. CLEANUPPENDING PCB RESULTS.Lab Sequence Number: 04-05922-001: Aroclor 1260 < 1.0 ppm7/29/04 2145HRS ESPONDA ENVIR OPPS REPORTS CLEANUP COMPLETED DOULBED WASHED BIO-GEN-760. FOUND NO SUMP IN STRUCTURE. REMOVED ENVIR TAG#13461.
Remarks: 2 QUARTS WITH 10 GAL OF WATER, OFF OF 24 HR DIMINIMUS, DUE TO DEFAULT FOUND IN STRUCTURE AT 1045 THEY COULD NOT CLEAN SPILL UP WITHIN 24 HRS. eMis #154563. See 4040640.

Material:
Site ID: 248540
Operable Unit ID: 887872
Operable Unit: 01
Material ID: 488621
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 2
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

R100
SSE
< 1/8
0.121 mi.
638 ft.

MANHOLE 2909 **NY Spills** **S106971149**
ATLANTIC AVE/WAVERLY PL **N/A**
BROOKLYN, NY

Site 3 of 7 in cluster R

Relative:
Higher

Actual:
78 ft.

SPILLS:
Facility ID: 0503259
DER Facility ID: 294175
Facility Type: ER
Site ID: 347833
DEC Region: 2
Spill Date: 6/16/2005
Spill Number/Closed Date: 0503259 / 5/3/2007
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: SKARAKHA
Referred To: Not reported
Reported to Dept: 6/17/2005
CID: 77
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported

MANHOLE 2909 (Continued) **S106971149**

Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/17/2005
Spill Record Last Update:	5/3/2007
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	05/03/07 - See e-docs for Con Ed report detailing cleanup and closure.e2mis no 1592411 pint of dielectric fluid leaked due to faulty regulator tank. Cleanup pending equipment being taken out of service.
Remarks:	1 PINT OF DIELECTRIC FLUID. LEAKED DUE TO FAULTY REGULATOR TANK. CLEAN-UP PENDING EQUIPMENT BEING TAKEN OUT OF SERVICE. CON ED REF 159241. NO TO 5 QUESTIONS. LAB SAMPLES CAME BACK LESS THAN 1.

Material:

Site ID:	347833
Operable Unit ID:	1105510
Operable Unit:	01
Material ID:	1521329
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

R101
SSE
< 1/8
0.121 mi.
638 ft.

LOT 71,TAXBLOCK 2012 **E DESIGNATION** **S108984119**
849 ATLANTIC AVENUE **N/A**
BROOKLYN, NY 11238

Site 4 of 7 in cluster R

Relative:
Higher

Actual:
78 ft.

E DESIGNATION:

Tax Lot(s):	71
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13

LOT 71,TAXBLOCK 2012 (Continued) **S108984119**

City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	K9
Land Use Category:	05
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	SAFT MARILYN
Lot Area:	000001549
Total Building Floor Area:	00000004647
Commercial Floor Area:	00000001549
Office Floor Area:	00000000000
Retail Floor Area:	00000001549
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	003.00
Residential Units:	00002
Non and Residential Units:	00004
Lot Frontage:	0020.00
Lot Depth:	0058.50
Building Frontage:	0020.00
Building Depth:	0047.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000012600
Total Assessed Value:	00000047250
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0003.00
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120071
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993850

LOT 71,TAXBLOCK 2012 (Continued) **S108984119**

Y Coordinate:	0187600
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	71
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	K9
Land Use Category:	05
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	SAFT MARILYN
Lot Area:	000001549
Total Building Floor Area:	00000004647
Commercial Floor Area:	00000001549
Office Floor Area:	00000000000
Retail Floor Area:	00000001549
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001

LOT 71,TAXBLOCK 2012 (Continued) **S108984119**

Number of Floors:	003.00
Residential Units:	00002
Non and Residential Units:	00004
Lot Frontage:	0020.00
Lot Depth:	0058.50
Building Frontage:	0020.00
Building Depth:	0047.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000012600
Total Assessed Value:	00000047250
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0003.00
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120071
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993850
Y Coordinate:	0187600
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

O102 **SUNOCO SERVICE STATION** **RCRA NonGen / NLR** **1000328916**
SW **840 ATLANTIC AVE** **FINDS** **NYD000816488**
< 1/8 **BROOKLYN, NY**
0.121 mi.
639 ft. **Site 7 of 9 in cluster O**

Relative:
Lower

Actual:
74 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	SUNOCO SERVICE STATION
Facility address:	840 ATLANTIC AVE BROOKLYN, NY 112383115
EPA ID:	NYD000816488
Mailing address:	ATLANTIC AVE BROOKLYN, NY 11238
Contact:	Not reported

SUNOCO SERVICE STATION (Continued) **1000328916**

Contact address: ATLANTIC AVE
BROOKLYN, NY 11238
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: SUN OIL COMPANY OF PENNSYLVANIA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SUN OIL COMPANY OF PENNSYLVANIA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SUNOCO SERVICE STATION
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: SUNOCO SERVICE STATION
Classification: Not a generator, verified

SUNOCO SERVICE STATION (Continued) **1000328916**

Date form received by agency: 08/18/1980
Facility name: SUNOCO SERVICE STATION
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004331884

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

O103 **MCDONALD'S** **UST** **U004157001**
SW **840 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.121 mi.
639 ft. **Site 8 of 9 in cluster O**

Relative:
Lower

Actual:
74 ft.

UST:
Id/Status: 2-611393 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: Not reported
UTM Y: Not reported
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 437422
Affiliation Type: Facility Owner
Company Name: ANTHONY MUSTO
Contact Type: MANAGING MEMBER
Contact Name: MMB ASSOCIATES LLC
Address1: 320 HEATHER LANE
Address2: Not reported
City: HEWLETT
State: NY
Zip Code: 11557
Country Code: 001
Phone: (718) 937-8100
EMail: Not reported
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 7/30/2010

Site Id: 437422
Affiliation Type: Mail Contact
Company Name: MMB ASSOC, LLC
Contact Type: Not reported
Contact Name: ANTHONY MUSTO
Address1: 29-27 41ST AVE

MCDONALD'S (Continued) **U004157001**

Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/14/2010

Site Id:	437422
Affiliation Type:	On-Site Operator
Company Name:	840 ATLANTIC AVE
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/14/2010

Site Id:	437422
Affiliation Type:	Emergency Contact
Company Name:	ANTHONY MUSTO
Contact Type:	Not reported
Contact Name:	ANTHONY MUSTO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 405-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	7/30/2010

Tank Info:

Tank Number:	001
Tank ID:	235184
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

MCDONALD'S (Continued) **U004157001**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BVCAMPBE
Last Modified: 07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
H05 - Tank Leak Detection - In-Tank System (ATG)
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 002
Tank ID: 235185
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 03/19/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BVCAMPBE
Last Modified: 07/30/2010

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

MCDONALD'S (Continued) **U004157001**

Tank Number:	003
Tank ID:	235186
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BVCAMPBE
Last Modified:	07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
H05 - Tank Leak Detection - In-Tank System (ATG)
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	004
Tank ID:	235187
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BVCAMPBE
Last Modified:	07/30/2010

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None

MCDONALD'S (Continued) **U004157001**

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	005
Tank ID:	235188
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BVCAMPBE
Last Modified:	07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	006
Tank ID:	235189
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009

MCDONALD'S (Continued) **U004157001**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BVCAMPBE
Last Modified: 07/30/2010

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 007
Tank ID: 235190
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 03/19/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BVCAMPBE
Last Modified: 07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

MCDONALD'S (Continued) **U004157001**

Tank Number:	008
Tank ID:	235191
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BVCAMPBE
Last Modified:	07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
H05 - Tank Leak Detection - In-Tank System (ATG)
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	009
Tank ID:	235192
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BVCAMPBE
Last Modified:	07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

MCDONALD'S (Continued) **U004157001**

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
H05 - Tank Leak Detection - In-Tank System (ATG)
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	010
Tank ID:	235193
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BVCAMPBE
Last Modified:	07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	011
Tank ID:	235194
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	03/19/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009

MCDONALD'S (Continued) **U004157001**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BVCAMPBE
Last Modified: 07/30/2010

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 012
Tank ID: 235195
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 03/19/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BVCAMPBE
Last Modified: 07/30/2010

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
H05 - Tank Leak Detection - In-Tank System (ATG)
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

O104 SW < 1/8 0.121 mi. 639 ft. | **CROSSTOWN REALTY 840 ATLANTIC AVE BROOKLYN, NY** | **NY Spills** | **S103571868 N/A**

Site 9 of 9 in cluster O

Relative: Lower

Actual: 74 ft.

SPILLS:

Facility ID:	9714110
DER Facility ID:	106243
Facility Type:	ER
Site ID:	122553
DEC Region:	2
Spill Date:	3/19/1998
Spill Number/Closed Date:	9714110 / 3/4/2010
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	3/19/1998
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/19/1998
Spill Record Last Update:	6/24/2010
Spiller Name:	ANTHONY MUSTO
Spiller Company:	CROSSTOWN REALTY INC
Spiller Address:	29-27 41ST AVENUE
Spiller City,St,Zip:	LIC, NY 11101
Spiller Company:	999
Contact Name:	TONY MUSTO
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL C"04/12/04TRANSFERRED FROM ODOWD TO ROMMELMarch 22, 2006, Jones, no recent work done on this site. Contacts provided in spill report unsuccessful.March 29, 2006, next step, establish contact with current site occupant.5/22/2006 - Mike Scibel - Current Occupant is McDonalds, property shark reveals owner as an Mmb Associates, reverse phone directory has no listing for address given by property shark. Currently can not contact owner. From file DEC requested 3MW's, soil delineation and documentaion in 2000. Need to find if those tests were performed. Needs additional work.2/23/10 - Austin - Reassigned to Ketani to followup and bring spill to closure - end3/3/10 - Raphael Ketani. I restarted the management of the spill case. The spill was called in on 3/19/1998 due to the discovery of contaminated soil while removing gasoline tanks from this former gas station. The caller was Marc Godick of Lexicon Environmental Associates (516) 488-8742. Twelve 550 gal. gas tanks were removed. They appeared to be in good condition. The source of the gas was believed to be the pump island. Initially, 200 cubic yards of contaminated soil were removed by Lexicon. The site is at the intersection of Atlantic and

CROSSTOWN REALTY (Continued) **S103571868**

Vanderbilt avenues (northern edge of Prospect Heights).From Property Shark, the block and lot are 1122 and 0001. The prime address is 547 Vanderbilt Avenue. The alternates are 850-852 Atlantic Avenue, 855-857 Pacific Street (the lot extends to the south side of the block). A DOB picture shows a TEXACO gas station. A 2006 picture shows a McDonalds with a paved area in front. ACRIS lists the ownership as follows: Janet H. Brooks sold the property to M&B Associates c/o Crosstown Management on 10/27/99 (she was a 1/4 owner of the property - M&B owned the other 3/4); in 2/2/2000 M&B assigned a lease to the McDonald's Corp; in 1/29/04 Musto of M&B sold the property to MMB Associates, LLC, 320 Heather Lane, Hewlett Harbor, NY, 11557 (MMB consists of the three people who always owned the property).An attempt was made to locate a PBS record for the site using all of the known addresses. However, nothing could be found. As the tanks were never registered, this is a violation of 6 NYCRR Part 612 and Part 613. The situation was referred to Leszek Zielinski, EE I of the PBS Unit, for action. The E-docs contains only one document file. This file contains the 6/2/98 Underground Storage Tank Closure Report, and the 8/21/98 Subsurface Investigation Report. The 6/2/98 Underground Storage Tank Closure Report was written by Lexicon Environmental Assessment for Yellowstone Industries (which has since gone out of business). The USTs were removed, but the piping was left in place. 200 to 300 cu. yds. of contaminated soil were removed. The tanks were in good condition with no holes. The excavation went down to 10' to 12', and to within 10' of the sidewalk. Groundwater was not encountered. End point samples ranged in total VOC concentration from 7 ppb to 1,149,000 ppb (bottom of pit). Four of the eight samples were above TAGM limits. No wells were installed. The end points were taken at 11.5' below grade. Samples 3 to 5 and 8 were below TAGM. Samples 1 and 2 had high VOCs above TAGM. Sample 6 had high VOC hits with 480,000 ppb total xylenes. Sample 7 had high VOC hits with 524,000 ppb total xylenes. The 8/12/98 Subsurface Investigation Report was written by Lexicon. The site elevation was indicated as 70' to 75' above sea level. (From the USGS maps, groundwater is at about 15' above sea level.) Borings were drilled to 53' below grade. From 0' to 15' was natural fill. From 15' to 53' was cobbles and boulders with thin layers of natural fill. Nine (9) borings were performed in the vicinity of the former UST locations from 6/22-30/98. SB-3 at 12.5' to 13' was 42,946 total VOCs. SB-4 at 8.5' to 9' was 7,698,160 total VOCs. SB-4 at 12.5' to 13' was much lower, but above TAGM. SB-5 and SB-7 to SB-9 were drilled to 53' and there were no VOC concentrations above the DEC Alternative Guidance Value standards. SB-6 at 11.5' to 12' was drilled, according to the drawings, at the location of SS-7 of the UST Closure Report, but the results were non-detect for the soil sample. It is not known how the SS-7 sample with total VOCs of over one million parts per billion could have dropped to non-detect during a time interval of several months. The locations of the two borings must have been far enough removed from each other to be in separate geochemical regimes. There are no other spill cases associated with this site.3/4/10 - Raphael Ketani. I reviewed the 5/19/99 Site Remediation Report that was produced by HydroScience, Inc. From the analytical results and figures contained in the report, it appears that all of the contamination that was above the TAGM RSCO limits was removed, except for the West Wall-3 location and the Southwest Bottom location. There were only 2 and 3 analytes, respectively, that had exceeded the TAGM limits at these locations. Given that 11 years have passed since the

CROSSTOWN REALTY (Continued) **S103571868**

samples were taken, it is believed that natural attenuation and evaporation of the volatile components have reduced the concentrations further. The sampling at depth below 15' also showed that the contaminant concentrations were very far below the TAGM limits and would not have been a threat to the groundwater, which was about 60 feet below the site.Given the data in the HydroScience Site Remediation Report, I have determined that the residual contamination at the site is not a threat to the public or the environment.
Therefore, I am closing the spill case.6/24/10 - Raphael Ketani.
Anthony Musto (718) 937-8100 called today. He said that he had been talking to Leszek Zielinski, acting head of the PBS Unit. Mr. Zielinski had referred him to me. He said that he had never known he was supposed to register the tanks that had been pulled. He said that he thought the contractor was going to do this 11 years ago. I told Mr. Musto that the contractors don't always do the PBS registrations unless they are asked to. He asked who he is supposed to talk to regarding registering the tanks. I told him that Mr. Zielinski is in charge of the PBS Unit here in Region 2. Mr. Musto said that he was given the telephone number of the PBS Bureau in Albany and that he saw the name "John Urda" on a piece of correspondence. I told him to talk to both parties in order to resolve the matter. He asked how much the registration will cost. I told him that it is relatively inexpensive, when compared to any fines or penalties. I added that since Mr. Urda is involved there may be fines and penalties as there are outstanding violations because the tanks were never registered. Mr. Musto said that he will talk to Albany PBS and Mr. Urda.

Remarks: UPON EXCAVATION OF 12 (550) GAL TANKS SOIL CONTAMINATION WASDISCOVERED. 200 CUBIC YARDS OF IMPACTED SOIL WAS REMOVED AND POSTEXCAVATION SAMPLING COMPLETED AND AWAITING DATA.

Material:

Site ID:	122553
Operable Unit ID:	1060000
Operable Unit:	01
Material ID:	325088
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

S105 SW < 1/8 0.122 mi. 646 ft. | **MANHOLE 1798 VANDERBILT AV/ATLANTIC AV BROOKLYN, NY** | **NY Spills** | **S103829290 N/A**

Site 1 of 9 in cluster S

Relative: Lower

Actual: 73 ft.

SPILLS:

Facility ID:	9815159
DER Facility ID:	95891
Facility Type:	ER
Site ID:	109179
DEC Region:	2
Spill Date:	3/23/1999
Spill Number/Closed Date:	9815159 / 6/6/2002
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	3/23/1999
CID:	382
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/23/1999
Spill Record Last Update:	6/6/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	MIKE CESARE
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"Con Ed e2mis #123787:3/23/99--0410--MOORE FOD REPORTS FOUND APPROX 2-GALLONS OF UNKNOWN OIL ON 200 GALLONS OF WATER,IN MH-1798,UNABLE TO SEEANY OIL FILLED EQUIP.SAMPLE TAKEN TAG#15184 PLACED,CONTAINED NO SEWERS OR WATERWAYS EFFECTED3/23/99 14:25 -- LAB SEQ #99-02948, 188 PPM PCB.3/23/99 15:20 -- EPA ID# NYP 004033056. BKLYN ENV. OPS. O/S K.KAVANAGH NOTIFIED AND WILL MAKE ARRANGEMENTS FOR CLEANUP. UPDATE-2/24/99--0430HRS--K.KAVANAGH O.S. ENVIR.OPP.REPORTS REMOVED 750 GALLONS OF LIQUID ,MH HAS SOAKED ARCH PROFFING,NEEDTO FOLLOW UP FOR ABATEMENT,3/24/99 - 0620. THERE IS APPROXIMATELY 40' OF OIL-SOAKED ASBESTOS ARC-PROOFING IN STRUCTURE. AN ASBESTOS ABATEMENT WILL BEREQUIRED TO FINISH THIS CLEANUP. ROGER FELDER WILL BE E-MAILED REGARDING THIS. TAG REMAINS IN STRUCTURE.NEW EPA # ISSUED 10/26/99 - NYP004045340. UPDATE: 10/26/99C. TROIANO - O.S. - U.G., REPORTS THE REMOVAL OF ALL OIL SOAKED ASBESTOS ARC PROOFING IN STRUCTURE. UPDATE****11-11-99 20:45J. DELAROSA - 19655 - ENV. OPS., REPORTS STRUCTURE DOUBLED WASHED WITH BIO-GEN 760 AND 1 BARREL OF SOLID WASTE WAS REMOVED.TAG REMOVED. 50-499 PPM CLEANUP PAPERWORK RETAINED WITH ENV. OPS.

MANHOLE 1798 (Continued) **S103829290**

Remarks: 2 GAL OF WATER ON 200 GALS OF WATER CONTAINED IN MANHOLE. CON ED 123-787. CLEAN UP PENDING LAB RESULTS.

Material:

Site ID:	109179
Operable Unit ID:	1073180
Operable Unit:	01
Material ID:	308278
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

S106 **CONSOLIDATED EDISON** **MANIFEST** **1009238282**
SW **VANDERBILT AVE & ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 12201**
0.122 mi.
646 ft. **Site 2 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

NY MANIFEST:

EPA ID:	NYP004045340
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYE0405054
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	10/26/1999
Trans1 Recv Date:	10/26/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/27/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004045340
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	80336AB
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00126

CONSOLIDATED EDISON (Continued) **1009238282**

Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	99

Document ID:	NYE0278752
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	11/11/1999
Trans1 Recv Date:	11/11/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/12/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004045340
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	80680AE
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00071
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	99

Document ID:	NYE0407808
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	11/11/1999
Trans1 Recv Date:	11/11/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/12/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004045340
Trans1 EPA ID:	NYD980593636
Trans2 EPA ID:	Not reported
TSDF ID:	80416AB
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00415
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

R107 **EDR US Hist Cleaners** **1015101272**
SSE **851 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.123 mi.
652 ft. **Site 5 of 7 in cluster R**

Relative:
Higher

Actual:
78 ft.

EDR Historical Cleaners:

Name: LAUNDROMAT
Year: 1999
Address: 851 ATLANTIC AVE

Name: LAUNDROMAT
Year: 2000
Address: 851 ATLANTIC AVE

Name: LAUNDROMAT
Year: 2001
Address: 851 ATLANTIC AVE

Name: LAUNDROMAT
Year: 2002
Address: 851 ATLANTIC AVE

Name: LAUNDROMAT
Year: 2003
Address: 851 ATLANTIC AVE

Name: AQUA CLEAN LAUNDROMAT & DRY
Year: 2010
Address: 851 ATLANTIC AVE

Name: AQUA CLEAN LAUNDROMAT & DRY CLEANING
Year: 2011
Address: 851 ATLANTIC AVE

Name: BROOKLYNS FAMOUS LAUNDRY SERVICE
Year: 2011
Address: 851 ATLANTIC AVE

Name: AQUA CLEAN LAUNDROMAT & DRY CLEANING
Year: 2012
Address: 851 ATLANTIC AVE

Name: BROOKLYNS FAMOUS LAUNDRY SERVICE
Year: 2012
Address: 851 ATLANTIC AVE

R108 **LOT 70,TAXBLOCK 2012** **E DESIGNATION** **S108984116**
SSE **851 ATLANTIC AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.123 mi.
652 ft. **Site 6 of 7 in cluster R**

Relative:
Higher

Actual:
78 ft.

E DESIGNATION:

Tax Lot(s): 70
E-No: E-183
Effective Date: 7/25/2007
Satisfaction Date: Not reported
Ceqr Number: 07DCP066K
Ulurp Number: 070430ZMK

LOT 70,TAXBLOCK 2012 (Continued) **S108984116**

Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	S3
Land Use Category:	04
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	MATARESE/MANDELLA LLC
Lot Area:	000001211
Total Building Floor Area:	00000002400
Commercial Floor Area:	00000000800
Office Floor Area:	00000000000
Retail Floor Area:	00000000800
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	003.00
Residential Units:	00003
Non and Residential Units:	00004
Lot Frontage:	0020.00
Lot Depth:	0076.58
Building Frontage:	0020.00
Building Depth:	0035.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000009448
Total Assessed Value:	00000085030
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	1990
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported

LOT 70,TAXBLOCK 2012 (Continued) **S108984116**

Built Floor Area Ratio-Far:	0001.98
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120070
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993873
Y Coordinate:	0187571
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	70
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	BK
Community District:	302
Census Tract:	199
Census Block:	3001
School District:	13
City Council District:	35
Fire Company:	E219
Health Area:	36
Police Precinct:	088
Zone District 1:	M1-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M1-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	S3
Land Use Category:	04
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	MATARESE/MANDELLA LLC
Lot Area:	000001211
Total Building Floor Area:	00000002400
Commercial Floor Area:	00000000800
Office Floor Area:	00000000000

LOT 70,TAXBLOCK 2012 (Continued) **S108984116**

Retail Floor Area:	00000000800
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	003.00
Residential Units:	00003
Non and Residential Units:	00004
Lot Frontage:	0020.00
Lot Depth:	0076.58
Building Frontage:	0020.00
Building Depth:	0035.00
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000009448
Total Assessed Value:	00000085030
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1930
Year Built Code:	E
Year Altered1:	1990
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.98
Maximum Allowable Far:	01.00
Borough Code:	3
Borough Tax Block And Lot:	3020120070
Condominium Number:	00000
Census Tract 2:	0199
X Coordinate:	0993873
Y Coordinate:	0187571
Zoning Map:	16C
Sanborn Map:	302 039
Tax Map:	30704
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

S109 **EDR US Hist Auto Stat** **1015533590**
SW **514 VANDERBILT AVE** **N/A**
< 1/8 **BROOKLYN, NY 11238**
0.123 mi.
652 ft. **Site 3 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

EDR Historical Auto Stations:

Name:	PROTECH SERVICE STATION INC
Year:	2004
Address:	514 VANDERBILT AVE
Name:	PROTECH SERVICE STATION INC
Year:	2006
Address:	514 VANDERBILT AVE
Name:	PROTECH SERVICE STATION INC
Year:	2007
Address:	514 VANDERBILT AVE
Name:	PROTECH SERVICE STATION INC
Year:	2008
Address:	514 VANDERBILT AVE
Name:	PROTECH SERVICE STATION INC
Year:	2009
Address:	514 VANDERBILT AVE
Name:	STAR SELF SVC INC
Year:	2010
Address:	514 VANDERBILT AVE

S110 **FORMER BP SERVICE STATION** **UST** **U001839093**
SW **516 VANDERBILT AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.123 mi.
652 ft. **Site 4 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

UST:

Id/Status:	2-337501 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587269.57778000005
UTM Y:	4503904.9068299998
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	16182
Affiliation Type:	On-Site Operator
Company Name:	FORMER BP SERVICE STATION
Contact Type:	Not reported
Contact Name:	FACILITY NOT IN OPERATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A

FORMER BP SERVICE STATION (Continued) **U001839093**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/16/2011

Site Id:	16182
Affiliation Type:	Emergency Contact
Company Name:	METROPOLITAN TRANSPORTATION AUTHORITY
Contact Type:	Not reported
Contact Name:	MOVEMENT BUREAU
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 558-8204
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/16/2011

Site Id:	16182
Affiliation Type:	Mail Contact
Company Name:	MTA - LIRR
Contact Type:	Not reported
Contact Name:	PAUL MANSKE
Address1:	1441-41 94TH AVENUE
Address2:	Not reported
City:	JAMAICA
State:	NY
Zip Code:	11435
Country Code:	001
Phone:	(347) 494-6027
EMail:	PLMANSKE@LIRR.ORG
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/16/2011

Site Id:	16182
Affiliation Type:	Facility Owner
Company Name:	METROPOLITAN TRANSPORTATION AUTHORITY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	347 MADISON AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10017
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/16/2011

FORMER BP SERVICE STATION (Continued) **U001839093**

Tank Info:

Tank Number:	001
Tank ID:	28711
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1983
Date Tank Closed:	08/10/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	12/29/2007
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/08/2011

Equipment Records:

B08 - Tank External Protection - Retrofitted Impressed Current
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
G00 - Tank Secondary Containment - None
H05 - Tank Leak Detection - In-Tank System (ATG)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser

Tank Number:	002
Tank ID:	28712
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1983
Date Tank Closed:	08/10/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	12/29/2007
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/08/2011

FORMER BP SERVICE STATION (Continued) **U001839093**

Equipment Records:

B08 - Tank External Protection - Retrofitted Impressed Current
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
E04 - Piping Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Number:	003
Tank ID:	28713
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1983
Date Tank Closed:	08/10/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	11/29/2007
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/08/2011

Equipment Records:

B08 - Tank External Protection - Retrofitted Impressed Current
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
H05 - Tank Leak Detection - In-Tank System (ATG)
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
E04 - Piping Secondary Containment - Double-Walled (Underground)

Tank Number:	004
Tank ID:	28714
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1983
Date Tank Closed:	08/10/2011

FORMER BP SERVICE STATION (Continued) **U001839093**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	11/29/2007
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/08/2011

Equipment Records:

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
B08 - Tank External Protection - Retrofitted Impressed Current
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
G00 - Tank Secondary Containment - None
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm

Tank Number:	005
Tank ID:	240900
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/31/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None

FORMER BP SERVICE STATION (Continued) **U001839093**

B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

Tank Number:	006
Tank ID:	240901
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/31/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None

Tank Number:	007
Tank ID:	240902
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/31/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR

FORMER BP SERVICE STATION (Continued) **U001839093**

Last Modified: 09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None

Tank Number: 008
Tank ID: 240903
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 08/31/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

Tank Number: 009
Tank ID: 240904
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported

FORMER BP SERVICE STATION (Continued) **U001839093**

Date Tank Closed:	08/31/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None

Tank Number:	010
Tank ID:	240905
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/31/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None

FORMER BP SERVICE STATION (Continued) **U001839093**

I00 - Overfill - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

Tank Number:	011
Tank ID:	240906
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/01/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None

Tank Number:	012
Tank ID:	240907
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/01/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported

FORMER BP SERVICE STATION (Continued) **U001839093**

Modified By: NRLOMBAR
Last Modified: 09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

Tank Number: 013
Tank ID: 240908
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 09/01/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 09/16/2011

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
I00 - Overfill - None
L00 - Piping Leak Detection - None

Tank Number: 014
Tank ID: 240909
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550

FORMER BP SERVICE STATION (Continued) **U001839093**

Install Date:	Not reported
Date Tank Closed:	09/01/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None

Tank Number:	015
Tank ID:	240910
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/01/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None

FORMER BP SERVICE STATION (Continued) **U001839093**

J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
I00 - Overfill - None
A00 - Tank Internal Protection - None

Tank Number:	016
Tank ID:	240911
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	09/01/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	09/16/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

S111 **MARTINEZ SERVICE STATION INC** **RCRA-SQG** **1004758305**
SW **514-16 VANDERBILT AVE** **FINDS** **NYD986992022**
< 1/8 **BROOKLYN, NY 11238** **MANIFEST**
0.123 mi. **NY Spills**
652 ft. **Site 5 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	MARTINEZ SERVICE STATION INC
Facility address:	514-16 VANDERBILT AVE BROOKLYN, NY 11238
EPA ID:	NYD986992022
Mailing address:	VANDERBILT AVE BROOKLYN, NY 11238
Contact:	MANUEL MARTINEZ
Contact address:	VANDERBILT AVE BROOKLYN, NY 11238

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

Contact country: US
Contact telephone: (718) 622-7499
Contact email: Not reported
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: AMOCO OIL CO
Owner/operator address: PO BOX 9555
NEW HAVEN, CT 06535
Owner/operator country: US
Owner/operator telephone: (203) 865-1910
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AMOCO OIL CO
Owner/operator address: PO BOX 9555
NEW HAVEN, CT 06535
Owner/operator country: US
Owner/operator telephone: (203) 865-1910
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: MARTINEZ SERVICE STATION INC
Classification: Small Quantity Generator

Date form received by agency: 02/13/1992
Facility name: MARTINEZ SERVICE STATION INC

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004485646

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD986992022
Country:	USA
Mailing Name:	BP AMOCO NORTH AMERICA INC
Mailing Contact:	CASSANDRA CLARK
Mailing Address:	1 WEST PENN AVE SUITE 440
Mailing Address 2:	Not reported
Mailing City:	TOWSON
Mailing State:	MD
Mailing Zip:	21204
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	410-825-6179

Document ID:	CTF1192294
Manifest Status:	Not reported
Trans1 State ID:	32802A
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2004
Trans1 Recv Date:	02/25/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986992022
Trans1 EPA ID:	CTD001162072
Trans2 EPA ID:	Not reported
TSDF ID:	CTD002593
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02405
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID: CTF1192295

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

Manifest Status:	Not reported
Trans1 State ID:	26986A
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2004
Trans1 Recv Date:	02/25/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986992022
Trans1 EPA ID:	CTD001162072
Trans2 EPA ID:	Not reported
TSDF ID:	CTD002593
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02550
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	CTF1192296
Manifest Status:	Not reported
Trans1 State ID:	34929ACT
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2004
Trans1 Recv Date:	02/25/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986992022
Trans1 EPA ID:	CTD001162072
Trans2 EPA ID:	Not reported
TSDF ID:	CTD002593
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03870
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	CTF1192298
Manifest Status:	Not reported
Trans1 State ID:	30268A
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2004
Trans1 Recv Date:	02/25/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

Generator EPA ID:	NYD986992022
Trans1 EPA ID:	CTD001162072
Trans2 EPA ID:	Not reported
TSDF ID:	CTD002593
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02826
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

SPILLS:

Facility ID:	0503961
DER Facility ID:	295103
Facility Type:	ER
Site ID:	348673
DEC Region:	2
Spill Date:	7/3/2005
Spill Number/Closed Date:	0503961 / 7/7/2005
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	7/3/2005
CID:	72
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	7/3/2005
Spill Record Last Update:	7/8/2005
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	40 ELDRIDGE AV
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	001
Contact Name:	BRAD FULLER
Contact Phone:	(718) 789-4455
DEC Memo:	7/5/05 Spoke to Brad Fuller, citizen who reported spill. His tank overflowed and now his gas gauge appears to be broken. He stated that he also reported it to the EPA. And he received a phonecall from the USCG. He said the station looked independently owned and wasn't sure if BP was responsible. PBS 2-337501 shows BP as operator.7/6/05 Paula Skryja, BP Environmental Compliance Specialist (skryjapj@bp.com, 410-551-6074, 410-551-3686(f),443-310-2099 (c))will research and forward any information.7/7/05 Email from Heidi Beatty, Compliance Coordinator Delta Environmental ConsultantsPO Box 14, 418 Wall St, Gibbstown, NJ 08027. Phone: (856) 423-3101, Fax: (856) 423-6593The nozzle was replaced on the pump and the spill was cleaned up with

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

absorbent by the site.
Remarks: Shut-off valve on gas pump (#9) failed, causing .5-1 gallon of gasoline to spill onto pavement. Not cleaned up as of yet.

Material:

Site ID:	348673
Operable Unit ID:	1106324
Operable Unit:	01
Material ID:	1971249
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1104188
DER Facility ID:	406361
Facility Type:	ER
Site ID:	451787
DEC Region:	2
Spill Date:	7/14/2011
Spill Number/Closed Date:	1104188 / 4/23/2012
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	7/15/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/15/2011
Spill Record Last Update:	5/2/2012
Spiller Name:	Not reported
Spiller Company:	ATLANTIC RAILYARDS LLC
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JESSICA TAYLOR
Contact Phone:	Not reported
DEC Memo:	7/15/11-HRAHMED-Spoke to Jessica of Roux Associates(631) 232-2600. As per her, the site is a former gas station. They will begin to pull out the tanks. They already innert the tanks by filling with

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

nitrogen. This is part of Atlantic Yards Redevelopment project. They did some soil boring utilizing Sonic Rig and collected soil samples. Based on the PID readings they called in the spill. Jessica will forward the analytical report as soon as it available.10/31/11-Hiralkumar Patel. case transferred from DEC Hasan to DEC Patel.01/13/12-Hiralkumar Patel.1:00 PM:- received message from Frank Cherena from Roux.Frank CherenaRoux AssociatesPh. (631) 232-2600email: fcherena@rouxinc.com1:31 PM:- spoke with Frank. he mentioned that the site is under redevelopment. it will a railroad yard. due to the location of existing rail yard, site will be excavated down to 50 ft bg for new yard. initially, they planned for removal of four 4,000 gal tanks, but during excavation found additional 550 gal tanks. all tanks are removed and has excavated down to 40 ft bg. during july 2011, Roux collected soil samples for waste characteriazation and found ocntamination. no formal report was made for waste characterization sampling. asked Frank to submit waste characterization sampling results and a site map. asked him to include waste characterization sample locations, tank locations and excavation boundaries on the site map. they have planned for endpoint sample collection on 01/23/12. Frank mentioned that as per previous study, groundwater is at 75 ft bg. asked Frank to follow DER-10 for number and location of endpoint samples.alternate address: 514-522 Vanderbilt Ave, 836 Atlantic AvePBS #: 2-337501. as per PBS record, site had following tanks:- four 4,000 gal gasoline USTs- eleven (11) 550 gal gasoline USTs- one 550 gal waste oil USTall tanks were removed in Aug. 2011.other spill #: 0503961. about 1 gal gasoline spilled onto pavement due to failed shut-off valve on gas pump. case closed.01/20/12-Hiralkumar Patel.11:54 AM:- received email from Frank. they have postponed the drilling next week and will submit a site status letter next week.02/10/12-Hiralkumar Patel. received email from Jessica Taylor (at 6:25 PM on 02/09/12) from AKRF including status update. abstract:- inn order to facilitate the disposal of excavated soil, Roux performed an in situ soil characterization investigation- site was divided into four grids- each grid consists of 8 ft deep cube shaped cells containing approx. 800 cubic yards of soil- site was a gas station- total of 16 tanks removed from the site: four (4) 4,000 gal USTs and twelve (12) 550 gal USTs- 550 gal tanks were unknown prior to excavation- majority of 550 gal tanks were encased in and filled with concrete with the exception of tanks 5, 6 and 16, which were situated in the soil <---------- approx. 5,500 tons of soil was excavated from grids that displayed petroleum contamination through analytical data and field observations- majority of the site has been excavated to approx. 40 ft bls- six endpoint samples (EP-1 through EP-6) will be collected: one sample per 900 sq. ft.- endpoint sample locations will be biased toward former tank locations and areas previously exhibiting soil contamination- two additional samples (EP-7 and EP-8) will be collected from the location where UST # 16 was discovered- excavation sidewall samples are not proposed due to the presence of support of excavation in form of wood lagging- found very high contamination (e.g. 400,000 ppb Toluene) in soil (NEGS-2) from 11 to 35 ft bls from grid 2; found clean soil below 35 ft- found high contamination (e.g. 57,000 ppb 1,2,4-Trimehtylbenzene) in soil (NEGS-4) from 5-13 ft bls from grid 4; found clean soil below 13 ft- sample NEGS-2 was collected from grid 2 which contained eleven 550 gal tanks (tank # 5 to 15)- sample NEGS-4 was collected from grid 4 which contained four 4,000 gal tanks (tank # 1 to 4)Jessica asked for approval for

MARTINEZ SERVICE STATION INC (Continued) **1004758305**

endpoint sample collection plan.Jessica TaylorAKRF, Inc.Ph. (631) 232-2600 (O) (631) 831-4205 (C)Fax (631) 232-9898email: jtaylor@rouxinc.com02/13/12-Hiralkumar Patel.4:13 PM:- spoke with Jessica at AKRF. asked her to collect endpoint samples as per DER-10. as excavation is open for more than a week, asked her to collect endpoint bottom samples at least six inches below the excavation bottom surface. she mentioned that groundwater under the site is about 60 ft bg and they dug to 40 ft depth. she also mentioned that the rail tracks on north side of the property is about 35 ft bg and there was about 40 ft high concrete wall between the rail tracks and the site. based on these information, no investigation needed on north (concrete wall) and east side (no groundwater, which could spread contamination horizontally) of former 550 gal tank group, at this point. informed her that the department may require additional investigation after reviewing the endpoint sample results. asked her to provide work schedule.4:53 PM:- sent email to Jessica and asked to collect endpoint samples as per DER-10. informed her that additional investigation may be needed. email copied to Frank.02/17/12-Hirlakumar Patel. received email from Jessica (at 4:39 PM on 02/16/12). endpoint samples will be collected today.03/02/12-Hiralkumar Patel.1:44 PM:- received call from Frank from Roux. no contamination found in endpoint samples. asked him to submit final closure report.03/23/12-Hiralkumar Patel.4:34 PM:- spoke with Frank. he is waiting for ok from one of the owner's rep and will release report by end of next week.04/23/12-Hiralkumar Patel. received email from Frank (at 6:37 PM on 04/20/12) including closure. total of eight endpoint bottom samples were collected. no PID or visual signs of contamination were observed at any of the endpoint sample locations. no contamination found in endpoint samples.based on available information, case closed.

Remarks: Caller advised did analysis on soil and found contamination of gasoline unk amount. Clean up is pending.

Material:

Site ID:	451787
Operable Unit ID:	1201964
Operable Unit:	01
Material ID:	2198531
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

112 ENE 1/8-1/4 0.128 mi. 678 ft. | **191 ST JAMES PL.**
191 ST JAMES PLACE
BROOKLYN, NY | **LTANKS** | **S102660640**
N/A

Relative: Lower

Actual: 72 ft.

LTANKS:

Site ID:	178145
Spill Number/Closed Date:	9303316 / 6/14/1993
Spill Date:	6/11/1993
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	6/14/1993
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	6/14/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/15/1993
Spill Record Last Update:	7/19/1993
Spiller Name:	Not reported
Spiller Company:	UNK OWNER
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	149626
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CAMMISA."
Remarks:	SPILL CONTAINED IN BASEMENT CLEAN UP IS COMPLETE - MAY NEED TO REMOVE MATERIAL NY DEP ENZO CATENZARO WAS AT SCENE 718 595-4656.

Material:

Site ID:	178145
Operable Unit ID:	985214
Operable Unit:	01
Material ID:	396894
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

191 ST JAMES PL. (Continued) **S102660640**

Tank Test:

113
SE
1/8-1/4
0.131 mi.
692 ft.

Relative:
Lower

Actual:
77 ft.

CON EDISON **MANIFEST** **S113815006**
OPP 580 WASHINGTON AVE **N/A**
BROOKLYN, NY 11238

NY MANIFEST:

EPA ID:	NYP004313631
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	15-May-2013 00:00:00
Trans1 Recv Date:	15-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	16-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004313631
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	150
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017473GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CON EDISON (Continued) **S113815006**

Mgmt Method Type Code: H141

S114 **EDR US Hist Auto Stat** **1015539413**
SSW **524 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.133 mi.
704 ft. **Site 6 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

EDR Historical Auto Stations:

Name: P J SVCE STATION CORPORATION
Year: 1999
Address: 524 VANDERBILT AVE

Name: P J SVCE STATION CORPORATION
Year: 2000
Address: 524 VANDERBILT AVE

Name: PJ SERVICE STATION INC
Year: 2001
Address: 524 VANDERBILT AVE

Name: PJ SERVICE STATION INC
Year: 2002
Address: 524 VANDERBILT AVE

Name: PJ SERVICE STATION CORP
Year: 2003
Address: 524 VANDERBILT AVE

Name: PJ SERVICE STATION CORP
Year: 2004
Address: 524 VANDERBILT AVE

Name: P J SERVICE STA CORP
Year: 2005
Address: 524 VANDERBILT AVE

Name: P J SERVICE STA CORP
Year: 2006
Address: 524 VANDERBILT AVE

S115 **524 VANDERBILT AVE,INC.** **HIST UST** **U001330064**
SSW **524 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11212**
0.133 mi.
704 ft. **Site 7 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

HIST UST:

PBS Number: 2-601365
SPDES Number: Not reported
Emergency Contact: MARIAM AZADALLI
Emergency Telephone: (718) 349-0555
Operator: PACIFIC GAS (NY) INC.
Operator Telephone: (718) 628-8832
Owner Name: HARDROCK SERVICE STATION INC.
Owner Address: 36-14 14TH AVE

524 VANDERBILT AVE,INC. (Continued) **U001330064**

Owner City,St,Zip:	BROOKLYN, NY 11218
Owner Telephone:	(718) 972-4300
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	PACIFIC GAS (NY) INC,
Mailing Address:	276 N. HENRY STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11222
Mailing Contact:	MIRIAM AZADALLI
Mailing Telephone:	(718) 349-0555
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	524 VANDERBILT AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	02/19/1998
Expiration Date:	03/04/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	12000
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	10/01/1998
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Sacrificial Anode
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	High Level Alarm
Dispenser:	Submersible
Date Tested:	07/01/1996

524 VANDERBILT AVE,INC. (Continued) **U001330064**

Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	10/01/1998
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Sacrificial Anode
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	High Level Alarm
Dispenser:	Submersible
Date Tested:	07/01/1996
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	10/01/1998
Capacity (gals):	4000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Epoxy Liner
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	High Level Alarm
Dispenser:	Submersible
Date Tested:	07/01/1996
Next Test Date:	10/01/2008
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported

524 VANDERBILT AVE,INC. (Continued) **U001330064**

Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

S116 **CITY GAS** **RCRA NonGen / NLR** **1001818363**
SSW **524 VANDERBUILT AVE** **US AIRS** **NYU005001722**
1/8-1/4 **BROOKLYN, NY 11212**
0.133 mi.
704 ft. **Site 8 of 9 in cluster S**

Relative:
Lower

Actual:
73 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	CITY GAS
Facility address:	524 VANDERBUILT AVE BROOKLYN, NY 11212
EPA ID:	NYU005001722
Mailing address:	N HENRY ST BROOKLYN, NY 11222
Contact:	Not reported
Contact address:	N HENRY ST BROOKLYN, NY 11222
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NON REGULATED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(718) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NON REGULATED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(718) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No

CITY GAS (Continued) **1001818363**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: CITY GAS
Classification: Not a generator, verified

Date form received by agency: 09/28/1999
Facility name: CITY GAS
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/27/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

AIRS (AFS):

Airs Minor Details:
EPA plant ID: 110004568888
Plant name: EAGLE
Plant address: 524 VANDERBILT AVE
BROOKLYN, NY 11238
County: KINGS
Region code: 02
Dunn & Bradst #: Not reported
Air quality cntrl region: 043
Sic code: 5541
Sic code desc: GASOLINE SERVICE STATIONS
North Am. industrial classf: Not reported
NAIC code description: Not reported
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: SIP SOURCE

CITY GAS (Continued) **1001818363**

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

CITY GAS (Continued) **1001818363**

Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

S117
SSW
1/8-1/4
0.133 mi.
704 ft.

FACILITY NOT IN OPERATION **UST** **U004081906**
524 VANDERBILT AVENUE **N/A**
BROOKLYN, NY 11238

Site 9 of 9 in cluster S

Relative:
Lower

Actual:
73 ft.

UST:

Id/Status:	2-601365 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587266.27576999995
UTM Y:	4503854.0162599999
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	23332
Affiliation Type:	Mail Contact
Company Name:	AY 524 VANDERBILT, LLC
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	C/O FOREST CITY RATNER COMPANIES
Address2:	1 METRO TECH CENTER NORTH
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DXLIVING
Date Last Modified:	2/5/2007

Site Id:	23332
Affiliation Type:	On-Site Operator
Company Name:	FACILITY NOT IN OPERATION
Contact Type:	Not reported
Contact Name:	FACILITY NOT IN OPERATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DXLIVING
Date Last Modified:	2/5/2007

Site Id:	23332
Affiliation Type:	Emergency Contact
Company Name:	AY 524 VANDERBILT, LLC

FACILITY NOT IN OPERATION (Continued) **U004081906**

Contact Type:	Not reported
Contact Name:	FACILITY NOT IN OPERATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DXLIVING
Date Last Modified:	2/5/2007

Site Id:	23332
Affiliation Type:	Facility Owner
Company Name:	AY 524 VANDERBILT, LLC
Contact Type:	SECRETARY & SR VP
Contact Name:	DAVID BERLINER
Address1:	524 VANDERBILT
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/15/2007

Tank Info:

Tank Number:	001
Tank ID:	45756
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	10/01/1988
Date Tank Closed:	05/07/2007
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	03
Date Test:	07/01/1996
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	05/15/2007

Equipment Records:

G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode

FACILITY NOT IN OPERATION (Continued) **U004081906**

I02 - Overfill - High Level Alarm
B02 - Tank External Protection - Original Sacrificial Anode
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser

Tank Number:	002
Tank ID:	45757
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	10/01/1988
Date Tank Closed:	05/07/2007
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	07/01/1996
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	05/15/2007

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
I02 - Overfill - High Level Alarm
G00 - Tank Secondary Containment - None
B02 - Tank External Protection - Original Sacrificial Anode
H05 - Tank Leak Detection - In-Tank System (ATG)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser

Tank Number:	003
Tank ID:	45758
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	10/01/1988
Date Tank Closed:	05/07/2007
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	03
Date Test:	07/01/1996
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR

FACILITY NOT IN OPERATION (Continued) **U004081906**

Last Modified: 05/15/2007

Equipment Records:

G00 - Tank Secondary Containment - None
B02 - Tank External Protection - Original Sacrificial Anode
H05 - Tank Leak Detection - In-Tank System (ATG)
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
I02 - Overfill - High Level Alarm
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Pressurized Dispenser

Tank Number: 004
Tank ID: 217211
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 005
Tank ID: 217212
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported

FACILITY NOT IN OPERATION (Continued) **U004081906**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 006
Tank ID: 217213
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 007
Tank ID: 217214
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported

FACILITY NOT IN OPERATION (Continued) **U004081906**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 008
Tank ID: 217215
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 009
Tank ID: 217216
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported

FACILITY NOT IN OPERATION (Continued) **U004081906**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 010
Tank ID: 217217
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 011
Tank ID: 217218
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 05/07/2007
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported

FACILITY NOT IN OPERATION (Continued) **U004081906**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/15/2007

Equipment Records:

F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

T118 **450 CLINTON LLC** **AST** **A100292383**
NNW **450 CLINTON AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.136 mi.
719 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
83 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-608753
Program Type: PBS
UTM X: 587269.59858999995
UTM Y: 4504289.3604800003
Expiration Date: 2018/08/15
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 30604
Affiliation Type: Mail Contact
Company Name: 450 CLINTON LLC
Contact Type: MANAGING AGENT
Contact Name: JOSE PEREZ
Address1: 57 FIFTH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001
Phone: (718) 857-1260
EMail: Not reported
Fax Number: Not reported
Modified By: DMMOLOUG
Date Last Modified: 4/2/2013

Site Id: 30604
Affiliation Type: Facility Owner
Company Name: 450 CLINTON LLC
Contact Type: MANAGING AGENT
Contact Name: JOSE PEREZ
Address1: 57 FIFTH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001

450 CLINTON LLC (Continued) **A100292383**

Phone:	(718) 857-0635
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	4/2/2013

Site Id:	30604
Affiliation Type:	On-Site Operator
Company Name:	450 CLINTON LLC
Contact Type:	Not reported
Contact Name:	JOSE PEREZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 857-1260
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	4/2/2013

Site Id:	30604
Affiliation Type:	Emergency Contact
Company Name:	450 CLINTON LLC
Contact Type:	Not reported
Contact Name:	JOSE PEREZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 857-1260
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	4/2/2013

Tank Info:

Tank Number:	001
Tank Id:	65601
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

450 CLINTON LLC (Continued) **A100292383**

J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/07/1993
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMMOLOUG
Last Modified:	04/02/2013
Material Name:	#2 Fuel Oil (On-Site Consumption)

R119 **EDR US Hist Auto Stat** **1015663722**
SSE **890 ATLANTIC AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.140 mi.
737 ft. **Site 7 of 7 in cluster R**

Relative:
Higher

Actual:
79 ft.

EDR Historical Auto Stations:

Name:	PROFESSIONAL AUTO SVCE
Year:	2011
Address:	890 ATLANTIC AVE
Name:	PROFESSIONAL AUTO SVCE
Year:	2012
Address:	890 ATLANTIC AVE

U120 **CON EDISON** **MANIFEST** **S113814828**
North **428 WAVERLY AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.146 mi.
773 ft. **Site 1 of 3 in cluster U**

Relative:
Higher

Actual:
81 ft.

NY MANIFEST:

EPA ID:	NYP004311759
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770
Document ID:	Not reported

CON EDISON (Continued) **S113814828**

Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	13-May-2013 00:00:00
Trans1 Recv Date:	13-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	13-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004311759
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002018043GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

T121
NNW
1/8-1/4
0.147 mi.
778 ft.

TEEN CHALLENGE INC.
444 CLINTON AVENUE
BROOKLYN, NY 11238

UST **U003800441**
HIST UST **N/A**

Site 2 of 2 in cluster T

Relative:
Higher

Actual:
84 ft.

UST:

Id/Status:	2-606675 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2016/09/15
UTM X:	587291.99404999998
UTM Y:	4504291.7314799996
Site Type:	Other

Affiliation Records:

Site Id:	28533
Affiliation Type:	Mail Contact
Company Name:	TEAM CHALLENGE INC
Contact Type:	Not reported
Contact Name:	BEN PADILLA
Address1:	444 CLINTON AVE
Address2:	Not reported

TEEN CHALLENGE INC. (Continued) **U003800441**

City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 789-1414
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/15/2011

Site Id:	28533
Affiliation Type:	On-Site Operator
Company Name:	TEEN CHALLENGE INC.
Contact Type:	Not reported
Contact Name:	THOMAS LOTZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 789-1414
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28533
Affiliation Type:	Emergency Contact
Company Name:	TEEN CHALLENGE/THOMAS LOTZ
Contact Type:	Not reported
Contact Name:	THOMAS LOTZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 857-5824
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28533
Affiliation Type:	Facility Owner
Company Name:	TEAM CHALLENGE/THOMAS LOTZ
Contact Type:	MGR
Contact Name:	BEN PADILLA
Address1:	444 CLINTON AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 789-1414
EMail:	Not reported

TEEN CHALLENGE INC. (Continued) **U003800441**

Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/15/2011

Tank Info:

Tank Number:	01
Tank ID:	61747
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	3000
Install Date:	01/02/1980
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	07/18/2011
Next Test Date:	07/18/2016
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	09/15/2011

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
F06 - Pipe External Protection - Wrapped
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
B02 - Tank External Protection - Original Sacrificial Anode
H00 - Tank Leak Detection - None
F02 - Pipe External Protection - Original Sacrificial Anode
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

HIST UST:

PBS Number:	2-606675
SPDES Number:	Not reported
Emergency Contact:	THOMAS LOTZ
Emergency Telephone:	(718) 789-1414
Operator:	TOM LOTZ
Operator Telephone:	(718) 789-1414
Owner Name:	THOMAS LOTZ
Owner Address:	444 CLINTON AVE
Owner City,St,Zip:	BROOKLYN, NY 11238
Owner Telephone:	(718) 789-1414
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	TEEN CHALLENGE INC.
Mailing Address:	444 CLINTON AVE
Mailing Address 2:	Not reported

TEEN CHALLENGE INC. (Continued) **U003800441**

Mailing City,St,Zip:	BROOKLYN, NY 11238
Mailing Contact:	THOMAS LOTZ
Mailing Telephone:	(718) 789-1414
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	444 CLINTON AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/17/2001
Expiration Date:	08/14/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	01
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	12/27/1987
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

V122 West 1/8-1/4 0.148 mi. 783 ft. | **NYC DEPT OF ED - PUBLIC SCHOOL 85K**
510 CLERMONT AVE
BROOKLYN, NY 11224

Site 1 of 3 in cluster V

MANIFEST | **S110491385**
N/A

Relative: Lower

Actual: 72 ft.

NY MANIFEST:

EPA ID:	NYR000173963
Country:	USA
Mailing Name:	NYC DEPT OF ED - PUBLIC SCHOOL 85K
Mailing Contact:	TIM SULLIVAN
Mailing Address:	30-30 THOMPSON AVE
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY
Mailing State:	NY
Mailing Zip:	11101
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-472-8501

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	2010-06-04
Trans1 Recv Date:	2010-06-04
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173963
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	1000.0
Units:	P - Pounds
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	000199784WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

V123 **PS 85** **AST** **U000411070**
West **510 CLERMONT AVENUE** **HIST AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.148 mi.
783 ft. **Site 2 of 3 in cluster V**

Relative:
Lower

Actual:
72 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-478229
Program Type:	PBS
UTM X:	587177.34595999995
UTM Y:	4503962.8821700001
Expiration Date:	2014/11/30
Site Type:	School

Affiliation Records:

Site Id:	21246
Affiliation Type:	On-Site Operator
Company Name:	PUBLIC SCHOOL 85 - BROOKLYN (K085)
Contact Type:	Not reported
Contact Name:	PLANT OPERATIONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	11/16/2004

Site Id:	21246
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY OF DEP. OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 935-3300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	11/16/2004

Site Id:	21246
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY OF DEP. OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	RAYMOND CORREA
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY

PS 85 (Continued) **U000411070**

State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	3/23/2010

Site Id:	21246
Affiliation Type:	Mail Contact
Company Name:	NEW YORK CITY DEP. OF EDUCATION
Contact Type:	Not reported
Contact Name:	RAYMOND CORREA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	RCORREA5@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	3/23/2010

Tank Info:

Tank Number:	001
Tank Id:	38481
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
K00 - Spill Prevention - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/07/1963
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

PS 85 (Continued) **U000411070**

Register: True
Modified By: CGFREEDM
Last Modified: 03/23/2010
Material Name: #4 Fuel Oil (On-Site Consumption)

Tank Number: 002
Tank Id: 38482
Material Code: 0002
Common Name of Substance: #4 Fuel Oil (On-Site Consumption)

Equipment Records:
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 06/07/1963
Capacity Gallons: 6000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: CGFREEDM
Last Modified: 03/23/2010
Material Name: #4 Fuel Oil (On-Site Consumption)

HIST AST:
PBS Number: 2-478229
SWIS Code: 6101
Operator: PLANT OPERATION
Facility Phone: (718) 391-6000
Facility Addr2: 510 CLERMONT AV
Facility Type: SCHOOL
Emergency: SCHOOL SAFETY
Emergency Tel: (212) 979-3300
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: BOARD OF EDUCATION
Owner Address: 28-11 QUEENS PLAZA NORTH
Owner City,St,Zip: LONG ISLAND CITY, NY 11101
Federal ID: Not reported

PS 85 (Continued) **U000411070**

Owner Tel:	(718) 391-6832
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	FRANK CARDELLO NTROL
Mailing Name:	BOARD OF EDUCATION
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	5TH FLOOR
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 391-6832
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	11/08/1999
Expiration:	11/30/2004
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	10000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

PS 85 (Continued) **U000411070**

Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

V124 **NYC DEPT OF ED - PUBLIC SCHOOL 85K** **RCRA-SQG** **1014399310**
West **510 CLERMONT AVE** **NYR000173963**
1/8-1/4 **BROOKLYN, NY 11224**
0.148 mi.
783 ft. **Site 3 of 3 in cluster V**

Relative:
Lower

Actual:
72 ft.

RCRA-SQG:

Date form received by agency:	04/21/2010
Facility name:	NYC DEPT OF ED - PUBLIC SCHOOL 85K
Facility address:	510 CLERMONT AVE BROOKLYN, NY 11224
EPA ID:	NYR000173963
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	(718) 472-8501
Contact email:	Not reported
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NEW YORK CITY

NYC DEPT OF ED - PUBLIC SCHOOL 85K (Continued) **1014399310**

Owner/operator address:	THOMPSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	(718) 472-8501
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	02/17/1970
Owner/Op end date:	Not reported

Owner/operator name:	NEW YORK CITY
Owner/operator address:	THOMPSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	(718) 472-8501
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	02/17/1970
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	No
Generated waste on-site:	Not reported

Waste type:	Lamps
Accumulated waste on-site:	No
Generated waste on-site:	Not reported

Waste type:	Pesticides
Accumulated waste on-site:	No
Generated waste on-site:	Not reported

Waste type:	Thermostats
Accumulated waste on-site:	No
Generated waste on-site:	Not reported

Hazardous Waste Summary:

Waste code:	B007
Waste name:	B007

NYC DEPT OF ED - PUBLIC SCHOOL 85K (Continued) **1014399310**

Violation Status: No violations found

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125 SW 1/8-1/4 0.148 mi. 784 ft. | **840 ATLANTIC AVENUE**
ATLANTIC AVENUE
BROOKLYN, NY 11238 | **UST** | **U003297823**
N/A

Relative: Lower

Actual: 70 ft.

UST:

Id/Status:	2-603368 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587191.1875
UTM Y:	4503940
Site Type:	Unknown

Affiliation Records:

Site Id:	25286
Affiliation Type:	Facility Owner
Company Name:	ANTHONY MUSTO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	29-37 41ST AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25286
Affiliation Type:	Mail Contact
Company Name:	CROSSTOWN REALTY CO.
Contact Type:	Not reported
Contact Name:	ANTHONY MUSTO
Address1:	29-37 41ST AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25286
Affiliation Type:	On-Site Operator
Company Name:	840 ATLANTIC AVENUE
Contact Type:	Not reported
Contact Name:	ANTHONY MUSTO
Address1:	Not reported

840 ATLANTIC AVENUE (Continued) **U003297823**

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25286
Affiliation Type:	Emergency Contact
Company Name:	ANTHONY MUSTO
Contact Type:	Not reported
Contact Name:	ANTHONY MUSTO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 937-8100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	54026
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	03/01/1998
Date Tank Closed:	02/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground

840 ATLANTIC AVENUE (Continued) **U003297823**

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	002
Tank ID:	54027
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	02/01/1998
Date Tank Closed:	02/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	003
Tank ID:	54028
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	03/01/1998
Date Tank Closed:	02/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

840 ATLANTIC AVENUE (Continued) **U003297823**

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	004
Tank ID:	54029
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	02/01/1998
Date Tank Closed:	02/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	005
Tank ID:	54030
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	02/01/1998
Date Tank Closed:	02/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported

840 ATLANTIC AVENUE (Continued) **U003297823**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number: 006
Tank ID: 54031
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 02/01/1998
Date Tank Closed: 02/01/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number: 007
Tank ID: 54032
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 02/01/1998
Date Tank Closed: 02/01/1998
Registered: True
Tank Location: Underground

840 ATLANTIC AVENUE (Continued) **U003297823**

Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	008
Tank ID:	54033
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	02/01/1998
Date Tank Closed:	02/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

W126 SE 1/8-1/4 0.159 mi. 841 ft. | **CONSOLIDATED EDISON MH14817**
ATLANTIC AVENUE AND UNDERHILL
BROOKLYN, NY 11238 | **MANIFEST** | **S110046847**
N/A

Site 1 of 2 in cluster W

Relative: Higher

Actual: 80 ft.

NY MANIFEST:

EPA ID:	NYP004183513
Country:	USA
Mailing Name:	CONSOLIDATED EDISON MH14817
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PL RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-21
Trans1 Recv Date:	2009-07-21
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-23
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183513
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	1000.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894185GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported

CONSOLIDATED EDISON MH14817 (Continued) **S110046847**

Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-21
Trans1 Recv Date:	2009-07-21
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-23
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183513
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	1000.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894185GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

X127 **EDR US Hist Cleaners** **1015034816**
ESE **286 SAINT JAMES PL** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.164 mi.
868 ft. **Site 1 of 2 in cluster X**

Relative:
Lower

Actual:
77 ft.

EDR Historical Cleaners:

Name:	BU BU PROFESSIONAL CRPT CLNR
Year:	2001
Address:	286 SAINT JAMES PL
Name:	BU BU CARPET CLEANING
Year:	2002
Address:	286 SAINT JAMES PL
Name:	BU BU PROFESSIONAL CRPT CLNR
Year:	2003
Address:	286 SAINT JAMES PL

128 NNW 1/8-1/4 0.165 mi. 870 ft. | **429 CLINTON AVE INC**
429 CLINTON AVE
BROOKLYN, NY 11238 | **AST** | **U003384524**
HIST AST | **N/A**

Relative: Higher

Actual: 85 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-098248
Program Type:	PBS
UTM X:	587287.96927999996
UTM Y:	4504316.4556499999
Expiration Date:	2017/03/24
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	2853
Affiliation Type:	Facility Owner
Company Name:	429 CLINTON AVE, INC.
Contact Type:	AGENT
Contact Name:	MICHAEL TORRES
Address1:	429 CLINTON AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 622-2352
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/18/2012

Site Id:	2853
Affiliation Type:	Mail Contact
Company Name:	ADVANCED MGT SERVICES
Contact Type:	Not reported
Contact Name:	MICHAEL TORRES
Address1:	26 COURT ST. SUITE 804
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11242
Country Code:	001
Phone:	(718) 907-7545
EMail:	MTORRES@GMAIL.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/18/2012

Site Id:	2853
Affiliation Type:	On-Site Operator
Company Name:	429 CLINTON AVE, INC.
Contact Type:	Not reported
Contact Name:	429 CLINTON AVE INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported

429 CLINTON AVE INC (Continued) **U003384524**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 857-0638
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	2853
Affiliation Type:	Emergency Contact
Company Name:	429 CLINTON AVE, INC.
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/18/2012

Tank Info:

Tank Number:	001
Tank Id:	3906
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/21/1963
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

429 CLINTON AVE INC (Continued) **U003384524**

Register:	True
Modified By:	MSBAPTIS
Last Modified:	01/18/2012
Material Name:	#2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-098248
SWIS Code:	6101
Operator:	429 CLINTON AVE INC
Facility Phone:	(718) 857-3985
Facility Addr2:	429 CLINTON AVE
Facility Type:	APARTMENT BUILDING
Emergency:	W. CULBREATH
Emergency Tel:	(718) 857-3985
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	429 CLINTON AVE INC
Owner Address:	429 CLINTON AVE
Owner City,St,Zip:	BROOKLYN, NY 11238
Federal ID:	Not reported
Owner Tel:	(718) 857-3985
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	W. CULBREATH
Mailing Name:	429 CLINTON AVE INC
Mailing Address:	429 CLINTON AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11238
Mailing Telephone:	(718) 857-3985
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	03/27/1997
Expiration:	03/24/2002
Renew Flag:	False
Renew Date:	11/13/2001
Total Capacity:	2500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	2500

429 CLINTON AVE INC (Continued) **U003384524**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

X129 **CON EDISON** **MANIFEST** **S113814984**
ESE **OPP 288 ST JAMES PLACE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.165 mi.
872 ft. **Site 2 of 2 in cluster X**

Relative:
Lower

Actual:
77 ft.

NY MANIFEST:

EPA ID:	NYP004313383
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	15-May-2013 00:00:00
Trans1 Recv Date:	15-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	24-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004313383
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported

CON EDISON (Continued) **S113814984**

Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017931GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

U130 **NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN** **RCRA-LQG** **1004756528**
North **419 WAVERLY AVE** **NYD124833625**
1/8-1/4 **BROOKLYN, NY 11238**
0.166 mi.
874 ft. **Site 2 of 3 in cluster U**

Relative:
Higher

Actual:
82 ft.

RCRA-LQG:

Date form received by agency:	02/17/2012
Facility name:	NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN
Facility address:	419 WAVERLY AVE BROOKLYN, NY 11238
EPA ID:	NYD124833625
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	(718) 472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Land type:	Municipal
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN (Continued) **1004756528**

Owner/operator name: NYC DEPT OF ED
Owner/operator address: VERNON BLVD
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1958
Owner/Op end date: Not reported

Owner/operator name: NYC DEPT OF ED
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1958
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: Not reported
Owner/operator telephone: (718) 349-5600
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2007
Facility name: NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Facility name: NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN
Classification: Not a generator, verified

NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN (Continued) **1004756528**

Date form received by agency: 08/10/1995
Facility name: NYC BD OF ED - PUBLIC SCHOOL 11 BKLYN
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: B004
Waste name: B004

Waste code: B007
Waste name: B007

Waste code: D000
Waste name: Not Defined

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/15/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

U131 **NYC BOARD OF EDUCATION** **AST** **U003394316**
North **419 WAVERLY AVENUE** **HIST AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238** **MANIFEST**
0.166 mi.
874 ft. **Site 3 of 3 in cluster U**

Relative:
Higher

Actual:
82 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-356018
Program Type: PBS
UTM X: 587366.45045
UTM Y: 4504332.2990300003
Expiration Date: 2018/06/28
Site Type: School

Affiliation Records:
Site Id: 17765
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type: Not reported
Contact Name: SCHOOL SAFETY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 935-3300
EMail: Not reported
Fax Number: Not reported

NYC BOARD OF EDUCATION (Continued) **U003394316**

Modified By:	DMMOLOUG
Date Last Modified:	8/6/2013

Site Id:	17765
Affiliation Type:	On-Site Operator
Company Name:	PUBLIC SCHOOL 11 - BROOKLYN
Contact Type:	Not reported
Contact Name:	PLANT OPERATIONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	2/22/2012

Site Id:	17765
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/22/2013

Site Id:	17765
Affiliation Type:	Mail Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	JAMES A. MERLO
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/22/2013

Tank Info:

Tank Number:	001

NYC BOARD OF EDUCATION (Continued) **U003394316**

Tank Id:	34747
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/16/1958
Capacity Gallons:	12000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	06/28/2013
Material Name:	#6 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-356018
SWIS Code:	6101
Operator:	PLANT OPERATION
Facility Phone:	(718) 391-6000
Facility Addr2:	419 WAVERLY AV
Facility Type:	SCHOOL
Emergency:	SCHOOL SAFETY
Emergency Tel:	(212) 979-3300
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CITY OF NEW YORK C/O BOARD OF EDUCATION
Owner Address:	28-11 QUEENS PLAZA NORTH
Owner City,St,Zip:	LONG ISLAND CITY, NY 11101
Federal ID:	Not reported
Owner Tel:	(718) 391-6832
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	FRANK CARDELLO NTROL
Mailing Name:	BOARD OF EDUCATION
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	5 FLOOR

NYC BOARD OF EDUCATION (Continued) **U003394316**

Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 391-6832
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/02/1998
Expiration:	06/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	12000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	12000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

NY MANIFEST:

EPA ID:	NYD124833625
Country:	USA
Mailing Name:	NYC BOARD OF EDUCATION
Mailing Contact:	JACK BRUCCULERI
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	Not reported

NYC BOARD OF EDUCATION (Continued) **U003394316**

Mailing City:	LONG ISLAND CITY
Mailing State:	NY
Mailing Zip:	11101
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-349-5660

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-19
Trans1 Recv Date:	2011-02-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-02-22
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	3000.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001054759GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-23
Trans1 Recv Date:	2011-02-23
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-03-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported

NYC BOARD OF EDUCATION (Continued) **U003394316**

TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2800.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001054821GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027?93
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-23
Trans1 Recv Date:	2011-02-23
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-03-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	800.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001054822GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

NYC BOARD OF EDUCATION (Continued) **U003394316**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-26
Trans1 Recv Date:	2011-02-26
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-02-28
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	60.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001054845GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-26
Trans1 Recv Date:	2011-02-26
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-03-07
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2800.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0

NYC BOARD OF EDUCATION (Continued) **U003394316**

Year:	2011
Manifest Tracking Num:	001054846GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ00000271??
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-26
Trans1 Recv Date:	2011-02-26
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-03-07
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2800.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001054847GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-03-04
Trans1 Recv Date:	2011-03-04

NYC BOARD OF EDUCATION (Continued) **U003394316**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-03-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	350.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001054867GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-05
Trans1 Recv Date:	2011-02-05
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-02-09
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2400.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001056784GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

NYC BOARD OF EDUCATION (Continued) **U003394316**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-06
Trans1 Recv Date:	2011-02-06
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-02-09
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2850.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001056785GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-22
Trans1 Recv Date:	2011-02-22
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-02-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported

NYC BOARD OF EDUCATION (Continued) **U003394316**

Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2800.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001056786GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2011-02-27
Trans1 Recv Date:	2011-02-27
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-03-08
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD124833625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2800.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	001056787GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

NYC BOARD OF EDUCATION (Continued) **U003394316**

Mgmt Method Type Code: H141

Y132 **ADELPHI STATION** **UST** **U002259593**
East **950 FULTON STREET** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.167 mi.
881 ft. **Site 1 of 2 in cluster Y**

Relative:
Lower

Actual:
69 ft.

UST:

Id/Status:	2-602402 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587656.72678000003
UTM Y:	4504024.9948100001
Site Type:	Other

Affiliation Records:

Site Id:	24359
Affiliation Type:	Mail Contact
Company Name:	UNITED STATES POSTAL SERVICE
Contact Type:	Not reported
Contact Name:	ROBERT J. SKRIVANEK
Address1:	78-02 LIBERTY AVENUE
Address2:	Not reported
City:	OZONE PARK
State:	NY
Zip Code:	11417-1045
Country Code:	001
Phone:	(718) 529-7220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24359
Affiliation Type:	Emergency Contact
Company Name:	UNITED STATES POSTAL SERVICE
Contact Type:	Not reported
Contact Name:	ROBERT SKRIVANEK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 529-7220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	4/1/2009

Site Id:	24359
Affiliation Type:	Facility Owner
Company Name:	UNITED STATES POSTAL SERVICE
Contact Type:	Not reported
Contact Name:	Not reported

ADELPHI STATION (Continued) **U002259593**

Address1:	78-02 LIBERTY AVENUE
Address2:	Not reported
City:	OZONE PARK
State:	NY
Zip Code:	11417-1045
Country Code:	001
Phone:	(718) 529-7220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24359
Affiliation Type:	On-Site Operator
Company Name:	ADELPHI STATION
Contact Type:	Not reported
Contact Name:	STATION MANAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 783-0970
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	1
Tank ID:	49977
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1500
Install Date:	Not reported
Date Tank Closed:	07/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	20
Date Test:	12/01/1999
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

ADELPHI STATION (Continued) **U002259593**

D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
I00 - Overfill - None

HIST UST:

PBS Number:	2-602402
SPDES Number:	Not reported
Emergency Contact:	ROBERT SKRIVANEK
Emergency Telephone:	(718) 529-7220
Operator:	STATION MANAGER
Operator Telephone:	(718) 783-0970
Owner Name:	UNITED STATES POSTAL SERVICE
Owner Address:	78-02 LIBERTY AVENUE
Owner City,St,Zip:	OZONE PARK, NY 11417-1045
Owner Telephone:	(718) 529-7220
Owner Type:	Federal Government
Owner Subtype:	Not reported
Mailing Name:	UNITED STATES POSTAL SERVICE
Mailing Address:	78-02 LIBERTY AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OZONE PARK, NY 11417-1045
Mailing Contact:	ROBERT J. SKRIVANEK
Mailing Telephone:	(718) 529-7220
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	950 FULTON ST.
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	07/18/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	False
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	1500

ADELPHI STATION (Continued) **U002259593**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	12/01/1999
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	07/01/2000
Test Method:	USTest 2000
Deleted:	False
Updated:	True
Lat/long:	Not reported

W133 **EDR US Hist Auto Stat** **1015673127**
SSE **914 ATLANTIC AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.167 mi.
883 ft. **Site 2 of 2 in cluster W**

Relative:
Higher

Actual:
80 ft.

EDR Historical Auto Stations:

Name:	MIDAS AUTO SYSTEMS EXPERTS
Year:	1999
Address:	914 ATLANTIC AVE
Name:	MIDAS AUTO SYSTEMS EXPERTS
Year:	2000
Address:	914 ATLANTIC AVE

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134 **SR. JOSEPH CHURCH** **UST** **U000408593**
South **856 PACIFIC ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.172 mi.
907 ft.

Relative:
Higher

Actual:
84 ft.

UST:

Id/Status:	2-285838 / Administratively Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587408.48927000002
UTM Y:	4503791.7366899997
Site Type:	Unknown

Affiliation Records:

Site Id:	12723
Affiliation Type:	Facility Owner
Company Name:	SR. JOSEPH CHURCH
Contact Type:	Not reported

SR. JOSEPH CHURCH (Continued) **U000408593**

Contact Name:	Not reported
Address1:	856 PACIFIC ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 783-4500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12723
Affiliation Type:	Mail Contact
Company Name:	SR. JOSEPH CHURCH
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	856 PACIFIC ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 783-4500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12723
Affiliation Type:	On-Site Operator
Company Name:	SR. JOSEPH CHURCH
Contact Type:	Not reported
Contact Name:	SR. JOSEPH CHURCH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 783-4500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12723
Affiliation Type:	Emergency Contact
Company Name:	SR. JOSEPH CHURCH
Contact Type:	Not reported
Contact Name:	SR. JOSEPH CHURCH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported

SR. JOSEPH CHURCH (Continued) **U000408593**

Country Code:	001
Phone:	(718) 783-4500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	32191
Tank Status:	Administratively Closed
Material Name:	Administratively Closed
Capacity Gallons:	4000
Install Date:	12/01/1945
Date Tank Closed:	02/07/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)

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135 WNW 1/8-1/4 0.173 mi. 911 ft. **NYCTA - CLERMONT AVE SUBSTATION** **RCRA NonGen / NLR** **1000394672**
FULTON ST & CLERMONT AVE **FINDS** **NYD986899649**
BROOKLYN, NY

Relative: Lower

Actual: 75 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYCTA - CLERMONT AVE SUBSTATION
Facility address:	FULTON ST & CLERMONT AVE BROOKLYN, NY 11238
EPA ID:	NYD986899649
Mailing address:	JAY ST ROOM 809 BROOKLYN, NY 11201
Contact:	Not reported
Contact address:	JAY ST ROOM 809 BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	Not reported

NYCTA - CLERMONT AVE SUBSTATION (Continued) **1000394672**

Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address: 370 JAY ST ROOM 809
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 330-4891
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address: 370 JAY ST ROOM 809
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 330-4891
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYCTA - CLERMONT AVE SUBSTATION
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NYCTA - CLERMONT AVE SUBSTATION
Classification: Not a generator, verified

Date form received by agency: 05/04/1990
Facility name: NYCTA - CLERMONT AVE SUBSTATION
Classification: Large Quantity Generator

NYCTA - CLERMONT AVE SUBSTATION (Continued) **1000394672**

Violation Status: No violations found

FINDS:

Registry ID: 110008039247

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

136
WSW
1/8-1/4
0.173 mi.
915 ft.

ATLANTIC AVE AT CARLTON
ATLANTIC AVE AT CARLTON
BROOKLYN, NY

LTANKS **S102619286**
N/A

Relative:
Lower

Actual:
65 ft.

LTANKS:

Site ID:	330576
Spill Number/Closed Date:	9701786 / 2/24/2003
Spill Date:	5/10/1997
Spill Cause:	Tank Failure
Spill Source:	Commercial Vehicle
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	5/10/1997
CID:	322
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/10/1997
Spill Record Last Update:	2/24/2003
Spiller Name:	KEVIN HEATHER
Spiller Company:	MYSTIC TRANSPORTATION
Spiller Address:	1901 STEINWAY ST
Spiller City,St,Zip:	ASTORIA, NY 11105-
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	265901
DEC Memo:	Not reported
Remarks:	TANK WAS LEAKING FROM TOP OF TANK - SPILL INTO STREET - FD ONSCENE AND SPILL CLEANED UP

ATLANTIC AVE AT CARLTON (Continued) **S102619286**

Material:

Site ID:	330576
Operable Unit ID:	1044397
Operable Unit:	01
Material ID:	338329
Material Code:	0012A
Material Name:	Kerosene
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	2
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Y137
East
1/8-1/4
0.184 mi.
972 ft.

NYNEX-MANHOLE **RCRA NonGen / NLR** **1007205243**
FULTON ST & CAMBRIDGE AVE **MANIFEST** **NYP000922682**
BROOKLYN, NY 00000

Site 2 of 2 in cluster Y

Relative:
Lower

Actual:
69 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/27/1996
Facility name:	NYNEX-MANHOLE
Facility address:	FULTON ST & CAMBRIDGE AVE BROOKLYN, NY 000000000
EPA ID:	NYP000922682
Mailing address:	221 E 37TH ST 4TH FLR NEW YORK, NY 100160000
Contact:	JOHN QUATRALE
Contact address:	221 E 37TH ST 4TH FLR NEW YORK, NY 100160000
Contact country:	US
Contact telephone:	(212) 338-7141
Telephone ext.:	9999
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

NYNEX-MANHOLE (Continued) **1007205243**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/26/1996
Facility name: NYNEX-MANHOLE
Classification: Not a generator, verified

Date form received by agency: 03/25/1996
Facility name: NYNEX-MANHOLE
Classification: Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP000922682
Country: USA
Mailing Name: NYNEX
Mailing Contact: JOSE E RODRIGUEZ
Mailing Address: 221 EAST 37TH STREET
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10016
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-395-6040

Document ID: NJA2205571
Manifest Status: Completed copy
Trans1 State ID: 50060
Trans2 State ID: Not reported
Generator Ship Date: 951121
Trans1 Recv Date: 951121
Trans2 Recv Date: Not reported
TSD Site Recv Date: 951127
Part A Recv Date: Not reported
Part B Recv Date: 951212
Generator EPA ID: NYP000922682
Trans1 EPA ID: NYD980761191
Trans2 EPA ID: Not reported
TSDF ID: NJD002200046
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00330
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 95

Z138 SW 1/8-1/4 0.187 mi. 986 ft. | **THE TIME RECORD STORAGE CO.**
800 PACIFIC STREET
BROOKLYN, NY 11238

Site 1 of 2 in cluster Z

UST
HIST UST
AST
MANIFEST

U003074632
N/A

Relative: Lower

Actual: 72 ft.

UST:

Id/Status:	2-329533 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587205.06133000006
UTM Y:	4503846.5464000003
Site Type:	Other

Affiliation Records:

Site Id:	15482
Affiliation Type:	On-Site Operator
Company Name:	THE TIME RECORD STORAGE CO.
Contact Type:	Not reported
Contact Name:	JIM DOWSE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	15482
Affiliation Type:	Emergency Contact
Company Name:	THE TIME RECORD STORAGE COMPANY
Contact Type:	Not reported
Contact Name:	J. KEVIN GILGAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	15482
Affiliation Type:	Facility Owner
Company Name:	NYS URBAN DEV CORP DBA EMPIRE ST DEV CORP
Contact Type:	VP
Contact Name:	ROBERT SEMMA
Address1:	752 PACIFIC ST C/O AYDC INTERIM DEV, LLC
Address2:	Not reported
City:	BROOKLYN
State:	NY

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Zip Code:	11238
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/9/2011

Site Id:	15482
Affiliation Type:	Mail Contact
Company Name:	AYDC INTERIM DEV, LLC
Contact Type:	Not reported
Contact Name:	SHERVEEN BAFTECHI
Address1:	C/O FOREST CITY RATNER COMPANIES
Address2:	1 METROTECH CENTER
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 923-8400
EMail:	SBAFTECHI@FCRC.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/9/2011

Tank Info:

Tank Number:	001
Tank ID:	25741
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/22/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0013
Common Name of Substance:	Lube Oil

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Tank Number:	002
Tank ID:	25742
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/22/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

Tank Number:	003
Tank ID:	25743
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/22/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	004
Tank ID:	25744
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/22/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	005
Tank ID:	25745
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/22/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	006
Tank ID:	25746
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/22/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Number:	007
Tank ID:	25747
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1980
Date Tank Closed:	10/19/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	12/08/2011

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None

Tank Number:	008
Tank ID:	25748
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1980
Date Tank Closed:	10/19/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	12/08/2011

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

HIST UST:

PBS Number:	2-329533
SPDES Number:	Not reported
Emergency Contact:	WILLIAM VANEGAS
Emergency Telephone:	(718) 855-1700
Operator:	TIME MOVING & STORAGE INC
Operator Telephone:	(718) 855-1700
Owner Name:	THE TIME RECORD STORAGE COMPANY

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Owner Address:	628 WEST 45TH STREET
Owner City,St,Zip:	NEW YORK, NY 10036
Owner Telephone:	(718) 855-1700
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	THE TIME RECORD STORAGE COMPANY
Mailing Address:	628 WEST 45TH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10036
Mailing Contact:	WILLIAM VANEGAS
Mailing Telephone:	(718) 855-1700
Owner Mark:	Second Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	800 PACIFIC STREET
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/06/2000
Expiration Date:	10/03/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	29800
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-329533
Program Type:	PBS
UTM X:	587205.06133000006
UTM Y:	4503846.5464000003
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	15482
Affiliation Type:	On-Site Operator
Company Name:	THE TIME RECORD STORAGE CO.
Contact Type:	Not reported
Contact Name:	JIM DOWSE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Date Last Modified: 3/4/2004

Site Id: 15482
Affiliation Type: Emergency Contact
Company Name: THE TIME RECORD STORAGE COMPANY
Contact Type: Not reported
Contact Name: J. KEVIN GILGAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 855-1700
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 15482
Affiliation Type: Facility Owner
Company Name: NYS URBAN DEV CORP DBA EMPIRE ST DEV CORP
Contact Type: VP
Contact Name: ROBERT SEMMA
Address1: 752 PACIFIC ST C/O AYDC INTERIM DEV, LLC
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11238
Country Code: 001
Phone: (718) 923-8400
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 12/9/2011

Site Id: 15482
Affiliation Type: Mail Contact
Company Name: AYDC INTERIM DEV, LLC
Contact Type: Not reported
Contact Name: SHERVEEN BAFTECHI
Address1: C/O FOREST CITY RATNER COMPANIES
Address2: 1 METROTECH CENTER
City: BROOKLYN
State: NY
Zip Code: 11238
Country Code: 001
Phone: (718) 923-8400
EMail: SBAFTECHI@FCRC.COM
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 12/9/2011

Tank Info:

Tank Number: 009
Tank Id: 25749

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 5000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 11/22/2002
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: #2 Fuel Oil (On-Site Consumption)

Tank Number: 010
Tank Id: 25750
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
I00 - Overfill - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 5000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 11/22/2002
Register: True
Modified By: TRANSLAT

THE TIME RECORD STORAGE CO. (Continued) **U003074632**

Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	011
Tank Id:	25751
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	8500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/22/2002
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

NY MANIFEST:

EPA ID:	NYR000155226
Country:	USA
Mailing Name:	PACIFIC VANDERBILT DEVELOPMENT CO
Mailing Contact:	PACIFIC VANDERBILT DEVELOPEMENT CO
Mailing Address:	1 METROTECH CENTER NORTH
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11201
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-923-8595

NY MANIFEST:

No Manifest Records Available

Z139 SW 1/8-1/4 0.187 mi. 986 ft. | **WARD BREAD BUILDING**
800 PACIFIC ST
BROOKLYN, NY 11238 | **RCRA-LQG** | **1010787576**
NYR000155226

Site 2 of 2 in cluster Z

Relative: Lower

Actual: 72 ft.

RCRA-LQG:

Date form received by agency:	03/03/2008
Facility name:	WARD BREAD BUILDING
Facility address:	800 PACIFIC ST BROOKLYN, NY 112383006
EPA ID:	NYR000155226
Mailing address:	METROTECH CENTER NORTH BROOKLYN, NY 11201
Contact:	EILEEN WEINGARTEN
Contact address:	METROTECH CENTER NORTH BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	(718) 923-8595
Contact email:	EWEINGARTEN@FCRC.COM
EPA Region:	02
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	WARD BREAD BUILDING
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/27/2006
Owner/Op end date:	Not reported
Owner/operator name:	PACIFIC VANDERBILT DEVELOPMENT CO
Owner/operator address:	METROTECH CENTER NORTH BROOKLYN, NY 11201
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	02/27/2006
Owner/Op end date:	Not reported

Handler Activities Summary:

WARD BREAD BUILDING (Continued) **1010787576**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/02/2008
Facility name: WARD BREAD BUILDING
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 05/13/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

AA140 **EDR US Hist Auto Stat** **1015545132**
SSW **538 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.192 mi.
1013 ft. **Site 1 of 4 in cluster AA**

Relative:
Higher

Actual:
81 ft.

EDR Historical Auto Stations:
Name: WORLD CLASS AUTO INNOVATION
Year: 1999
Address: 538 VANDERBILT AVE

Name: WORLD CLASS AUTO INNOVATION
Year: 2000
Address: 538 VANDERBILT AVE

Name: WORLD CLASS AUTO INNOVATION
Year: 2001
Address: 538 VANDERBILT AVE

Name: WORLD CLASS AUTO INNOVATION
Year: 2002
Address: 538 VANDERBILT AVE

(Continued) **1015545132**

Name: WORLD CLASS AUTO INNOVATION
Year: 2003
Address: 538 VANDERBILT AVE

AB141 **RESIDENTS 420 CLINTON AVE** **LTANKS** **S103824098**
NNW **420 CLINTON AVE & GREENE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.192 mi.
1013 ft. **Site 1 of 2 in cluster AB**

Relative:
Higher

Actual:
86 ft.

LTANKS:

Site ID:	183388
Spill Number/Closed Date:	9813604 / 3/5/1999
Spill Date:	2/7/1999
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	2/7/1999
CID:	282
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/7/1999
Spill Record Last Update:	10/23/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN FOR NOW
Spiller Address:	SAME
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	DISPATCHER 327
Spiller Phone:	(718) 965-8300
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	153628
DEC Memo:	Not reported
Remarks:	THEY HAVE A UNDERGROUND TANK THAT IS LEAKING OIL INTO THE SEWER.NYCFIRE DEPT WAS ON THE SCENE.A STEVE SACCACIO WAS NOTIFIED BY DEP ALSO.

Material:

Site ID:	183388
Operable Unit ID:	1071137
Operable Unit:	01
Material ID:	310316
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum

RESIDENTS 420 CLINTON AVE (Continued) **S103824098**

Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AB142 **420 CLINTON AVE** **AST** **A100322471**
NNW **420 CLINTON AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.193 mi.
1018 ft. **Site 2 of 2 in cluster AB**

Relative:
Higher

Actual:
87 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611006
Program Type:	PBS
UTM X:	587254.60172999999
UTM Y:	4504382.2074699998
Expiration Date:	2013/03/26
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	408820
Affiliation Type:	On-Site Operator
Company Name:	420 CLINTON AVE
Contact Type:	Not reported
Contact Name:	JOSE CABRERA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 351-5514
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	8/31/2011

Site Id:	408820
Affiliation Type:	Facility Owner
Company Name:	420 CLINTON LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	250 GREENPOINT AVE - 4TH FL
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 302-0008
EMail:	Not reported
Fax Number:	Not reported

420 CLINTON AVE (Continued) **A100322471**

Modified By:	NRLOMBAR
Date Last Modified:	8/31/2011

Site Id:	408820
Affiliation Type:	Mail Contact
Company Name:	420 CLINTON LLC
Contact Type:	Not reported
Contact Name:	ADAM WESTREICH
Address1:	250 GREENPOINT AVENUE
Address2:	4TH FLOOR
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 302-0008
EMail:	ADAM@TRYADGROUP.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	8/31/2011

Site Id:	408820
Affiliation Type:	Emergency Contact
Company Name:	420 CLINTON LLC
Contact Type:	Not reported
Contact Name:	KATRINA CURANAJ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 753-7207
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	8/31/2011

Tank Info:

Tank Number:	001
Tank Id:	226895
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

420 CLINTON AVE (Continued) **A100322471**

	I05 - Overfill - Vent Whistle
Tank Location:	4
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/01/2008
Register:	True
Modified By:	dxliving
Last Modified:	01/22/2009
Material Name:	#6 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	240716
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

	C03 - Pipe Location - Aboveground/Underground Combination
	E00 - Piping Secondary Containment - None
	H00 - Tank Leak Detection - None
	F00 - Pipe External Protection - None
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	G02 - Tank Secondary Containment - Vault (w/access)
	J02 - Dispenser - Suction Dispenser
	B00 - Tank External Protection - None
	K00 - Spill Prevention - None
	I05 - Overfill - Vent Whistle
	L00 - Piping Leak Detection - None
Tank Location:	4
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/11/2009
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	08/31/2011
Material Name:	#6 Fuel Oil (On-Site Consumption)

143
East
1/8-1/4
0.193 mi.
1018 ft.

1 PUTNAM AVE
BROOKLYN, NY 11238

EDR US Hist Cleaners **1014965645**
N/A

Relative:
Lower

Actual:
69 ft.

EDR Historical Cleaners:

Name:	CLEAN RITE CLEANERS
Year:	2011
Address:	1 PUTNAM AVE
Name:	CLEAN RITE CLEANERS
Year:	2012
Address:	1 PUTNAM AVE

AC144
NNE
1/8-1/4
0.202 mi.
1066 ft.

150 ST. JAMES PLACE
150 ST. JAMES PLACE
BROOKLYN, NY 11238

Site 1 of 2 in cluster AC

AST **A100153984**
N/A

Relative:
Lower

Actual:
71 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-604155
Program Type:	PBS
UTM X:	587545.41362999997
UTM Y:	4504351.68071
Expiration Date:	2014/07/08
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	26036
Affiliation Type:	Facility Owner
Company Name:	ATLA ASSOCIATES, LLC.
Contact Type:	MANAGING AGENT
Contact Name:	Not reported
Address1:	118-35 QUEENS BOULEVARD
Address2:	Not reported
City:	FOREST HILLS
State:	NY
Zip Code:	11375
Country Code:	001
Phone:	(718) 997-9500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/14/2009
Site Id:	26036
Affiliation Type:	Mail Contact
Company Name:	NELSON MGMT. GROUP LTD.
Contact Type:	Not reported
Contact Name:	CHRISTINE CHORNY
Address1:	118-35 QUEENS BOULEVARD
Address2:	14TH FLOOR
City:	FOREST HILLS,
State:	NY
Zip Code:	11375

150 ST. JAMES PLACE (Continued) **A100153984**

Country Code:	001
Phone:	(718) 997-9500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/14/2009

Site Id:	26036
Affiliation Type:	On-Site Operator
Company Name:	150 ST. JAMES PLACE
Contact Type:	Not reported
Contact Name:	JOSE COLON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 997-9500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/14/2009

Site Id:	26036
Affiliation Type:	Emergency Contact
Company Name:	ATLA ASSOCIATES, LLC.
Contact Type:	Not reported
Contact Name:	NATHAN CHOICE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 997-9500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/14/2009

Tank Info:

Tank Number:	001
Tank Id:	56826
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G03 - Tank Secondary Containment - Vault (w/o access)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination

150 ST. JAMES PLACE (Continued) **A100153984**

H00 - Tank Leak Detection - None
I05 - Overfill - Vent Whistle

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/01/1914
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving
Last Modified:	07/14/2009
Material Name:	#2 Fuel Oil (On-Site Consumption)

AA145 **ATLAS AUTO SERVICE LTD.** **AST** **A100293123**
SSW **542-544 VANDERBILT AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.202 mi.
1066 ft. **Site 2 of 4 in cluster AA**

Relative:
Higher

Actual:
82 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608190
Program Type:	PBS
UTM X:	587218.22722999996
UTM Y:	4503806.0358499996
Expiration Date:	2008/01/27
Site Type:	Other

Affiliation Records:

Site Id:	30042
Affiliation Type:	Facility Owner
Company Name:	BLAISE SARNO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3901 FILLMORE AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11234
Country Code:	001
Phone:	(718) 375-1462
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30042
Affiliation Type:	Mail Contact
Company Name:	ATLAS AUTO SERVICE LTD.
Contact Type:	Not reported
Contact Name:	BLAISE SARNO
Address1:	542-544 VANDERBILT AVENUE

ATLAS AUTO SERVICE LTD. (Continued) **A100293123**

Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 638-9234
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30042
Affiliation Type:	On-Site Operator
Company Name:	ATLAS AUTO SERVICE LTD.
Contact Type:	Not reported
Contact Name:	B.G. SARNO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-9234
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30042
Affiliation Type:	Emergency Contact
Company Name:	BLAISE SARNO
Contact Type:	Not reported
Contact Name:	B.G. SARNO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 375-1462
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	67168
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None

ATLAS AUTO SERVICE LTD. (Continued) **A100293123**

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/01/1993
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Waste Oil/Used Oil

Tank Number:	1
Tank Id:	64864
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	11/01/1999
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Waste Oil/Used Oil

AA146 **EDR US Hist Auto Stat** **1015547090**
SSW **542 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.202 mi.
1066 ft. **Site 3 of 4 in cluster AA**

Relative:
Higher

Actual:
82 ft.

EDR Historical Auto Stations:

Name:	ATLAS AUTO SERVICE LTD
Year:	2003
Address:	542 VANDERBILT AVE
Name:	ATLAS AUTO SERVICE LTD
Year:	2004
Address:	542 VANDERBILT AVE

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147 **428 CLERMONT AVE** **LTANKS** **S102672084**
NW **428 CLERMONT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.207 mi.
1092 ft.

Relative:
Higher

Actual:
79 ft.

LTANKS:

Site ID:	221340
Spill Number/Closed Date:	9212121 / 1/25/1993
Spill Date:	1/20/1993
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	1/25/1993
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1/25/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/29/1993
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	BERGEN FUEL CO.
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	183059
DEC Memo:	Not reported
Remarks:	OIL LEAKED TO BASEMENT FLOOR(CONCRETE) W/MINOR CRACKS-NOTIFY APPLIED SPEEDI-DRI MILRO P/U AND DISPOSED AND POWER WASHED

Material:

428 CLERMONT AVE (Continued) **S102672084**

Site ID:	221340
Operable Unit ID:	976681
Operable Unit:	01
Material ID:	401980
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AA148 **EDR US Hist Auto Stat** **1015547798**
SSW **544 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.207 mi.
1093 ft. **Site 4 of 4 in cluster AA**

Relative:
Higher

Actual:
82 ft.

EDR Historical Auto Stations:

Name:	ATLAS AUTO SERVICE LIMITED
Year:	1999
Address:	544 VANDERBILT AVE
Name:	ATLAS AUTO SERVICE LIMITED
Year:	2000
Address:	544 VANDERBILT AVE
Name:	ATLAS AUTO SERVICE LTD
Year:	2001
Address:	544 VANDERBILT AVE
Name:	ATLAS AUTO SERVICE LTD
Year:	2002
Address:	544 VANDERBILT AVE

AD149 **VERIZON NEW YORK INC MANHOLE** **FINDS** **1008228763**
SE **ATLANTIC AVE & ST JAMES PL** **MANIFEST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.209 mi.
1101 ft. **Site 1 of 3 in cluster AD**

Relative:
Higher

Actual:
82 ft.

FINDS:

Registry ID: 110021002788

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

VERIZON NEW YORK INC MANHOLE (Continued) **1008228763**

corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

NY MANIFEST:

EPA ID:	NYP000954784
Country:	USA
Mailing Name:	VERIZON NEW YORK INC MANHOLE
Mailing Contact:	Not reported
Mailing Address:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	Not reported

NY MANIFEST:

No Manifest Records Available

AE150 **415 WASHINGTON AVENUE** **AST** **U003390828**
North **415 WASHINGTON AVE** **HIST AST** **N/A**
1/8-1/4 **BKLYN, NY 11238**
0.209 mi.
1105 ft. **Site 1 of 2 in cluster AE**

Relative:
Lower

Actual:
76 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-329851
Program Type:	PBS
UTM X:	587448.45463000005
UTM Y:	4504393.3767499998
Expiration Date:	2015/01/12
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	15511
Affiliation Type:	On-Site Operator
Company Name:	415 WASHINGTON AVENUE
Contact Type:	Not reported
Contact Name:	LAWRENCE BERNSTEIN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 871-4840
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/29/2010

415 WASHINGTON AVENUE (Continued) **U003390828**

Site Id:	15511
Affiliation Type:	Emergency Contact
Company Name:	ARBERN 415 WASHINGTON,LLC
Contact Type:	Not reported
Contact Name:	BARRY TIMMONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 626-9295
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/29/2010

Site Id:	15511
Affiliation Type:	Facility Owner
Company Name:	ARBERN 415 WASHINGTON, LLC
Contact Type:	MGR
Contact Name:	LAWRENCE BERNSTEIN
Address1:	725 CHURCH AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11218
Country Code:	001
Phone:	(718) 871-4840
EMail:	LBERNSTEIN@JONASEQUITIES.COM
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/29/2010

Site Id:	15511
Affiliation Type:	Mail Contact
Company Name:	ARBERN 415 WASHINGTON, LLC
Contact Type:	MGR
Contact Name:	LAWRENCE BERNSTEIN
Address1:	725 CHURCH AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11218
Country Code:	001
Phone:	(718) 871-4840
EMail:	LBERNSTEIN@JONASEQUITIES.COM
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/29/2010

Tank Info:

Tank Number:	001
Tank Id:	20191
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

415 WASHINGTON AVENUE (Continued) **U003390828**

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1950
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	01/15/2010
Material Name:	#2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-329851
SWIS Code:	6101
Operator:	KENNETH FISHEL
Facility Phone:	(212) 477-3165
Facility Addr2:	415 WASHINGTON AVE
Facility Type:	APARTMENT BUILDING
Emergency:	KENNETH FISHEL
Emergency Tel:	(212) 477-3164
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	KENNETH FISHEL
Owner Address:	627 BROADWAY
Owner City,St,Zip:	NEW YORK, NY 10012
Federal ID:	Not reported
Owner Tel:	(212) 477-3164
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Contact:	KENNETH FISHEL
Mailing Name:	KENNETH LAWRENCE COMPANY
Mailing Address:	627 BROADWAY
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10012
Mailing Telephone:	(212) 477-3164
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.

415 WASHINGTON AVENUE (Continued) **U003390828**

Certification Flag:	False
Certification Date:	07/25/1997
Expiration:	08/28/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

AF151 **410 CLINTON LLC** **AST** **A100292330**
NNW **410 CLINTON AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.212 mi.
1119 ft. **Site 1 of 3 in cluster AF**

Relative:
Higher

Actual:
88 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608754
Program Type:	PBS
UTM X:	587249.72141
UTM Y:	4504413.0268900003

410 CLINTON LLC (Continued) **A100292330**

Expiration Date: 2018/04/02
Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 30605
Affiliation Type: Facility Owner
Company Name: 410 CLINTON LLC
Contact Type: MANAGING AGENT
Contact Name: JOSE PEREZ
Address1: 57 FIFTH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001
Phone: (718) 857-1260
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 3/20/2013

Site Id: 30605
Affiliation Type: Mail Contact
Company Name: 410 CLINTON LLC
Contact Type: Not reported
Contact Name: JOSE PEREZ
Address1: 57 FIFTH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001
Phone: (718) 852-0635
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30605
Affiliation Type: On-Site Operator
Company Name: 410 CLINTON LLC
Contact Type: Not reported
Contact Name: JOSE PEREZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 857-1260
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30605
Affiliation Type: Emergency Contact
Company Name: 410 CLINTON LLC

410 CLINTON LLC (Continued) **A100292330**

Contact Type:	Not reported
Contact Name:	JOSE PEREZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 857-1260
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	65602
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	F00 - Pipe External Protection - None
	B00 - Tank External Protection - None
	C01 - Pipe Location - Aboveground
	E00 - Piping Secondary Containment - None
	H00 - Tank Leak Detection - None
	L00 - Piping Leak Detection - None
	D00 - Pipe Type - No Piping
	G00 - Tank Secondary Containment - None
	I05 - Overfill - Vent Whistle
	A00 - Tank Internal Protection - None
	J01 - Dispenser - Pressurized Dispenser
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/27/2005
Capacity Gallons:	1101
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	08/23/2011
Material Name:	#2 Fuel Oil (On-Site Consumption)

AC152 NNE 1/8-1/4 0.216 mi. 1140 ft. | **SPILL NUMBER 0401949**
140 ST JAMES PLACE
BROOKLYN, NY | **LTANKS** | **S106471728**
N/A

Site 2 of 2 in cluster AC

Relative: Lower

Actual: 71 ft.

LTANKS:

Site ID:	205850
Spill Number/Closed Date:	0401949 / 7/7/2004
Spill Date:	5/21/2004
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	CESAWYER
Referred To:	Not reported
Reported to Dept:	5/21/2004
CID:	403
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/21/2004
Spill Record Last Update:	7/7/2004
Spiller Name:	CHIEF MCFHEENEN
Spiller Company:	Not reported
Spiller Address:	140 ST JAMES PLACE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	CHIEF MCFHEENEN
Spiller Phone:	(718) 965-8331
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	170928
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"Sangesland spoke to Fire Chief at the site.He said the tank leaked in the basement. Spilled to a dirt floor and ran into a sump. Sangesland spoke to Charlie at NZ FuelOil 718 389-4249.He said that the tank sprang a leak on 5/20. NZ Fuel installed a magnet patch on the tank. ABC Tank was brought in on 5/21 to drain the tank. A new tank will be installed next week.Property Owner is George Baker 718 230 00987/7/04 - Sawyer - Inspected residence 5/21/04 and required NZ to do more work. NZ contracted ABC tank to pump out, clean tank and area around the tank as well as sent the Department documentation. No further Action required. Closed.
Remarks:	leak in the oil tank. the oil company is on location.

Material:

Site ID:	205850
Operable Unit ID:	883796
Operable Unit:	01
Material ID:	571275
Material Code:	0001A
Material Name:	#2 Fuel Oil

SPILL NUMBER 0401949 (Continued) **S106471728**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AF153 **410 CLINTON AVE/BKLYN** **LTANKS** **S102140923**
NNW **410 CLINTON AVENUE** **NY Spills** **N/A**
1/8-1/4 **NEW YORK CITY, NY**
0.216 mi.
1143 ft. **Site 2 of 3 in cluster AF**

Relative:
Higher

Actual:
88 ft.

LTANKS:

Site ID:	262029
Spill Number/Closed Date:	9012611 / 1/12/2004
Spill Date:	3/8/1991
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	3/8/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/8/1991
Spill Record Last Update:	1/12/2004
Spiller Name:	Not reported
Spiller Company:	MARIAN CRESTO
Spiller Address:	66-17 MYRTLE AVE
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	213982
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"1/12/04 - AUSTIN - VAGUE SPILL REPORT FROM 13YRS. AGO - CLOSED - ORIG. ASSIGNED TO FINGER - END
Remarks:	POSSIBLE LEAK & FUMES, FACILITY INSPECTION

Material:

Site ID:	262029

410 CLINTON AVE/BKLYN (Continued) **S102140923**

Operable Unit ID:	952370
Operable Unit:	01
Material ID:	429081
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	9100536
DER Facility ID:	159382
Facility Type:	ER
Site ID:	191085
DEC Region:	2
Spill Date:	4/14/1991
Spill Number/Closed Date:	9100536 / 6/7/1995
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	FINGER
Referred To:	Not reported
Reported to Dept:	4/14/1991
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Affected Persons
Cleanup Ceased:	6/7/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/16/1991
Spill Record Last Update:	6/7/1995
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	TENANT HAS NO HEAT IN APARTMENT.

Material:

Site ID:	191085
Operable Unit ID:	954068
Operable Unit:	01

410 CLINTON AVE/BKLYN (Continued) **S102140923**

Material ID:	426726
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AG154 **ST JOSEPH'S SRO RESIDENCE** **UST** **U000408923**
SSW **683 DEAN STREET** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.219 mi.
1158 ft. **Site 1 of 3 in cluster AG**

Relative:
Higher

Actual:
86 ft.

UST:

Id/Status:	2-347779 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	587281.66882999998
UTM Y:	4503732.3118099999
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	17055
Affiliation Type:	Facility Owner
Company Name:	CARING COMMUNITIES HDFC, INC.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	191 JORALEMON STREET, 8TH FLOOR
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 722-6030
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	17055
Affiliation Type:	Mail Contact
Company Name:	CARING COMMUNITIES HDFC, INC.
Contact Type:	Not reported
Contact Name:	GEORGE STATHOUDAKIS
Address1:	191 JORALEMON STREET
Address2:	8TH FLOOR
City:	BROOKLYN
State:	NY
Zip Code:	11201

ST JOSEPH'S SRO RESIDENCE (Continued) **U000408923**

Country Code:	001
Phone:	(718) 722-6030
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	17055
Affiliation Type:	On-Site Operator
Company Name:	ST JOSEPHS SRO RESIDENCE
Contact Type:	Not reported
Contact Name:	PATRICIA DAWSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 857-2266
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	17055
Affiliation Type:	Emergency Contact
Company Name:	CARING COMMUNITIES HDFC, INC.
Contact Type:	Not reported
Contact Name:	MAUREEN MCKEARN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 219-2777
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	33196
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	5000
Install Date:	Not reported
Date Tank Closed:	07/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	03

ST JOSEPH'S SRO RESIDENCE (Continued) **U000408923**

Date Test:	10/01/1998
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None

HIST UST:

PBS Number:	2-347779
SPDES Number:	Not reported
Emergency Contact:	CHARLES GANLEY
Emergency Telephone:	(917) 866-4480
Operator:	CARLOS GARCIA
Operator Telephone:	(718) 857-2266
Owner Name:	CARING COMMUNITIES HDFC, INC.
Owner Address:	191 JORELEMON STREET
Owner City,St,Zip:	BROOKLYN, NY 11201
Owner Telephone:	(718) 722-6000
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	CARING COMMUNITIES HDFC, INC.
Mailing Address:	157 GRAHAM AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11206
Mailing Contact:	Not reported
Mailing Telephone:	(718) 963-3957
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	APARTMENT BUILDING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	12/21/1998
Expiration Date:	04/19/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	5000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data

ST JOSEPH'S SRO RESIDENCE (Continued) **U000408923**

Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Gravity
Date Tested:	10/01/1998
Next Test Date:	10/01/2003
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

AG155 **ST JOSEPH'S SRO** **LTANKS** **S105997561**
SSW **683 DEAN ST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.219 mi.
1158 ft. **Site 2 of 3 in cluster AG**

Relative:
Higher

Actual:
86 ft.

LTANKS:

Site ID:	247771
Spill Number/Closed Date:	0209294 / 12/8/2003
Spill Date:	12/10/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	12/10/2002
CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

ST JOSEPH'S SRO (Continued) **S105997561**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/10/2002
Spill Record Last Update:	12/8/2003
Spiller Name:	JOANN ESPOSITO
Spiller Company:	ST JOSEPH'S SRO
Spiller Address:	683 DEAN ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	JOANN ESPOSITO
Spiller Phone:	(917) 766-9600
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	203455
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"7/17/2003 Petroleum Tank Cleaners tested soil from under the tank bottom. 8021 & 8270 were all below TAGM Guidance Limits.Tank will be filled with cement and closed in place.Spill Closed
Remarks:	Not reported

Material:

Site ID:	247771
Operable Unit ID:	862465
Operable Unit:	01
Material ID:	516269
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	247771
Spill Tank Test:	1527805
Tank Number:	1
Tank Size:	5000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

AH156 SSW 1/8-1/4 0.223 mi. 1180 ft. | **NYNEX VANDERBILT AVE & DEAN ST BROOKLYN, NY** | **MANIFEST** | **1009234291 N/A**

Site 1 of 6 in cluster AH

Relative: Higher

Actual: 84 ft.

NY MANIFEST:

EPA ID:	NYP000927913
Country:	USA
Mailing Name:	NYNEX
Mailing Contact:	S BISWAS
Mailing Address:	221 EAST 37TH STREET
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10016
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-338-7126

Document ID:	MIA4089634
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	960820
Trans1 Recv Date:	960820
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960910
Part A Recv Date:	Not reported
Part B Recv Date:	961009
Generator EPA ID:	NYP000927913
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	02000
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96

AH157 SSW 1/8-1/4 0.223 mi. 1180 ft. | **CON EDISON MANHOLE 69589 VANDERBILT AVE & DEAN ST BROOKLYN, NY 11238** | **RCRA NonGen / NLR MANIFEST** | **1010327592 NYP004147435**

Site 2 of 6 in cluster AH

Relative: Higher

Actual: 84 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/11/2007
Facility name:	CON EDISON MANHOLE 69589
Facility address:	VANDERBILT AVE & DEAN ST BROOKLYN, NY 11238
EPA ID:	NYP004147435
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	STEVEN MARTIS
Contact address:	4 IRVING PL, RM 828

CON EDISON MANHOLE 69589 (Continued) **1010327592**

NEW YORK, NY 10003
Contact country: US
Contact telephone: (212) 580-8383
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/10/2007
Facility name: CON EDISON MANHOLE 69589
Site name: CON EDISON
Classification: Not a generator, verified

Date form received by agency: 04/09/2007
Facility name: CON EDISON MANHOLE 69589
Site name: CON EDISON
Classification: Unverified

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004147435
Country: USA
Mailing Name: COSOLIDATED EDISON
Mailing Contact: WOO DONG KIM
Mailing Address: 31-01 20 TH AVE
Mailing Address 2: Not reported
Mailing City: LONG ISLAND CITY
Mailing State: NY
Mailing Zip: 11105
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-204-4090

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported

CON EDISON MANHOLE 69589 (Continued) **1010327592**

Generator Ship Date:	1/9/2007
Trans1 Recv Date:	1/9/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	1/11/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004147435
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	100
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001436229FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2007-01-09
Trans1 Recv Date:	2007-01-09
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-01-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004147435
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	100.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2007
Manifest Tracking Num:	001436229FLE
Import Ind:	N
Export Ind:	N

CON EDISON MANHOLE 69589 (Continued) **1010327592**

Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AH158
SSW
1/8-1/4
0.223 mi.
1180 ft.

CON EDISON MANHOLE 69598 **RCRA NonGen / NLR** **1010327668**
VANDERBILT AVE & DEAN ST **MANIFEST** **NYP004148086**
BROOKLYN, NY 11238

Site 3 of 6 in cluster AH

Relative:
Higher

Actual:
84 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/11/2007
Facility name:	CON EDISON MANHOLE 69598
Facility address:	VANDERBILT AVE & DEAN ST BROOKLYN, NY 11238
EPA ID:	NYP004148086
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	ANTONIO DELGADO
Contact address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(718) 204-4201
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	04/10/2007
Facility name:	CON EDISON MANHOLE 69598
Site name:	CON EDISON
Classification:	Not a generator, verified

CON EDISON MANHOLE 69598 (Continued) **1010327668**

Date form received by agency: 04/09/2007
Facility name: CON EDISON MANHOLE 69598
Site name: CON EDISON
Classification: Unverified

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004148086
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 2/9/2007
Trans1 Recv Date: 2/9/2007
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2/12/2007
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004148086
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 50
Units: K - Kilograms (2.2 pounds)
Number of Containers: 1
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 1
Year: 2007
Manifest Tracking Num: 001450458FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

CON EDISON MANHOLE 69598 (Continued) **1010327668**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2007-02-09
Trans1 Recv Date:	2007-02-09
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-02-12
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004148086
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	50.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2007
Manifest Tracking Num:	001450458FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AH159
SSW
1/8-1/4
0.224 mi.
1181 ft.

CONSOLIDATED EDISON
DEAN & VANDERBILT
BROOKLYN, NY

Site 4 of 6 in cluster AH

Relative:
Higher

Actual:
84 ft.

MANIFEST **1009243198**
N/A

NY MANIFEST:

EPA ID:	NYP004125639
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYE0655515
Manifest Status:	Not reported

CONSOLIDATED EDISON (Continued) **1009243198**

Trans1 State ID:	46233JM
Trans2 State ID:	Not reported
Generator Ship Date:	10/13/2004
Trans1 Recv Date:	10/13/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/14/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004125639
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00100
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2004

AG160 **A & J FRENCH CLEANERS** **DRYCLEANERS** **S110245805**
SSW **585 VANDERBILT AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.225 mi.
1188 ft. **Site 3 of 3 in cluster AG**

Relative:
Higher

Actual:
84 ft.

DRYCLEANERS:

Facility ID:	2-6103-00434
Phone Number:	NOT LISTED
Region:	Not reported
Registration Effective Date:	N/A
Inspection Date:	11/18/03
Install Date:	Not reported
Drop Shop:	Not reported
Shutdown:	Y
Alternate Solvent:	Not reported
Current Business:	Not reported

AE161 **BNS BUILDINGS LLC** **AST** **U004078503**
North **407-409 WASHINGTON AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.226 mi.
1192 ft. **Site 2 of 2 in cluster AE**

Relative:
Lower

Actual:
76 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609368
Program Type:	PBS
UTM X:	587416.46455999999
UTM Y:	4504506.4696899997
Expiration Date:	2013/11/25
Site Type:	Apartment Building/Office Building

BNS BUILDINGS LLC (Continued) **U004078503**

Affiliation Records:

Site Id:	31212
Affiliation Type:	Mail Contact
Company Name:	ALMA REALTY CORP.
Contact Type:	Not reported
Contact Name:	ANGELO ZOUMAS
Address1:	31-10 37TH AVENUE
Address2:	SUITE 500
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 267-0300
EMail:	NCONWAY@ALMAREALTY.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/7/2008

Site Id:	31212
Affiliation Type:	Facility Owner
Company Name:	BNS BUILDINGS LLC
Contact Type:	MANAGING AGENT
Contact Name:	NICK CONWAY
Address1:	31-10 37TH AVE
Address2:	Not reported
City:	ASTORIA
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 267-0300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/6/2011

Site Id:	31212
Affiliation Type:	On-Site Operator
Company Name:	BNS BUILDINGS LLC
Contact Type:	Not reported
Contact Name:	ALMA REALTY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 267-0300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	31212
Affiliation Type:	Emergency Contact
Company Name:	BNS BUILDINGS LLC
Contact Type:	Not reported
Contact Name:	MARIJAN VERDEDAJ

BNS BUILDINGS LLC (Continued) **U004078503**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 996-5398
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/12/2008

Tank Info:

Tank Number:	001
Tank Id:	67244
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
B05 - Tank External Protection - Jacketed
F99 - Pipe External Protection - Other
G99 - Tank Secondary Containment - Other

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/29/2007
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	09/12/2008
Material Name:	#2 Fuel Oil (On-Site Consumption)

AI162 **CON EDISON** **MANIFEST** **S113814791**
East **444 GRAND AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.228 mi.
1202 ft. **Site 1 of 2 in cluster AI**

Relative:
Lower

Actual:
70 ft.

NY MANIFEST:

EPA ID:	NYP004311403
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR

CON EDISON (Continued) **S113814791**

Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	13-May-2013 00:00:00
Trans1 Recv Date:	13-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	13-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004311403
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	200
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002018041GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AJ163 **EDR US Hist Cleaners** **1015039851**
ESE **31 LEFFERTS PL** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.229 mi.
1210 ft. **Site 1 of 2 in cluster AJ**

Relative:
Lower

Actual:
77 ft.

EDR Historical Cleaners:

Name:	S & B CLEANING SERVICES
Year:	2004
Address:	31 LEFFERTS PL

164 NNE 1/8-1/4 0.229 mi. 1211 ft. | **CON EDISON**
111 ST JAMES PL
BROOKLYN, NY 11238 | **MANIFEST** | **S113815153**
N/A

Relative: Lower

Actual: 71 ft.

NY MANIFEST:

EPA ID:	NYP004315206
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	21-May-2013 00:00:00
Trans1 Recv Date:	21-May-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	22-May-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004315206
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002018193GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AF165 **400 CLINTON AVENUE** **AST** **A100292309**
NNW **400 CLINTON AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.231 mi.
1220 ft. **Site 3 of 3 in cluster AF**

Relative:
Higher

Actual:
89 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-610016
Program Type:	PBS
UTM X:	587244.8075
UTM Y:	4504442.8339299997
Expiration Date:	2018/10/10
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	352927
Affiliation Type:	Mail Contact
Company Name:	GC CLINTON LLC
Contact Type:	Not reported
Contact Name:	PROSPECT MGMT
Address1:	199 LEE AVE #162
Address2:	199 LEE AVE #162
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 302-8383
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/16/2013

Site Id:	352927
Affiliation Type:	On-Site Operator
Company Name:	400 CLINTON AVENUE
Contact Type:	Not reported
Contact Name:	LESLIE ROBINSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 773-6951
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/16/2013

Site Id:	352927
Affiliation Type:	Emergency Contact
Company Name:	PETER BURGESS REALTY CORP
Contact Type:	Not reported
Contact Name:	PETER BURGESS
Address1:	Not reported
Address2:	Not reported
City:	Not reported

400 CLINTON AVENUE (Continued) **A100292309**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 875-4050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	9/22/2005

Site Id:	352927
Affiliation Type:	Facility Owner
Company Name:	GC CLINTON LLC
Contact Type:	AGENT
Contact Name:	MOSES BERKOWITZ
Address1:	199 LEE AVENUE #162
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 302-8383
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/16/2013

Tank Info:

Tank Number:	001
Tank Id:	208110
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
B99 - Tank External Protection - Other
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
K00 - Spill Prevention - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/01/1979
Capacity Gallons:	3500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

400 CLINTON AVENUE (Continued) **A100292309**

Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/16/2013
Material Name:	#2 Fuel Oil (On-Site Consumption)

AH166 **EDR US Hist Auto Stat** **1015562397**
SSW **587 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.231 mi.
1221 ft. **Site 5 of 6 in cluster AH**

Relative:
Higher

Actual:
85 ft.

EDR Historical Auto Stations:

Name:	EVELYN CAR SERVICE INC
Year:	2009
Address:	587 VANDERBILT AVE
Name:	EVELYN CAR SVCE
Year:	2011
Address:	587 VANDERBILT AVE
Name:	EVELYN CAR SVCE
Year:	2012
Address:	587 VANDERBILT AVE

AD167 **CON EDISON - MANHOLE 14828** **RCRA-LQG** **1014396115**
SE **960 ATLANTIC AVENUE** **NYP004182952**
1/8-1/4 **BROOKLYN, NY 11238**
0.233 mi.
1232 ft. **Site 2 of 3 in cluster AD**

Relative:
Higher

Actual:
83 ft.

RCRA-LQG:

Date form received by agency:	03/23/2010
Facility name:	CON EDISON - MANHOLE 14828
Facility address:	960 ATLANTIC AVENUE BROOKLYN, NY 11238
EPA ID:	NYP004182952
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	FRANKLYN MURRAY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-2808
Contact email:	MURRAYFR@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

CON EDISON - MANHOLE 14828 (Continued) **1014396115**

hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/13/2009
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/13/2009
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/13/2009
Facility name:	CON EDISON - MANHOLE 14828
Site name:	CON EDISON
Classification:	Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Violation Status: No violations found

AD168 **CONSOLIDATED EDISON MH14828** **MANIFEST** **S110046848**
SE **960 ATLANTIC AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.233 mi.
1232 ft. **Site 3 of 3 in cluster AD**

Relative:
Higher

Actual:
83 ft.

NY MANIFEST:

EPA ID:	NYP004182952
Country:	USA
Mailing Name:	CONSOLIDATED EDISON MH14828
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PL RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-24
Trans1 Recv Date:	2009-07-24
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-30
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004182952
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894209GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported

CONSOLIDATED EDISON MH14828 (Continued) **S110046848**

Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-24
Trans1 Recv Date:	2009-07-24
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-30
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004182952
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894209GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AI169 **GRAND AVENUE REALTY** **AST** **A100153972**
East **435 GRAND AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.234 mi.
1237 ft. **Site 2 of 2 in cluster AI**

Relative:
Lower

Actual:
70 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-601892
Program Type:	PBS
UTM X:	587769.25323000003
UTM Y:	4504043.8306200001
Expiration Date:	2009/09/01
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	23854
Affiliation Type:	Facility Owner
Company Name:	GRAND AVENUE REALTY LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	161 SUFFOLK STREET
Address2:	Not reported

GRAND AVENUE REALTY (Continued) **A100153972**

City:	NEW YORK
State:	NY
Zip Code:	10002
Country Code:	001
Phone:	(212) 228-4336
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23854
Affiliation Type:	Mail Contact
Company Name:	GRAND AVENUE REALTY LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	161 SUFFOLK ST
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10002
Country Code:	001
Phone:	(212) 228-4336
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23854
Affiliation Type:	On-Site Operator
Company Name:	GRAND AVENUE REALTY
Contact Type:	Not reported
Contact Name:	JOSE ANDRICKSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 230-1656
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	8/31/2004

Site Id:	23854
Affiliation Type:	Emergency Contact
Company Name:	GRAND AVENUE REALTY LLC
Contact Type:	Not reported
Contact Name:	HECTOR JIMENEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 228-4336
EMail:	Not reported

GRAND AVENUE REALTY (Continued) **A100153972**

Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	9/8/2004

Tank Info:

Tank Number:	001
Tank Id:	48226
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	F00 - Pipe External Protection - None
	I04 - Overfill - Product Level Gauge (A/G)
	B00 - Tank External Protection - None
	I05 - Overfill - Vent Whistle
	C03 - Pipe Location - Aboveground/Underground Combination
	H00 - Tank Leak Detection - None
	G03 - Tank Secondary Containment - Vault (w/o access)
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

170
SW
1/8-1/4
0.235 mi.
1243 ft.

CONTINENTAL LATEX CORP **RCRA NonGen / NLR** **1000412460**
645 DEAN ST **FINDS** **NYD982270209**
BROOKLYN, NY 11238

Relative:
Higher

Actual:
80 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	CONTINENTAL LATEX CORP
Facility address:	645 DEAN ST BROOKLYN, NY 11238
EPA ID:	NYD982270209
Mailing address:	DEAN ST BROOKLYN, NY 11238
Contact:	Not reported
Contact address:	DEAN ST BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02

CONTINENTAL LATEX CORP (Continued) **1000412460**

Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: CONTINENTAL LATEX CORP
Classification: Not a generator, verified

Date form received by agency: 12/31/1979
Facility name: CONTINENTAL LATEX CORP
Classification: Unverified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 05/19/1987

CONTINENTAL LATEX CORP (Continued) **1000412460**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004417177

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AK171 **EDR US Hist Auto Stat** **1015669252**
SSE **904 PACIFIC ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.236 mi.
1244 ft. **Site 1 of 2 in cluster AK**

Relative:
Higher

Actual:
88 ft.

EDR Historical Auto Stations:

Name: PACIFIC AUTO CLINIC
Year: 1999
Address: 904 PACIFIC ST

Name: SWEDISH UNDERGROUND AUTO REPAIRS
Year: 2000
Address: 904 PACIFIC ST

Name: SWEDISH UNDERGROUND AUTO RPR
Year: 2001
Address: 904 PACIFIC ST

Name: PACIFIC AUTO CLINIC
Year: 2002
Address: 904 PACIFIC ST

Name: PACIFIC AUTO CLINIC
Year: 2003
Address: 904 PACIFIC ST

Name: SWEDISH UNDERGROUND AUTO REPAIRS
Year: 2005
Address: 904 PACIFIC ST

Name: SWEDISH UNDERGROUND AUTO REPAIRS
Year: 2006
Address: 904 PACIFIC ST

Name: PACIFIC AUTO CLINIC
Year: 2010
Address: 904 PACIFIC ST

Name: PACIFIC AUTO CLINIC

(Continued) **1015669252**

Year: 2011
Address: 904 PACIFIC ST

Name: PACIFIC AUTO REPAIR
Year: 2012
Address: 904 PACIFIC ST

AH172 **EDR US Hist Cleaners** **1015075285**
SSW **558 VANDERBILT AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.240 mi.
1269 ft. **Site 6 of 6 in cluster AH**

Relative:
Higher

Actual:
85 ft.

EDR Historical Cleaners:

Name: M & M LAUNDROMAT
Year: 1999
Address: 558 VANDERBILT AVE

Name: M & M LAUNDROMAT
Year: 2000
Address: 558 VANDERBILT AVE

Name: M & M LAUNDROMAT
Year: 2001
Address: 558 VANDERBILT AVE

Name: CABE CLEANING & LAUNDROMAT
Year: 2001
Address: 558 VANDERBILT AVE

Name: 168 CLEANING & LAUNDROMAT INC
Year: 2002
Address: 558 VANDERBILT AVE

Name: CABE CLEANING & LAUNDROMAT
Year: 2002
Address: 558 VANDERBILT AVE

Name: 168 CLEANING & LAUNDROMAT
Year: 2003
Address: 558 VANDERBILT AVE

Name: 168 CLEANING & LAUNDROMAT
Year: 2004
Address: 558 VANDERBILT AVE

Name: 168 CLEANING & LAUNDROMAT
Year: 2009
Address: 558 VANDERBILT AVE

Name: 168 CLEANING & LAUNDROMAT
Year: 2010
Address: 558 VANDERBILT AVE

Name: 168 CLEANING & LAUNDROMAT
Year: 2011
Address: 558 VANDERBILT AVE

(Continued) **1015075285**

Name: 168 CLEANING & LAUNDROMAT
Year: 2012
Address: 558 VANDERBILT AVE

AL173
ESE
1/8-1/4
0.241 mi.
1271 ft.

CON ED - M/H 2968
FULTON ST & GRAND AVE
BROOKLYN, NY 11271

RCRA NonGen / NLR **1007206292**
MANIFEST **NYP004007332**

Site 1 of 3 in cluster AL

Relative:
Lower

Actual:
70 ft.

RCRA NonGen / NLR:
Date form received by agency: 02/28/1998
Facility name: CON ED - M/H 2968
Facility address: FULTON ST & GRAND AVE
BROOKLYN, NY 112710000
EPA ID: NYP004007332
Mailing address: CONSOLIDATED EDISON INC
4 IRVING PL RM 300
NEW YORK, NY 100030000
Contact: ANTHONY DRUMMINGS
Contact address: CONSOLIDATED EDISON INC
NEW YORK, NY 100030000
Contact country: US
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/27/1998
Facility name: CON ED - M/H 2968
Classification: Not a generator, verified

Date form received by agency: 02/26/1998
Facility name: CON ED - M/H 2968
Classification: Large Quantity Generator

Violation Status: No violations found

CON ED - M/H 2968 (Continued) **1007206292**

NY MANIFEST:

EPA ID:	NYP004007332
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYG0250875
Manifest Status:	Completed copy
Trans1 State ID:	80416AB
Trans2 State ID:	Not reported
Generator Ship Date:	970522
Trans1 Recv Date:	970522
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970523
Part A Recv Date:	970606
Part B Recv Date:	970609
Generator EPA ID:	NYP004007332
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	04357
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	97

Document ID:	NYG0251109
Manifest Status:	Completed copy
Trans1 State ID:	80336AB
Trans2 State ID:	Not reported
Generator Ship Date:	970522
Trans1 Recv Date:	970522
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970523
Part A Recv Date:	970609
Part B Recv Date:	970612
Generator EPA ID:	NYP004007332
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00001
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	002

CON ED - M/H 2968 (Continued) **1007206292**

Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	97

Document ID:	NYG0094527
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	80680AE
Trans2 State ID:	Not reported
Generator Ship Date:	970525
Trans1 Recv Date:	970525
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970527
Part A Recv Date:	970606
Part B Recv Date:	970715
Generator EPA ID:	NYP004007332
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00001
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	97

AL174 **CON ED - V 2968** **RCRA NonGen / NLR** **1007206070**
ESE **GRAND ST & FULTON ST** **NYP004002986**
1/8-1/4 **BROOKLYN, NY 11238**
0.241 mi.
1271 ft. **Site 2 of 3 in cluster AL**

Relative:
Lower

Actual:
70 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/28/1998
Facility name:	CON ED - V 2968
Facility address:	GRAND ST & FULTON ST BROOKLYN, NY 112380000
EPA ID:	NYP004002986
Mailing address:	CONSOLIDATED EDISON INC 4 IRVING PL RM 300 NEW YORK, NY 100030000
Contact:	ANTHONY DRUMMINGS
Contact address:	CONSOLIDATED EDISON INC NEW YORK, NY 100030000
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

CON ED - V 2968 (Continued) **1007206070**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/27/1998
Facility name: CON ED - V 2968
Classification: Not a generator, verified

Date form received by agency: 02/26/1998
Facility name: CON ED - V 2968
Classification: Large Quantity Generator

Violation Status: No violations found

AL175 ESE 1/8-1/4 0.241 mi. 1271 ft. | **CON ED MH 2968** | **RCRA NonGen / NLR** | **1007206188**
GRAND ST & FULTON ST | **MANIFEST** | **NYP004005260**
BROOKLYN, NY 11238

Site 3 of 3 in cluster AL

Relative: Lower

Actual: 70 ft.

RCRA NonGen / NLR:
Date form received by agency: 02/28/1998
Facility name: CON ED MH 2968
Facility address: GRAND ST & FULTON ST
BROOKLYN, NY 112380000
EPA ID: NYP004005260
Mailing address: CONSOLIDATED EDISON INC
4 IRVING PL ROOM 300
NEW YORK, NY 100030000
Contact: ANTHONY DRUMMINGS
Contact address: CONSOLIDATED EDISON INC
NEW YORK, NY 100030000
Contact country: US
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No

CON ED MH 2968 (Continued) **1007206188**

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/27/1998
Facility name: CON ED MH 2968
Classification: Not a generator, verified

Date form received by agency: 02/26/1998
Facility name: CON ED MH 2968
Classification: Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004005260
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: NYB8467992
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 80680AE
Trans2 State ID: Not reported
Generator Ship Date: 970218
Trans1 Recv Date: 970218
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970219
Part A Recv Date: 970306
Part B Recv Date: 970331
Generator EPA ID: NYP004005260
Trans1 EPA ID: NYD006982359
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00001
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 97

AM176 **EDR US Hist Cleaners** **1015047417**
North **349 WAVERLY AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.241 mi.
1274 ft. **Site 1 of 7 in cluster AM**

Relative:
Higher

Actual:
84 ft.

EDR Historical Cleaners:

Name:	BROTHERS CLEANERS
Year:	2001
Address:	349 WAVERLY AVE
Name:	BROTHERS CLEANERS
Year:	2002
Address:	349 WAVERLY AVE
Name:	BROTHERS CLEANERS
Year:	2005
Address:	349 WAVERLY AVE
Name:	BROTHERS CLEANERS
Year:	2006
Address:	349 WAVERLY AVE
Name:	BROTHERS CLEANERS
Year:	2007
Address:	349 WAVERLY AVE
Name:	BROTHERS CLEANERS
Year:	2008
Address:	349 WAVERLY AVE
Name:	BROTHERS CLEANERS
Year:	2010
Address:	349 WAVERLY AVE

AM177 **BROTHERS CLEANERS** **RCRA NonGen / NLR** **1004756744**
North **349 WAVERLY AVE** **US AIRS** **NYD981559180**
1/8-1/4 **BROOKLYN, NY 11238**
0.241 mi.
1274 ft. **Site 2 of 7 in cluster AM**

Relative:
Higher

Actual:
84 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	BROTHERS CLEANERS
Facility address:	351 WAVERLY AVE BROOKLYN, NY 11238
EPA ID:	NYD981559180
Mailing address:	WAVERLY AVE BROOKLYN, NY 11238
Contact:	JIN KIM
Contact address:	WAVERLY AVE BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	(718) 789-9737
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

BROTHERS CLEANERS (Continued) **1004756744**

Owner/Operator Summary:

Owner/operator name:	JIN HONG KIM
Owner/operator address:	351 WAVERLY AVE BROOKLYN, NY 11238
Owner/operator country:	US
Owner/operator telephone:	(718) 789-9737
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JIN HONG KIM
Owner/operator address:	351 WAVERLY AVE BROOKLYN, NY 11238
Owner/operator country:	US
Owner/operator telephone:	(718) 789-9737
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	BROTHERS CLEANERS
Classification:	Not a generator, verified

Date form received by agency:	03/23/1992
Facility name:	BROTHERS CLEANERS
Classification:	Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

AIRS (AFS):

Compliance and Violation Data Major Sources:

EPA plant ID:	110004434942
Plant name:	BROTHERS CLEANERS
Plant address:	349 WAVERLY AVE BROOKLYN, NY 112381103
County:	KINGS

BROTHERS CLEANERS (Continued) **1004756744**

Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	7216
Sic code desc:	DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf:	812320
NAIC code description:	Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE REGULATIONS OR LIMITATIONS.
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	STATE CONDUCTED PCE/ ON-SITE
Date achieved:	001004
Penalty amount:	000000000
Air program:	MACT (SECTION 63 NESHAPS)
National action type:	STATE CONDUCTED PCE/ ON-SITE
Date achieved:	001004
Penalty amount:	000000000
Air program:	SIP SOURCE
National action type:	NXXXXX
Date achieved:	010523
Penalty amount:	000000000
Air program:	MACT (SECTION 63 NESHAPS)
National action type:	NXXXXX
Date achieved:	010523
Penalty amount:	000000000
Air program:	SIP SOURCE
National action type:	PCE/OFF-SITE
Date achieved:	011004
Penalty amount:	000000000
Air program:	MACT (SECTION 63 NESHAPS)
National action type:	PCE/OFF-SITE
Date achieved:	011004
Penalty amount:	000000000
Air program:	MACT (SECTION 63 NESHAPS)
National action type:	NOTIFICATION RECEIVED
Date achieved:	011005
Penalty amount:	000000000
Air program:	MACT (SECTION 63 NESHAPS)
National action type:	NXXXXX
Date achieved:	050428
Penalty amount:	Not reported

BROTHERS CLEANERS (Continued) **1004756744**

Historical Compliance Minor Sources:

State compliance status: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE
Hist compliance date: 1002
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE
Hist compliance date: 1003
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

BROTHERS CLEANERS (Continued) **1004756744**

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE
Hist compliance date: 1001
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

AM178 **BROTHERS CLEANERS** **DRYCLEANERS** **S110246097**
North **349 WAVERLY AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.241 mi.
1274 ft. **Site 3 of 7 in cluster AM**

Relative:
Higher

Actual:
84 ft.

DRYCLEANERS:
Facility ID: 2-6103-00582
Phone Number: 718-789-9737
Region: Not reported
Registration Effective Date: 10/17/2001 13:21:10:263
Inspection Date: 09SEP18
Install Date: 97
Drop Shop: Not reported
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

AM179 **EDR US Hist Cleaners** **1015048277**
North **353 WAVERLY AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.241 mi.
1274 ft. **Site 4 of 7 in cluster AM**

Relative:
Higher

Actual:
84 ft.

EDR Historical Cleaners:

Name:	WAVERLY WU LAUNDRY
Year:	2010
Address:	353 WAVERLY AVE
Name:	WAVERLY WU LAUNDRY
Year:	2011
Address:	353 WAVERLY AVE
Name:	WAVERLY WU LAUNDRY
Year:	2012
Address:	353 WAVERLY AVE

AM180 **BROTHERS CLEANERS** **RCRA-SQG** **1004760601**
North **349 WAVERLY AVE** **MANIFEST** **NYR000051664**
1/8-1/4 **BROOKLYN, NY 11238**
0.241 mi.
1274 ft. **Site 5 of 7 in cluster AM**

Relative:
Higher

Actual:
84 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	BROTHERS CLEANERS
Facility address:	349 WAVERLY AVE BROOKLYN, NY 11238
EPA ID:	NYR000051664
Mailing address:	WAVERLY AVE BROOKLYN, NY 11238
Contact:	JOON KIM
Contact address:	WAVERLY AVE BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	(718) 789-9737
Contact email:	Not reported
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JOON S KIM
Owner/operator address:	137-47 KALMIA AVE FLUSHING, NY 11355
Owner/operator country:	US
Owner/operator telephone:	(718) 359-4455
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	JOON S KIM

BROTHERS CLEANERS (Continued) **1004760601**

Owner/operator address: 137-47 KALMIA AVE
FLUSHING, NY 11355
Owner/operator country: US
Owner/operator telephone: (718) 359-4455
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BROTHERS CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/13/1998
Facility name: BROTHERS CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD981559180
Country: USA
Mailing Name: HUNTER CLEANERS
Mailing Contact: HUNTER CLEANERS
Mailing Address: 351 WAVERLY AVE
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11238
Mailing Zip4: 1103
Mailing Country: USA
Mailing Phone: 718-789-2416

Document ID: NYC5521623
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: SCD987574647
Generator Ship Date: 02/10/1999

BROTHERS CLEANERS (Continued) **1004760601**

Trans1 Recv Date:	02/10/1999
Trans2 Recv Date:	02/17/1999
TSD Site Recv Date:	02/24/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC5645463
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	05/26/1999
Trans1 Recv Date:	05/26/1999
Trans2 Recv Date:	06/03/1999
TSD Site Recv Date:	06/08/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC5975021
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	11/08/1999
Trans1 Recv Date:	11/08/1999
Trans2 Recv Date:	11/10/1999
TSD Site Recv Date:	11/16/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931

BROTHERS CLEANERS (Continued) **1004760601**

Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC5854735
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	07/20/1999
Trans1 Recv Date:	07/20/1999
Trans2 Recv Date:	07/28/1999
TSD Site Recv Date:	07/30/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC6737973
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	NJD071629976
Generator Ship Date:	06/14/2002
Trans1 Recv Date:	06/14/2002
Trans2 Recv Date:	06/20/2002
TSD Site Recv Date:	06/21/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NY94889JE
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195

BROTHERS CLEANERS (Continued) **1004760601**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC6750358
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	NJD071629976
Generator Ship Date:	08/29/2002
Trans1 Recv Date:	08/29/2002
Trans2 Recv Date:	09/06/2002
TSD Site Recv Date:	09/06/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NY58468JH
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00133
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC7323412
Manifest Status:	Not reported
Trans1 State ID:	NYAT8305
Trans2 State ID:	T28L8DNJ
Generator Ship Date:	01/27/2004
Trans1 Recv Date:	01/27/2004
Trans2 Recv Date:	01/30/2004
TSD Site Recv Date:	02/02/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001

BROTHERS CLEANERS (Continued) **1004760601**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYC7248284
Manifest Status:	Not reported
Trans1 State ID:	NYC58468J
Trans2 State ID:	NYT17L8D
Generator Ship Date:	11/05/2004
Trans1 Recv Date:	11/05/2004
Trans2 Recv Date:	11/12/2004
TSD Site Recv Date:	11/15/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00133
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYC7348566
Manifest Status:	Not reported
Trans1 State ID:	NY58486JH
Trans2 State ID:	T467GL
Generator Ship Date:	07/14/2004
Trans1 Recv Date:	07/14/2004
Trans2 Recv Date:	07/16/2004
TSD Site Recv Date:	07/20/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported

BROTHERS CLEANERS (Continued) **1004760601**

TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYC7195678
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	NJT367DA
Generator Ship Date:	04/13/2004
Trans1 Recv Date:	04/13/2004
Trans2 Recv Date:	04/16/2004
TSD Site Recv Date:	04/19/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	2008-04-22
Trans1 Recv Date:	2008-04-22
Trans2 Recv Date:	2008-04-28
TSD Site Recv Date:	2008-04-29

BROTHERS CLEANERS (Continued) **1004760601**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	390.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001190785SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD00692061
Generator Ship Date:	2008-08-29
Trans1 Recv Date:	2008-08-29
Trans2 Recv Date:	2008-09-09
TSD Site Recv Date:	2008-09-10
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	60.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001307068SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

BROTHERS CLEANERS (Continued) **1004760601**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD00692061
Generator Ship Date:	2008-08-29
Trans1 Recv Date:	2008-08-29
Trans2 Recv Date:	2008-09-09
TSD Site Recv Date:	2008-09-10
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	390.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001307068SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	NYC4624020
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	Not reported
Generator Ship Date:	05/01/1998
Trans1 Recv Date:	05/01/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/12/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYAM6252

BROTHERS CLEANERS (Continued) **1004760601**

Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	98

Document ID:	06
Manifest Status:	000148713CEX
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2007-01-05
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	2
Number of Containers:	DF
Container Type:	390
Handling Method:	P
Specific Gravity:	1
Waste Code:	R
Quantity:	D040
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7759495
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	MO0095038998
Part B Recv Date:	2006-05-05
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported

BROTHERS CLEANERS (Continued) **1004760601**

Units:	2
Number of Containers:	DF
Container Type:	396
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7759495
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	MO0095038998
Part B Recv Date:	2006-05-05
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	133
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7862837
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2006-08-08
Generator EPA ID:	N

BROTHERS CLEANERS (Continued) **1004760601**

Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	195
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7862837
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2006-08-08
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	3
Number of Containers:	DF
Container Type:	399
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7862837
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported

BROTHERS CLEANERS (Continued) **1004760601**

Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2006-08-08
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	60
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Click this hyperlink while viewing on your computer to access
55 additional NY_MANIFEST: record(s) in the EDR Site Report.

EPA ID:	NYR000051664
Country:	USA
Mailing Name:	BROTHERS CLNRS
Mailing Contact:	JOAN KIM
Mailing Address:	351 WAVERLY AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11238
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-789-9737

Document ID:	NYC5521623
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	02/10/1999
Trans1 Recv Date:	02/10/1999
Trans2 Recv Date:	02/17/1999
TSD Site Recv Date:	02/24/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195

BROTHERS CLEANERS (Continued) **1004760601**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC5645463
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	05/26/1999
Trans1 Recv Date:	05/26/1999
Trans2 Recv Date:	06/03/1999
TSD Site Recv Date:	06/08/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC5975021
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	11/08/1999
Trans1 Recv Date:	11/08/1999
Trans2 Recv Date:	11/10/1999
TSD Site Recv Date:	11/16/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC5854735

BROTHERS CLEANERS (Continued) **1004760601**

Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	07/20/1999
Trans1 Recv Date:	07/20/1999
Trans2 Recv Date:	07/28/1999
TSD Site Recv Date:	07/30/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYLP3931
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYC6737973
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	NJD071629976
Generator Ship Date:	06/14/2002
Trans1 Recv Date:	06/14/2002
Trans2 Recv Date:	06/20/2002
TSD Site Recv Date:	06/21/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NY94889JE
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC6750358
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150

BROTHERS CLEANERS (Continued) **1004760601**

Trans2 State ID:	NJD071629976
Generator Ship Date:	08/29/2002
Trans1 Recv Date:	08/29/2002
Trans2 Recv Date:	09/06/2002
TSD Site Recv Date:	09/06/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NY58468JH
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00133
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC7323412
Manifest Status:	Not reported
Trans1 State ID:	NYAT8305
Trans2 State ID:	T28L8DNJ
Generator Ship Date:	01/27/2004
Trans1 Recv Date:	01/27/2004
Trans2 Recv Date:	01/30/2004
TSD Site Recv Date:	02/02/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

BROTHERS CLEANERS (Continued) **1004760601**

Document ID:	NYC7248284
Manifest Status:	Not reported
Trans1 State ID:	NYC58468J
Trans2 State ID:	NYT17L8D
Generator Ship Date:	11/05/2004
Trans1 Recv Date:	11/05/2004
Trans2 Recv Date:	11/12/2004
TSD Site Recv Date:	11/15/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00133
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYC7348566
Manifest Status:	Not reported
Trans1 State ID:	NY58486JH
Trans2 State ID:	T467GL
Generator Ship Date:	07/14/2004
Trans1 Recv Date:	07/14/2004
Trans2 Recv Date:	07/16/2004
TSD Site Recv Date:	07/20/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)

BROTHERS CLEANERS (Continued) **1004760601**

Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYC7195678
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	NJT367DA
Generator Ship Date:	04/13/2004
Trans1 Recv Date:	04/13/2004
Trans2 Recv Date:	04/16/2004
TSD Site Recv Date:	04/19/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	2008-04-22
Trans1 Recv Date:	2008-04-22
Trans2 Recv Date:	2008-04-28
TSD Site Recv Date:	2008-04-29
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	390.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0

BROTHERS CLEANERS (Continued) **1004760601**

Year:	2008
Manifest Tracking Num:	001190785SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD00692061
Generator Ship Date:	2008-08-29
Trans1 Recv Date:	2008-08-29
Trans2 Recv Date:	2008-09-09
TSD Site Recv Date:	2008-09-10
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	60.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001307068SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD00692061
Generator Ship Date:	2008-08-29
Trans1 Recv Date:	2008-08-29

BROTHERS CLEANERS (Continued) **1004760601**

Trans2 Recv Date:	2008-09-09
TSD Site Recv Date:	2008-09-10
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	390.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001307068SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	NYC4624020
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	Not reported
Generator Ship Date:	05/01/1998
Trans1 Recv Date:	05/01/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/12/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000051664
Trans1 EPA ID:	OHD980587364
Trans2 EPA ID:	Not reported
TSDF ID:	NYAM6252
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	98

Document ID:	06
Manifest Status:	000148713CEX
Trans1 State ID:	NYR000051664

BROTHERS CLEANERS (Continued) **1004760601**

Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2007-01-05
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	2
Number of Containers:	DF
Container Type:	390
Handling Method:	P
Specific Gravity:	1
Waste Code:	R
Quantity:	D040
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7759495
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	MO0095038998
Part B Recv Date:	2006-05-05
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	2
Number of Containers:	DF
Container Type:	396
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

BROTHERS CLEANERS (Continued) **1004760601**

Document ID:	06
Manifest Status:	NYC7759495
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	MO0095038998
Part B Recv Date:	2006-05-05
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	133
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7862837
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2006-08-08
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	195
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported

BROTHERS CLEANERS (Continued) **1004760601**

Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7862837
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2006-08-08
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	3
Number of Containers:	DF
Container Type:	399
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYC7862837
Trans1 State ID:	NYR000051664
Trans2 State ID:	Not reported
Generator Ship Date:	OHD980587364
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	NJD071629976
Part B Recv Date:	2006-08-08
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DF
Container Type:	60
Handling Method:	P
Specific Gravity:	1

BROTHERS CLEANERS (Continued) **1004760601**

Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Click this hyperlink while viewing on your computer to access
55 additional NY_MANIFEST: record(s) in the EDR Site Report.

AK181 **EDR US Hist Auto Stat** **1015670655**
SSE **908 PACIFIC ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.242 mi.
1279 ft. **Site 2 of 2 in cluster AK**

Relative:
Higher

Actual:
88 ft.

EDR Historical Auto Stations:

Name:	R T AUTO WORKS
Year:	1999
Address:	908 PACIFIC ST
Name:	R T AUTO WORKS
Year:	2000
Address:	908 PACIFIC ST
Name:	RT AUTO WORKS
Year:	2001
Address:	908 PACIFIC ST
Name:	RT AUTO WORKS
Year:	2002
Address:	908 PACIFIC ST
Name:	RT AUTO WORKS
Year:	2003
Address:	908 PACIFIC ST

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182 **CON EDISON MANHOLE 69588** **RCRA NonGen / NLR** **1014918508**
WNW **FULTON ST & ADELPHI ST** **NYP004221248**
1/8-1/4 **BROOKLYN, NY 11202**
0.242 mi.
1280 ft.

Relative:
Lower

Actual:
75 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/05/2011
Facility name:	CON EDISON MANHOLE 69588
Facility address:	FULTON ST & ADELPHI ST 139 FEET E BROOKLYN, NY 11202
EPA ID:	NYP004221248
Mailing address:	IRVING PL RM 828 NEW YORK, NY 10003
Contact:	CHARLES CARRILLO
Contact address:	Not reported

CON EDISON MANHOLE 69588 (Continued) **1014918508**

	Not reported
Contact country:	Not reported
Contact telephone:	(718) 204-4455
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	12/06/2010
Facility name:	CON EDISON MANHOLE 69588
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

183
NNW
1/8-1/4
0.243 mi.
1281 ft.

390-392 CLINTON AVENUE **AST** **A100173483**
390-392 CLINTON AVE (109 GREENE AVE) **N/A**
BROOKLYN, NY 11238

Relative:
Higher

Actual:
89 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-600732
Program Type:	PBS
UTM X:	587262.85935000004
UTM Y:	4504468.8406800004
Expiration Date:	2005/10/30
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	22712
Affiliation Type:	Facility Owner
Company Name:	VIVIAN BECKER, 7A ADMINISTRATOR
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	201 DEKALB AVENUE
Address2:	Not reported
City:	BROOKLYN

390-392 CLINTON AVENUE (Continued) **A100173483**

State:	NY
Zip Code:	11205
Country Code:	001
Phone:	(718) 522-2613
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22712
Affiliation Type:	Mail Contact
Company Name:	PRATT AREA COMMUNITY COUNCIL
Contact Type:	Not reported
Contact Name:	DEB HOWARD
Address1:	201 DEKALB AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11205
Country Code:	001
Phone:	(718) 522-2613
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22712
Affiliation Type:	On-Site Operator
Company Name:	390-392 CLINTON AVENUE
Contact Type:	Not reported
Contact Name:	PACC MANAGEMENT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 522-2613
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22712
Affiliation Type:	Emergency Contact
Company Name:	VIVIAN BECKER, 7A ADMINISTRATOR
Contact Type:	Not reported
Contact Name:	DEB HOWARD
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 522-2613
EMail:	Not reported
Fax Number:	Not reported

390-392 CLINTON AVENUE (Continued) **A100173483**

Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 1
Tank Id: 43510
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
G03 - Tank Secondary Containment - Vault (w/o access)
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
I05 - Overfill - Vent Whistle
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 3000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: #2 Fuel Oil (On-Site Consumption)

AN184 **NYCDOT BRIDGE BIN 2243290** **RCRA-LQG** **1000912077**
WSW **CARLTON AVE** **FINDS** **NY0000445551**
1/8-1/4 **BROOKLYN, NY**
0.243 mi.
1283 ft. **Site 1 of 2 in cluster AN**

Relative:
Lower

Actual:
58 ft.

RCRA-LQG:
Date form received by agency: 04/09/2012
Facility name: NYCDOT BRIDGE BIN 2243290
Facility address: CARLTON AVE
BROOKLYN, NY 11238
EPA ID: NY0000445551
Mailing address: WATER ST
NEW YORK, NY 10041
Contact: ALEX BEZNASTNOV
Contact address: WATER ST
NEW YORK, NY 10041
Contact country: US
Contact telephone: (212) 839-6613
Contact email: Not reported

NYCDOT BRIDGE BIN 2243290 (Continued) **1000912077**

EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: NYCDOT
Owner/operator address: WATER ST
NEW YORK, NY 10041
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1940
Owner/Op end date: Not reported

Owner/operator name: NYCDOT BUREAU OF BRIDGES
Owner/operator address: 2 RECTOR ST - 4TH FLOOR
NEW YORK, NY 10006
Owner/operator country: Not reported
Owner/operator telephone: (212) 788-1705
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYCDOT
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1940
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No

NYCDOT BRIDGE BIN 2243290 (Continued) **1000912077**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2007
Facility name: NYCDOT BRIDGE BIN 2243290
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Facility name: NYCDOT BRIDGE BIN 2243290
Classification: Not a generator, verified

Date form received by agency: 07/11/1994
Facility name: NYCDOT BRIDGE BIN 2243290
Classification: Not a generator, verified

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Waste code: D000
Waste name: Not Defined

Waste code: D008
Waste name: LEAD

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D008
Waste name: LEAD
Amount (Lbs): 4400

Violation Status: No violations found

FINDS:

Registry ID: 110007987358

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

185 ENE 1/8-1/4 0.243 mi. 1284 ft. | **CONSOLIDATED EDISON**
GRAND AVENUE AND GATES AVENUE
BROOKLYN, NY 11238 | **MANIFEST** | **S110046379**
N/A

Relative: Lower

Actual: 66 ft.

NY MANIFEST:

EPA ID:	NYP004183737
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PL RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-20
Trans1 Recv Date:	2009-07-20
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183737
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	400.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894680GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported

CONSOLIDATED EDISON (Continued) **S110046379**

Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-28
Trans1 Recv Date:	2009-07-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-31
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183737
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894753GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-20
Trans1 Recv Date:	2009-07-20
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183737
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	250.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894694GBF

CONSOLIDATED EDISON (Continued) **S110046379**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-20
Trans1 Recv Date:	2009-07-20
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004183737
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	250.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894694GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

AN186 WSW 1/8-1/4 0.245 mi. 1291 ft. | **ATLANTIC MERIT**
ATLANTIC & CARLTON AVE.
NEW YORK CITY, NY | **LTANKS** | **S102671307**
N/A

Site 2 of 2 in cluster AN

Relative: Lower

Actual: 59 ft.

LTANKS:

Site ID:	159878
Spill Number/Closed Date:	8804681 / 8/29/1988
Spill Date:	8/28/1988
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	8/29/1988
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	8/28/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/31/1988
Spill Record Last Update:	10/29/1998
Spiller Name:	Not reported
Spiller Company:	ISLAND TRANSPORT
Spiller Address:	5700 47TH STREET
Spiller City,St,Zip:	QUEENS, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	135046
DEC Memo:	Not reported
Remarks:	SPILL CLEAN-UP W/SPEED-DRY,NO SEWERS,NO DRAIN,/NEW DRIVER-W.DYNOE 2-4,000 GALLONS-NOT MANIFOLDED.

Material:

Site ID:	159878
Operable Unit ID:	921849
Operable Unit:	01
Material ID:	456611
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AO187 **AYDC INTERIM DEVELOPER LLC** **MANIFEST** **S111158360**
WSW **754 PACIFIC ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.245 mi.
1292 ft. **Site 1 of 3 in cluster AO**

Relative:
Lower

Actual:
62 ft.

NY MANIFEST:

EPA ID:	NYR000182253
Country:	USA
Mailing Name:	AYDC INTERIM DEVELOPER LLC
Mailing Contact:	EILEEN WEINGARTEN
Mailing Address:	1 METROTECH CENTER
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11201
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-923-8400

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000081661
Trans2 State ID:	Not reported
Generator Ship Date:	2011-05-18
Trans1 Recv Date:	2011-05-18
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-05-18
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000182253
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	Not reported
Quantity:	250.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	000097131JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported

AYDC INTERIM DEVELOPER LLC (Continued) **S111158360**

Trans1 State ID:	NYR000081661
Trans2 State ID:	Not reported
Generator Ship Date:	2011-05-18
Trans1 Recv Date:	2011-05-18
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-05-18
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000182253
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	Not reported
Quantity:	30.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	000097131JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000081661
Trans2 State ID:	Not reported
Generator Ship Date:	2011-05-18
Trans1 Recv Date:	2011-05-18
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-05-18
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000182253
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	Not reported
Quantity:	30.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	000097131JJK

AYDC INTERIM DEVELOPER LLC (Continued) **S111158360**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000081661
Trans2 State ID:	Not reported
Generator Ship Date:	2011-05-18
Trans1 Recv Date:	2011-05-18
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-05-18
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000182253
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	Not reported
Quantity:	1.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	000097131JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000081661
Trans2 State ID:	Not reported
Generator Ship Date:	2011-05-18
Trans1 Recv Date:	2011-05-18
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-05-18

AYDC INTERIM DEVELOPER LLC (Continued) **S111158360**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000182253
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	Not reported
Quantity:	5.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	000097132JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AO188 **AYDC INTERIM DEVELOPER LLC** **RCRA NonGen / NLR** **1014473113**
WSW **754 PACIFIC ST** **NYR000182253**
1/8-1/4 **BROOKLYN, NY 11238**
0.245 mi.
1292 ft. **Site 2 of 3 in cluster AO**

Relative:
Lower

Actual:
62 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/02/2012
Facility name:	AYDC INTERIM DEVELOPER LLC
Facility address:	754 PACIFIC ST BROOKLYN, NY 11238
EPA ID:	NYR000182253
Mailing address:	METROTECH CENTER BROOKLYN, NY 11201
Contact:	EILEEN WEINGARTEN
Contact address:	METROTECH CENTER BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	(718) 923-8400
Contact email:	EWEINGARTEN@FCRC.COM
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	AYDC INTERIM DEVELOPER LLC
Owner/operator address:	METROTECH CENTER BROOKLYN, NY 11201
Owner/operator country:	US
Owner/operator telephone:	(718) 923-8400

AYDC INTERIM DEVELOPER LLC (Continued) **1014473113**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/12/2010
Owner/Op end date: Not reported

Owner/operator name: AYDC INTERIM DEVELOPER LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/12/2010
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/06/2011
Facility name: AYDC INTERIM DEVELOPER LLC
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

AYDC INTERIM DEVELOPER LLC (Continued) **1014473113**

Violation Status: No violations found

AP189 **SAIKA AUTO INTL INC** **RCRA NonGen / NLR** **1004760657**
SE **980 ATLANTIC AVE** **FINDS** **NYR000054635**
1/8-1/4 **BROOKLYN, NY 11238** **MANIFEST**
0.245 mi.
1293 ft. **Site 1 of 2 in cluster AP**

Relative:
Higher

Actual:
83 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	SAIKA AUTO INTL INC
Facility address:	980 ATLANTIC AVE BROOKLYN, NY 11238
EPA ID:	NYR000054635
Mailing address:	ATLANTIC AVE BROOKLYN, NY 11238
Contact:	HENRY AKHAVAN
Contact address:	ATLANTIC AVE BROOKLYN, NY 11238
Contact country:	US
Contact telephone:	(718) 783-6277
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	976-84 ATLANTIC PARKING CO
Owner/operator address:	976 ATLANTIC AVE BROOKLYN, NY 11238
Owner/operator country:	US
Owner/operator telephone:	(718) 622-9699
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	976-84 ATLANTIC PARKING CO
Owner/operator address:	976 ATLANTIC AVE BROOKLYN, NY 11238
Owner/operator country:	US
Owner/operator telephone:	(718) 622-9699
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No

SAIKA AUTO INTL INC (Continued) **1004760657**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SAIKA AUTO INTL INC
Classification: Not a generator, verified

Date form received by agency: 05/08/1998
Facility name: SAIKA AUTO INTL INC
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004543085

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYR000054635
Country: USA
Mailing Name: SAIKA AUTO INTERNATIONAL
Mailing Contact: HENRY AKHARAN
Mailing Address: 980 ATLANTICAVE
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11238
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-783-6277

Document ID: NYG1000881
Manifest Status: Not reported
Trans1 State ID: NYD077444263
Trans2 State ID: Not reported
Generator Ship Date: 08/02/1999
Trans1 Recv Date: 08/02/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/02/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000054635
Trans1 EPA ID: NYD077444263

SAIKA AUTO INTL INC (Continued) **1004760657**

Trans2 EPA ID:	Not reported
TSDF ID:	PD1011NY
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00330
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYG1005795
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	03/17/1999
Trans1 Recv Date:	03/17/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/19/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000054635
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYPP5193
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYG1709793
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	12/13/1999
Trans1 Recv Date:	12/13/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/14/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000054635
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	PD1011NY
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00275
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

SAIKA AUTO INTL INC (Continued) **1004760657**

Year: 99

Document ID: NYG1417608
Manifest Status: Not reported
Trans1 State ID: NYD077444263
Trans2 State ID: Not reported
Generator Ship Date: 09/14/1998
Trans1 Recv Date: 09/14/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 09/18/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000054635
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID: PD1011NY
Waste Code: F003 - UNKNOWN
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYG0587871
Manifest Status: Not reported
Trans1 State ID: NYD077444263
Trans2 State ID: Not reported
Generator Ship Date: 07/10/1998
Trans1 Recv Date: 07/10/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/10/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000054635
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID: PD1011NY
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYG1056348
Manifest Status: Not reported
Trans1 State ID: NYD077444263
Trans2 State ID: Not reported
Generator Ship Date: 11/16/1998
Trans1 Recv Date: 11/16/1998

SAIKA AUTO INTL INC (Continued) **1004760657**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/20/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000054635
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	PD1011NY
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	98

AP190 **EDR US Hist Auto Stat** **1015687884**
SE **980 ATLANTIC AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.245 mi.
1293 ft. **Site 2 of 2 in cluster AP**

Relative:
Higher

Actual:
83 ft.

EDR Historical Auto Stations:

Name:	SAIKA AUTO INT L & APOS L
Year:	2008
Address:	980 ATLANTIC AVE
Name:	SAIKA AUTO INT L & APOS L
Year:	2009
Address:	980 ATLANTIC AVE

AM191 **385 CLINTON AVENUE CORPORATION** **AST** **A100292279**
North **385 CLINTON AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.245 mi.
1294 ft. **Site 6 of 7 in cluster AM**

Relative:
Higher

Actual:
87 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609155
Program Type:	PBS
UTM X:	587254.58297999995
UTM Y:	4504459.6020200001
Expiration Date:	2018/07/25
Site Type:	Private Residence

Affiliation Records:

Site Id:	31001
Affiliation Type:	Mail Contact
Company Name:	GOLDIN MANAGEMENT
Contact Type:	Not reported
Contact Name:	JESSE WILCOX
Address1:	25 8TH AVE
Address2:	Not reported

385 CLINTON AVENUE CORPORATION (Continued) **A100292279**

City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 230-2600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	7/3/2013

Site Id:	31001
Affiliation Type:	Facility Owner
Company Name:	385 CLINTON AVENUE CORPORATION
Contact Type:	OFFICE MANAGER
Contact Name:	STEPHEN EGBERT
Address1:	385 CLINTON AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 230-2600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	7/3/2013

Site Id:	31001
Affiliation Type:	On-Site Operator
Company Name:	385 CLINTON AVENUE CORPORATION
Contact Type:	Not reported
Contact Name:	N/A (OWNER-COOP)
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 789-1612
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	31001
Affiliation Type:	Emergency Contact
Company Name:	385 CLINTON AVENUE CORPORATION
Contact Type:	Not reported
Contact Name:	JESSE WILCOX
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 230-2600
EMail:	Not reported

385 CLINTON AVENUE CORPORATION (Continued) **A100292279**

Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	7/3/2013

Tank Info:

Tank Number:	001
Tank Id:	66605
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	G00 - Tank Secondary Containment - None
	B01 - Tank External Protection - Painted/Asphalt Coating
	F00 - Pipe External Protection - None
	C01 - Pipe Location - Aboveground
	H00 - Tank Leak Detection - None
	I00 - Overfill - None
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	07/01/1940
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMMOLOUG
Last Modified:	07/03/2013
Material Name:	#2 Fuel Oil (On-Site Consumption)

AM192 **EDR US Hist Cleaners** **1014992219**
North **141 GREENE AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.245 mi.
1296 ft. **Site 7 of 7 in cluster AM**

Relative:
Higher

Actual:
84 ft.

EDR Historical Cleaners:

Name:	GREEN DRY CLEANER
Year:	2004
Address:	141 GREENE AVE
Name:	GREEN DRY CLEANER
Year:	2005
Address:	141 GREENE AVE
Name:	GREEN DRY CLEANER
Year:	2006
Address:	141 GREENE AVE
Name:	GREEN DRY CLEANER
Year:	2007
Address:	141 GREENE AVE

(Continued) **1014992219**

Name: GREENE AVENUE DRY CLEANERS
Year: 2010
Address: 141 GREENE AVE

Name: GREEN DRY CLEANERS
Year: 2011
Address: 141 GREENE AVE

Name: GREEN DRY CLEANERS
Year: 2012
Address: 141 GREENE AVE

AO193 **CON EDISON** **MANIFEST** **S113816289**
WSW **752 PACIFIC** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.248 mi.
1308 ft. **Site 3 of 3 in cluster AO**

Relative:
Lower

Actual:
62 ft.

NY MANIFEST:

EPA ID:	NYP004327078
Country:	USA
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-3770

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10-Jul-2013 00:00:00
Trans1 Recv Date:	10-Jul-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11-Jul-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004327078
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	400
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002084620GBF
Import Ind:	N
Export Ind:	N

CON EDISON (Continued) **S113816289**

Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AJ194 **44 LEFFERTS PL/BKLYN** **LTANKS** **S106703544**
ESE **44 LEFFERTS PLACE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.248 mi.
1311 ft. **Site 2 of 2 in cluster AJ**

Relative:
Lower

Actual:
76 ft.

LTANKS:

Site ID:	69107
Spill Number/Closed Date:	9101804 / 5/15/1991
Spill Date:	5/15/1991
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	5/15/1991
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	5/15/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/15/1991
Spill Record Last Update:	12/26/2002
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	65741
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	TANK OVERFILLED,SPILL IN BASEMENT, CLEANED WITH DRYSOL.

Material:

Site ID:	69107
Operable Unit ID:	955389
Operable Unit:	01
Material ID:	424340

44 LEFFERTS PL/BKLYN (Continued) **S106703544**

Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

---

195 West 1/8-1/4 0.249 mi. 1315 ft. **ATLANTIC TERMINAL 483 CARLTON AVE BROOKLYN, NY** **LTANKS NY Spills** **S102673219 N/A**

Relative: Lower

Actual: 64 ft.

LTANKS:

Site ID:	63178
Spill Number/Closed Date:	0201138 / Not Reported
Spill Date:	4/30/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	jkkann
Referred To:	IWP APPRVD 3/4/13, SIR DUE 9/4/13
Reported to Dept:	4/30/2002
CID:	281
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	4/30/2002
Spill Record Last Update:	3/4/2013
Spiller Name:	SEBASTIAN LOREFICE
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	23-02 49TH AVE
Spiller City,St,Zip:	LONG ISLAND CITY, NY 11011-
Spiller County:	001
Spiller Contact:	MARIO MANDALONE
Spiller Phone:	(718) 707-7841
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	61096
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"HOUSING AUTHORITY WILL NOTIFY KOLLEENY OF DEC BEFORE RE-TEST.11/07/05: This spill transferred from J.Kolleeny to S.Kraszewski.12/23/05: Tank has been removed and replaced (2004.) No tank closure assessment performed. - SK07/07/06: NYCHA summary report

ATLANTIC TERMINAL (Continued) **S102673219**

states no recovery system and no MWs on-site. A site assessment is available and NYCHA recommends the Department review it. - SK02/06/07 - J.Kann - site reassigned from S. Kraszewski to J.Kann.7/22/10: J.kann - investigation work plan received on 7/15/10.12/27/12: J.Kann - reviewed IWP. Emailed NYCHA requesting that the SAR referenced in the IWP be submitted for review before comments can be finalized on the IWP. 1/14/13: J.Kann - comments on the IWP sent to NYCHA on 1/9/13.3/4/13: J.Kann - An addendum to the Work Plan and a revised Figure was received on February 27, 2013. The addendum and the revised figure were reviewed and the IWP with addendum approved on March 4, 2013. The SIR is due September 4, 2013.

Remarks: TANK TEST FAILURE AT ABOVE LOCATION. TANK TO BE ISOLATED AND RETESTED. Not reported

Material:

Site ID:	63178
Operable Unit ID:	852133
Operable Unit:	01
Material ID:	522561
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	63178
Spill Tank Test:	1527089
Tank Number:	1
Tank Size:	20000
Test Method:	03
Leak Rate:	0
Gross Fail:	F
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

Site ID:	146593
Spill Number/Closed Date:	9010635 / 9/8/1994
Spill Date:	1/4/1991
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	9/8/1994
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1/4/1991
CID:	Not reported

ATLANTIC TERMINAL (Continued) **S102673219**

Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/9/1991
Spill Record Last Update:	12/23/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	61096
DEC Memo:	Not reported
Remarks:	20K TANK FAILED HORNER EZY CHECK WITH A VISUAL LEAK, MANWAY LEAKING,TO REPAIR & RETEST.

Material:

Site ID:	146593
Operable Unit ID:	950891
Operable Unit:	01
Material ID:	430776
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	146593
Spill Tank Test:	1538126
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	250505
Spill Number/Closed Date:	9513597 / 2/1/1996
Spill Date:	1/26/1996
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response.

ATLANTIC TERMINAL (Continued) **S102673219**

	Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1/26/1996
CID:	282
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/26/1996
Spill Record Last Update:	11/7/2005
Spiller Name:	FRANK OCELLO
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	001
Spiller Contact:	FF DEMAO
Spiller Phone:	(917) 769-0483
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	61096
DEC Memo:	Not reported
Remarks:	the oil delivery company made a delivery for a certain amount and the tank was overfilled by 36 gallons.spill went into a catch basin.housing authority is on the scene.apartment complex.apparently the oil company was told the wrong amount to pump into the tank.

Material:

Site ID:	250505
Operable Unit ID:	1028081
Operable Unit:	01
Material ID:	357313
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	0100292
DER Facility ID:	61096
Facility Type:	ER
Site ID:	250503
DEC Region:	2

ATLANTIC TERMINAL (Continued) **S102673219**

Spill Date:	4/9/2001
Spill Number/Closed Date:	0100292 / 3/25/2003
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	4/9/2001
CID:	281
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/9/2001
Spill Record Last Update:	11/7/2005
Spiller Name:	OWEN JACKSON
Spiller Company:	ACS SYSTEM ASSOCIATES
Spiller Address:	329 MILLER LANE
Spiller City,St,Zip:	MT VERNON, NY 10550
Spiller Company:	001
Contact Name:	GEORGE GARBER
Contact Phone:	(718) 638-0505
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"ACCORDING TO NYCHA, ABOUT 10 GALLONS OF OIL SPILLED ONTO PARKING LOT PAVEMENT DUE TO DEFECTIVE SUPPLY LINE GAUGE ON PORTABLE BOILER. SPILL CLEANED BY A.L. EASTMOND WITH ABSORBENTS, AFFECTED AREA POWER WASHED AND WASTEWATER VACUUMED UP. EASTMOND REMOVED 3 DRUMS OF OIL-CONTAMINATED WASTE. DEFECTIVE GAUGE REPLACED.OK TO CLOSE.
Remarks:	BROKEN GAUGE ON PUMP ON BOILER AT ABOVE LOCATION. REPAIRS HAVEBEEN MADE AND CLEANUP IS IN PROGRESS. ALL MATERIAL EXPECTED TOBE RECOVERED. Not reported

Material:

Site ID:	250503
Operable Unit ID:	838857
Operable Unit:	01
Material ID:	539559
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9510553

ATLANTIC TERMINAL (Continued) **S102673219**

DER Facility ID:	205330
Facility Type:	ER
Site ID:	250504
DEC Region:	2
Spill Date:	11/21/1995
Spill Number/Closed Date:	9510553 / 11/24/1995
Spill Cause:	Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MMMULQUE
Referred To:	Not reported
Reported to Dept:	11/21/1995
CID:	267
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/21/1995
Spill Record Last Update:	12/7/1995
Spiller Name:	FF DEMAO
Spiller Company:	Not reported
Spiller Address:	487 CARLTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	FF DEMAO
Contact Phone:	(917) 769-0483
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"Was a household trash fire in front of pojects. Refuse being cleaned up by Housing Authority Personnel.
Remarks:	FIREFIGHTERS RESPONDED TO A RUBBISH FIRE AND NOTICED A TOXIC SMELL COMING FROM SOME PLASTIC BURNING MAY HAVE GONE INTO SEWERSRUNOFF WATER HAS A PH OF 14 DEP IS ENROUTE AND WILL WORK WITH FDON THE CLEAN UP ABOUT 40 GALS IN ALL FIRE WAS ON THE STREET NO BUILDINGS INVOLVED

Material:

Site ID:	250504
Operable Unit ID:	1025048
Operable Unit:	01
Material ID:	357916
Material Code:	0063A
Material Name:	UNKNOWN HAZARDOUS MATERIAL
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	40
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

196 NNW 1/4-1/2 0.291 mi. 1538 ft. | **375 VANDERBILT AVE/BKLYN**
375 VANDERBILT AVENUE
NEW YORK CITY, NY | **LTANKS** | **S102671468**
N/A

Relative: Higher

Actual: 92 ft.

LTANKS:

Site ID:	242497
Spill Number/Closed Date:	8909323 / 12/24/1989
Spill Date:	12/23/1989
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	12/24/1989
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	12/24/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/24/1990
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	PUBLIC FUEL SERVICE
Spiller Address:	740 JAMAICA AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	199277
DEC Memo:	Not reported
Remarks:	PUBLIC FUEL SERVICE SENDING SOMEONE TO CLEAN UP SPILL WITH SPEEDY DRY. Not reported

Material:

Site ID:	242497
Operable Unit ID:	934257
Operable Unit:	01
Material ID:	442489
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

197 SW 1/4-1/2 0.302 mi. 1597 ft.

ULANO CORP
601 BERGEN ST
BROOKLYN, NY 11238

CERCLIS
RCRA-SQG
FINDS
MANIFEST
NY Spills
CBS

1000123536
NYD001725878

Relative: Higher

Actual: 81 ft.

CERCLIS:

Site ID:	0206422
EPA ID:	NYD001725878
Facility County:	KINGS
Short Name:	ULANO CORP
Congressional District:	11
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	S
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	02
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	09/30/09
Site Fips Code:	36047
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported
Alias Comments:	Not reported

Site Description: Not reported

CERCLIS Assessment History:

Action Code:	001
Action:	POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL
Date Started:	10/06/09
Date Completed:	10/06/09
Priority Level:	Stabilized
Operable Unit:	SITEWIDE
Primary Responsibility:	Responsible Party
Planning Status:	Not reported
Urgency Indicator:	Emergency
Action Anomaly:	Not reported

RCRA-SQG:

Date form received by agency: 01/01/2007

ULANO CORP (Continued) **1000123536**

Facility name:	ULANO CORP
Facility address:	601 BERGEN ST BROOKLYN, NY 11238
EPA ID:	NYD001725878
Mailing address:	BUTLER ST BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	BUTLER ST BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ULANO CORP
Owner/operator address:	255 BUTLER ST BROOKYN, NY 11217
Owner/operator country:	US
Owner/operator telephone:	(718) 622-5200
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ULANO CORP
Owner/operator address:	255 BUTLER ST BROOKYN, NY 11217
Owner/operator country:	US
Owner/operator telephone:	(718) 622-5200
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No

ULANO CORP (Continued) **1000123536**

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ULANO CORP
Classification: Small Quantity Generator

Date form received by agency: 07/21/1999
Facility name: ULANO CORP
Classification: Large Quantity Generator

Date form received by agency: 02/25/1998
Facility name: ULANO CORP
Site name: ULANO CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/28/1996
Facility name: ULANO CORP
Site name: ULANO CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 04/09/1993
Facility name: ULANO CORP
Classification: Small Quantity Generator

Date form received by agency: 02/27/1992
Facility name: ULANO CORP
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990
Facility name: ULANO CORP
Site name: ULANO CORPORATION - BER MAR CORPORATION
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/30/2009
Date achieved compliance: 01/21/2010
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/06/2009
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 02/18/2010
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/07/2000
Date achieved compliance: 08/22/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL

ULANO CORP (Continued) **1000123536**

Enforcement action date: 07/19/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/19/1988
Date achieved compliance: 01/27/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/01/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/1984
Date achieved compliance: 05/29/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/28/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/30/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/21/2010
Evaluation lead agency: State

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/22/2000
Evaluation lead agency: EPA

Evaluation date: 07/19/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/27/1989
Evaluation lead agency: State

Evaluation date: 08/15/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

ULANO CORP (Continued) **1000123536**

Area of violation: Generators - General
Date achieved compliance: 05/29/1985
Evaluation lead agency: State

FINDS:

Registry ID: 110000323356

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

NY MANIFEST:

EPA ID: NYD001725878
Country: USA
Mailing Name: ULANO CORPORATION
Mailing Contact: MAX COHEN EXT 310
Mailing Address: 280 BERGEN STREET
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11217
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-237-4700

Document ID: PAB0515616
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: PA-AHNY-P
Trans2 State ID: PA-AH
Generator Ship Date: 841126
Trans1 Recv Date: 841126
Trans2 Recv Date: Not reported

ULANO CORP (Continued) **1000123536**

TSD Site Recv Date:	841126
Part A Recv Date:	850102
Part B Recv Date:	841219
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	F005 - UNKNOWN
Quantity:	05300
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	84

Document ID:	PAO2652860
Manifest Status:	Completed copy
Trans1 State ID:	AH0032
Trans2 State ID:	Not reported
Generator Ship Date:	830623
Trans1 Recv Date:	830623
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830623
Part A Recv Date:	030705
Part B Recv Date:	030705
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	F005 - UNKNOWN
Quantity:	04000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	PAO2652871
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AH0032
Trans2 State ID:	Not reported
Generator Ship Date:	831228
Trans1 Recv Date:	831228
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	831228
Part A Recv Date:	840110
Part B Recv Date:	840112
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	F005 - UNKNOWN
Quantity:	04100

ULANO CORP (Continued) **1000123536**

Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	PAO2653044
Manifest Status:	Completed copy
Trans1 State ID:	AH0032
Trans2 State ID:	Not reported
Generator Ship Date:	831104
Trans1 Recv Date:	831104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	831104
Part A Recv Date:	031115
Part B Recv Date:	031115
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	F005 - UNKNOWN
Quantity:	04700
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	PAO4762516
Manifest Status:	Completed copy
Trans1 State ID:	AH0032
Trans2 State ID:	Not reported
Generator Ship Date:	830204
Trans1 Recv Date:	830204
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830204
Part A Recv Date:	030223
Part B Recv Date:	030223
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	PAO4762520

ULANO CORP (Continued) **1000123536**

Manifest Status:	Completed copy
Trans1 State ID:	AH0032
Trans2 State ID:	Not reported
Generator Ship Date:	830831
Trans1 Recv Date:	830831
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830831
Part A Recv Date:	030909
Part B Recv Date:	030909
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	F005 - UNKNOWN
Quantity:	03850
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	PAO4762564
Manifest Status:	Completed copy
Trans1 State ID:	AH0032
Trans2 State ID:	Not reported
Generator Ship Date:	830325
Trans1 Recv Date:	830325
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830325
Part A Recv Date:	030411
Part B Recv Date:	030411
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD064375470
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05500
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	PAO4762590
Manifest Status:	Completed copy
Trans1 State ID:	1158
Trans2 State ID:	Not reported
Generator Ship Date:	830426
Trans1 Recv Date:	830426
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830426
Part A Recv Date:	030509
Part B Recv Date:	030509

ULANO CORP (Continued) **1000123536**

Generator EPA ID:	NYD001725878
Trans1 EPA ID:	PAD980715692
Trans2 EPA ID:	Not reported
TSDF ID:	PAD064375470
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	NYA1079172
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	841114
Trans1 Recv Date:	841120
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	841120
Part A Recv Date:	841228
Part B Recv Date:	850102
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NYD043815703
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	F005 - UNKNOWN
Quantity:	00150
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	84

Document ID:	NYO2890152
Manifest Status:	Completed copy
Trans1 State ID:	1A041
Trans2 State ID:	Not reported
Generator Ship Date:	840911
Trans1 Recv Date:	840911
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840911
Part A Recv Date:	840919
Part B Recv Date:	840917
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NYD075788851
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F005 - UNKNOWN
Quantity:	04300
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks

ULANO CORP (Continued) **1000123536**

Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 84

Document ID: NYO2890071
Manifest Status: Completed copy
Trans1 State ID: JA-195
Trans2 State ID: Not reported
Generator Ship Date: 840410
Trans1 Recv Date: 840410
Trans2 Recv Date: Not reported
TSD Site Recv Date: 840410
Part A Recv Date: 840417
Part B Recv Date: 840417
Generator EPA ID: NYD001725878
Trans1 EPA ID: NYD077515575
Trans2 EPA ID: Not reported
TSDF ID: NJD048810279
Waste Code: F001 - UNKNOWN
Quantity: 00200
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 84

Document ID: PAB1897136
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: PA-AH0174
Trans2 State ID: PA-AH
Generator Ship Date: 850606
Trans1 Recv Date: 850606
Trans2 Recv Date: Not reported
TSD Site Recv Date: 850607
Part A Recv Date: 850624
Part B Recv Date: 851106
Generator EPA ID: NYD001725878
Trans1 EPA ID: PAD980715692
Trans2 EPA ID: Not reported
TSDF ID: PAD067098822
Waste Code: F005 - UNKNOWN
Quantity: 04834
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 85

Document ID: NYA1248993
Manifest Status: Completed copy
Trans1 State ID: NJDEPS103
Trans2 State ID: Not reported

ULANO CORP (Continued) **1000123536**

Generator Ship Date:	870331
Trans1 Recv Date:	870331
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870331
Part A Recv Date:	870407
Part B Recv Date:	870407
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080469935
Waste Code:	F005 - UNKNOWN
Quantity:	03000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	084
Year:	87

Document ID:	NJA0119348
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	880829
Trans1 Recv Date:	880829
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880829
Part A Recv Date:	880901
Part B Recv Date:	880906
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F005 - UNKNOWN
Quantity:	01609
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	88

Document ID:	MAH7208780
Manifest Status:	Completed copy
Trans1 State ID:	MD100E30
Trans2 State ID:	ME625976
Generator Ship Date:	941216
Trans1 Recv Date:	941216
Trans2 Recv Date:	941219
TSD Site Recv Date:	941220
Part A Recv Date:	Not reported
Part B Recv Date:	950104
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	MAD039322250

ULANO CORP (Continued) **1000123536**

TSDF ID:	MAD053452637
Waste Code:	F003 - UNKNOWN
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	INA1193807
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	960626
Trans1 Recv Date:	960626
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960701
Part A Recv Date:	Not reported
Part B Recv Date:	960729
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	IND000646943
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01250
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	025
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	96

Document ID:	NJA2747816
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	50059
Trans2 State ID:	Not reported
Generator Ship Date:	971208
Trans1 Recv Date:	971208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	971209
Part A Recv Date:	980123
Part B Recv Date:	980121
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	F005 - UNKNOWN
Quantity:	04200
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	084
Year:	97

ULANO CORP (Continued) **1000123536**

Document ID:	06
Manifest Status:	000594086FLE
Trans1 State ID:	NYD001725878
Trans2 State ID:	Not reported
Generator Ship Date:	IND000646943
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	OHD000646943
TSD Site Recv Date:	Not reported
Part A Recv Date:	PAD086214574
Part B Recv Date:	2006-12-13
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	12
Number of Containers:	DM
Container Type:	2500
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	D035
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NYG2790747
Trans1 State ID:	NYD001725878
Trans2 State ID:	Not reported
Generator Ship Date:	IND000646943
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	IND000646943
TSD Site Recv Date:	Not reported
Part A Recv Date:	PAD086214574
Part B Recv Date:	2006-06-14
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	12
Number of Containers:	DM
Container Type:	2500
Handling Method:	P
Specific Gravity:	1
Waste Code:	T
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported

ULANO CORP (Continued) **1000123536**

Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	NYG3925044
Manifest Status:	Not reported
Trans1 State ID:	081174S22
Trans2 State ID:	Not reported
Generator Ship Date:	06/16/2004
Trans1 Recv Date:	06/16/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/28/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD001725878
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	IND000646
Waste Code:	F003 - UNKNOWN
Quantity:	02600
Units:	P - Pounds
Number of Containers:	013
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	00.90
Year:	2004

Click this hyperlink while viewing on your computer to access
228 additional NY_MANIFEST: record(s) in the EDR Site Report.

SPILLS:

Facility ID:	9509566
DER Facility ID:	125110
Facility Type:	ER
Site ID:	146936
DEC Region:	2
Spill Date:	9/1/1995
Spill Number/Closed Date:	9509566 / 1/28/2005
Spill Cause:	Housekeeping
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	11/2/1995
CID:	216
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/2/1995

ULANO CORP (Continued) **1000123536**

Spill Record Last Update: 1/28/2005
Spiller Name: ED VALERIO
Spiller Company: ULANO CORPORATION
Spiller Address: 255 BUTLER ST
Spiller City,St,Zip: BROOKLYN, NY 11217-
Spiller Company: 001
Contact Name: ED VALERIO
Contact Phone: (718) 237-3023
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"7/6/04 - AUSTIN - TRANSFERRED FROM RENAULD WILSON FOR REASSIGNMENT - RELATED TO TTF/SITE CLEANUP UNDER #9713764? - END1/28/05 - AUSTIN - #9713764 IS DIFFENT ADDRESS - CLOSED OUT THIS SPILL AS HOUSEKEEPING REPORT DURING ROUTINE INSPECTION. - END
Remarks: DISCOVERED AS A RESULT OF ONGOING M2 P2 INVESTIGATION CONTAMINATED SOIL STOCK PILED

Material:
Site ID: 146936
Operable Unit ID: 1020082
Operable Unit: 01
Material ID: 360505
Material Code: 0041B
Material Name: TOLUOL
Case No.: 00108883
Material FA: Hazardous Material
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

CBS:
CBS Number: 2-000123
Program Type: CBS
Facility Status: Unregulated
Expiration Date: N/A
Dec Region: 2
UTMX: 587056.64830999
UTMY: 4503724.1834899

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198 WNW 1/4-1/2 0.315 mi. 1662 ft. | **CARLTON REHAB CENTER** | **LTANKS HIST AST NY Spills** | **U003389477 N/A**
405 CARLTON AVE
BROOKLYN, NY

Relative: Higher
Actual: 78 ft.

LTANKS:
Site ID: 206800
Spill Number/Closed Date: 0209163 / 6/6/2006
Spill Date: 12/6/2002
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

CARLTON REHAB CENTER (Continued) **U003389477**

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	kxgupta
Referred To:	Not reported
Reported to Dept:	12/6/2002
CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/6/2002
Spill Record Last Update:	6/6/2006
Spiller Name:	GARY LIEBERMAN
Spiller Company:	CARLTON NURSING HOME
Spiller Address:	405 CARLTON AV
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	GARY LIEBERMAN
Spiller Phone:	(718) 789-5241
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	171674
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE/DO"12/6/02 - AUSTIN, DDO - TTF LETTER WILL BE SENTADDRESS/FAX FOR GARY LIEBERMAN - 405 CARLTON AVE., BROOKLYN 11238 - (F) 718-789-22006/6/06 - Mike - Talked to Lieberman who faxed over info on a second test which passed on the tank. Upon questioning I do not think that there was any spill. Pro Test did not mention any signs of contamination, believe this spill can be closed.
Remarks:	Not reported

Material:

Site ID:	206800
Operable Unit ID:	860598
Operable Unit:	01
Material ID:	516142
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	206800
Spill Tank Test:	1527792
Tank Number:	1
Tank Size:	4500
Test Method:	03
Leak Rate:	0

CARLTON REHAB CENTER (Continued) **U003389477**

Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

HIST AST:

PBS Number:	2-318906
SWIS Code:	6101
Operator:	EISMOKE ADM
Facility Phone:	(718) 789-6262
Facility Addr2:	405 CARLTON AVE
Facility Type:	OTHER
Emergency:	L. CORTES
Emergency Tel:	(718) 789-3469
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CARLTON NURSING HOME INC.
Owner Address:	405 CARLTON AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11238
Federal ID:	Not reported
Owner Tel:	(718) 789-6262
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	E. SMOKE
Mailing Name:	CARLTON NURSING HOME INC.
Mailing Address:	405 CARLTON AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11238
Mailing Telephone:	(718) 789-6262
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	10/23/1996
Expiration:	01/13/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	4500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported

CARLTON REHAB CENTER (Continued) **U003389477**

Capacity (Gal):	4500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Diking
Leak Detection:	00
Overfill Protection:	46
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

SPILLS:

Facility ID:	0912601
DER Facility ID:	171674
Facility Type:	ER
Site ID:	425502
DEC Region:	2
Spill Date:	3/3/2010
Spill Number/Closed Date:	0912601 / 6/14/2010
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	3/3/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/3/2010
Spill Record Last Update:	6/14/2010
Spiller Name:	Not reported
Spiller Company:	PETRO
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	KENNY BECHT

CARLTON REHAB CENTER (Continued) **U003389477**

Contact Phone: (718) 628-3343
DEC Memo: 03/03/10- Zhune spoke to Diane from Petro. She said I told not to contact me call Benny 718-789-6262. 03/03/10- Zhune spoke to Scott from Petro. He said they called Petro for sevice after driver left they noticed spill in the tank room. The fill line which is under the sidewalk broke. spill is aproximatelly 20 gallons in the tank room in the basement. Floor is cement floor.Petro contained the spill with speedy-dry. They will removed the oil with the speedy dry and put it in bags. As per Benny there is not vapors in the buildings. No vapors in first floor The Environmental cleanup company will come tomorrow to continue with the cleanup.Administrator-ary Liberman 718-789-626203/3/10. Hassan responded. 6/14/2010- DEC Piper received closure report. No cracks or drains affected. Six yards of debris and speedy dry were removed. Borings through floor were non detect. Area powerwashed and vaccuumed. Closed. See edocs if warranted.
Remarks: unknown amount spill - cleanup pending - on concrete - also contact owner of building - BENNY - (718)789-6262 IN REGARDS TO GET INFO FOR PROPERTY

Material:
Site ID: 425502
Operable Unit ID: 1181220
Operable Unit: 01
Material ID: 2175289
Material Code: 0002A
Material Name: #4 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

Facility ID: 0912868
DER Facility ID: 171674
Facility Type: ER
Site ID: 425781
DEC Region: 2
Spill Date: 3/11/2010
Spill Number/Closed Date: 0912868 / 3/11/2010
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 3/11/2010
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False

CARLTON REHAB CENTER (Continued) **U003389477**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/11/2010
Spill Record Last Update:	3/11/2010
Spiller Name:	RENEE LEWIS
Spiller Company:	CARLTON NURSING HOME
Spiller Address:	405 CARLTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	RENEE LEWIS
Contact Phone:	(917) 299-9302
DEC Memo:	See spill 0912601Discovered tank is leaking and will be pumped. Consolidated to other spill occuruing on 3/3/10.
Remarks:	interior; contained. clean up pending.

Material:

Site ID:	425781
Operable Unit ID:	1181491
Operable Unit:	01
Material ID:	2175603
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1011048
DER Facility ID:	171674
Facility Type:	ER
Site ID:	444671
DEC Region:	2
Spill Date:	1/31/2011
Spill Number/Closed Date:	1011048 / 2/18/2011
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2/1/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

CARLTON REHAB CENTER (Continued) **U003389477**

Remediation Phase:	0
Date Entered In Computer:	2/1/2011
Spill Record Last Update:	6/29/2011
Spiller Name:	BENJAMIN RAMOS
Spiller Company:	CARLTON REHAB CENTER
Spiller Address:	405 CARLTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	BENJAMIN RAMOS
Contact Phone:	(718) 789-6262
DEC Memo:	DEC Piper spoke with PAul at Milro. Milro was kicked off job. They were called in to due to oil water seeping in though wall where fill enters building. The tank room is filled with unknown amount of oil and water. Petro said they were going to take care of it and it was less than 3 gal of oil though it doesnt explain why water is present. The story is awkward. DEC Zhune to respond.02/01/11-Zhune responded to this site. Spoke to Benjamin Ramos 718-789-6262(Maintenance) and Gary Liebermen (Administrator) The fill line is leaking inside the builging in a former tank room. Aproximatelly 3 gallons of # 2 fuel oil on the concrete floor of the former tank room. There is a sump in this room but is closed. Spill is under contol. Petro is going to replace the line and clean the spill. 02/18/11 Gary Lieberman Administrator from New Carlton Rehabilitation Nursing Center sent the following e-mail: This is to verify our phone communication this morning. The Oil spill that we spoke about earlier today was immediately cleaned up. It was not a lot of oil and there was no seepage into the ground. The corroded pipe from the street that caused this small spill was replaced by our oil company (Petro). It was Petro who responded immediately to our call and performed the clean up. Spill Closed.
Remarks:	Fuel Oil spill due to leaky a leaky pipie. Filled bt petro yesterday. Unknown amt spilled and recovered.

Material:

Site ID:	444671
Operable Unit ID:	1195116
Operable Unit:	01
Material ID:	2191110
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	444671
Operable Unit ID:	1195116
Operable Unit:	01
Material ID:	2191109
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No

CARLTON REHAB CENTER (Continued) **U003389477**

Resource Affected: Not reported
Oxygenate: False

Tank Test:

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199 ENE 1/4-1/2 0.316 mi. 1670 ft.

PS 56 SCHOOL
170 GATES AVE
BROOKLYN, NY

LTANKS **S104516259**
NY Spills **N/A**

Relative: Lower

Actual: 69 ft.

LTANKS:

Site ID:	267891
Spill Number/Closed Date:	9911611 / 2/15/2000
Spill Date:	1/5/2000
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	1/5/2000
CID:	282
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/5/2000
Spill Record Last Update:	2/15/2000
Spiller Name:	TIM GEORGE
Spiller Company:	PS 56 SCHOOL
Spiller Address:	170 GATES AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	TIM GEORGE
Spiller Phone:	(718) 391-6570
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	218240
DEC Memo:	Not reported
Remarks:	THEY HAVE 5 GALLONS OF A UNKNOWN OIL SITTING ON TOP OF 200 GALLONS OF OIL.CON ED#129847

Material:

Site ID:	267891
Operable Unit ID:	1090311
Operable Unit:	01
Material ID:	555919
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported

PS 56 SCHOOL (Continued) **S104516259**

Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	0910560
DER Facility ID:	218240
Facility Type:	ER
Site ID:	423321
DEC Region:	2
Spill Date:	12/27/2009
Spill Number/Closed Date:	0910560 / 3/10/2011
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	12/27/2009
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/27/2009
Spill Record Last Update:	3/10/2011
Spiller Name:	MATTHEW CARROLL
Spiller Company:	NYC SCHOOL CONSTRUCTION AUTH
Spiller Address:	170 GATES AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	MATTHEW CARROLL
Contact Phone:	(212) 675-3225
DEC Memo:	Flem Lee Shue,646-841-3100. Matthew Carroll.Custodian noticed drip from temp boiler. Turned off line, Speedy dry placed down. Spill to concrete. Borings will be conducted.DEC Piper recieved letter report. Spill has been partially cleaned. A cracked filter on the temp burner located in a trailer was the cause. It spilled to the trailer and dripped onto pavers. Three was also an uncovered 5 gal pail of oil next to tank that was displaced by rainwater. Speedy dry was placed down and picked up.5/17/10= DEC Piper spoke with DREW PArdus. Additional work has been comleted though soil samples were never taken. Drew will schedule sampling and notify me.3/10/11- DECPiper received closure request. Soil samples revealed VOC's below tagm and

PS 56 SCHOOL (Continued) **S104516259**

SVOCs slightly above. The SVOC were consistent troughout and believe to be derived from urban fill. Based on work to date, this spill is closed. see edocs if warranted.

Remarks: Caller reporting a spill of approx 20 galoons of #2 fuel to concrete, possibly soil. Clean up pending.

Material:

Site ID:	423321
Operable Unit ID:	1179134
Operable Unit:	01
Material ID:	2172707
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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200 SE 1/4-1/2 0.321 mi. 1697 ft. | **990 ATLANTIC AVE 990 ATLANTIC AVE BROOKLYN, NY** | **LTANKS** | **S100494512 N/A**

Relative: Higher

Actual: 83 ft.

LTANKS:

Site ID:	167865
Spill Number/Closed Date:	9210824 / 12/18/1992
Spill Date:	12/17/1992
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	12/18/1992
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	12/18/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/22/1992
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001

990 ATLANTIC AVE (Continued) **S100494512**

Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	141424
DEC Memo:	Not reported
Remarks:	VAVLE NIPPLE ON A/G 275 ROTTED OUT-OIL LEAKED TO CONCRETE FLOOR -SVCMNPUT VAC ON TANK AND REPLACED FITTINGS AND VAVLE APPLIED SPEEDI-DRI P/UDISPOSED

Material:

Site ID:	167865
Operable Unit ID:	977460
Operable Unit:	01
Material ID:	404264
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

201
South
1/4-1/2
0.351 mi.
1853 ft.

276 ST MARKS AVE/N Y TEL **LTANKS** **S100177507**
276 ST. MARK'S AVENUE **NY Spills** **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
103 ft.

LTANKS:

Site ID:	94412
Spill Number/Closed Date:	9110236 / 4/28/2000
Spill Date:	12/30/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	12/30/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/8/1992
Spill Record Last Update:	4/28/2000

276 ST MARKS AVE/N Y TEL (Continued) **S100177507**

Spiller Name:	Not reported
Spiller Company:	NY TEL
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	188457
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"SEE FILE
Remarks:	3K PETROTYTE GROSS; REPAIR & RETEST

Material:

Site ID:	94412
Operable Unit ID:	963840
Operable Unit:	01
Material ID:	418789
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	94412
Spill Tank Test:	1539476
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	0230015
DER Facility ID:	188457
Facility Type:	ER
Site ID:	228478
DEC Region:	2
Spill Date:	12/25/1995
Spill Number/Closed Date:	0230015 / 5/2/2000
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	6/25/2002

276 ST MARKS AVE/N Y TEL (Continued) **S100177507**

CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/25/2002
Spill Record Last Update:	6/25/2002
Spiller Name:	JOHN QUATRALE
Spiller Company:	VERIZON
Spiller Address:	221 E. 37TH STR
Spiller City,St,Zip:	MANHATTAN, NY -
Spiller Company:	001
Contact Name:	JOHN QUATRALE
Contact Phone:	(212) 338-7141
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"SPILL OPENED FOR FILING PURPOSES. MINOR SOIL CONTAMINATION IDENTIFIED FROM SAMPLE RESULTS
Remarks:	MINOR SOIL CONTAMINATION DISCOVERED DURING TANK CLOSURE.

Material:

Site ID:	228478
Operable Unit ID:	866804
Operable Unit:	01
Material ID:	509654
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

202
SE
1/4-1/2
0.351 mi.
1855 ft.

GRAND RECYCLING CORP. **SWF/LF** **S105234982**
535 GRAND AVE. **NY Spills** **N/A**
BROOKLYN, NY 11238

Relative:
Higher

Actual:
92 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7182591851
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported

GRAND RECYCLING CORP. (Continued) **S105234982**

Owner Phone:	Not reported
Contact Name:	DANIEL F. TODISCO; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T84]
Active:	No
East Coordinate:	587600
North Coordinate:	4503700
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6103-00101
Authorization Date:	Not reported
Expiration Date:	Not reported

SPILLS:

Facility ID:	0108870
DER Facility ID:	127371
Facility Type:	ER
Site ID:	149766
DEC Region:	2
Spill Date:	12/4/2001
Spill Number/Closed Date:	0108870 / 5/1/2002
Spill Cause:	Abandoned Drums
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	EXROSSAN
Referred To:	Not reported
Reported to Dept:	12/5/2001
CID:	233
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/5/2001
Spill Record Last Update:	5/9/2002
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	UNK
Spiller City,St,Zip:	UNK, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROSSAN/VOUGHT"No drum found. Spill closed.
Remarks:	1 ABANDONED 55 GAL DRUM DRUM DOES NOT APPEAR TYO BE LEAKING CALL BACK REQ

GRAND RECYCLING CORP. (Continued) **S105234982**

Material:

Site ID:	149766
Operable Unit ID:	847183
Operable Unit:	01
Material ID:	530080
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

---

203 South 1/4-1/2 0.353 mi. 1862 ft. | **WEATHER FUEL COMPANY** | **LTANKS** | **S102662866**
UNDERHILL + ST MARKS AVE | **N/A**
BROOKLYN, NY

Relative: Higher

Actual: 106 ft.

LTANKS:

Site ID:	254389
Spill Number/Closed Date:	9613753 / 6/4/1997
Spill Date:	2/24/1997
Spill Cause:	Tank Overfill
Spill Source:	Tank Truck
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	2/24/1997
CID:	351
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/24/1997
Spill Record Last Update:	6/4/1997
Spiller Name:	ALLEN WEINTRAUB
Spiller Company:	WEATHER FUEL COMPANY
Spiller Address:	802 JAMAICA AVENUE
Spiller City,St,Zip:	BROOKLYN, NY 11208-
Spiller County:	001
Spiller Contact:	CHARLES LEHEY
Spiller Phone:	(718) 647-1500
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	208368

WEATHER FUEL COMPANY (Continued) **S102662866**

DEC Memo: Not reported
Remarks: OVERFILLED TANK ON TRUCK - OIL CAME OUT THE DOME - SPILL CREW ENROUTE

Material:
Site ID: 254389
Operable Unit ID: 1041322
Operable Unit: 01
Material ID: 338859
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 50
Units: Gallons
Recovered: 50
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

204 SSE 1/4-1/2 0.358 mi. 1891 ft. | **BERGEN STREET USED PARTS INC** | **SWF/LF** | **S108145708**
762-765 BERGEN STREET | **N/A**
BROOKLYN, NY 11238

Relative: Higher

Actual: 104 ft.

SWF/LF:
Flag: ACTIVE
Region Code: 2
Phone Number: 7183981573
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Vehicle Dismantling
Activity Number: Not reported
Active: Yes
East Coordinate: 587654
North Coordinate: 4503537
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: Not reported

205 ESE 1/4-1/2 0.361 mi. 1904 ft. | **COMMERCIAL SITE - TTF 967 ATLANITC AVE BROOKLYN, NY** | **LTANKS** | **S111012256 N/A**

Relative: Higher

Actual: 80 ft.

LTANKS:

Site ID:	447864
Spill Number/Closed Date:	1100459 / 4/4/2013
Spill Date:	4/12/2011
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	4/13/2011
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/13/2011
Spill Record Last Update:	4/4/2013
Spiller Name:	JADE ENVIRONMENTAL
Spiller Company:	JADE ENVIRONMENTAL
Spiller Address:	967 ATLANITC AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	999
Spiller Contact:	JADE ENVIRONMENTAL
Spiller Phone:	(845) 897-2188
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	402454
DEC Memo:	8/15/2012 TTF Spill Case transferred to DEC Tim DeMeo.12/27/2012 - Sangesland spoke to Charlie from Environmental Business Co. Problem was with a 550 gal buried waste oil tank. Property was being sold, buyer ran a tank test and it failed. Later RP did a Phase 2 soil borings around the tank and they were clean.Another company did Another Phase 2 soil borings around the tank again and they also came up clean. Charlie from Environmental Business Co. will send an e-mail to DeMeo showing all the data and requesting a closure1/16/13 TJDFile review. Property owner is requesting closure of spill originally reported as a tank test failure associated with a 550 UST - currently storing waste oil at a vehicle repair facility. Owner of the property has performed a subsurface investigation as part of a planned redevelopment (mixed use - commercial/residential) of this property. Laboratory results of collected samples reveal exceedances to RSCO for SVOC's and metals in several samples. UST which failed tightness testing remains at site - it is unclear if the tank is in service based upon the documentation submitted. Owner's consultant current proposal includes request for spill closure followed by removal and managemnent of contaminated soils during redevelopment activities at this site and an unspecified later date. Consultant further

COMMERCIAL SITE - TTF (Continued) **S111012256**

recommends to owner that in lieu of the potentially costly tasks of conducting a required site assesment in accordance with applicable DEC regulations the tank should be removed and replaced with an aboveground tank. Owner of property has failed to provide DEC with passing tightness test associated with UST. Additionally, the owner's consultant recommends removal of contaminated soils identified during sub-surface investigation and removal of UST following the closure of open spill file. Based upon documentation submitted spill is not currently elidgible for closure.4/4/13 TJDFile review. In April 2011 Prestige Environmental performed (3) borings around in service 550 UST (Waste Oil) - no VOC's or SVOC's were identified which exceed RSCO, however tank had previously been tightness tested and failed (gross failure). In November 2012, Environmental Business Consultants (EBC) performed a second round of sampling (2 borings) around the in service waste oil tank with similar findings - no RSCO exceedances. A closure request was submitted to DEC - as the tank remains in service DEC required a second tightness test as the initial test performed on 4/12/11 failed. A second attempt at testing UST failed on 2/7/13, reported that vent pipe could not be located or isolated to perform test. The owner proceeded with a tank abandonment on 2/21/13 at which time (2) holes were cut in tank bottom following the removal of 400 gallons of product/sludge. Soil samples were then collected from directly beneath tank for laboratory analysis - all target analytes are reported below CP-51 and Part 375 allowable concentrations. An affadavid of proper abandonment has been provided by EBC as part of closure report dated 3/7/13. Based upon above investigation the reported spill associated with 550 waste oil tank is closed. All other environmental conditions identified during previous investigations, primarily consisting of minor elevated concentrations of SVOC's and metals attributed by current and previous consultants, are to be properly managed during redevelopment of property in coordination with and under direct oversight of NYC Office of Environmental Remediation. No further action is required at this time.
Not reported

Remarks: Caller reporting a tank test failure.

Material:

Site ID:	447864
Operable Unit ID:	1198108
Operable Unit:	01
Material ID:	2194355
Material Code:	0021
Material Name:	Transmission Fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

206 WNW 1/4-1/2 0.398 mi. 2100 ft. | **ALLIANCE OF RESIDENT THEATRICS/NEW YORK**
138 SOUTH OXFORD STREET
BROOKLYN, NY 11217 | **LTANKS UST HIST UST** | **U003740152 N/A**

Relative: Lower

Actual: 69 ft.

LTANKS:

Site ID:	110213
Spill Number/Closed Date:	9909509 / 1/28/2005
Spill Date:	11/4/1999
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	11/4/1999
CID:	252
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/4/1999
Spill Record Last Update:	1/28/2005
Spiller Name:	UNK
Spiller Company:	VISITING NURSE ASSOC
Spiller Address:	138 SOUTH OXFORD ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	UNK
Spiller Phone:	(718) 230-6916
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	96625
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"5/18/04 - AUSTIN - TRANSFERRED FROM TOMASELLO FOR REASSIGNMENT - END1/28/05 - AUSTIN - NO CONTAM. FOUND BY TESTER - CLOSED - END
Remarks:	NO CONTAMINATION WAS DISCOVERED. REPAIRS ON PIPE WORK AND RE-TEST.

Material:

Site ID:	110213
Operable Unit ID:	1088200
Operable Unit:	01
Material ID:	298592
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

Tank Test:

Site ID:	110213
Spill Tank Test:	1547815
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

UST:

Id/Status:	2-604393 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	586789.05110000004
UTM Y:	4504276.3874500003
Site Type:	Other

Affiliation Records:

Site Id:	26267
Affiliation Type:	Facility Owner
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	575 EIGHTH AVENUE, SUITE 17 S
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10018-3011
Country Code:	001
Phone:	(212) 244-6667
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26267
Affiliation Type:	Mail Contact
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	JERRY HOMAN
Address1:	138 SOUTH OXFORD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 398-3078
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

Site Id:	26267
Affiliation Type:	On-Site Operator
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	JERRY HOMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 398-3078
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26267
Affiliation Type:	Emergency Contact
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	JERRY HOMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 398-3078
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	57567
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	3000
Install Date:	Not reported
Date Tank Closed:	08/14/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

HIST UST:

PBS Number:	2-604393
SPDES Number:	Not reported
Emergency Contact:	JERRY HOMAN
Emergency Telephone:	(718) 636-9624
Operator:	JERRY HOMAN
Operator Telephone:	(718) 398-3078
Owner Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Owner Address:	575 EIGHTH AVENUE, SUITE 17 S
Owner City,St,Zip:	NEW YORK, NY 10018-3011
Owner Telephone:	(212) 244-6667
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Mailing Address:	138 SOUTH OXFORD STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11217
Mailing Contact:	JERRY HOMAN
Mailing Telephone:	(718) 398-3078
Owner Mark:	Second Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	09/08/2000
Expiration Date:	09/08/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	12/27/1987
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AQ207 **APT BUILDING - TTF** **LTANKS** **S112231242**
South **307 PROSPECT PLACE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.410 mi.
2167 ft. **Site 1 of 2 in cluster AQ**

Relative:
Higher

Actual:
111 ft.

LTANKS:

Site ID:	469296
Spill Number/Closed Date:	1206302 / Not Reported
Spill Date:	9/26/2012
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	9/26/2012
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	9/26/2012
Spill Record Last Update:	12/19/2012
Spiller Name:	Not reported
Spiller Company:	TANK TEST FAILURE
Spiller Address:	Not reported

APT BUILDING - TTF (Continued) **S112231242**

Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	JIM MARTIN
Spiller Phone:	(646)2799509
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	423595
DEC Memo:	12/19/12 AFrischeisenTTF sent and upped to eDocs.
Remarks:	repair/retest pending

Material:

Site ID:	469296
Operable Unit ID:	1219190
Operable Unit:	01
Material ID:	2217669
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

208
SSW
1/4-1/2
0.414 mi.
2188 ft.

651 VANDERBILT AVE/BKLYN **LTANKS** **S106703194**
651 VANDERBILT AVE **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
105 ft.

LTANKS:

Site ID:	209238
Spill Number/Closed Date:	8710118 / 11/5/1993
Spill Date:	3/2/1988
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	11/5/1993
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	3/2/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/16/1988
Spill Record Last Update:	11/18/2003

651 VANDERBILT AVE/BKLYN (Continued) **S106703194**

Spiller Name:	Not reported
Spiller Company:	STEVE HYATT
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	173514
DEC Memo:	Not reported
Remarks:	15K TANK FAILED WITH A LEAK RATE OF -.293GPH, WILL EXCAVATE, ISOLATE AND RETEST.

Material:

Site ID:	209238
Operable Unit ID:	915048
Operable Unit:	01
Material ID:	461902
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	209238
Spill Tank Test:	1533358
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

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209 ESE 1/4-1/2 0.415 mi. 2190 ft. | **SPILL NUMBER 0204332** | **LTANKS** | **S105996351**
130 LEFFERTS PLACE | **NY Spills** | **N/A**
BROOKLYN, NY

Relative: Lower

Actual: 75 ft.

LTANKS:

Site ID:	291138
Spill Number/Closed Date:	0204332 / 12/23/2003
Spill Date:	7/25/2002
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported

SPILL NUMBER 0204332 (Continued) **S105996351**

Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	7/25/2002
CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/25/2002
Spill Record Last Update:	12/23/2003
Spiller Name:	MILLER BENRES
Spiller Company:	Not reported
Spiller Address:	130 LEFFERTS PL
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	MILLER BENRES
Spiller Phone:	(718) 398-8330
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242876
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"7/29/2002 ttf letter sent, dry leak as per the tank tester12/23/03 MT//DOCUMENTATION RECIEVED ///NFA
Remarks:	RECOMMEND TANK CLEANING AND PRESSURE TEST LINES

Material:

Site ID:	291138
Operable Unit ID:	857137
Operable Unit:	01
Material ID:	518586
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	291138
Spill Tank Test:	1527313
Tank Number:	001
Tank Size:	10000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

SPILL NUMBER 0204332 (Continued) **S105996351**

SPILLS:

Facility ID:	0204539
DER Facility ID:	29662
Facility Type:	ER
Site ID:	300250
DEC Region:	2
Spill Date:	7/30/2002
Spill Number/Closed Date:	0204539 / 10/19/2010
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	7/30/2002
CID:	281
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/30/2002
Spill Record Last Update:	10/19/2010
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NN
Spiller Company:	999
Contact Name:	UNKNOWN
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"1/6/04-Vought-Spill transferred from Vought to Austin.01/27/04 - Sawyer - Spill transferred from Austin to Sawyer.Transferred to CO for review - DJEATON03/29/06 Recommended next: Visit site, investigate.3/30/07 - Austin - Trasferred to Patel for further review - end06/17/09 Letter asking spill clean up documents was sent toWAVECREST MANGEMENT87-14 116th StreetRichmond, NY 11418Attn: Vanessa Peterson(sr)07/10/09 Performed site visit on 07/08/09.UST in the backyard. Tightness testing due. Tightness testing failed in 2002.I spoke with Vanessa Peterson from Wavecrest Management and June 17th letter was resent to her via certified mail no 7000 1670 0006 5555 3158.Subsurface investigation needed around the tank.(sr)01/06/10 Reminder letter was sent out to Lefferts Heights HDFC IncC/O: Wavecrest Management Team CERTIFIED MAIL- 7000 1670 0004 5983 392087-14 116th StreetRichmond, New York 11418Attn: Vanessa Peterson(sr)09/27/10 Rec'd tightness testing result from Protest that indicates the tank passed the test performed in July 31,2009.Protest was informed by the building super that the suction/return line was replaced and contamination was removed.Protest did not perform the line replacement and not aware about the company who performed the job.Left a messege for Wavecrest Management(Vanessa Peterson).(sr)10/19/10 Closure documentation in edocs.Case closed.(sr)

SPILL NUMBER 0204332 (Continued) **S105996351**

Remarks: CALLER STATES THAT TANK AT ABOVE LOCATION IS LEAKING. CALLER BELIEVES THAT THIS SITUATION HAS BEEN GOING ON FOR OVER A YEAR.

Material:

Site ID:	300250
Operable Unit ID:	857304
Operable Unit:	01
Material ID:	518786
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AQ210 **316 PROSPECT PLACE/BKLYN** **LTANKS** **S100166787**
South **316 PROSPECT PLACE** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.416 mi.
2195 ft. **Site 2 of 2 in cluster AQ**

Relative:
Higher

Actual:
113 ft.

LTANKS:

Site ID:	307949
Spill Number/Closed Date:	8912288 / 3/28/1990
Spill Date:	3/26/1990
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	3/28/1990
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	3/27/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/2/1990
Spill Record Last Update:	5/9/1990
Spiller Name:	Not reported
Spiller Company:	316 PROSPECT AVENUE
Spiller Address:	316 PROSPECT AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2

316 PROSPECT PLACE/BKLYN (Continued) **S100166787**

DER Facility ID: 248705
DEC Memo: Not reported
Remarks: CUSTOMER CALLED WITH NO HEAT, SERVICEMAN FOUND (2) 275 GALLON TANKS INBASEMENT ON A CONCRETE FLOOR, FOUND ONE TANK LEAKING, APPLIED SPEEDY DRY, WILL PICK UP & DISPOSE.

Material:
Site ID: 307949
Operable Unit ID: 937985
Operable Unit: 01
Material ID: 441759
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

211 North 1/4-1/2 0.420 mi. 2217 ft. | **APARTMENT BUILDING**
21 SAINT JAMES PLACE
BROOKLYN, NY | **LTANKS** **NY Spills** | **S107417189** **N/A**

Relative: Lower

Actual: 76 ft.

LTANKS:
Site ID: 355043
Spill Number/Closed Date: 0509286 / 6/7/2006
Spill Date: 11/2/2005
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: rmpiper
Referred To: Not reported
Reported to Dept: 11/2/2005
CID: 408
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 11/2/2005
Spill Record Last Update: 6/7/2006
Spiller Name: JERRY WILLIAMS
Spiller Company: APARTMENT BUILDING
Spiller Address: 21 SAINT JAMES PLACE
Spiller City,St,Zip: BROOKLYN, NY

APARTMENT BUILDING (Continued) **S107417189**

Spiller County:	001
Spiller Contact:	JERRY WILLIAMS
Spiller Phone:	(718) 367-9800
Spiller Extention:	204
DEC Region:	2
DER Facility ID:	305044
DEC Memo:	Nov. 7, 2005A "Tank Test Failure Letter" was sent to:J.S. RiveraSt. James Towers Inc.21 St. James PlaceBrooklyn, NY 1120505/17/06-Vought-Spill transferred from DEC Vought to DEC Piper as per DEC Austin.6/7/06- DEC Piper reviewed documentation of repairs to tank and system. Repairs were made 4/20/06 and retest. The tank passed thereafter. This was a dry ullage leak in the manway and vent line fitting. This case is closed. See E-docs if warranted.
Remarks:	Not reported

Material:

Site ID:	355043
Operable Unit ID:	1112414
Operable Unit:	01
Material ID:	2102459
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	9712782
DER Facility ID:	305044
Facility Type:	ER
Site ID:	229561
DEC Region:	2
Spill Date:	2/16/1998
Spill Number/Closed Date:	9712782 / 3/3/2003
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	2/16/1998
CID:	370
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

APARTMENT BUILDING (Continued) **S107417189**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/16/1998
Spill Record Last Update:	3/3/2003
Spiller Name:	ABOVE CALLER
Spiller Company:	Not reported
Spiller Address:	21 ST JAMES PL
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	ABOVE CALLER
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	oil and water returning to tank poss tank leak unk at this time on further investigationchris tomasello notified @17:15

Material:

Site ID:	229561
Operable Unit ID:	1059007
Operable Unit:	01
Material ID:	327371
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

212
WSW
1/4-1/2
0.421 mi.
2221 ft.

DEPARTMENT HPD
516 BERGEN STREET
BROOKLYN, NY

LTANKS **S105135592**
N/A

Relative:
Lower

Actual:
65 ft.

LTANKS:

Site ID:	249040
Spill Number/Closed Date:	0106869 / 10/25/2005
Spill Date:	10/2/2001
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	DJEATON
Referred To:	Not reported
Reported to Dept:	10/2/2001
CID:	282
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

DEPARTMENT HPD (Continued) **S105135592**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/2/2001
Spill Record Last Update:	10/25/2005
Spiller Name:	SAME
Spiller Company:	DEPARTMENT HPD
Spiller Address:	516 BERGEN STREET
Spiller City,St,Zip:	BROOKLYN, NY 11238-
Spiller County:	001
Spiller Contact:	LOUIS CASANOVA
Spiller Phone:	(212) 837-8372
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	204214
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"10/3/03 tipple sent letter requesting documentation3/1/04 TIPPLE SPOKE WITH HPD REP. BORINGS TO reveal subsurface conditions//if clean and tank registered for abandonment...nfa to follow///10/21/05 Second submission of spill closure request received and reviewed by Eaton in Albany. First submission received 09/04.10/25/05 Eaton spoke with Stephen Arthur of TDX Construction, the contract manager, to clarify discrepencies in the request. The original tank had failed tank tightness test in October of 2001. In March of 2003 a new 1500 gallon underground storage tank and associated plumbing were installed. The old 1500 gallon above ground storage tank was cleaned, purged, and removed. PBS number 2-601145.10/25/05 Spill closed. DE
Remarks:	TANK FAILED THE TEST

Material:

Site ID:	249040
Operable Unit ID:	845083
Operable Unit:	01
Material ID:	531712
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	249040
Spill Tank Test:	1526648
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

213 WSW 1/4-1/2 0.425 mi. 2242 ft. | **ENGINE CO. 219/LADD. CO. 105 FDNY -DDC**
494 DEAN STREET
BROOKLYN, NY | **LTANKS** | **S105055050**
NY Spills | **N/A**

Relative: Lower

Actual: 57 ft.

LTANKS:

Site ID:	240961
Spill Number/Closed Date:	0102628 / 7/29/2011
Spill Date:	6/8/2001
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	NFA
Reported to Dept:	6/8/2001
CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/8/2001
Spill Record Last Update:	7/29/2011
Spiller Name:	TONY C
Spiller Company:	NYFD ENG 219
Spiller Address:	494 DEAN ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	TONY C
Spiller Phone:	(516) 938-5476
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	270534
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"There was a second spill number which was closed for this same event: See notes on spill #0109974Gregory Suhr of Fenley & Nicol said there was a gross failure of the Tank test. 600 gal in tank. Probably leaking to the soil.Tony Caggiano of Liro says tank will be pulled "soon"11-08-2005 The site was handled under DDC CO. J. Kolleeny was a PM for the site. This spill was under S. Sangesland name. See spill 9705043. AZ1-19-2006 There was a heating oil spill at the site which was never investigated. DDC refused to investigate the site under the existing contract but stated that the site will be investigated under the future contract. Site should be investigated as soon as new contract is in place. AZ4-11-2006 The site was reclassified as P0 as per Koon Tang request. AZ8-6-2010 Received SSIP prepared by LiRo on July 20, 2010. Discussed the site with S. Frank on 8-5-2010. Requested that 2 wells and 3 borings be installed around the tank. LiRo originally proposed 4 borings and 1 well. If soil is contaminated all borings should be converted into wells. The plan is approved. AZ8-10-2010 Received an e-mail from S. Frank (LiRo):"Alex,Thank you for your quick response to our SSIP submitted for the EC 219 heating oil tank spill. As we discussed during our

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

phone conversation on August 5th, LiRo will add at least one more monitoring well to the boring/well program. If field screening results indicate contamination at other locations, LiRo will install additional wells. LiRo understands that additional wells may be required if laboratory analytical results indicate elevated contaminant levels at locations that were expected to be clean based on field screening results. LiRo will collect a minimum of two soil samples at each location for laboratory analysis. Deep borings will be sampled at the high PID interval and at the water table. Please call or email back if you have any additional questions or concerns."AZ7-29-2011 Reviewed the Investigation Report dated January 7, 2011, and received on July 15, 2011. The following e-mail was sent to S. Frank/F. Ashkan/V. Brevdo:"I have reviewed the Investigation Report dated January 7, 2011, and received on July 15, 2011. The report stated that the spill report was filed when 3,000 gal heating oil UST failed the tightness testing. The tank was closed in place in 2002 but not replaced. DEC approved the SSIP for this site on August 5, 2010. LiRo finished the field work in October 2010. Only one well out of two wells planned could be installed due to difficult drilling conditions. Five soil borings were advanced. None of the collected soil samples exhibited contamination. Groundwater sample was collected and the analytical results for VOC/SVOC were non-detect.Based on the documentation provided to date, spill case 0102628 has been closed. All monitoring wells associated with this project should be closed according to the Department's "Groundwater Monitoring Well Decommissioning Procedures". The Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary due to:I. The off-site migration of petroleum contaminants that was not addressed by this evaluation.II. Environmental conditions related to the Site which were unknown to the Department at the time of this approval.III. Information received, in whole or in part, after the Department's spill case closure, which indicates that the corrective action was not sufficiently protective of human health for the reasonably anticipated use(s) of the site; of the site; or IV. Fraud in obtaining this approval for inactivation.Please be advised that you should maintain a permanent file of all documentation and correspondence regarding this case for future use. The Department's files regarding this release may not be maintained indefinitely." AZ

Remarks: DRY ULLAGE

Material:

Site ID:	240961
Operable Unit ID:	839316
Operable Unit:	01
Material ID:	534739
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

Tank Test:

Site ID:	240961
Spill Tank Test:	1526362
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

Site ID:	240962
Spill Number/Closed Date:	0109974 / 4/30/2004
Spill Date:	1/16/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	Not reported
Reported to Dept:	1/16/2002
CID:	397
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/16/2002
Spill Record Last Update:	12/20/2004
Spiller Name:	MCHALE ALISHILER
Spiller Company:	NYC FD STATION ENG 219
Spiller Address:	494 DEAN ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	MCHALE ALISHILER
Spiller Phone:	(718) 784-6568
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	270534
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"ACCORDING TO GREGORY SUHR OF FENLEY & NICOL, THIS WAS A GROSS TT FAILURE; TANK HAS ABOUT 600 GALLONS LEFT IN IT, AND PRODUCT IS VERY LIKELY LEAKING OUT INTO THE SOIL. TONY CAGGIANO OF LIRO TOLD SUHR "NOT TO WORRY ABOUT IT; LIRO IS PULLING AND REPLACING THE TANK NEXT WEEK." THE TANK IS USED TO PROVIDE HEAT AND TO POWER THE EMERGENCY GENERATOR.duplicate spill- ref to Spill #0102628
Remarks:	TANK TEST FAILURE

Material:

Site ID:	240962

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

Operable Unit ID:	847088
Operable Unit:	01
Material ID:	527610
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	240962
Spill Tank Test:	1526814
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

SPILLS:

Facility ID:	9705043
DER Facility ID:	270534
Facility Type:	ER
Site ID:	85985
DEC Region:	2
Spill Date:	7/28/1997
Spill Number/Closed Date:	9705043 / 1/14/2005
Spill Cause:	Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	7/28/1997
CID:	351
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/28/1997
Spill Record Last Update:	1/14/2005
Spiller Name:	TONY MARINO
Spiller Company:	NYC
Spiller Address:	Not reported

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	NYC DEPT OF DESIGN & CONS
Contact Phone:	(718) 391-1062
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"The spill is referred to spill # 0102628 and is closed in consultation with Alex and JK. - II (01/14/05).
Remarks:	CALLER RECEIVED ANALYTICAL RESULTS FROM SOIL SAMPLES TAKEN AT SITE AND THE RESULTS INDICATE CONTAMINATION

Material:

Site ID:	85985
Operable Unit ID:	1050919
Operable Unit:	01
Material ID:	334268
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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214 SW 1/4-1/2 0.433 mi. 2284 ft. | **PHOENIX HOUSE** | **LTANKS** | **S108639453**
174 PROSPECT PLACE | **N/A**
BROOKLYN, NY

Relative: Higher

Actual: 96 ft.

LTANKS:

Site ID:	380404
Spill Number/Closed Date:	0701000 / Not Reported
Spill Date:	4/24/2007
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	VXBREVDO
Referred To:	Not reported
Reported to Dept:	4/24/2007
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	4/24/2007
Spill Record Last Update:	7/16/2013
Spiller Name:	CHRIS JENKINS

PHOENIX HOUSE (Continued) **S108639453**

Spiller Company:	BUILDING
Spiller Address:	174 PROSPECT PLACE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	CHRIS JENKINS
Spiller Phone:	(718) 726-8484
Spiller Extention:	3411
DEC Region:	2
DER Facility ID:	329861
DEC Memo:	4/27/07 sent ttf letter to:Christopher JenkinsPhoenix House34-14 9th St.Astoria, NY 111064/6/10 bf: Sent ttf letter to:Keith GurnickPhoenix House164 W. 74th St.New York, NY 100233/4/13 bf: Sent ttf letter to:Phoenix House164 West 74th StreetNew York, NY 100234/5/13 Received response to ttf letter on 3/25/13. Tank failed at manhole neck. No contamination found. Tank passed ttt 10/2/12. However, gw determination did not meet Department requirements since the report did not state that gw was determined in excavation backfill. Sent ttr letter (see PBS file). Spill case is pending a satisfactory ttt report. bf5/6/13 Sent e-mail to Christopher Jenkins cjenkins@phoenixhouse.org. Requested response to tt return letter and renewal of PBS registration. bf07/16/13 - Spill Case is transferred from Brian Falvey (PBS Unit) to V. Brevdo (Section B) as per DER Region 2 decision - Tank Test Failure Spill Case. VB
Remarks:	Not reported

Material:

Site ID:	380404
Operable Unit ID:	1137886
Operable Unit:	01
Material ID:	2127839
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	380404
Spill Tank Test:	1550784
Tank Number:	1
Tank Size:	1500
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	4/24/2007
Test Method:	Horner EZ Check I or II

215 SW 1/4-1/2 0.446 mi. 2356 ft. | **SMITH RESIDENCE**
99 ST MARKS AVE
BROOKLYN, NY | **LTANKS** | **S106971444**
N/A

Relative: Lower

Actual: 75 ft.

LTANKS:

Site ID:	332977
Spill Number/Closed Date:	0408289 / 12/20/2004
Spill Date:	10/27/2004
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	10/27/2004
CID:	444
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/27/2004
Spill Record Last Update:	12/20/2004
Spiller Name:	MRS SMITH
Spiller Company:	SMITH RESIDENCE
Spiller Address:	99 ST MARKS AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	MRS SMITH
Spiller Phone:	(718) 638-5901
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	268202
DEC Memo:	10/27/04. S. Sagesland attempted to contact Mrs. Smith over the phone several times. However, the phone is busy.10/28/04. J.Krimgold spoke to Petro Oil (Karen)@ (516)686-2027. She stated that the castomer complaint about no oil in the tank just a few days after delivery.12/20/04. J.Krimgold attempted to contact the RP (Mrs. Smith). However, the phone is busy.J.Krimgold spoke to Petro Oil. According to their records a new AST was installed at this site on 11/26/04. No info regarding the old tank.J.Krimgold spoke with Mr. Ralph Litao (Trade Service) 917-881-5554. He stated that his co. excavated the top of the tank, pumped out about 450 gal of oil and then closed the tank in-place by filling it with concrete slurry after cleaning up the tank. The tank appear to be in a good condition with no apparent holes or bad seams. The problem was with a gloged product line. Mrs. Smith assumed that oil is not comming to the boiler because there are no product in the tank and that product was leaked out. NFA.
Remarks:	HOLES IN TANK, PETRO OIL ON SCENE:

Material:

Site ID:	332977
Operable Unit ID:	1095175

SMITH RESIDENCE (Continued) **S106971444**

Operable Unit:	01
Material ID:	575313
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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216 WSW 1/4-1/2 0.450 mi. 2376 ft. **PETER F REILLY STORAGE INC** **LTANKS** **U001832434**
491 BERGEN ST **UST** **N/A**
BROOKLYN, NY 11217 **HIST UST**

Relative: Lower

Actual: 62 ft.

LTANKS:

Site ID:	375995
Spill Number/Closed Date:	0611363 / 2/15/2007
Spill Date:	1/12/2007
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	BKFALVEY
Referred To:	Not reported
Reported to Dept:	1/12/2007
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/12/2007
Spill Record Last Update:	2/15/2007
Spiller Name:	LORETTA MCFARLAND
Spiller Company:	SOFIA BROS
Spiller Address:	491 BERGEN STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	LORETTA MCFARLAND
Spiller Phone:	(212) 873-3600
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	325594
DEC Memo:	1/16/07 bf: sent ttf letter to:Vincent Miserendino491 Bergen St. Corp.475 Amsterdam AvenueNew York, NY 100242/2/07 received response to ttf letter from Bob Urban of Pro Test. Tank failed due to manhole

PETER F REILLY STORAGE INC (Continued) **U001832434**

cover needing a new gasket. Tank passed tightness test. Results of test included with letter. bf 2/15/07 called Bob Urban (718)815-6292 to find out if any contaminated soil was observed. He told me that the gasket that was replaced was inside a manhole and no indication of petroleum release was observed. NFA. bf

Remarks: DRY LEAK:

Material:

Site ID:	375995
Operable Unit ID:	1133607
Operable Unit:	01
Material ID:	2123423
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	375995
Spill Tank Test:	1550555
Tank Number:	1
Tank Size:	2000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	1/12/2007
Test Method:	Horner EZ Check I or II

UST:

Id/Status:	2-094528 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2017/05/07
UTM X:	586730.63066999998
UTM Y:	4503787.0761500001
Site Type:	Other

Affiliation Records:

Site Id:	2567
Affiliation Type:	Mail Contact
Company Name:	491 BERGEN ST CORP
Contact Type:	PRES
Contact Name:	JOHN SOFIA , JR.
Address1:	475 AMSTERDAM AVE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10024

PETER F REILLY STORAGE INC (Continued) **U001832434**

Country Code:	001
Phone:	(212) 873-3600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2/12/2007

Site Id:	2567
Affiliation Type:	On-Site Operator
Company Name:	PETER F REILLY STORAGE INC
Contact Type:	Not reported
Contact Name:	SOFIA BROS INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-1020
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	2567
Affiliation Type:	Emergency Contact
Company Name:	491 BERGEN ST CORP
Contact Type:	Not reported
Contact Name:	SAMUEL BURRELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 515-8153
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	2567
Affiliation Type:	Facility Owner
Company Name:	491 BERGEN ST CORP
Contact Type:	PRES
Contact Name:	JOHN SOFIA , JR. 491-BERGEN ST. CORP
Address1:	475 AMSTERDAM AVE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10024
Country Code:	001
Phone:	(212) 873-3600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/17/2012

PETER F REILLY STORAGE INC (Continued) **U001832434**

Tank Info:

Tank Number:	001
Tank ID:	4451
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2000
Install Date:	01/01/1931
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	12/06/2011
Next Test Date:	12/06/2016
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	12/23/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping

HIST UST:

PBS Number:	2-094528
SPDES Number:	Not reported
Emergency Contact:	MARIO CARBONE
Emergency Telephone:	(212) 243-6376
Operator:	SOFIA BROS INC
Operator Telephone:	(718) 638-1020
Owner Name:	491 BERGEN ST CORP
Owner Address:	475 AMSTERDAM AVE
Owner City,St,Zip:	NEW YORK, NY 10024
Owner Telephone:	(212) 873-3600
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	491 BERGEN ST CORP
Mailing Address:	475 AMSTERDAM AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10024
Mailing Contact:	VINCENT MISERENDINO
Mailing Telephone:	(212) 873-3600
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.

PETER F REILLY STORAGE INC (Continued) **U001832434**

Facility Addr2:	491 BERGEN ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	06/24/1997
Expiration Date:	05/07/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	2000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	06/01/1997
Next Test Date:	06/01/2002
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

217 NW 1/4-1/2 0.451 mi. 2381 ft. | **141-147 LAFAYETTE AVE.**
141 LAFAYETTE AVE
BROOKLYN, NY | **LTANKS** | **S102672123**
N/A

Relative: Lower

Actual: 77 ft.

LTANKS:

Site ID:	325970
Spill Number/Closed Date:	9213645 / 8/31/2006
Spill Date:	7/2/1992
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	3/11/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/12/1993
Spill Record Last Update:	9/5/2006
Spiller Name:	Not reported
Spiller Company:	ALMAR FUEL CO.
Spiller Address:	918 MCDONALD AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	262588
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"10/10/95: This is additional information about material spilled from the translation of the old spill file: 75 YDS CONTAIM SOIL.6/7/04 TIPPLE UPDATING///TRANSFERRED FROM TIBBE TO TIPPLE/// Ernesto Samuels property mgt agent (718-875-5040 ex.11) contacted. Investigation workplan to be forwarded for review. 8/30/06 - Austin - Received correspondence and 2 phtos from Alastiar James, treasurer of Lafayette Court Apartment Coop at 147c Lafayett Ave., Bronx. Letter requested closure of spill report. Reassigned from DeCandia in Albany to Ketani in Region 2 office, to review submittal and evaluate for closure. - end8/31/06 - Raphael Ketani. I spoke to Alastair James, Treasurer, Lafayette Court Apartment Coop, 147C Lafayette Avenue, Brooklyn, NY, 11238. He explained that this was a very small spill when it took place. He said it was just an overfill and only a very small area was affected - "maybe 5 by 5."Based upon my conversation with Mr. James, the pictures he has enclosed with his letter showing the that the garden has recovered, and the small (1 gal.) size of the spill, I am closing the spill case.Mr. James wrote that he would like a closure letter. I will send one out today.
Remarks:	OIL LEAKS FROM VENT TO BRICK PATHWAY & SOIL AREA & SHRUBS. ALMAR FUEL

141-147 LAFAYETTE AVE. (Continued) **S102672123**

CO. RETURNED & APPLIED SPEEDI-DRI. APPROX. 1 WEEK LATER P/U & REMOVED & SAND WAS APPLIED. CHEMICAL CONSULTING CORP. TESTED SAMPLES

Material:

Site ID:	325970
Operable Unit ID:	977756
Operable Unit:	01
Material ID:	403412
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

218
WSW
1/4-1/2
0.470 mi.
2479 ft.

AY 473 DEAN, LLC
473 DEAN ST
BROOKLYN, NY

LTANKS **S106868719**
NY Spills **N/A**

Relative:
Lower

Actual:
54 ft.

LTANKS:

Site ID:	337764
Spill Number/Closed Date:	0412319 / 8/5/2005
Spill Date:	2/18/2005
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SXSCHARF
Referred To:	Not reported
Reported to Dept:	2/18/2005
CID:	408
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/18/2005
Spill Record Last Update:	4/4/2006
Spiller Name:	JOESPH RIZZUOT
Spiller Company:	SHEATH ENERGY
Spiller Address:	918 MCDONALD AVE.
Spiller City,St,Zip:	BROOKLYN, NY 11218
Spiller County:	001
Spiller Contact:	JOESPH RIZZUTO
Spiller Phone:	(718) 438-7953
Spiller Extention:	Not reported

AY 473 DEAN, LLC (Continued) **S106868719**

DEC Region:	2
DER Facility ID:	273099
DEC Memo:	3/29/05 - Austin - Minor spill report, previously unassigned - closed in database - end August 2005; spoke to joseph Rizzuto. DEC already gave him a closure on this as his crew went to the site and cleaned up the soils that were impacted by the overfill. s. Scharf
Remarks:	Driver overfilled tank. Clean up crews are on site.

Material:

Site ID:	337764
Operable Unit ID:	1099781
Operable Unit:	01
Material ID:	580026
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	0703359
DER Facility ID:	273099
Facility Type:	ER
Site ID:	383274
DEC Region:	2
Spill Date:	6/6/2007
Spill Number/Closed Date:	0703359 / 12/20/2010
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	6/21/2007
CID:	406
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/21/2007
Spill Record Last Update:	12/20/2010
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported

AY 473 DEAN, LLC (Continued) **S106868719**

Spiller City,St,Zip: NN
Spiller Company: 999
Contact Name: DEBBIE RABBINO BHATT
Contact Phone: (718) 923-8400
DEC Memo: 06/22/07-Vought-Off hours responder. Vought called Frank Cherena(631-232-2600) for more information. Vought left message to return call to DEC. Vought called Debbie Bhatt and left message to return call to DEC. 07/17/07-Vought-Received message from Bhatt (718-923-8651) and returned call and left message to return call.9/1/10 - Raphael Ketani. The spill took place on 6/6/07, but was reported on 6/21/07. It consisted of an overfill of a 1,080 gal. UST. Twenty five gallons of #2 oil spilled onto the ground. Allegedly, the contaminated soil was dug up the day of the spill.The site is block and lot 1127 and 50. It was a private residence. It was sold on 9/5/06 by David Bijur of 123 7th Avenue, #216, Brklyn. to AY 473 Dean, LLC, c/o Forest City Ratner Companies, One Metrotech Center North, Brklyn, 11201.There is no paper file and there are no E-docs.Frank Cherena of ROUX Associates (631) 232-2600 was the environmental company contact. Debbie Rabbino Bhatt (718) 923-8400 was the contact for the owners. I tried calling Ms. Bhatt, but the phone number wasn't working. I did make contact with Mr. Cherena. Mr. Cherena said that ROUX did not do the cleanup themselves. He said that Ferrantino Oil was hired by the owners to do the work and came out immediately after the spill. The overfill resulted in oil coming out the vent pipe in the back and spilling onto the ground. The surface soil was removed, but end point samples weren't taken. Mr. Cherena went on to state that the building has since been demolished as part of a much large project involving Atlantic Yards. He said that this larger project involves several other sites which are all under the management of Andre Obligado of Unit B of DER. The tank is still in the ground and it will be removed, along with the contaminated soil, once the construction moves over to this part of the project. They will dig down 20 or 30 feet. The tank itself has been cleaned out and the sludge was hauled away. He said that he has the paper work for this part of the job and he will send it to me.9/2/10 - Raphael Ketani. I called up Ferrantino Fuel Corp., 176 9th Street, Brooklyn, NY, 11215. I spoke to the dispatcher, Dennis Goldstein (718) 832-6700 about the spill and the cleanup of the contaminated soil. He couldn't find it in his computer system. So he will call me back later with the information.11/23/10 - Raphael Ketani. I tried to contact Mr. Cherena of ROUX Associates (631) 232-2600 regarding the documentation for the cleaning of the fuel tank. I contacted Mr. Goldstein of Ferrantino Fuel and asked him for the documentation which indicates that the 25 gals. spill had been cleaned up. I gave him the site address, but he couldn't find it in his database. He will call me back with the information.12/9/10 - Raphael Ketani. I spoke to Mr. Goldstein again. He said that he had given the task of looking for the cleanup documentation to a worker in his office. He said that he will talk to this person and get back to me.12/14/10 - Raphael Ketani. Michael of Ferrantino Fuel called. He said that he remembered the job. He said that the overfill came out the vent and onto the soil and onto concrete. He added that Ferrantino did the entire cleanup. Michael also mentioned that two years after a new boiler was installed in the building, the owners had the building knocked down. Michael said that he will send the DEC a cover letter explaining what had happened and how the spill had been cleaned up, along with a diagram showing the spill area and a

AY 473 DEAN, LLC (Continued) **S106868719**

manifest for the contaminated materials that were removed. I told him that will be fine.12/17/10 - Raphael Ketani. Mr. Cherena of ROUX Associates (631) 232-2600 called and said that he had the overfill soil spill report and the tank cleanout and removal report for the site. He will send them to me by e-mail. Mr. Cherena sent me an e-mail later today along with three documents (see e-docs):As discussed, here are the documents that you requested, along with a synopsis of work at the above spill Site.On June 6, 2007, Ferrantino Fuel Corporation overfilled the 1,080-gallon UST at 473 Dean Street, which resulted in the release of approximately 25 gallons of #2 fuel oil to soil located adjacent to the fill port of the UST. Ferrantino applied 10 bags of absorbent powder to soak up the released #2 fuel oil. Subsequently, one fifty-five gallon drum of waste (soil and oil-soaked absorbent powder) was removed from around the spill area and was transported to American Biomass located in Waterboro, South Carolina for proper disposal (Attachment 1). The proximity of the UST to the building prevented its removal prior to the building demolition; and therefore, in June 2010, ABC Tank Repair & Lining was contracted by Ferrantino to pump out and scrape clean the interior of the UST in order to prepare the site for demolition (Attachment 2). Following demolition of the building (August - September 2010), Roux Associates contracted Brookside Environmental to complete the cleanup and removal of the UST. Brookside Environmental removed the UST from ground, accessed the tank interior for cleaning, and removed 2 drums of sludge/sediment for offsite disposal in October 2010. Following completion of this work, Brookside Environmental issued an New York City Fire Department Affidavit certifying final cleanout and removal of the UST. Copies of all manifests and affidavits associated with the work completed by Brookside Environmental are provided in Attachment 3. The tank was then removed off-site for scrap disposal by Breeze Demolition (Demo Contractors). Following removal of the tank, no visual soil contamination was observed in this area.12/20/10 - Raphael Ketani. I reviewed the letters that Mr. Cherena had sent regarding the cleanup of the overfill in 2007 and the removal of the 1080 gal. fuel tank and the removal of the replacement 1000 gal. As the 06/18/07 Ferrantino letter and manifest indicated that the spill had been cleaned up, and as the ABC Tank and Brookside Environmental letters indicated that the two tanks had been removed, I have determined that the oil contamination had been successfully removed. Therefore, there is no threat to the public or the environment. So, I am closing the spill case.

Remarks: Tank overfill on a 1080gal. UST.... impacted soil. One 55gal. drum of contaminated soil and absorbents were removed from the site. Clean up was believed to have been done that same day 6/6/07.

Material:

Site ID:	383274
Operable Unit ID:	1140642
Operable Unit:	01
Material ID:	2130727
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25
Units:	Gallons
Recovered:	25
Resource Affected:	Not reported

AY 473 DEAN, LLC (Continued) **S106868719**

Oxygenate: False

Tank Test:
Site ID: 383274
Spill Tank Test: 1550933
Tank Number: 1
Tank Size: 1080
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: RVKETANI
Last Modified: 9/1/2010
Test Method: Unknown

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219 North 1/4-1/2 0.477 mi. 2521 ft.

ST. JOSEPHS COLLEGE
290 WASHINGTON AVE
BROOKLYN, NY

LTANKS **S109583686**
N/A

Relative: Higher

Actual: 82 ft.

LTANKS:
Site ID: 411530
Spill Number/Closed Date: 0813822 / 8/21/2009
Spill Date: 3/23/2009
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: JMKRIMGO
Referred To: Not reported
Reported to Dept: 3/23/2009
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 3/23/2009
Spill Record Last Update: 8/21/2009
Spiller Name: ALVIN DORTA
Spiller Company: ST. JOSEPHS COLLEGE
Spiller Address: 290 WASHINGTON AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 999
Spiller Contact: ALVIN DORTA
Spiller Phone: (718) 636-6810
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 360738
DEC Memo: ProTest says dry leakTTF letter sent on 3/26/20098/21/09. Based on information provided by ProTest in the letter dated April 30, 2009. The tank failed due to a loose jints in the vent pipe. After repair

ST. JOSEPHS COLLEGE (Continued) **S109583686**

tank was retested and passed. No repase was observed during repair.
NFA, JK.

Remarks: No spill or resources affected.

Material:

Site ID:	411530
Operable Unit ID:	1168002
Operable Unit:	01
Material ID:	2159620
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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220 WSW 1/4-1/2 0.489 mi. 2583 ft. | **CINDERELLA CLEANERS 248 FLATBUSH AVE BROOKLYN, NY 11217** | **RCRA-CESQG MANIFEST DRYCLEANERS BROWNFIELDS US AIRS** | **1000188071 NYD980789564**

Relative: Lower

Actual: 70 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	CINDERELLA CLEANERS
Facility address:	248 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYD980789564
Mailing address:	FLATBUSH AVE BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	FLATBUSH AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

CINDERELLA CLEANERS (Continued) **1000188071**

hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	CINDERELLA CLEANERS
Classification:	Conditionally Exempt Small Quantity Generator

Date form received by agency:	04/05/1995
Facility name:	CINDERELLA CLEANERS
Classification:	Not a generator, verified

Date form received by agency:	03/11/1985
Facility name:	CINDERELLA CLEANERS
Classification:	Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:

CINDERELLA CLEANERS (Continued) **1000188071**

EPA ID:	NYD980789564
Country:	USA
Mailing Name:	CINDERELLA CLNRS
Mailing Contact:	CINDERELLA CLNRS
Mailing Address:	248 FLATBUSH AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11217
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-638-3104

Document ID:	NYA6482952
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	870218
Trans1 Recv Date:	870218
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870218
Part A Recv Date:	870303
Part B Recv Date:	870303
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00150
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	NYA8772467
Manifest Status:	Completed copy
Trans1 State ID:	NYAP4503
Trans2 State ID:	Not reported
Generator Ship Date:	880328
Trans1 Recv Date:	880328
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880328
Part A Recv Date:	880408
Part B Recv Date:	880404
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408

CINDERELLA CLEANERS (Continued) **1000188071**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA8788026
Manifest Status:	Completed copy
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	880425
Trans1 Recv Date:	880425
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880425
Part A Recv Date:	880503
Part B Recv Date:	880429
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA9007514
Manifest Status:	Completed copy
Trans1 State ID:	LP3931
Trans2 State ID:	Not reported
Generator Ship Date:	880816
Trans1 Recv Date:	880816
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880816
Part A Recv Date:	880902
Part B Recv Date:	880822
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

CINDERELLA CLEANERS (Continued) **1000188071**

Year: 88

Document ID: NYA9082653
Manifest Status: Completed copy
Trans1 State ID: NYPP4503
Trans2 State ID: Not reported
Generator Ship Date: 880919
Trans1 Recv Date: 880919
Trans2 Recv Date: Not reported
TSD Site Recv Date: 880919
Part A Recv Date: 881003
Part B Recv Date: 880927
Generator EPA ID: NYD980789564
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00080
Units: P - Pounds
Number of Containers: 001
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 88

Document ID: NYA9072718
Manifest Status: Completed copy
Trans1 State ID: AY9381
Trans2 State ID: Not reported
Generator Ship Date: 881021
Trans1 Recv Date: 881021
Trans2 Recv Date: Not reported
TSD Site Recv Date: 881021
Part A Recv Date: 881102
Part B Recv Date: 881102
Generator EPA ID: NYD980789564
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00080
Units: P - Pounds
Number of Containers: 001
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 88

Document ID: NYA9644139
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 890822
Trans1 Recv Date: 890822

CINDERELLA CLEANERS (Continued) **1000188071**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890822
Part A Recv Date:	890907
Part B Recv Date:	890829
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA9675652
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	891019
Trans1 Recv Date:	891019
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891019
Part A Recv Date:	891027
Part B Recv Date:	891027
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA9851848
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	891213
Trans1 Recv Date:	891213
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891213
Part A Recv Date:	891228
Part B Recv Date:	891221
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV

CINDERELLA CLEANERS (Continued) **1000188071**

Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NYA9740744
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	890919
Trans1 Recv Date:	890919
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890919
Part A Recv Date:	890927
Part B Recv Date:	890925
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00198
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA9778555
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	891113
Trans1 Recv Date:	891113
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891113
Part A Recv Date:	891127
Part B Recv Date:	891122
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

CINDERELLA CLEANERS (Continued) **1000188071**

Document ID:	NYC0713744
Manifest Status:	Completed copy
Trans1 State ID:	AT8756NY
Trans2 State ID:	Not reported
Generator Ship Date:	910205
Trans1 Recv Date:	910205
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910205
Part A Recv Date:	910213
Part B Recv Date:	910221
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00120
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYC0811056
Manifest Status:	Completed copy
Trans1 State ID:	AP4503NY
Trans2 State ID:	Not reported
Generator Ship Date:	910109
Trans1 Recv Date:	910109
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910109
Part A Recv Date:	910130
Part B Recv Date:	910130
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYC2235521
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	930406
Trans1 Recv Date:	930406
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930406
Part A Recv Date:	930416

CINDERELLA CLEANERS (Continued) **1000188071**

Part B Recv Date:	930415
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00150
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00030
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYC2052707
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	921214
Trans1 Recv Date:	921214
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921214
Part A Recv Date:	921223
Part B Recv Date:	921223
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00120
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NYC2123717
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	930209
Trans1 Recv Date:	930209
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930209
Part A Recv Date:	930224
Part B Recv Date:	930219
Generator EPA ID:	NYD980789564

CINDERELLA CLEANERS (Continued) **1000188071**

Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYC3171306
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	940727
Trans1 Recv Date:	940727
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940727
Part A Recv Date:	941003
Part B Recv Date:	940804
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NYC3343318
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	941116
Trans1 Recv Date:	941116
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941116
Part A Recv Date:	950113
Part B Recv Date:	941125
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.

CINDERELLA CLEANERS (Continued) **1000188071**

Specific Gravity: 100
Year: 94

Document ID: NYC3128433
Manifest Status: Completed copy
Trans1 State ID: JE4550NY
Trans2 State ID: Not reported
Generator Ship Date: 940920
Trans1 Recv Date: 940920
Trans2 Recv Date: Not reported
TSD Site Recv Date: 940920
Part A Recv Date: 940928
Part B Recv Date: 940929
Generator EPA ID: NYD980789564
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94

Document ID: NYC3209894
Manifest Status: Completed copy
Trans1 State ID: JE4550NY
Trans2 State ID: Not reported
Generator Ship Date: 940825
Trans1 Recv Date: 940825
Trans2 Recv Date: Not reported
TSD Site Recv Date: 940825
Part A Recv Date: 940928
Part B Recv Date: 940906
Generator EPA ID: NYD980789564
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94

Click this hyperlink while viewing on your computer to access
173 additional NY_MANIFEST: record(s) in the EDR Site Report.

DRYCLEANERS:
Facility ID: 2-6103-00248
Phone Number: 718-638-3104

CINDERELLA CLEANERS (Continued) **1000188071**

Region: Not reported
Registration Effective Date: N/A
Inspection Date: 05MAY26
Install Date: 85/05
Drop Shop: Y
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

BROWNFIELDS:

Program: BCP
Site Code: 477008
Site Description: Site Location: This is an Offsite of the BCP site located at 248 Flatbush Avenue in Brooklyn, Kings County (Block 936 and Lot 12). The following description is for the BCP site. It is bounded to the east by Flatbush Avenue, to the south by NYCDDC's Eastern Parkway Project Resident Engineer's Field office, to the west by a courtyard for a restaurant, and to the north by a liquor store and restaurant. Site Features: The site is a one-story building with a full basement that encompasses the entire property. It is approximately 2,300 square feet and is currently vacant. There is no parking associated with the Site. The topography of the site is generally flat and the surrounding area slopes gradually to the northwest.Current Zoning/Use(s): The site was most recently used for commercial purposes. The buildings to the north appear to have residential apartments located on the floors above the businesses. Historical Uses(s): The building was constructed between 1888 and 1906 and most recently housed a dry cleaner and shoe repair facility for the last twenty years. Previous uses included clothing, book store and the sale of dry goods.Site Geology and Hydrogeology: Soils underlying the site are classified as Urban Land and consist of brown silty fine sand and brown to medium sand with some cobbles and trace fine to medium and coarse gravel. The nearest body of water is the Gownaus Canal located approximately 3,400 feet to the west-northwest of the site that flows into the Gowanus Bay. The site is serviced by city water provided by NYC Municipal Water. 9/27/12-DEC signed the Brownfield Cleanup Program Acceptance Letter for this site.
Env Problem: Information submitted with the BCP application regarding the environmental condition at the site are currently under review and will be revised as additional information becomes available.
Health Problem: Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

Program: BCP
Site Code: 465470
Site Description: Site Location: The BCP site is located at 248 Flatbush Avenue in Brooklyn, Kings County and is Block 936 and Lot 12. It is bounded to the east by Flatbush Avenue, to the south by NYCDDC's Eastern Parkway Project Resident Engineer's Field office, to the west by a courtyard for a restaurant, and to the north by a liquor store and restaurant. Site Features: The site is a one-story building with a full basement that encompasses the entire property. It is approximately 2,300 square feet and is currently vacant. There is no parking associated with the Site. The topography of the site is generally flat and the surrounding area slopes gradually to the northwest.Current Zoning/Use(s): The site was most recently used for commercial

CINDERELLA CLEANERS (Continued) **1000188071**

purposes. The buildings to the north appear to have residential apartments located on the floors above the businesses. Historical Uses(s): The building was constructed between 1888 and 1906 and most recently housed a dry cleaner and shoe repair facility for the last twenty years. Previous uses included clothing, book store and the sale of dry goods.Site Geology and Hydrogeology: Soils underlying the site are classified as Urban Land and consist of brown silty fine sand and brown to medium sand with some cobbles and trace fine to medium and coarse gravel. The nearest body of water is the Gownaus Canal located approximately 3,400 feet to the west-northwest of the site that flows into the Gowanus Bay. The site is serviced by city water provided by NYC Municipal Water.

Env Problem: Soils -In 2005, an investigation focused on a reported historical leak of cooling water from the first floor dry cleaning machine into the basement boiler room. It was concluded that the subsurface soil beneath the boiler room was impacted by dry cleaning solvents based on elevated PID readings. The impacted soil appeared to be no deeper than 9 feet below the basement floor. Contaminated soil was excavated from the boiler room to a depth of 5 feet below the basement floor. Post-excavation samples resulted in trace levels of VOCs considerably below regulatory standards. Therefore, the excavated soils were disposed as non-hazardous waste and a manifest was not required. In April 2011, soil samples were collected and PCE was detected in five of the soil borings at concentrations ranging from 0.0026 ppm (SB-8B) to 0.18 ppm (SB-5B). These levels of PCE are well below the Part 375 unrestricted use SCO.Groundwater -In 2005, analytical results for groundwater indicated that PCE was present at concentrations of 285 ppb, which is above the regulatory standard of 5 ppb. In 2011, groundwater samples were collected from three temporary wells installed through the basement floor. Analysis of samples from TW-2 and its duplicate (DUP) detected PCE at 12 ppb and 69 ppb, respectively. Analysis of groundwater samples from TW-3 and its duplicate (DUP-3), and the re-analysis of DUP-3, identified PCE at 21 ppb, 25 ppb, and 19 ppb, respectively.Soil Vapor -In August 2011, on-site vapor intrusion investigation activities included the collection of three sub-slab soil gas samples, three indoor air samples and one ambient air sample. PCE was detected in the indoor air at concentrations ranging from 1.7 ug/m3 to 24.4 ug/m3, and in the sub-slab at concentrations ranging from 4,010 to 20,800 ug/m3. (Previously in 2007, the sub-slab concentrations ranged from 5,000 to 607,000 ug/m3.) According to the NYSDOH Matrix 2 for PCE, mitigation to minimize vapor intrusion and subsequent human exposures is recommended.In 2011, an off-site vapor intrusion evaluation also was performed at adjacent properties to ensure that no other receptors were being impacted. Six sub-slab, three indoor air, and one ambient air samples were collected at 250 Flatbush Avenue (Engineers Office), 252 Flatbush Avenue (Cash for Gold), and 80 St. Marks Street (on the other side of the adjacent Japanese Restaurant). At 250 Flatbush, PCE was detected in sub-slab vapor at concentrations ranging from 454 ug/m3 to 1,480 ug/m3, and in indoor air at 12.1 ug/m3. At 252 Flatbush, PCE was detected in sub-slab vapor at concentrations ranging from 185 ug/m3 to 450 ug/m3, and in indoor air at 2.67 ug/m3. At 80 St. Marks Avenue, PCE was detected in sub-slab vapor at concentrations ranging from 3,810 ug/m3 to 20,400 ug/m3, and in indoor air at 30.3 ug/m3. According to the NYSDOH Decision Matrix 2 for PCE, the indoor air and sub-slab results at 250 Flatbush Avenue and 80 Marks Street indicate that mitigation is recommended. The

CINDERELLA CLEANERS (Continued) **1000188071**

results at 252 Flatbush Avenue indicate that monitoring is recommended.

Health Problem: Direct contact with contaminants in soil is unlikely because the site is covered with buildings. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not contaminated by the site. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Indoor air impacts that may be the result of soil vapor intrusion have been identified in one on-site building and three off-site structures. However, the levels of contaminants in the indoor air of these buildings do not exceed NYSDOH air guidelines. The NYSDOH has recommended that three of these structures (one on-site and two off-site) be mitigated to minimize the potential for vapor intrusion to occur in the buildings. Additional investigation in to the potential for vapor intrusion and subsequent human exposures at additional off-site structures is warranted.

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110019747737
Plant name:	CINDERELLA CLEANERS
Plant address:	248 FLATBUSH AVE BROOKLYN, NY 11217
County:	KINGS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	7216
Sic code desc:	DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf:	812320
NAIC code description:	Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000

CINDERELLA CLEANERS (Continued) **1000188071**

Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1001
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1002
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1003
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

CINDERELLA CLEANERS (Continued) **1000188071**

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

CINDERELLA CLEANERS (Continued) **1000188071**

Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: UNCLASSIFIED
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

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221 West 1/4-1/2 0.493 mi. 2604 ft.

NY PACIFIC REALITY **LTANKS** **S103479579**
626 PACIFIC ST **N/A**
BROOKLYN, NY

Relative: Lower

Actual: 47 ft.

LTANKS:
Site ID: 282665
Spill Number/Closed Date: 9807467 / 3/3/2003
Spill Date: 9/17/1998
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: TOMASELLO
Referred To: Not reported
Reported to Dept: 9/17/1998
CID: 233
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 9/17/1998
Spill Record Last Update: 3/3/2003
Spiller Name: JACK KORN

NY PACIFIC REALITY (Continued) **S103479579**

Spiller Company:	NY PACIFIC REALITY
Spiller Address:	626 PACIFIC ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	229479
DEC Memo:	Not reported
Remarks:	tank in basement on concrete floor has a small leak spill is than a gallon and is being cleaned up now

Material:

Site ID:	282665
Operable Unit ID:	1065031
Operable Unit:	01
Material ID:	318551
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

222
SE
1/4-1/2
0.497 mi.
2626 ft.

AUTO REPAIR SHOP
641 CLASSON AVE
BROOKLYN, NY

LTANKS **S104620223**
N/A

Relative:
Higher

Actual:
91 ft.

LTANKS:

Site ID:	171034
Spill Number/Closed Date:	9902093 / 12/20/2005
Spill Date:	5/24/1999
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	GWBURKE
Referred To:	Not reported
Reported to Dept:	5/24/1999
CID:	382
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False

AUTO REPAIR SHOP (Continued) **S104620223**

Remediation Phase:	0
Date Entered In Computer:	5/24/1999
Spill Record Last Update:	12/20/2005
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	641 CLASSON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	MIKE ROCCASORTE
Spiller Phone:	(718) 221-3517
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	143926
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"5/24/99 - PERSON AT AUTO REPAIR SHOP SAYS LEAK IS SLOW BUT STEADY FOR OVER ONE YEAR.Site visit showed poor housekeeping and spill staining.12/20/05 - site visit 11/05 indicates poor housekeeping. Unable to determine if an actual spill occured. Adminstrative closure.
Remarks:	TANK FOR WASTE OIL BROKE AT AN AUTO REPAIR SHOP. CLEAN UP HAS NOT BEGUN.

Material:

Site ID:	171034
Operable Unit ID:	1076870
Operable Unit:	01
Material ID:	305608
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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223 NNW 1/2-1 0.946 mi. 4996 ft. **NAVY BARRACKS BKLYN , NY** **FUDS** **1007211607 N/A**

Relative: Lower

Actual: 29 ft.

FUDS:

Federal Facility ID:	NY9799F7852
FUDS #:	C02NY0174
INST ID:	56453
Facility Name:	NAVY BARRACKS BKLYN
City:	Not reported
State:	NY
EPA Region:	02
County:	Not reported
Congressional District:	10
US Army District:	New England District (NAE)

NAVY BARRACKS BKLYN (Continued) **1007211607**

Fiscal Year:	2011
Telephone:	978-318-8238
NPL Status:	Not Listed
RAB:	Not reported
CTC:	358.4
Current Owner:	FEDERAL; LOCAL GOVT
Current Prog:	Not reported
Future Prog:	Not reported
Description:	The Navy Barracks are located in the County of Kings, Borough of Brooklyn, City of New York, State of New York. The site is bounded on the North by Flushing Avenue, on the South by Park Avenue, on the East by Vanderbilt Avenue and on the West by Clermont Avenue. The site was improved by a six story concrete building utilized as a military prison and three story brick building used as barrack and for administrative purposes. The NYC Department of Corrections is used as the Brooklyn Correctional Facility. The former military prison building and associated utilities are beneficially used by the present owner the New York City Department of Corrections. The former Navy barrack and administrative building is abandoned and owned by GSA. There are number of underground storage tanks, which were never used by the present owner. As per Declaration of Taking dated 29 January 1941, the Department of the Navy obtained 2.638 acres fee. On 15 April 1975, the Department of the Navy conveyed 2.638 acres fee to GSA. As per quitclaim deed dated 4 June 1979, GSA conveyed 0.294 acre fee to the Department of Health and Hospitals Corporation (HHC) of the City of New York. Said deed did not contain any recapture or restoration clauses but did contain a restrictive clause (to be used public health purposes for a period of thirty years -from the date of conveyance). As per quitclaim deed dated 22 February 1985, GSA conveyed 2.344 acres fee to the City of New York. Said deed did not contain any recapture, restoration or restrictive clauses. On 8 September 1986, the 0.294 acre fee reverted back to GSA because of a breach of contract by HHC. GSA is still the owner of record of the 0.2 94 acre fee.

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	1000361503	BAYRIDGE MAINTENANCE CORP	19TH ST CONEY ISLAND		FINDS,RCRA-NLR
ATLANTIC AVE JAMA	1000981140	LONG ISLAND RAILROAD	FROM BLOCK #'S S-32 & S-33		FINDS,RCRA-NLR,MANIFEST
BROOKLYN	1001223897	GREAT LAKES DREDGE & DOCK	ATLANTIC AVE PIER 8N		RCRA-NLR,MANIFEST
NEW YORK	1001961618	NYCTA	30TH ST-BETWEEN 11TH & 12TH	11201	FINDS,RCRA-NLR,MANIFEST
BROOKLYN	1003863816	BROOKLYN WHITE LEAD CO	FRONT & WATER STS	11201	CERCLIS-NFRAP
BROOKLYN	1004759588	NYC BOARD OF EDUCATION PS 369 BKLY	887 STATE STREET	11217	FINDS,MANIFEST,RCRA-NLR
BROOKLYN	1004760608	MTA NYCT - MONTAGUE ST TUNNEL M N	MONTAGUE ST INCL TUNNEL		FINDS,RCRA-NLR
BROOKLYN	1007205192	NYNEX	STANWIX ST FLUSING AVE	11201	RCRA-NLR,MANIFEST
BROOKLYN	1007205430	NYNEX	ONDADON AVE & GATES AVE		RCRA-NLR,MANIFEST
BROOKLYN	1007205480	BELL ATLANTIC-NY	WASHINGTON/GATES AVES	00000	RCRA-NLR
BROOKLYN	1007205485	BELL ATLANTIC-NY	ST PAUL PL/ALBANY AVE	00000	RCRA-NLR
BROOKLYN	1007208397	CONSOLIDATED EDISON	MH38210-KINGS HWY & W 7TH ST		RCRA-NLR,MANIFEST
BROOKLYN	1009238175	CONSOLIDATED EDISON	MH38445-E 25TH ST & KINGS HWY	11201	MANIFEST
BROOKLYN	S106737045	BETW/AVE X &	KINGS HIGHWAY AVE U		SPILLS
BROOKLYN	S107407580	KINGS HIGHWAY MOBIL	KINGS HIGHWAY		SPILLS
BROOKLYN	S109064521	BELL ATLANTIC-NY	E 94 ST/BET CLARKSON AVE		MANIFEST
	S109207895	205842; KINGS HWY	KINGS HWY		SPILLS
BROOKLYN	S110046423	CONSOLIDATED EDISON	KINGS HWY & CHURCH AVE - MH384	11201	MANIFEST
BROOKLYN	S111011715	ROADWAY	KINGS HIGHWAY AND OCEAN PARKWA		SPILLS
BROOKLYN	S113816641	CON EDISON	NWC KINGS HWY & E 35 ST	11201	MANIFEST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/12/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 09/13/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 07/08/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 09/13/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/14/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/14/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/15/2013
Next Scheduled EDR Contact: 09/02/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/08/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/01/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 162

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

TANKS: Storage Tank Faciliy Listing
This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 08/07/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 08/07/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 08/07/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 08/07/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 08/07/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls
Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing
A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/11/2011
Number of Days to Update: 50

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/28/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/02/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements
New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/26/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: No Update Planned

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 07/08/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Semi-Annually

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 07/26/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/31/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/12/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 59

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/04/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/20/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 22

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 08/09/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 03/13/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 04/18/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2012
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 114

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/17/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/14/2013
Date Data Arrived at EDR: 03/20/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 112

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/09/2013
Date Data Arrived at EDR: 04/11/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 29

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 09/11/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Biennially

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 06/07/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 07/18/2013
Date Data Arrived at EDR: 07/19/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 52

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 07/15/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 54

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/15/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 62

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 06/17/2013
Date Data Arrived at EDR: 06/24/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 16

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/21/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: N/A

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 07/08/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/31/2008
Date Data Arrived at EDR: 11/25/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 07/08/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 09/09/2013
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 08/23/2013
Date Data Arrived at EDR: 08/28/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 15

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 08/23/2013
Date Data Arrived at EDR: 08/28/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 15

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/30/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/30/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/24/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 16

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/24/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 16

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 06/06/2013
Date Data Arrived at EDR: 06/07/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 33

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 06/06/2013
Date Data Arrived at EDR: 06/07/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 33

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/20/2013
Date Data Arrived at EDR: 05/21/2013
Date Made Active in Reports: 06/27/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 05/01/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/20/2013
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WHITE MEMORIAL CHAPELS
882 FULTON STREET
BROOKLYN, NY 11238

TARGET PROPERTY COORDINATES

Latitude (North):	40.6831 - 40˚ 40’ 59.16’’
Longitude (West):	73.9661 - 73˚ 57’ 57.96’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	587370.8
UTM Y (Meters):	4503881.5
Elevation:	78 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

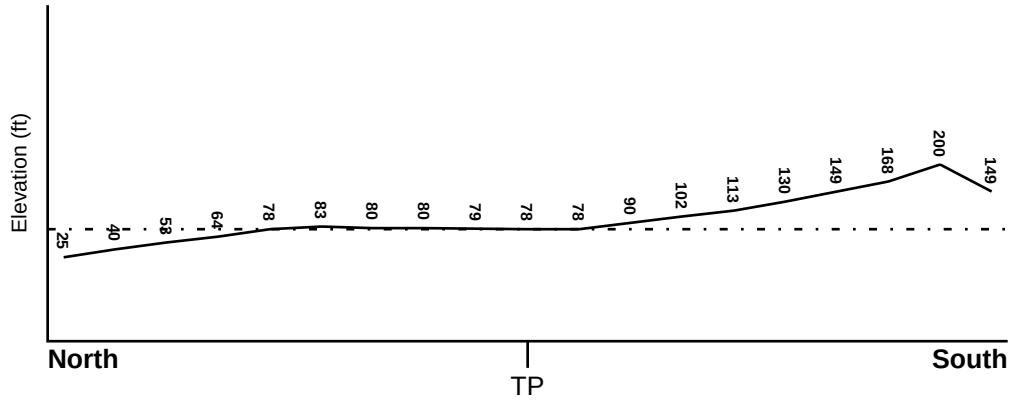
TOPOGRAPHIC INFORMATION

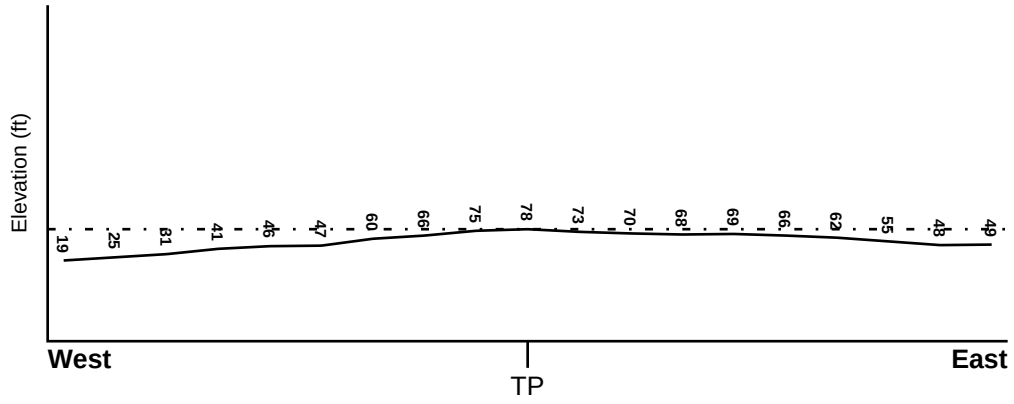
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 78 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
KINGS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 360497 - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BROOKLYN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles North
Site Name:	Naval Station Ny
Site EPA ID Number:	NY5170022250
Groundwater Flow Direction:	NOT AVAILABLE.
Measured Depth to Water:	14 feet in a well located 1 mile southeast of the site.
Hydraulic Connection:	Information is not available about the hydraulic connection between the surficial aquifer (upper glacial till) and underlying aquifer(s). Bedrock is present at an estimated depth of 100 feet.
Sole Source Aquifer:	A sole source aquifer is persent at or near the site
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000828450	0 - 1/8 Mile South
2	USGS40000828477	1/8 - 1/4 Mile West
3	USGS40000828443	1/4 - 1/2 Mile WSW
4	USGS40000828552	1/4 - 1/2 Mile ENE
5	USGS40000828310	1/4 - 1/2 Mile SE
A6	USGS40000828451	1/2 - 1 Mile West
A7	USGS40000828468	1/2 - 1 Mile West
8	USGS40000828523	1/2 - 1 Mile WNW
9	USGS40000828264	1/2 - 1 Mile SE
10	USGS40000828390	1/2 - 1 Mile ESE
11	USGS40000828732	1/2 - 1 Mile NNW
12	USGS40000828558	1/2 - 1 Mile WNW
13	USGS40000828675	1/2 - 1 Mile NE
B14	USGS40000828293	1/2 - 1 Mile SW
B15	USGS40000828284	1/2 - 1 Mile SW
16	USGS40000828601	1/2 - 1 Mile WNW
17	USGS40000828703	1/2 - 1 Mile NW
C18	USGS40000828787	1/2 - 1 Mile North
19	USGS40000828338	1/2 - 1 Mile ESE
D20	USGS40000828619	1/2 - 1 Mile WNW
D21	USGS40000828606	1/2 - 1 Mile WNW
E22	USGS40000828587	1/2 - 1 Mile WNW
23	USGS40000828469	1/2 - 1 Mile West
F24	USGS40000828802	1/2 - 1 Mile North
F25	USGS40000828803	1/2 - 1 Mile North
G26	USGS40000828804	1/2 - 1 Mile North
27	USGS40000828549	1/2 - 1 Mile WNW
28	USGS40000828780	1/2 - 1 Mile NNW
F29	USGS40000828810	1/2 - 1 Mile North
C30	USGS40000828812	1/2 - 1 Mile North
C31	USGS40000828811	1/2 - 1 Mile North
H32	USGS40000828733	1/2 - 1 Mile NW
H33	USGS40000828742	1/2 - 1 Mile NW
D34	USGS40000828620	1/2 - 1 Mile WNW
G35	USGS40000828817	1/2 - 1 Mile North
G36	USGS40000828818	1/2 - 1 Mile North
G37	USGS40000828823	1/2 - 1 Mile North
E38	USGS40000828602	1/2 - 1 Mile WNW
39	USGS40000828627	1/2 - 1 Mile WNW
40	USGS40000828660	1/2 - 1 Mile WNW
41	USGS40000828837	1/2 - 1 Mile North
42	USGS40000828770	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

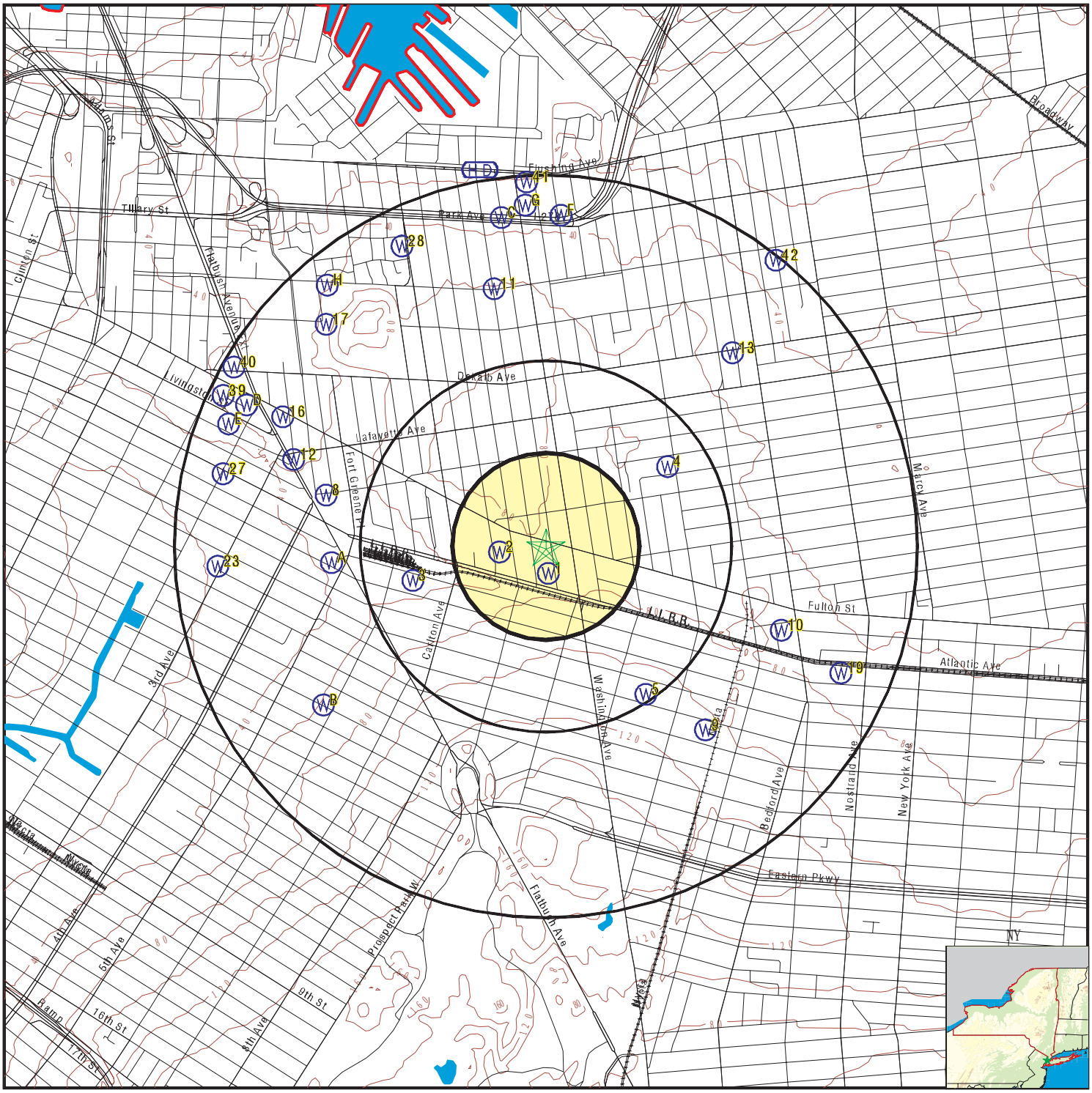
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3736798.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: White Memorial Chapels	CLIENT: DVD Environmental
ADDRESS: 882 Fulton Street Brooklyn NY 11238	CONTACT: Tim Donohoe
LAT/LONG: 40.6831 / 73.9661	INQUIRY #: 3736798.2s
	DATE: September 23, 2013 5:47 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **0 - 1/8 Mile** **Lower**	**FED USGS**	**USGS40000828450**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404055073575901		
Monloc name:	K 23. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820476
Longitude:	-73.9659717	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	57.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	243
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

---

2 **West** **1/8 - 1/4 Mile** **Lower**	**FED USGS**	**USGS40000828477**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404058073580801		
Monloc name:	K 1578. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6828809
Longitude:	-73.9684718	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	74.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	203
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

3
WSW **FED USGS** **USGS40000828443**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404054073582401		
Monloc name:	K 20. 1		
Monloc type:	Well		
Monloc desc:	2401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6817698
Longitude:	-73.9729164	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	126
Welldepth units:	ft	Wellholedepth:	136
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

4
ENE **FED USGS** **USGS40000828552**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404110073573701		
Monloc name:	K 97. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6862142
Longitude:	-73.9598605	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 171

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-04-22		4.50	1968-04-22		4.39
1967-10-23		3.58	1967-03-28		3.35
1966-10-25		2.61	1966-05-03		2.93
1965-10-27		2.99	1965-09-15		2.97
1965-05-03		2.49	1964-11-02		2.54
1964-04-23		2.63	1963-10-19		2.09
1963-04-26		2.90	1962-11-09		2.89
1962-04-26		3.20	1961-12-28		3.00
1961-10-02		2.71	1961-03-28		1.96
1960-09-27		1.31	1960-09-15		0.95
1960-03-31		0.88	1960-01-11		0.38
1959-10-07		0.44	1959-07-16		0.74
1959-03-18		1.08	1958-04-16		0.28
1958-01-10		0.00	1957-09-24		-0.39
1956-12-18		-0.71	1956-11-29		-0.62
1956-10-25		-0.85	1956-10-02		-0.59
1956-05-15		-0.77	1956-03-05		-1.30
1955-08-25		-2.46	1955-07-26		2.45
1955-06-23		-2.38	1955-05-24		-2.23
1955-04-28		-2.25	1955-02-25		-2.66
1955-01-25		-2.71	1954-12-27		-2.97
1954-06-29		-3.43	1954-05-27		-3.55
1954-04-28		-3.66	1954-03-30		-3.68
1954-02-25		-3.71	1954-01-28		-3.88
1953-12-23		-4.09	1953-12-02		-4.01
1953-10-28		-4.22	1953-10-02		-4.39
1953-08-28		-4.42	1953-06-24		-4.82
1953-05-25		-5.14	1953-04-27		-5.45
1953-03-25		-6.01	1953-02-27		-6.36
1952-12-23		-7.43	1952-12-05		-7.72
1952-09-22		-8.75	1952-07-23		-9.26
1952-06-24		-9.54	1952-05-27		-9.92
1952-04-29		-10.25	1952-03-24		-10.73
1952-02-20		-11.24	1952-01-29		-11.46
1951-12-20		-12.15	1951-11-28		-12.38
1951-11-02		-12.57	1951-09-26		-12.82
1951-08-28		-12.83	1951-05-02		-13.32
1951-03-27		-13.91	1951-01-30		-14.53
1950-12-20		-14.92	1950-11-28		-15.01
1950-10-31		-15.18	1950-09-27		-15.17
1950-08-29		-14.97	1950-07-27		-14.69
1950-06-29		-14.77	1950-06-05		-14.66
1950-04-27		-14.85	1950-03-29		-14.95
1950-03-01		-15.16	1950-01-26		-15.49
1949-12-28		-15.84	1949-11-28		-16.08
1949-10-31		-16.16	1949-09-28		-16.23
1949-08-31		-16.37	1949-07-28		-16.49
1949-07-01		-16.77	1949-06-01		-17.00
1949-04-28		-17.45	1949-04-04		-17.79
1949-02-21		-18.56	1949-01-26		-18.88

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1948-12-28		-19.29	1948-12-14		-19.46
1948-11-04		-19.96	1948-10-06		-20.26
1948-08-30		-20.51	1948-07-26		-20.96
1948-06-30		-21.32	1948-06-02		-21.56
1948-04-27		-22.10	1948-03-26		-22.56
1948-03-02		-22.98	1948-02-03		-23.50
1948-01-07		-23.95	1947-12-16		-24.55
1947-11-26		-24.67	1947-11-19		-24.77
1947-10-31		-25.02	1947-10-14		-25.14
1947-10-07		-25.22	1947-09-30		-25.24
1947-09-18		-25.33	1947-09-02		-25.38
1947-08-13		-25.47	1947-07-30		-25.52
1947-07-23		-25.57	1947-07-16		-25.62
1947-07-07		-25.77	1947-07-02		-25.91
1947-07-01		-25.93	1947-06-30		-25.42
1947-06-24		-25.93	1947-05-27		-25.92
1947-05-07		-25.96	1947-04-09		-25.90
1947-03-05		-25.87	1947-01-24		-25.91
1946-12-27		-25.92	1946-11-26		-25.96
1946-10-22		-25.92	1946-09-26		-25.89
1946-08-30		-25.82	1946-07-26		-25.60
1946-07-01		-25.40	1946-06-10		-25.34
1946-04-29		-25.25	1946-04-12		-25.25
1946-02-25		-25.44	1946-02-11		-25.52
1946-01-08		-25.77	1945-12-04		-26.09
1945-11-06		-26.27	1945-09-28		-26.26
1945-09-12		-26.30	1945-08-08		-26.00
1945-07-03		-25.96	1945-06-04		-25.75
1945-04-27		-25.78	1945-04-04		-25.80
1945-03-03		-25.85	1945-02-06		-25.95
1945-01-02		-26.18	1944-12-06		-25.56
1944-10-27		-26.58	1944-10-04		-26.51
1944-09-02		-26.33	1944-07-31		-26.13
1944-06-03		-25.86	1944-05-05		-24.84
1944-04-05		-24.77	1943-05-21		-25.85
1943-05-11		-25.83			

5
SE **FED USGS** **USGS40000828310**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404038073574508		
Monloc name:	K 921. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6773254
Longitude:	-73.9609716	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	118.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	264
Welldepth units:	ft	Wellholedepth:	331
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 248

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1942-12-26		-25.79	1942-12-19		-26.09
1942-12-12		-26.31	1942-12-05		-26.20
1942-11-28		-26.23	1942-11-21		-26.38
1942-11-14		-26.41	1942-11-07		-26.45
1942-10-31		-26.35	1942-10-24		-26.42
1942-10-17		-26.36	1942-10-03		-26.41
1942-09-26		-26.43	1942-09-19		-26.42
1942-09-12		-26.41	1942-09-05		-26.30
1942-08-29		-26.28	1942-08-22		-26.27
1942-08-15		-26.15	1942-08-08		-25.93
1942-08-01		-26.00	1942-07-25		-26.10
1942-07-18		-25.95	1942-07-04		-26.08
1942-06-27		-26.28	1942-06-20		-26.22
1942-06-13		-26.18	1942-06-06		-26.05
1942-05-30		-25.12	1942-05-23		-26.04
1942-05-16		-26.06	1942-05-09		-26.03
1942-05-02		-26.10	1942-04-25		-26.14
1942-04-18		-26.09	1942-04-11		-26.02
1942-04-04		-26.00	1942-03-28		-26.09
1942-03-21		-26.05	1942-03-14		-25.99
1942-03-07		-26.16	1942-02-28		-26.14
1942-02-21		-26.07	1942-02-14		-26.11
1942-02-07		-26.07	1942-01-31		-26.11
1942-01-24		-26.22	1942-01-17		-26.19
1942-01-10		-26.18	1942-01-03		-26.31
1941-12-27		-26.23	1941-12-20		-26.38
1941-12-13		-26.30	1941-12-06		-26.50
1941-11-29		-26.39	1941-11-22		-26.43
1941-11-15		-26.54	1941-11-08		-26.55
1941-11-01		-26.41	1941-10-25		-26.59
1941-10-18		-26.51	1941-10-11		-26.54
1941-10-04		-26.47	1941-09-27		-26.38
1941-09-20		-26.38	1941-09-13		-26.34
1941-09-06		-25.78	1941-08-23		-25.69
1941-08-16		-25.50	1941-08-09		-25.48
1941-08-02		-23.89	1941-07-26		-23.86
1941-07-19		-24.23	1941-07-12		-24.25
1941-07-05		-25.43	1941-06-28		-25.73
1941-06-21		-25.78	1941-06-14		-25.62
1941-06-07		-25.69	1941-05-31		-25.52
1941-05-24		-25.60	1941-05-17		-25.48

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1941-05-10		-25.58
1941-04-26		-25.51
1941-04-12		-25.39
1941-03-29		-25.22
1941-03-15		-25.36
1941-03-01		-25.24
1941-02-08		-25.32
1941-01-25		-25.38
1941-01-11		-25.46
1940-12-28		-25.27
1940-12-14		-25.44
1940-11-30		-25.63
1940-11-16		-25.64
1940-11-02		-25.70
1940-10-19		-25.72
1940-10-05		-25.66
1940-09-21		-25.60
1940-09-07		-25.81
1940-08-26		-25.36
1940-08-10		-25.39
1940-07-27		-25.61
1940-07-13		-25.55
1940-06-29		-25.36
1940-06-15		-25.43
1940-06-01		-24.89
1940-05-18		-25.06
1940-05-04		-23.42
1940-04-20		-23.38
1940-04-06		-23.18
1940-03-23		-24.81
1940-03-09		-24.82
1940-02-24		-24.82
1940-02-10		-24.77
1940-01-27		-24.79
1940-01-13		-25.02
1939-12-30		-24.94
1939-12-16		-25.01
1939-12-02		-24.95
1939-11-18		-25.08
1939-11-04		-25.04
1939-10-21		-24.96
1939-10-07		-25.05
1939-09-23		-25.02
1939-09-08		-25.16
1939-08-25		-25.00
1939-08-11		-24.67
1939-07-28		-24.88
1939-07-14		-24.72
1939-06-30		-24.60
1939-06-16		-24.42
1939-06-02		-24.34
1939-05-19		-24.08
1939-05-05		-24.31
1939-04-21		-24.33
1939-03-31		-24.47

Date	Feet below Surface	Feet to Sealevel
1941-05-03		-25.55
1941-04-19		-25.36
1941-04-05		-25.21
1941-03-22		-25.33
1941-03-08		-25.13
1941-02-15		-25.22
1941-02-01		-25.35
1941-01-18		-25.41
1941-01-04		-25.23
1940-12-21		-25.45
1940-12-07		-25.46
1940-11-23		-25.64
1940-11-09		-25.76
1940-10-26		-25.74
1940-10-12		-25.67
1940-09-28		-25.67
1940-09-14		-25.69
1940-08-31		-25.70
1940-08-17		-25.48
1940-08-03		-25.53
1940-07-20		-25.71
1940-07-06		-25.30
1940-06-22		-25.40
1940-06-08		-25.43
1940-05-25		-25.13
1940-05-11		-25.04
1940-04-27		-23.44
1940-04-13		-23.45
1940-03-30		-24.58
1940-03-16		-24.76
1940-03-02		-24.86
1940-02-17		-24.87
1940-02-03		-24.86
1940-01-20		-24.85
1940-01-06		-25.03
1939-12-23		-25.05
1939-12-09		-24.92
1939-11-25		-24.89
1939-11-11		-25.05
1939-10-28		-25.14
1939-10-14		-24.49
1939-09-30		-25.19
1939-09-16		-25.04
1939-09-01		-25.06
1939-08-18		-24.95
1939-08-04		-24.86
1939-07-21		-24.87
1939-07-07		-24.70
1939-06-23		-24.67
1939-06-09		-24.36
1939-05-26		-24.31
1939-05-12		-23.77
1939-04-28		-24.27
1939-04-08		-24.26
1939-03-24		-24.57

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1939-03-17		-24.75	1939-03-10		-24.51
1939-03-03		-24.52	1939-02-24		-24.47
1939-02-17		-24.50	1939-02-10		-24.58
1939-02-03		-24.60	1939-01-27		-24.70
1939-01-20		-24.72	1939-01-13		-24.39
1939-01-06		-24.64	1938-12-23		-24.21
1938-12-16		-27.23	1938-12-09		-24.60
1938-12-02		-24.37	1938-11-25		-24.39
1938-11-18		-23.70	1938-11-04		-23.80
1938-10-28		-23.60	1938-10-21		-23.84
1938-10-14		-22.77	1938-10-07		-24.77
1938-09-30		-24.72	1938-09-23		-24.93
1938-09-16		-25.24	1938-09-09		-23.97
1938-09-02		-25.13	1938-08-26		-25.12
1938-08-19		-25.12	1938-08-12		-25.00
1938-08-05		-25.05	1938-07-29		-24.98
1938-07-22		-24.88	1938-07-15		-24.79
1938-07-08		-25.72	1938-07-01		-24.66
1938-06-25		-24.75	1938-06-18		-24.09
1938-06-11		-24.43	1938-06-04		-24.48
1938-05-28		-24.29	1938-05-21		-24.32
1938-05-14		-24.35	1938-05-07		-24.29
1938-04-30		-24.32	1938-04-23		-24.17
1938-04-16		-24.36	1938-04-09		-24.05
1938-04-02		-24.24	1938-03-26		-24.10
1938-03-19		-24.07	1938-03-12		-23.99
1938-03-05		-23.99	1938-02-26		-24.17
1938-02-19		-24.19	1938-02-12		-24.00

A6
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000828451**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404055073583801		
Monloc name:	K 657. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820476
Longitude:	-73.9768054	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	44.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	227
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A7
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000828468**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404057073583701		
Monloc name:	K 19. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6828809
Longitude:	-73.9773609	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	46.9
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Jameco Aquifer		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	186
Welldepth units:	ft	Wellholedepth:	186
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 276

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-03-17		8.15	2002-03-21		7.73
2001-03-21		8.15	2000-03-22		8.01
1999-03-23		8.43	1998-05-28		8.88
1998-04-29		8.67	1998-03-25		8.49
1998-02-26		8.49	1998-01-26		8.27
1997-12-29		8.33	1997-11-26		8.48
1997-10-29		8.39	1997-09-29		8.56
1997-03-18		8.57	1996-07-12		8.31
1995-09-29		7.73	1995-06-22		7.87
1995-03-15		8.28	1995-01-03		8.59
1994-06-28		8.97	1993-11-22		8.35
1993-08-25		8.38	1993-07-22		8.51
1993-06-22		8.66	1993-05-24		8.82
1993-04-28		8.91	1993-03-23		8.44
1993-01-19		8.41	1992-12-28		8.39
1992-11-19		8.25	1992-10-27		8.29
1992-09-18		8.37	1992-08-24		8.34
1992-07-14		8.31	1989-03-08		8.14
1988-06-01		8.17	1987-09-10		7.97

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1987-03-10		7.79
1986-06-13		7.59
1985-10-01		7.57
1984-12-18		10.17
1984-06-28		10.27
1984-01-05		9.80
1983-03-25		8.83
1982-10-06		8.56
1982-04-02		9.08
1981-09-23		8.47
1981-03-27		9.41
1980-09-23		9.87
1980-03-13		9.46
1979-09-17		10.47
1978-06-14		10.18
1976-12-21		8.00
1976-07-09		7.97
1975-10-07		8.41
1975-03-26		7.85
1974-09-25		7.62
1974-06-28		7.98
1974-01-09		8.24
1973-07-09		7.77
1972-12-27		7.37
1972-07-10		7.67
1972-01-13		6.94
1971-07-28		8.33
1971-03-08		5.38
1970-10-30		6.38
1970-03-13		6.38
1969-11-10		5.90
1969-08-04		5.48
1969-05-28		5.00
1969-04-01		4.79
1969-01-30		4.57
1968-12-03		4.07
1968-09-30		3.94
1968-07-29		4.13
1968-05-28		4.12
1968-03-27		4.29
1968-02-05		4.29
1967-11-29		3.93
1967-09-26		3.82
1967-07-28		3.56
1967-05-31		3.67
1967-03-29		3.48
1967-01-31		1.93
1966-12-01		2.96
1966-09-30		2.66
1966-07-29		2.59
1966-05-26		3.17
1966-03-30		3.31
1966-01-28		3.08
1965-12-02		3.12
1965-10-07		3.07

Date	Feet below Surface	Feet to Sealevel
1986-09-10		7.46
1985-12-03		7.64
1985-05-21		8.48
1984-10-05		9.78
1984-03-16		9.83
1983-09-28		8.34
1982-12-21		8.27
1982-06-30		8.87
1981-12-29		8.77
1981-06-25		8.96
1980-12-30		9.60
1980-06-19		10.29
1979-12-18		10.02
1979-06-28		10.58
1977-03-29		7.77
1976-09-22		7.99
1975-12-16		8.03
1975-06-30		7.50
1974-12-20		7.83
1974-09-05		7.95
1974-03-19		8.20
1973-09-25		7.29
1973-04-03		7.58
1972-09-29		7.04
1972-03-28		6.77
1971-09-23		7.01
1971-05-05		7.33
1971-02-09		6.59
1970-05-08		6.67
1970-02-06		5.97
1969-09-02		5.69
1969-07-02		5.14
1969-04-22		4.99
1969-03-01		4.59
1969-01-08		4.39
1968-11-06		3.87
1968-08-28		3.92
1968-06-26		4.15
1968-04-22		4.40
1968-03-06		4.01
1968-01-02		4.63
1967-10-20		3.62
1967-09-07		3.82
1967-07-06		3.57
1967-05-04		3.38
1967-02-24		3.25
1966-12-23		3.09
1966-10-25		2.68
1966-08-29		2.64
1966-06-27		2.94
1966-05-04		3.16
1966-03-02		3.07
1965-12-30		3.41
1965-10-28		3.09
1965-09-09		3.09

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1965-07-23		3.13
1965-05-24		3.28
1965-03-25		3.03
1965-01-29		2.80
1964-11-25		2.69
1964-10-01		2.57
1964-07-27		2.89
1964-05-28		2.74
1964-03-30		2.85
1964-01-28		2.45
1963-12-05		2.14
1963-09-30		2.23
1963-07-30		2.43
1963-06-03		2.92
1963-03-29		3.04
1963-01-31		3.06
1962-12-04		3.07
1962-08-31		3.03
1962-07-02		3.37
1962-04-26		3.75
1962-03-05		3.27
1961-12-28		3.08
1961-10-31		2.42
1961-08-31		2.88
1961-06-29		2.60
1961-04-26		2.61
1961-03-01		2.12
1960-12-06		1.57
1960-09-28		1.23
1960-08-02		1.10
1960-06-02		1.44
1960-03-29		1.26
1960-01-27		0.94
1959-12-01		0.60
1959-10-06		0.53
1959-08-04		0.87
1959-06-01		1.41
1959-04-03		1.54
1959-01-29		1.34
1958-10-30		1.16
1958-07-29		1.14
1958-05-29		1.20
1958-04-08		0.59
1958-01-28		0.16
1957-11-22		-0.19
1957-09-24		-0.43
1957-07-24		-0.24
1957-05-28		0.09
1957-03-27		0.07
1957-01-25		-0.03
1956-11-29		-0.18
1956-09-04		-0.41
1956-07-03		-0.33
1956-05-03		-0.28
1956-03-05		-0.69

Date	Feet below Surface	Feet to Sealevel
1965-06-24		3.15
1965-05-04		3.31
1965-02-24		3.00
1964-12-31		2.49
1964-11-02		2.72
1964-09-02		2.32
1964-07-06		2.79
1964-04-23		2.76
1964-02-28		2.58
1963-12-31		2.20
1963-11-05		2.14
1963-09-03		2.44
1963-07-02		2.61
1963-04-25		3.04
1963-02-28		3.02
1963-01-03		3.17
1962-10-03		2.96
1962-07-30		3.45
1962-05-29		4.36
1962-03-27		3.36
1962-01-31		3.00
1961-11-28		2.89
1961-09-28		2.63
1961-08-01		2.59
1961-05-31		2.91
1961-03-28		2.43
1961-01-30		1.97
1960-11-02		1.46
1960-08-30		1.09
1960-06-30		1.24
1960-05-04		1.32
1960-03-08		1.16
1960-01-05		0.93
1959-11-02		0.71
1959-09-03		0.73
1959-07-02		1.12
1959-05-06		1.36
1959-03-02		1.59
1959-01-07		1.47
1958-08-28		0.94
1958-06-30		1.14
1958-05-01		0.79
1958-03-03		0.40
1957-12-31		-0.04
1957-10-30		-0.23
1957-09-04		-0.21
1957-06-27		-0.12
1957-04-24		0.17
1957-02-27		0.21
1956-12-20		-0.16
1956-10-02		-0.31
1956-08-02		-0.35
1956-06-05		-0.17
1956-03-29		-0.56
1956-02-03		-0.96

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1955-12-22		-1.11	1955-12-02		-1.43
1955-11-04		-1.66	1955-10-07		-1.88
1955-08-25		-2.01	1955-07-26		-1.97
1955-06-23		-1.71	1955-05-24		-1.47
1955-04-26		-1.34	1955-03-29		-1.54
1955-02-21		-1.71	1955-01-25		-1.77
1954-12-27		-2.03	1954-12-02		-2.29
1954-10-28		-2.61	1954-10-05		-2.79
1954-08-25		-2.62	1954-07-29		-2.74

8
WNW **FED USGS** **USGS40000828523**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404106073584001		
Monloc name:	K 18. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6851031
Longitude:	-73.9773609	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	48.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

9
SE **FED USGS** **USGS40000828264**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404033073573001		
Monloc name:	K 2450. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6759366
Longitude:	-73.9579159	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	101
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

10
ESE **FED USGS** **USGS40000828390**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404047073571601		
Monloc name:	K 2556. 1		
Monloc type:	Well		
Monloc desc:	1601		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6798254
Longitude:	-73.9540269	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	65.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	165
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

11
NNW **FED USGS** **USGS40000828732**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404135073580901		
Monloc name:	K 658. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6931585
Longitude:	-73.9687496	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	61.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	201
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

12
WNW **FED USGS** **USGS40000828558**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404111073584601		
Monloc name:	K 659. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6864919
Longitude:	-73.9790277	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	170
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

13
NE **FED USGS** **USGS40000828675**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404126073572501		
Monloc name:	K 256. 1		
Monloc type:	Well		
Monloc desc:	2501		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6906585
Longitude:	-73.956527	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	50.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	174
Welldepth units:	ft	Wellholedepth:	206
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

B14
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828293**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404037073584001		
Monloc name:	K 3301. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6767699
Longitude:	-73.9773609	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	60.6
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	19840301	Welldepth:	70
Welldepth units:	ft	Wellholedepth:	70
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 136

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-02-15		17.93	2005-01-21		18.11
2004-12-15		17.65	2004-11-30		17.90
2004-10-21		18.16	2004-09-21		18.10
2004-08-25		17.98	2004-07-20		18.07
2004-06-16		18.05	2004-05-25		18.32
2004-04-30		17.64	2004-03-21		17.53
2004-02-25		17.74	2003-11-25		17.38
2003-11-19		17.73	2003-10-29		18.06
2003-09-24		17.98	2003-08-26		18.00
2003-07-21		18.00	2003-06-25		17.30

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2003-05-20		16.46
2003-03-17		15.97
2002-12-27		14.27
2002-10-21		13.65
2002-06-18		12.96
2002-04-24		13.18
2002-02-27		14.21
2001-12-28		14.71
2001-10-24		15.45
2001-08-30		15.27
2001-06-28		15.22
2001-04-25		14.40
2001-02-22		13.71
2000-12-19		14.47
2000-10-24		14.50
2000-08-24		14.68
2000-06-28		14.20
2000-04-27		13.67
2000-02-29		13.91
1999-11-23		14.03
1999-09-23		14.55
1999-07-20		14.81
1999-05-18		14.95
1999-03-23		14.93
1999-01-27		15.64
1998-10-29		17.12
1998-09-01		17.65
1998-06-10		17.38
1998-04-29		16.42
1998-01-29		16.33
1997-11-26		16.74
1997-09-29		17.75
1997-06-26		17.68
1997-03-18		17.00
1997-01-24		16.45
1996-09-19		17.13
1996-03-13		16.21
1995-09-26		16.28
1995-05-23		15.97
1995-01-25		15.56
1994-10-18		16.51
1994-08-24		16.44
1994-06-20		16.79
1994-04-26		16.30
1994-02-22		15.29
1993-11-18		15.68
1993-09-15		16.23
1993-07-15		16.55
1993-05-20		16.45
1993-03-26		15.16
1993-01-26		14.61
1992-11-24		14.83
1991-03-20		16.73
1990-03-27		16.61
1988-06-01		15.82

Date	Feet below Surface	Feet to Sealevel
2003-04-28		16.50
2003-01-28		14.80
2002-11-26		13.89
2002-09-25		13.35
2002-05-29		13.27
2002-03-21		13.99
2002-01-28		14.15
2001-11-15		14.98
2001-09-26		15.31
2001-07-24		15.40
2001-05-24		15.06
2001-03-20		13.62
2001-01-17		14.04
2000-11-28		14.57
2000-09-27		14.53
2000-07-27		14.32
2000-05-23		14.08
2000-03-23		13.63
1999-12-13		14.14
1999-10-19		14.03
1999-08-17		14.60
1999-06-24		14.97
1999-04-28		14.73
1999-03-02		15.53
1998-11-24		16.67
1998-09-29		17.31
1998-07-28		17.91
1998-05-20		17.34
1998-03-25		15.66
1997-12-17		16.36
1997-11-05		16.21
1997-07-23		17.19
1997-05-29		17.13
1997-02-28		16.98
1997-01-07		16.99
1996-07-02		17.51
1995-11-28		16.10
1995-07-19		16.44
1995-03-14		15.95
1994-12-13		15.62
1994-09-21		16.49
1994-07-27		17.01
1994-05-17		16.81
1994-03-25		15.83
1993-12-27		15.00
1993-10-28		16.30
1993-08-18		16.45
1993-06-22		16.77
1993-04-29		15.66
1993-02-24		14.86
1992-12-29		14.67
1992-03-18		15.50
1990-04-04		17.50
1989-04-11		14.51
1985-10-01		16.10

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1985-05-21		16.78	1984-12-18		18.60
1984-10-04		20.10	1984-06-28		20.16
1984-03-16		18.46	1984-03-02		18.37

B15
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828284**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404036073584008		
Monloc name:	K 3261. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6770477
Longitude:	-73.9776387	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	64.8
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	45
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 172

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-01-28		23.61	2001-12-28		24.06
2001-11-15		24.59	2001-10-24		25.01
2001-09-26		25.44	2001-08-30		25.37
2001-07-24		25.18	2001-06-28		25.19
2001-05-24		24.70	2001-04-25		23.92
2001-03-20		23.35	2001-02-22		23.31
2001-01-17		23.54	2000-12-19		23.81
2000-11-28		23.96	2000-10-24		24.12
2000-09-27		24.22	2000-08-24		23.99
2000-07-27		23.81	2000-06-28		23.28
2000-05-23		23.03	2000-04-27		22.82
2000-03-23		22.79	2000-02-29		22.83
1999-12-13		23.24	1999-11-23		23.33
1999-10-19		23.59	1999-09-23		23.82
1999-08-17		24.03	1999-07-20		24.13
1999-06-24		24.17	1999-05-18		24.18
1999-04-28		24.22	1999-03-23		24.37
1999-03-02		24.62	1999-01-27		25.10

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1998-11-24		26.29
1998-09-29		27.33
1998-07-28		27.89
1998-05-20		26.72
1998-03-25		25.51
1997-12-17		26.17
1997-11-05		26.71
1997-07-23		27.56
1997-05-29		27.43
1997-02-28		26.82
1997-01-07		26.69
1996-07-02		27.45
1995-11-28		25.39
1995-07-19		26.07
1995-03-14		25.11
1994-12-13		25.36
1994-09-21		26.44
1994-07-27		26.83
1994-05-17		26.23
1994-03-25		25.46
1993-12-27		24.83
1993-10-28		25.49
1993-08-18		26.27
1993-06-22		26.32
1993-04-29		25.45
1993-02-24		24.27
1992-12-29		24.14
1992-10-28		24.44
1992-08-25		24.46
1992-06-23		24.43
1992-04-14		25.66
1992-02-19		25.17
1991-12-18		26.63
1991-10-16		26.05
1991-08-15		26.41
1991-06-12		26.63
1991-04-15		26.33
1991-02-21		26.26
1990-12-10		26.63
1990-10-10		26.67
1990-08-14		26.43
1990-06-20		26.32
1990-04-24		26.18
1990-03-27		26.37
1990-01-24		26.74
1989-11-21		27.15
1989-09-29		26.89
1989-07-25		25.86
1989-05-22		24.29
1989-04-11		24.04
1989-02-28		24.29
1988-12-09		24.65
1988-10-19		25.04
1988-08-31		25.21
1988-06-17		25.13

Date	Feet below Surface	Feet to Sealevel
1998-10-29		26.78
1998-09-01		27.73
1998-06-10		27.28
1998-04-29		26.16
1998-01-29		25.48
1997-11-26		26.39
1997-09-29		27.18
1997-06-26		27.61
1997-03-18		26.89
1997-01-24		26.81
1996-09-19		27.36
1996-03-13		25.62
1995-09-26		25.82
1995-05-23		25.88
1995-01-25		25.01
1994-10-18		26.05
1994-08-24		26.78
1994-06-20		26.70
1994-04-26		25.71
1994-02-22		25.49
1993-11-18		25.21
1993-09-15		25.96
1993-07-15		26.40
1993-05-20		25.95
1993-03-23		24.84
1993-01-26		24.11
1992-11-24		24.04
1992-09-16		24.47
1992-07-15		24.45
1992-05-12		24.56
1992-03-18		25.91
1992-01-22		26.45
1991-11-14		25.85
1991-09-17		26.22
1991-07-16		26.63
1991-05-15		26.51
1991-03-20		26.31
1991-01-24		26.30
1990-11-13		26.66
1990-09-12		26.52
1990-07-12		26.41
1990-05-25		26.20
1990-04-04		26.26
1990-02-26		26.45
1989-12-28		26.91
1989-10-27		26.86
1989-08-31		26.60
1989-06-22		25.06
1989-04-28		24.10
1989-03-29		24.03
1989-01-17		24.42
1988-11-16		24.83
1988-09-14		25.20
1988-07-22		25.33
1988-06-01		25.26

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1985-10-01		25.49	1985-05-21		26.01
1984-12-18		30.30	1984-10-04		31.41
1984-06-28		31.01	1984-03-16		31.86
1984-01-05		28.48	1983-09-28		28.26
1983-06-29		26.81	1983-03-25		25.81
1982-12-21		25.81	1982-10-06		25.68
1982-06-30		25.11	1982-04-01		25.30
1981-12-29		25.47	1981-09-23		25.76
1981-06-25		26.23	1981-03-20		26.36
1981-02-25		26.37	1980-12-30		28.27
1980-12-30		28.28	1980-09-23		30.01
1980-09-02		29.84	1980-06-24		29.35
1980-06-10		28.81	1980-04-09		24.66

16
WNW **FED USGS** **USGS40000828601**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404117073584801		
Monloc name:	K 1073. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6881585
Longitude:	-73.9795832	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	32.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

17
NW **FED USGS** **USGS40000828703**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404130073584001		
Monloc name:	K 661. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6917696
Longitude:	-73.977361	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	54.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	148
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C18
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828787**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404143073580901		
Monloc name:	K 1288. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6953806
Longitude:	-73.9687496	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
19 **ESE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000828338**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404041073570501		
Monloc name:	K 615. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6781588
Longitude:	-73.9509713	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	70.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

D20 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000828619**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404119073585301		
Monloc name:	K 660. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6887141
Longitude:	-73.9809722	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	125
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

D21
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828606**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404118073585401		
Monloc name:	K 277. 1		
Monloc type:	Well		
Monloc desc:	5401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6884363
Longitude:	-73.9812499	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	37.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	83
Welldepth units:	ft	Wellholedepth:	146
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

E22
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828587**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404115073585601		
Monloc name:	K 656. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.687603
Longitude:	-73.9818055	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	43.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	159
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

23
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000828469**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404057073585901		
Monloc name:	K 3259. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6823253
Longitude:	-73.9829167	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 45

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-03-14		13.98	1995-01-03		13.34
1994-06-28		13.99	1994-03-25		14.42
1993-11-22		12.15	1993-08-25		12.04
1993-07-22		12.75	1993-06-22		13.30
1993-06-14		13.47	1993-03-23		13.46
1993-01-19		13.09	1992-12-28		12.92
1992-11-19		12.13	1992-10-27		11.90
1992-09-18		12.32	1992-07-14		12.76
1992-03-18		11.35	1991-03-20		12.45
1990-03-27		12.47	1989-04-11		12.81
1988-06-01		13.38	1985-10-01		12.45
1985-05-21		12.53	1984-12-18		12.91
1984-10-05		13.24	1984-06-28		13.60
1984-03-16		13.38	1984-01-05		5.13
1983-09-28		5.98	1983-06-29		12.13
1983-03-25		12.38	1982-12-21		11.88
1982-10-06		13.28	1982-06-30		13.66
1982-03-24		13.42	1981-12-29		13.90
1981-09-23		14.24	1981-06-25		13.76

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1981-03-20		13.94	1981-02-10		13.43
1980-12-30		13.16	1980-09-23		13.35
1980-06-24		13.06	1980-06-10		14.02
1980-04-11		12.13			

F24
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828802**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404145073575701		
Monloc name:	K 1319. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6959362
Longitude:	-73.9654162	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	145
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

F25
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828803**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404145073575702		
Monloc name:	K 1340. 1		
Monloc type:	Well		
Monloc desc:	5702		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6959362
Longitude:	-73.9654162	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	145
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G26
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828804**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404145073580401		
Monloc name:	K 1548. 1		
Monloc type:	Well		
Monloc desc:	0401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6959362
Longitude:	-73.9673607	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

27
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828549**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404109073585901		
Monloc name:	K 655. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6859364
Longitude:	-73.9826389	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	39.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	214
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

28
NNW **FED USGS** **USGS40000828780**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404141073582601		
Monloc name:	K 729. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6948251
Longitude:	-73.973472	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	45.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	175
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

F29
North **FED USGS** **USGS40000828810**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404146073575601		
Monloc name:	K 1313. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.696214
Longitude:	-73.9651384	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	161
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C30
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828812**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404146073580702		
Monloc name:	K 1018. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6962139
Longitude:	-73.968194	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	18.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C31
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828811**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404146073580701		
Monloc name:	K 1015. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6962139
Longitude:	-73.968194	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	92
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

H32
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828733**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404135073584001		
Monloc name:	K 3276. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6931584
Longitude:	-73.977361	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	54
Welldepth units:	ft	Wellholedepth:	54
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 176

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-08-26		5.76	2003-06-25		5.83
2003-05-20		5.66	2003-04-28		5.80
2003-03-17		5.85	2003-01-28		5.65
2002-12-27		5.62	2002-11-26		5.35
2002-10-21		5.03	2002-09-25		4.80
2002-08-30		4.68	2002-07-22		4.75
2002-06-19		4.80	2002-05-29		4.93
2002-04-24		4.97	2002-03-21		5.04
2002-02-27		5.01	2002-01-28		5.12
2001-12-28		5.18	2001-11-15		5.34

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2001-10-24		5.41
2001-08-29		5.36
2001-06-28		5.56
2001-04-25		5.91
2001-02-22		5.47
2000-12-19		5.31
2000-10-24		5.33
2000-08-24		5.35
2000-06-28		5.30
2000-04-27		5.35
2000-02-29		5.31
1999-11-23		5.31
1999-09-23		5.18
1999-07-20		4.99
1999-05-18		5.33
1999-03-23		5.48
1999-01-27		5.40
1998-10-29		5.37
1998-09-01		5.63
1998-06-10		6.09
1998-04-29		6.01
1998-01-29		5.84
1997-11-26		5.57
1997-09-29		5.46
1997-06-26		5.58
1997-03-18		5.83
1997-01-24		5.79
1996-09-19		5.54
1996-03-13		5.68
1995-09-26		5.16
1995-03-14		5.72
1994-12-13		5.74
1994-09-21		5.77
1994-07-27		5.83
1994-05-17		6.25
1994-03-25		6.11
1993-11-18		5.50
1993-09-15		5.33
1993-07-15		5.62
1993-05-20		6.08
1993-03-23		5.59
1993-01-26		5.44
1992-11-24		5.25
1992-09-16		5.32
1992-07-15		5.30
1992-06-15		5.37
1992-04-14		5.70
1992-02-19		5.83
1991-12-18		5.81
1991-10-16		5.78
1991-05-15		6.02
1991-03-20		6.01
1991-01-24		5.89
1990-11-13		6.01
1990-09-12		5.91

Date	Feet below Surface	Feet to Sealevel
2001-09-26		5.37
2001-07-24		5.45
2001-05-24		5.70
2001-03-20		5.53
2001-01-17		5.33
2000-11-28		5.22
2000-09-27		5.28
2000-07-27		5.21
2000-05-23		5.26
2000-03-22		5.27
1999-12-13		5.12
1999-10-19		5.27
1999-08-17		4.95
1999-06-24		5.10
1999-04-28		5.52
1999-03-02		5.49
1998-11-24		5.43
1998-09-29		5.48
1998-07-28		5.89
1998-05-20		6.27
1998-03-25		5.93
1997-12-17		5.48
1997-11-05		5.39
1997-07-23		5.47
1997-05-29		5.64
1997-02-28		5.85
1997-01-07		5.95
1996-07-02		5.64
1995-11-28		5.46
1995-05-23		5.53
1995-01-25		5.79
1994-10-18		5.85
1994-08-24		5.78
1994-06-20		5.96
1994-04-26		6.20
1993-12-27		5.46
1993-10-28		5.52
1993-08-18		5.37
1993-06-22		5.78
1993-04-29		6.18
1993-02-24		5.82
1992-12-29		5.38
1992-10-28		5.26
1992-08-25		5.29
1992-06-23		5.37
1992-05-12		5.59
1992-03-18		5.66
1992-01-22		5.72
1991-11-14		5.84
1991-09-24		5.66
1991-04-15		6.13
1991-02-21		5.65
1990-12-10		5.84
1990-10-10		5.96
1990-08-14		5.71

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-07-12		5.67	1990-06-20		5.68
1990-05-25		5.59	1990-04-24		5.87
1990-04-04		5.67	1990-03-27		5.61
1990-02-26		6.33	1990-01-24		5.79
1989-12-28		6.02	1989-11-21		5.89
1989-10-27		6.00	1989-09-29		5.84
1989-08-31		5.83	1989-07-25		5.97
1989-06-22		5.90	1989-05-22		5.48
1989-04-28		5.23	1989-03-29		5.05
1989-02-28		5.50	1989-01-17		5.62
1988-12-09		5.61	1988-11-16		5.01
1988-10-19		5.16	1988-09-14		5.08
1988-08-31		5.08	1988-07-22		5.04
1988-06-17		5.06	1988-06-01		5.73
1985-10-01		4.30	1985-05-21		5.30
1984-12-18		6.03	1984-10-04		6.14
1984-06-28		6.64	1984-03-16		6.33
1984-01-05		6.71	1983-09-28		6.16
1983-06-29		5.63	1983-03-25		5.98
1982-12-21		5.55	1982-10-06		5.78
1982-06-30		5.82	1982-04-01		5.98
1981-12-29		5.80	1981-09-23		5.23
1981-06-29		5.09	1981-04-01		5.98

H33
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828742**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404136073584001		
Monloc name:	K 3276. 2		
Monloc type:	Well		
Monloc desc:	E/SIDE OF ST. EDWARDS ST, 75 FT S/O MYRTLE AVE		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6934362
Longitude:	-73.9772498	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	42
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Unconfined single aquifer		
Construction date:	20040427	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	60
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
D34 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000828620**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404119073585701		
Monloc name:	K 320. 1		
Monloc type:	Well		
Monloc desc:	5701		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6887141
Longitude:	-73.9820833	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	114
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G35 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000828817**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404147073580201		
Monloc name:	K 82. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6964917
Longitude:	-73.9668051	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G36
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828818**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404147073580501		
Monloc name:	K 1488. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6964917
Longitude:	-73.9676385	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G37
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828823**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404148073580208		
Monloc name:	K 81. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6967695
Longitude:	-73.9668051	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	96
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 20

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-04-22		1.53	1968-11-06		-0.94
1968-04-22		-0.29	1967-10-20		0.28
1967-03-28		0.05	1966-10-25		-0.94
1966-05-03		-0.79	1965-10-27		-1.36
1965-09-14		-1.21	1965-05-24		-0.91
1964-10-30		-1.69	1964-04-23		-1.62
1963-04-26		-2.40	1962-04-26		-2.24
1961-12-28		-2.83	1961-01-09		-5.61
1960-01-14		-5.75	1959-03-16		-4.51
1954-12-17		-15.64	1953-01-22		-15.11

E38
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828602**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404117073590001		
Monloc name:	K 290. 1		
Monloc type:	Well		
Monloc desc:	0001		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6881585
Longitude:	-73.9829167	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	39.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	104
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

39
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828627**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404120073585901		
Monloc name:	K 259. 1		
Monloc type:	Well		
Monloc desc:	5901		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6889919
Longitude:	-73.9826389	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	86
Welldepth units:	ft	Wellholedepth:	113
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

40
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828660**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404124073585701		
Monloc name:	K 1302. 1		
Monloc type:	Well		
Monloc desc:	5701		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6901029
Longitude:	-73.9820833	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	79
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
41 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000828837**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404150073580301		
Monloc name:	K 1051. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.697325
Longitude:	-73.9670829	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
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Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
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Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	86
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

---

42 **NE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000828770**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404139073571701		
Monloc name:	K 95. 1		
Monloc type:	Well		
Monloc desc:	1701		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6942696
Longitude:	-73.9543047	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
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Formation type:	Glacial Aquifer, Upper		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix C

Aerial Photographs

White Memorial Chapels
882 Fulton Street
Brooklyn, NY 11238

Inquiry Number: 3736798.5
September 24, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography September 24, 2013

Target Property:

882 Fulton Street

Brooklyn, NY 11238

Year	***Scale***	***Details***	***Source***
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: January 01, 1924	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: February 23, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 01, 1975	EDR
1978	Aerial Photograph. Scale: 1"=1000'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: October 01, 1978	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 27, 1984	EDR
1994	Aerial Photograph. Scale: 1"=750'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 04, 1994	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/DOQQ - acquisition dates: April 04, 1994	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Year: 2006	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Year: 2011	EDR

INQUIRY #: 3736798.5
YEAR: 1975
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3736798.5
YEAR: 1978
= 1000'
N
EDR Environmental Data Resources Inc

11-391
INQUIRY #: 3736798.5
YEAR: 1984
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3736798.5
YEAR: 1994
= 750'
N

INQUIRY #: 3736798.5

YEAR: 1994

= 500'

N

EDR® Environmental Data Resources Inc

INQUIRY #: 3736798.5
YEAR: 1924
= 500'
N

INQUIRY #: 3736798.5
YEAR: 1954
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3736798.5
YEAR: 1966
= 500'
N

INQUIRY #: 3736798.5
YEAR: 2006
= 500'
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EDR Environmental Data Resources Inc

INQUIRY #: 3736798.5
YEAR: 2009
= 500'
N

INQUIRY #: 3736798.5
YEAR: 2011
= 500'
N

Appendix D

Sanborn Maps

White Memorial Chapels
882 Fulton Street
Brooklyn, NY 11238

Inquiry Number: 3736798.3
September 24, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

9/24/13

Site Name:
White Memorial Chapels
882 Fulton Street
Brooklyn, NY 11238

EDR Inquiry # 3736798.3

Client Name:
DVD Environmental
P.O. Box 2152
Cliffside Park, NJ 07010

Contact: Tim Donohoe

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by DVD Environmental were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: White Memorial Chapels
Address: 882 Fulton Street
City, State, Zip: Brooklyn, NY 11238
Cross Street:
P.O. # 882 Fulton Street
Project: White Memorial Chapel
Certification # 77FE-48F9-9490

Maps Provided:

2007	2001	1989	1980	1915
2006	1996	1988	1979	1904
2005	1995	1987	1977	1887
2004	1993	1986	1969	
2003	1992	1982	1950	
2002	1991	1981	1938	

Sanborn® Library search results
Certification # 77FE-48F9-9490

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

2006 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

2005 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

2004 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

2003 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

2002 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

2001 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1996 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1995 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1993 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1992 Source Sheets

Volume 2, Sheet 37

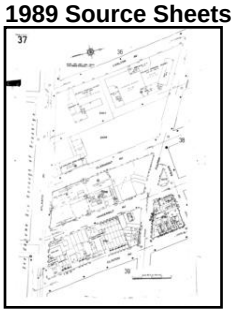
Volume 2, Sheet 39

1991 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1989 Source Sheets



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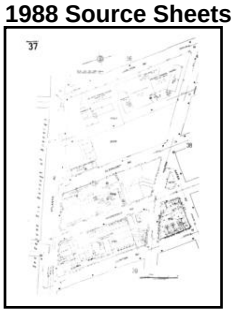
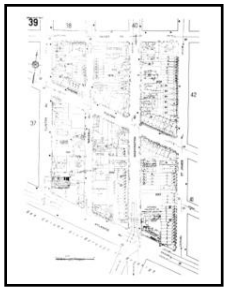
Volume 2, Sheet 39

1988 Source Sheets



Volume 2, Sheet 37



Volume 2, Sheet 39

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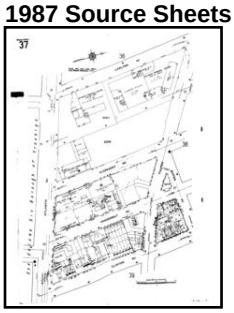

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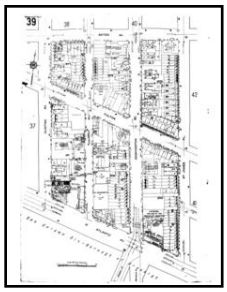
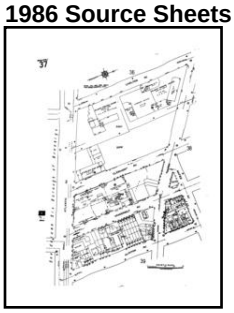


Volume 2, Sheet 39

1986 Source Sheets



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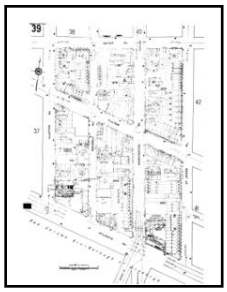
Volume 2, Sheet 39

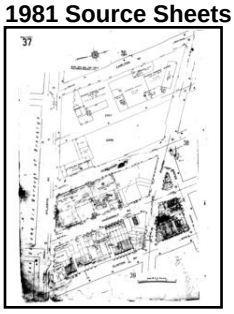
1982 Source Sheets

Volume 2, Sheet 37



Volume 2, Sheet 39

1981 Source Sheets



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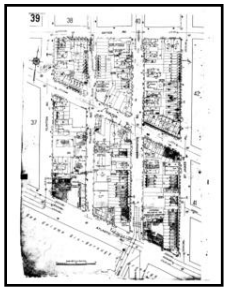

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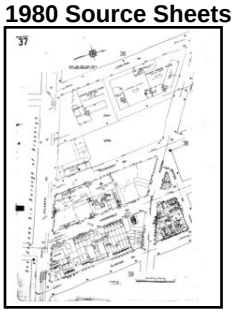
1980 Source Sheets



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Volume 2, Sheet 39

1979 Source Sheets

Volume 2, Sheet 37

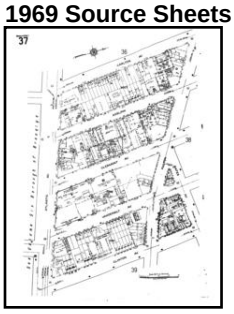
Volume 2, Sheet 39

1977 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1969 Source Sheets



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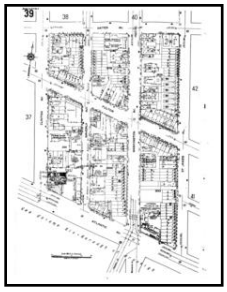

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1950 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1938 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1915 Source Sheets

Volume 2, Sheet 37

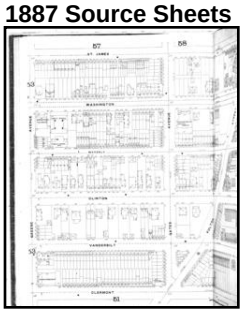
Volume 2, Sheet 39

1904 Source Sheets

Volume 2, Sheet 37

Volume 2, Sheet 39

1887 Source Sheets



Volume 2, Sheet 52

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Certification # 77FE-48F9-9490

Site Name:	White Memorial Chapels
Address:	882 Fulton Street
City, ST, ZIP:	Brooklyn NY 11238
Client:	DVD Environmental
EDR Inquiry:	3736798.3
Order Date:	9/24/2013 10:14:01 AM
Certification #	77FE-48F9-9490
Copyright:	2007

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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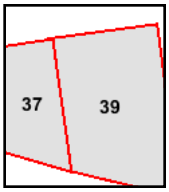

Volume 2, Sheet 37
Volume 2, Sheet 39

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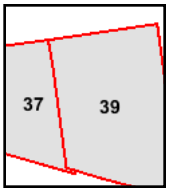

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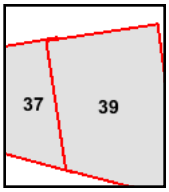

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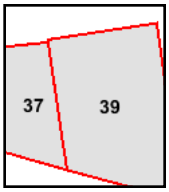

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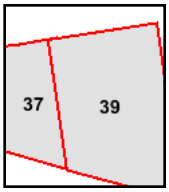

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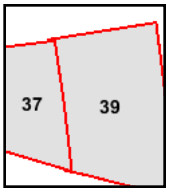

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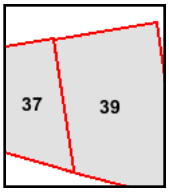

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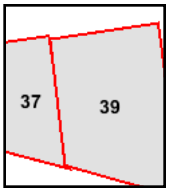

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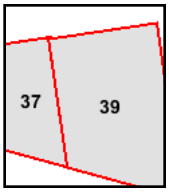

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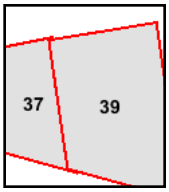

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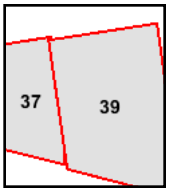

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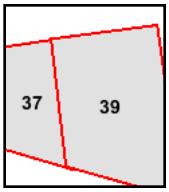

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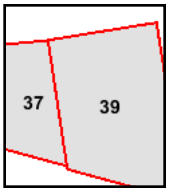

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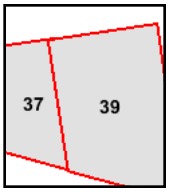

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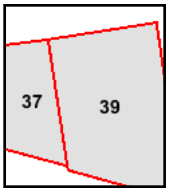

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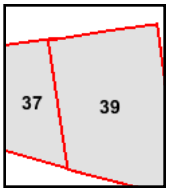

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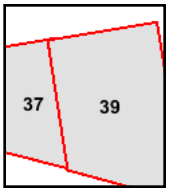

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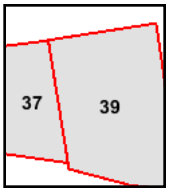

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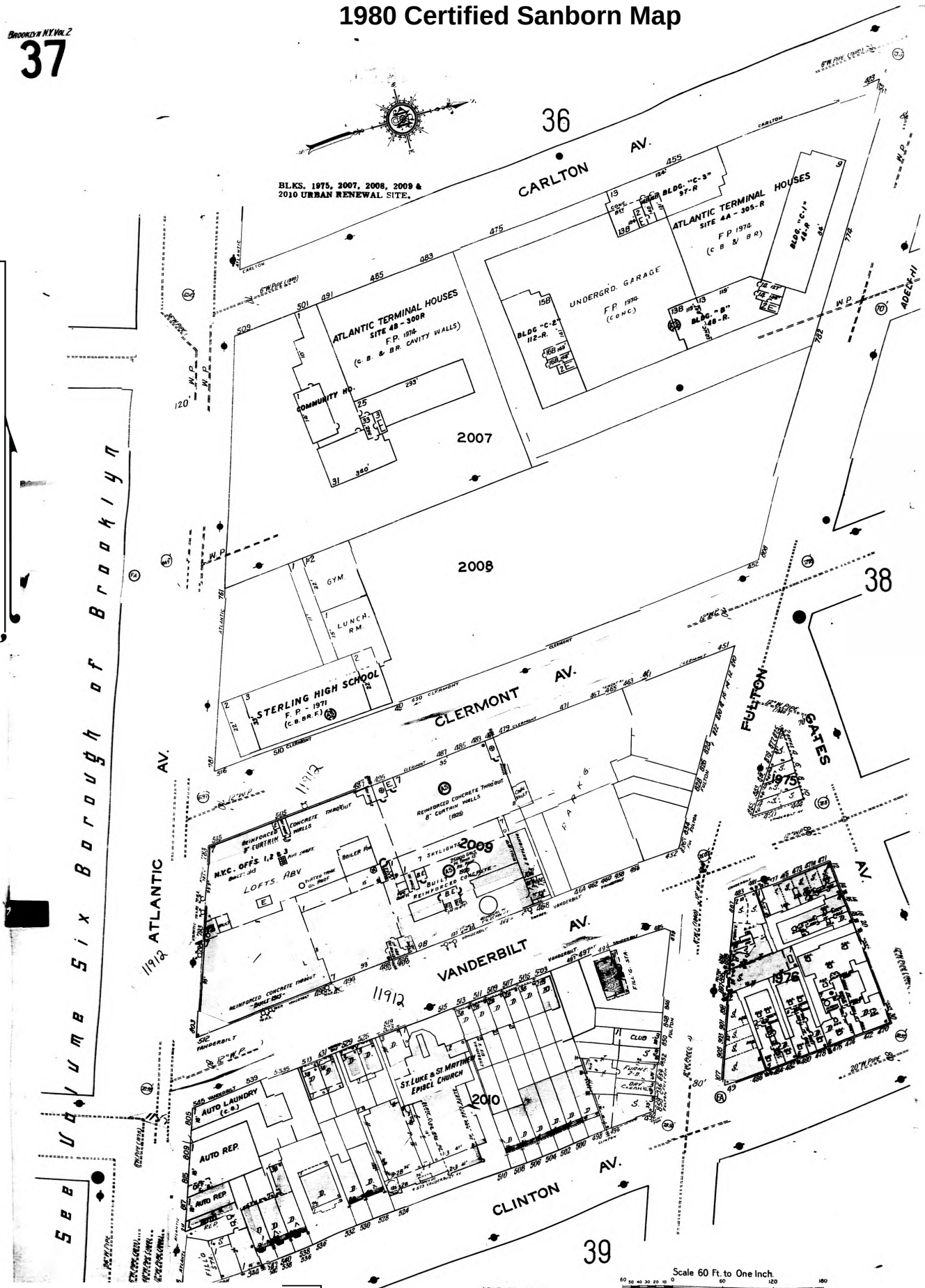

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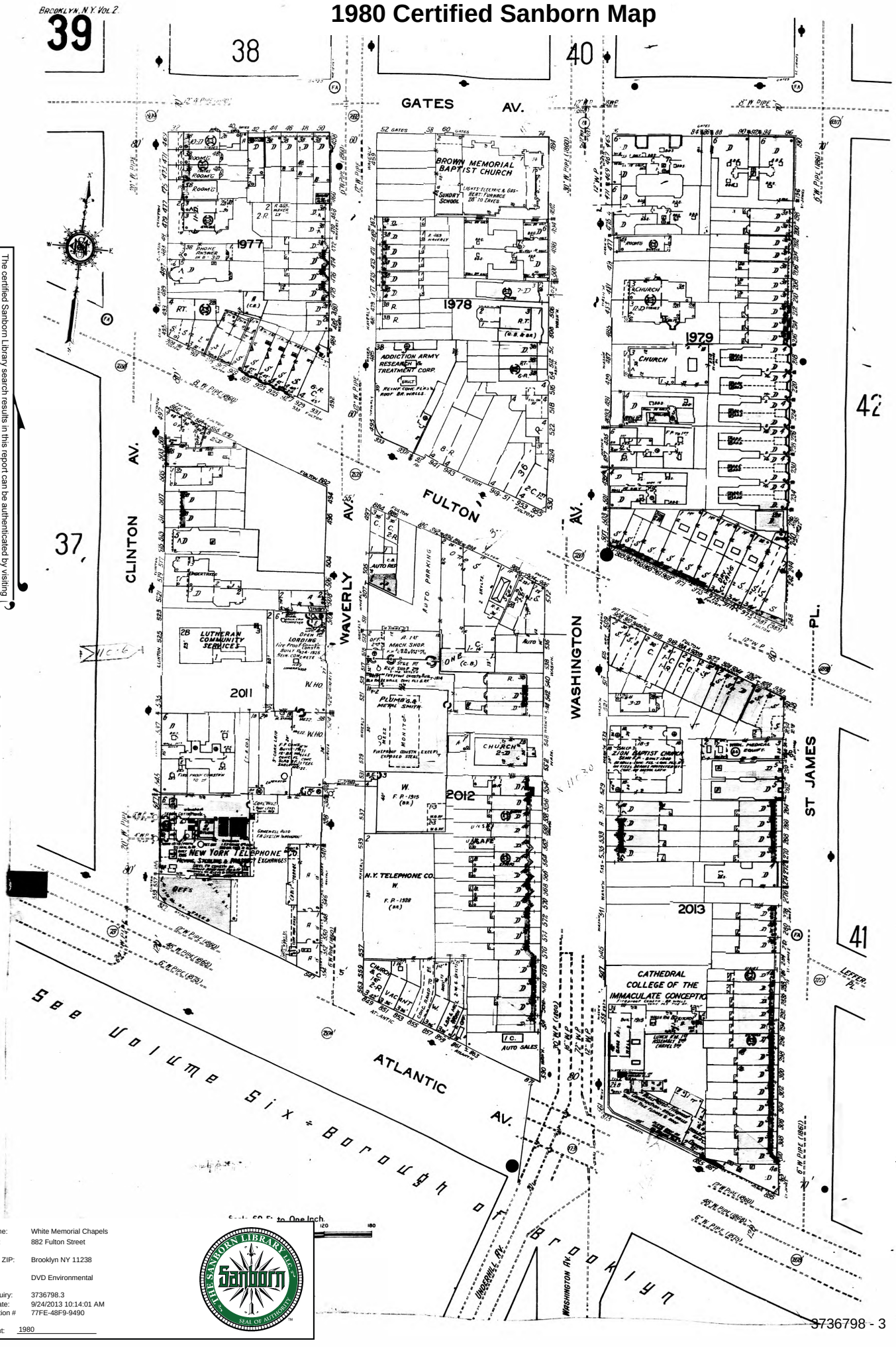

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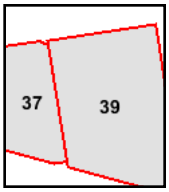

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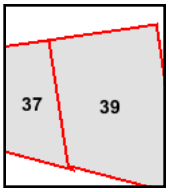

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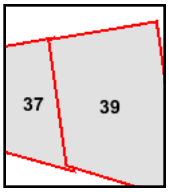

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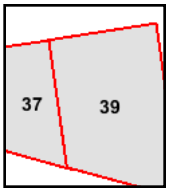

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1938 Certified Sanborn Map

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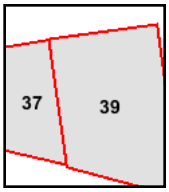

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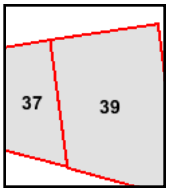

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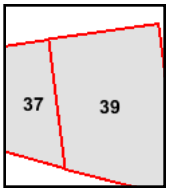

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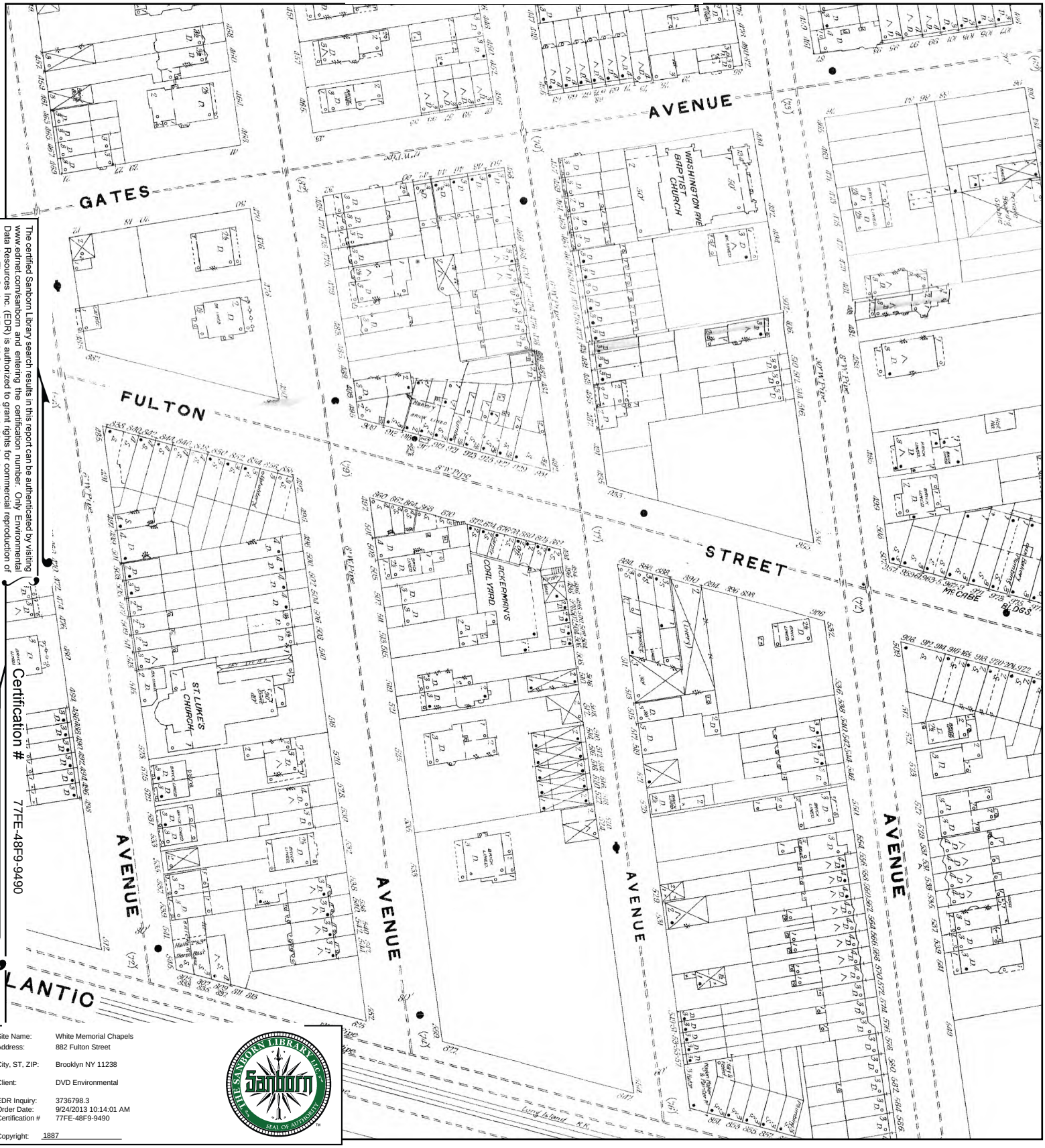

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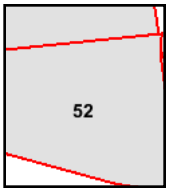

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Appendix E

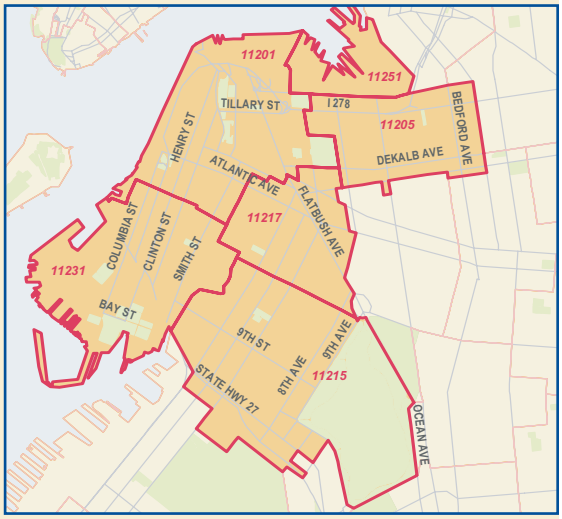
Health Department, FOIA and Right to Know Info

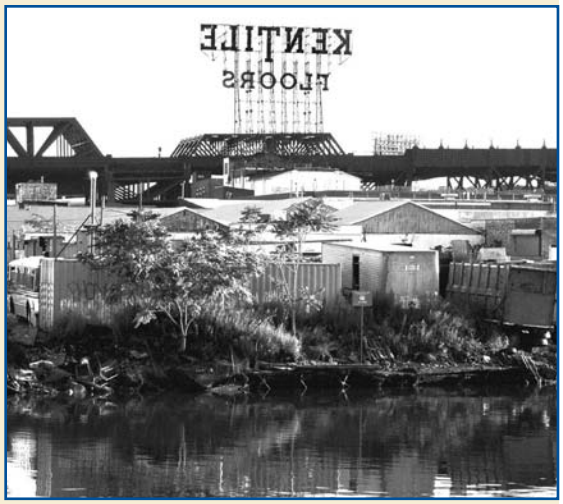
Community Health Profiles

New York City Department of Health and Mental Hygiene

SECOND EDITION — 2006

NYC Health
nyc.gov/health





TAKE CARE NEW YORK

TAKE CARE

Northwest Brooklyn

(Including Brooklyn Heights, Carroll Gardens, Clinton Hill, Downtown, Fort Greene, Park Slope, and Red Hook)

Community Health Profile, Second Edition: Northwest Brooklyn

New York City is the most diverse city in the U.S. — a fact reflected in the distinct character of each neighborhood. The second edition of the Community Health Profiles uses **Take Care New York** (TCNY), the city's health policy, to examine preventable causes of illness and death in all of NYC's 42 neighborhoods. This report updates the 2002 profile (available at nyc.gov/health) by providing more recent and time-trend data, and a greater variety of health statistics. Key health issues in Northwest Brooklyn include:

- The heart disease death rate is more than 10% higher in Northwest Brooklyn than in NYC overall (page 6).
- Adults in Northwest Brooklyn are more likely to binge drink than in NYC overall, and white residents and men are more likely to binge drink than other residents in this community (pages 10, 14).
- Although women in Northwest Brooklyn are more likely to get timely Pap tests for cervical cancer than women in NYC overall, they are getting mammograms for breast cancer at a rate well below the TCNY target of 85% (page 11).

Methods: While this report provides important information, it is not intended to be an exhaustive examination of the health of Northwest Brooklyn residents, as not all health problems and their causes could be covered. Only statistically significant findings are discussed in the text. For complete information on methods, see Technical Notes (page 15).

Northwest Brooklyn at a Glance

Population

Total number of people living in Northwest Brooklyn in 2000:

214,700

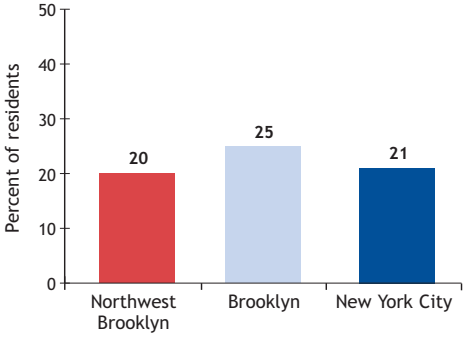
Age

People in Northwest Brooklyn are less likely to be younger than 18 than people in Brooklyn and New York City overall

	Northwest Brooklyn	Brooklyn	NYC
0-17 years	20%	27%	24%
18-24 years	10%	10%	10%
25-44 years	41%	31%	33%
45-64 years	20%	21%	21%
65+ years	9%	11%	12%

Poverty

In Northwest Brooklyn, the percent of residents living below the poverty level is lower than in Brooklyn overall



Education

Northwest Brooklyn residents aged 25 and older are more likely to have a college degree than those in Brooklyn and NYC overall

	Northwest Brooklyn	Brooklyn	NYC
Up to 8th grade	9%	13%	12%
Some high school, no diploma	11%	18%	16%
High school diploma	15%	27%	25%
Some college, no degree	16%	20%	20%
College graduate	49%	22%	27%

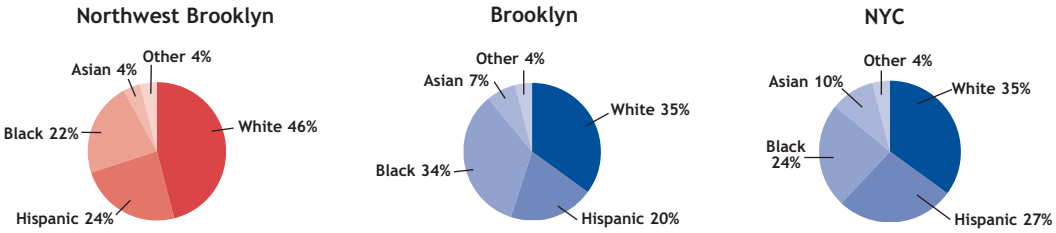
Foreign-born

The percent of Northwest Brooklyn residents born outside the U.S. is lower than in Brooklyn and NYC overall

Northwest Brooklyn	Brooklyn	NYC
17%	38%	36%

Race / Ethnicity

Northwest Brooklyn has a higher proportion of white residents than Brooklyn and NYC overall



Data Source: U.S. Census 2000/NYC Department of City Planning

Take Care Northwest Brooklyn

In 2004, the Health Department created a citywide health policy called **Take Care New York** (TCNY) to help improve the health of New Yorkers. TCNY identifies 10 key areas that cause significant illness and death but can be improved through intervention by individuals, health care providers, government agencies, and other organizations.

This report examines how well Northwest Brooklyn residents are doing on health indicators for each of the 10 TCNY goals. It examines areas in which the community is a health leader, as well as areas that need improvement. The TCNY report card below shows where Northwest Brooklyn ranks among all 42 New York City neighborhoods. (See Technical Notes for information about how neighborhoods were defined and ranked.)

Take Care New York report card

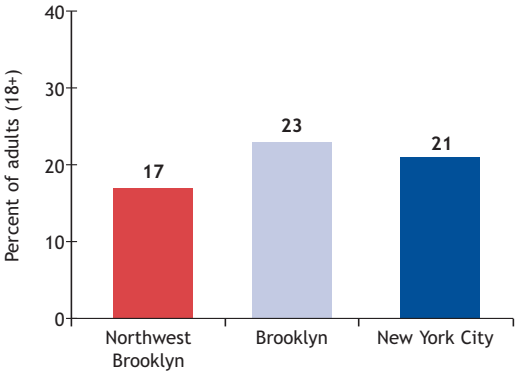
Northwest Brooklyn ranks as average on most indicators when compared to the 41 other NYC neighborhoods

	Below Average (bottom 10)	Average (middle 22)	Above Average (top 10)
Take Care New York Goals			
1 Have a regular doctor		✓	
2 Be tobacco-free		✓	
3 Keep your heart healthy		✓	
4 Know your HIV status		✓	
5 Get help for depression		✓	
6 Live free of alcohol and drugs		✓	
7 Get checked for cancer		✓	
8 Get the immunizations you need	✓		
9 Make your home safe and healthy	✓		
10 Have a healthy baby		✓	

How Residents Rate Their Own Health

Overall health

Less than one fifth of adults in Northwest Brooklyn consider themselves to be in fair or poor health



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

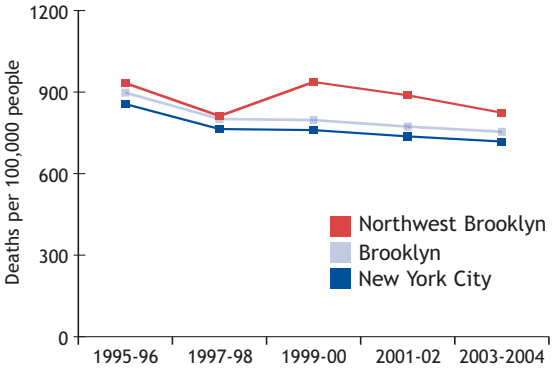
People are good at rating their own health. In general, when asked to rate their general health as excellent, very good, good, fair, or poor, those who say "fair" or "poor" are more likely to have health problems than those who report better health.

In Northwest Brooklyn, residents are less likely to report being in fair or poor health (17%) than those in Brooklyn (23%) and in New York City overall (21%).

Overall Death Rates in Northwest Brooklyn

Death rates

In Northwest Brooklyn, death rates are higher than in Brooklyn and NYC overall



Rates are age-adjusted.
Data Sources: Bureau of Vital Statistics, NYC DOHMH, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

The death rate in Northwest Brooklyn has decreased by more than 10% in the past decade, mirroring the rate drop in New York City overall.

In 2003-2004, the average annual death rate in Northwest Brooklyn was nearly 10% higher than in Brooklyn and 15% higher than in New York City overall (824/100,000 vs. 754/100,000 in Brooklyn and 718/100,000 in NYC). Throughout this profile, cause-specific death rates are provided for TCNY goals.

Line graphs. All time-trend data are presented as annual averages with 2 or 3 years of data combined. For example, in this graph, the first point on each line represents the average annual death rate for 1995 and 1996 combined.

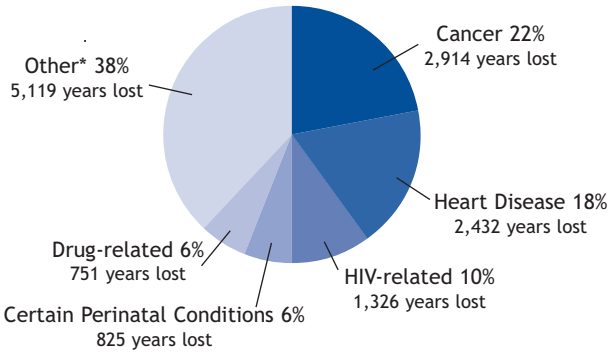
Premature death

People who die before age 75 can be thought of as dying early, or prematurely. If a person dies early, their years of potential life lost (YPLLs) can be calculated by subtracting their age at death from 75 years to get a measure of premature death.

The causes of premature death differ across communities. The primary cause of premature death in Northwest Brooklyn is cancer, as well as in both Brooklyn and New York City overall.

Top 5 causes of years of potential life lost

Cancer causes the most years of potential life lost in Northwest Brooklyn

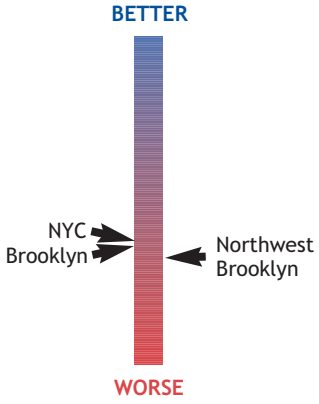


**Other includes Homicide (3%), Accidents (3%), Pneumonia and Influenza (3%), Congenital Conditions (3%), Diabetes (2%), and Other (24%).*

Data Source: Bureau of Vital Statistics, NYC DOHMH, 2002-04

Death before age 75

The 2003-2004 average annual death rate for people younger than 75 years in Northwest Brooklyn ranks 29th among 42 NYC neighborhoods



Data Sources: Bureau of Vital Statistics, NYC DOHMH, 2003-04; U.S. Census 2000/NYC Department of City Planning

Take Care New York Goals

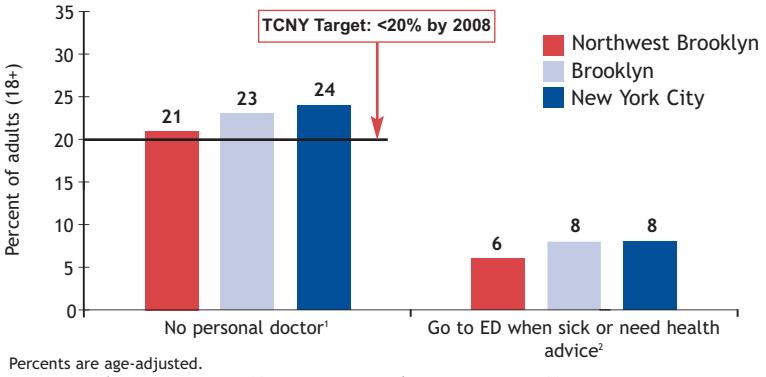
GOAL 1 Have a Regular Doctor or Other Health Care Provider

Access to good medical care helps people prevent illnesses, identify health conditions early, and treat health problems. Some conditions can and should be managed regularly outside the hospital. Higher rates of these avoidable hospitalizations can indicate reduced access to health care in a community.

Having a "medical home"— a personal doctor or other health care provider and a regular place of care other than the emergency department (ED) — is a critical component of good health care access. In Northwest Brooklyn, more than 1 in 5 residents (21%) do not have a regular doctor, compared to the TCNY target of less than 20%. In addition, 6% of Northwest Brooklyn residents go to the ED when they are sick or need health advice.

Access to care

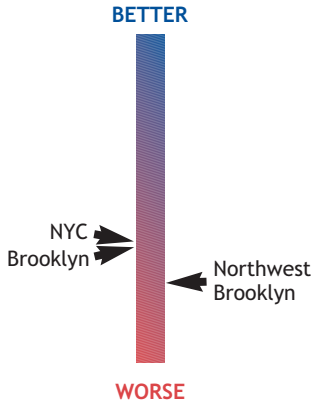
Without a primary provider, people may seek routine health care in the emergency department (ED)



Percents are age-adjusted.
Data Sources: [1]NYC Community Health Survey 2002-03-04, [2]NYC Community Health Survey 2003-04

Avoidable hospitalizations

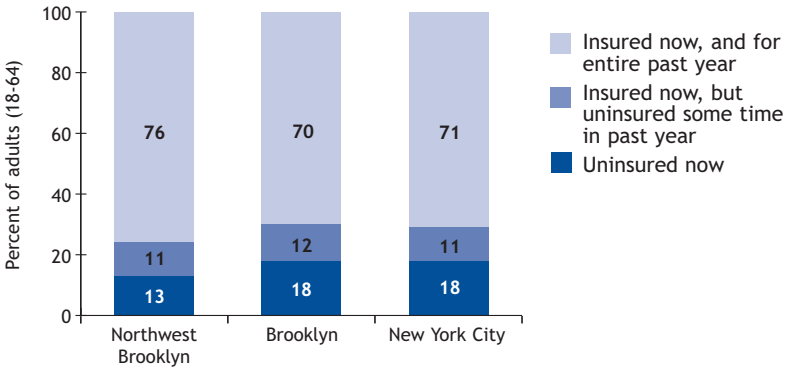
The 2004 avoidable hospitalization rate in Northwest Brooklyn ranks 31st among 42 NYC neighborhoods



Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 2004; U.S. Census 2000/NYC Department of City Planning

Health insurance

One in 4 adults in Northwest Brooklyn is uninsured or went without health insurance during the past year



Insurance rates are calculated for adults aged 18-64 and age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

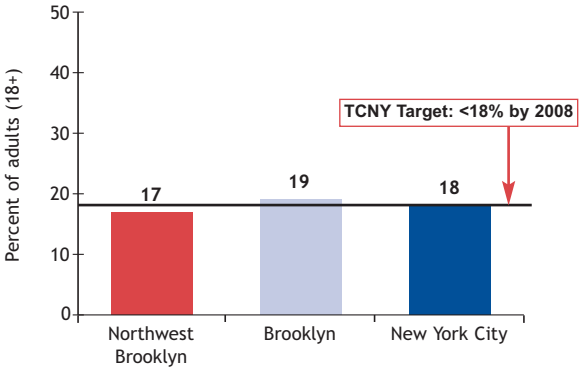
Health insurance is important for access to health care. Similar proportions of residents in Northwest Brooklyn (13%), Brooklyn (18%) and New York City overall (18%) are currently uninsured. In addition, another 11% of residents in this community went without health insurance at some time during the past year.

GOAL 2 Be Tobacco-Free

Smoking is the leading cause of preventable death in New York City and the cause of many illnesses, including heart disease, stroke, emphysema, and lung cancer. Less than one fifth of Northwest Brooklyn residents (17%) currently smoke, meeting the TCNY target of less than 18%. Many methods to quit smoking are available, and more than 7 in 10 smokers in Northwest Brooklyn (76%) are trying to kick the habit.

Residents who smoke

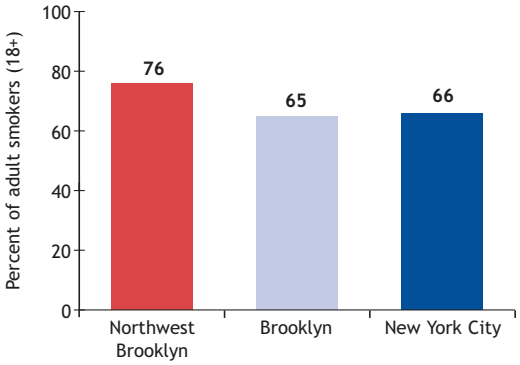
Fewer than 1 in 5 adults in Northwest Brooklyn smokes



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2004

Attempts to quit smoking in the past year

Most smokers are trying to quit



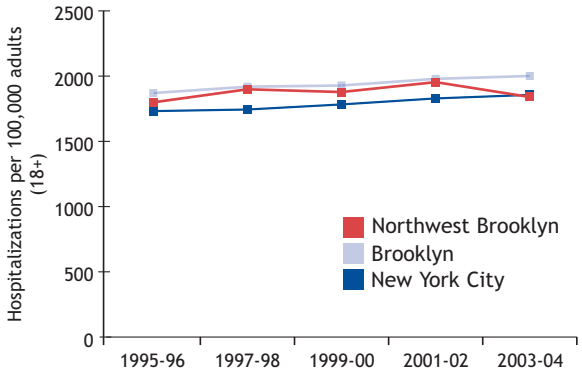
Percents are age-adjusted.
Data Source: NYC Community Health Survey 2004

GOAL 3 Keep Your Heart Healthy

Heart disease can cause severe illness and death. Northwest Brooklyn residents had an average annual heart disease hospitalization rate in 2003-2004 that was lower than the Brooklyn rate and similar to the rate in NYC overall (1,840/100,000 vs. 2,001/100,000 in Brooklyn and 1,856/100,000 in NYC). The heart disease death rate in 2003-2004 (334/100,000) was similar to the rate in Brooklyn (326/100,000) but more than 10% higher than the NYC overall rate (297/100,000).

Heart disease hospitalizations

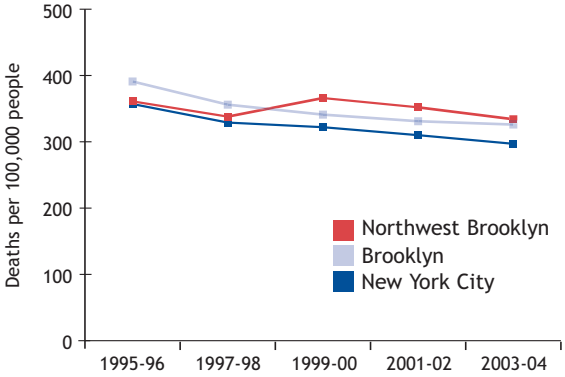
Heart hospitalization rates are similar in Northwest Brooklyn to NYC overall rates



Rates are age-adjusted.
Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

Deaths due to heart disease

The heart disease death rate in Northwest Brooklyn is higher than the NYC overall rate



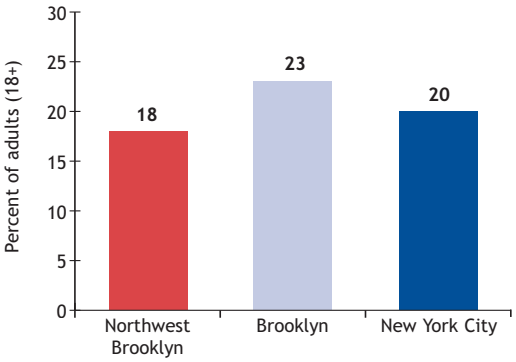
Rates are age-adjusted.
Data Sources: Bureau of Vital Statistics, NYC DOHMH, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

High blood pressure and high cholesterol. Both of these conditions contribute to heart disease. In Northwest Brooklyn, 25% of adults were told by a health care professional that they have high blood pressure (similar to 28% in Brooklyn and 26% in NYC overall), and one quarter (24%) were told that they have high cholesterol (similar to 26% in Brooklyn and NYC overall).

Percents are age-adjusted. *Data Source: NYC Community Health Survey 2002*

Obesity

Nearly 1 in 5 adults in Northwest Brooklyn is obese



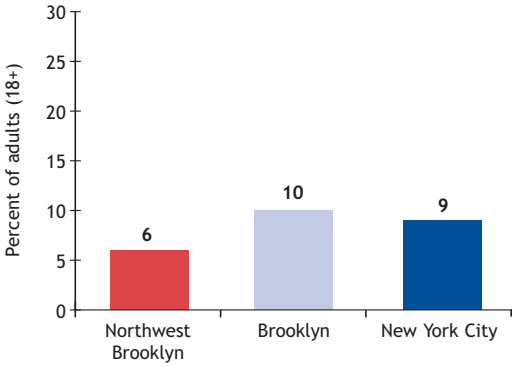
Obesity is defined as a body-mass-index (BMI) of 30 or greater.
Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

In addition to smoking, high blood cholesterol and high blood pressure, other factors that put people at risk for heart disease — lack of physical activity and obesity — can be prevented or controlled.

Obesity can lead to a variety of health problems, including heart disease and diabetes. Rates of obesity are increasing rapidly in New York City and across the U.S., making it a major public health concern. In Northwest Brooklyn, adults are less likely to be obese than those in Brooklyn overall (18% vs. 23%).

Diabetes

Adults in Northwest Brooklyn are less likely to have diabetes than in Brooklyn and NYC overall



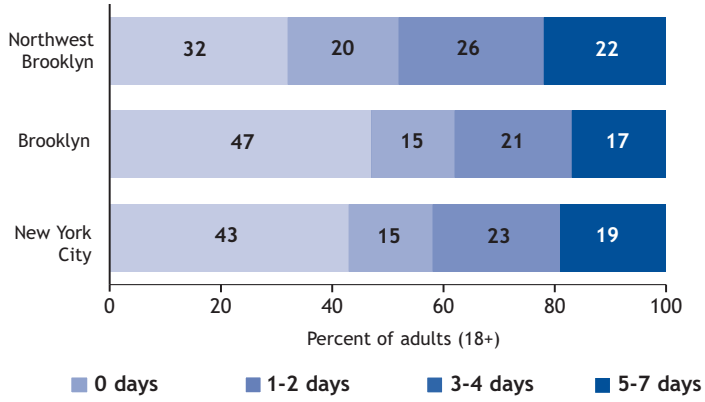
Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

The increasing prevalence of obesity in the U.S. has contributed to an epidemic of diabetes. About 95% of diabetes cases are type 2 diabetes, which is strongly associated with obesity. Uncontrolled diabetes can worsen the harmful effects of high blood pressure, high cholesterol, and other risk factors for heart disease.

In Northwest Brooklyn, adults are less likely to have diabetes than those in Brooklyn and NYC overall (6% vs. 10% in Brooklyn and 9% in NYC).

Days per week of recreational exercise

Exercise habits in Northwest Brooklyn are more healthy compared to Brooklyn and New York City overall



Survey Question: On average, how many days per week do you exercise for at least 30 minutes?
Percents are age-adjusted.
Data Source: NYC Community Health Survey 2003

Physical activity helps people maintain a healthy weight and strengthens the cardiovascular system. Northwest Brooklyn residents are more likely to report doing physical activity on at least one day a week (68%) than adults in Brooklyn (53%) and NYC overall (57%). Nearly half of residents in this community (48%) report exercising at least 3 days a week.

Centers for Disease Control and Prevention Recommendations

Adults should do either 20 minutes of vigorous exercise 3 times per week or 30 minutes of moderate exercise 5 times per week.

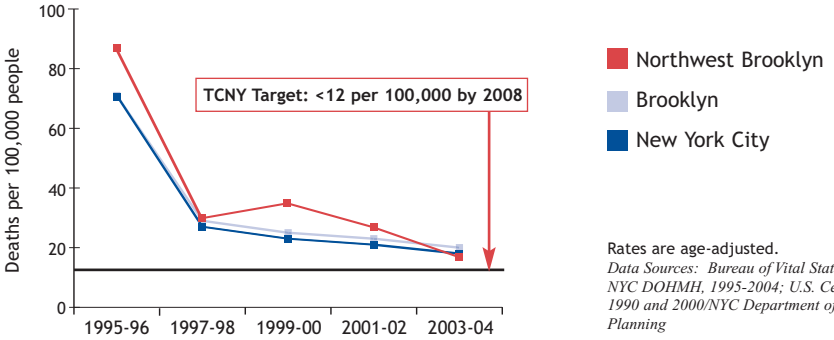
GOAL 4 Know Your HIV Status

Wide disparities exist in HIV across New York City communities. The rate of HIV diagnoses in Northwest Brooklyn is slightly lower than in Brooklyn and NYC overall. However, the rate of people living with HIV/AIDS in this community is higher than the rate in Brooklyn and similar to the NYC overall rate.

The death rate due to HIV disease has dropped by 80% during the past decade in this community. In 2003-2004, the average annual HIV-related death rate in Northwest Brooklyn was similar to the rates in Brooklyn and NYC overall (17/100,000 vs. 20/100,000 in Brooklyn and 18/100,000 in NYC).

Death rate due to HIV

HIV-related death rates in Northwest Brooklyn have dropped dramatically in the past decade



Rates are age-adjusted.
Data Sources: Bureau of Vital Statistics, NYC DOHMH, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

HIV/AIDS in 2004

Total HIV diagnoses per 100,000 people (13+)*

Northwest Brooklyn	45
Brooklyn	50
New York City	55

*% HIV diagnosed concurrently with AIDS** (13+)*

Northwest Brooklyn	20%
Brooklyn	31%
New York City	29%

People living with HIV/AIDS per 100,000 people (13+)*

Northwest Brooklyn	1,439
Brooklyn	1,183
New York City	1,419

*Rates are age-adjusted.
**Within 31 days of HIV diagnosis – crude percents
Data Source and Analysis: HIV Epidemiology Program, NYC DOHMH, 2004

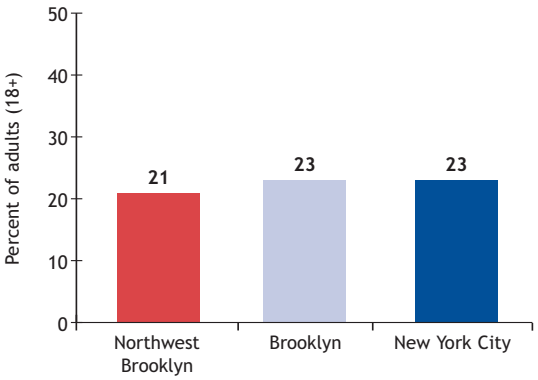
HIV/AIDS testing and prevention

Everyone should know their HIV status. However, an estimated one quarter of New Yorkers living with HIV do not know they are infected, delaying treatment and increasing the risk that they will transmit the disease to others. Only 1 in 5 Northwest Brooklyn residents has been tested for HIV in the past year. In addition, one fifth of positive HIV test results (20%) are "late" diagnoses (HIV has already progressed to AIDS) in this community.

The most common way people get HIV is through sexual contact, and having multiple sex partners increases the risk of HIV. Condoms offer protection from HIV when engaging in sexual activities. Only 2 in 5 (40%) Northwest Brooklyn adults who had more than 1 sex partner in the past year reported using a condom at their last sexual encounter.

HIV testing

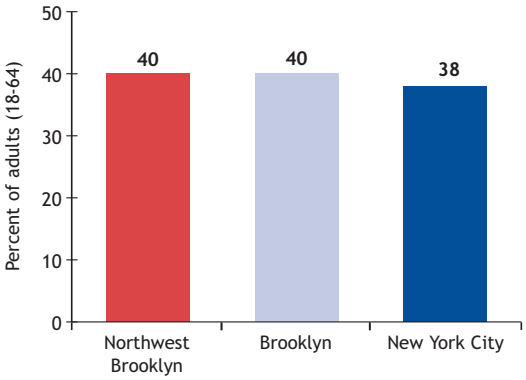
Only 1 in 5 Northwest Brooklyn adults has had an HIV test in the past year



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2003

Condom use at last sexual encounter

Less than half of Northwest Brooklyn adults with multiple sex partners used a condom

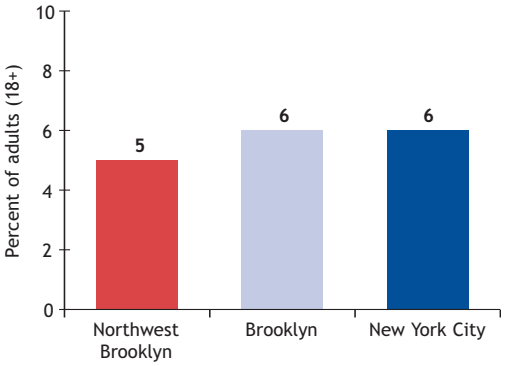


Analysis limited to adults aged 18-64 who reported having >1 sex partner in the past year, excluding women who reported having sex only with women.
Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

GOAL 5 Get Help for Depression

Psychological distress

One in 20 adults in Northwest Brooklyn suffers from serious psychological distress



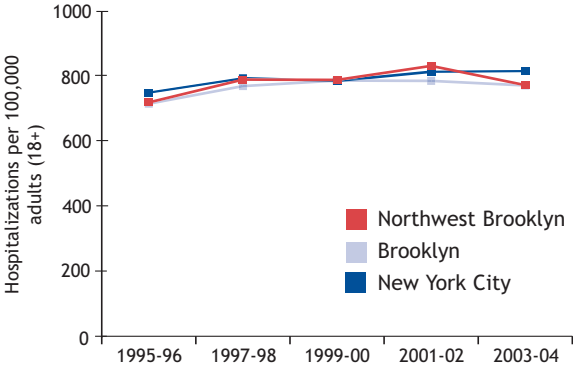
Serious psychological distress can be identified in individuals using Kessler's K6 scale, a validated measure consisting of 6 simple questions about mood. Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03

Depression is a serious but treatable health condition that frequently goes undiagnosed. Serious psychological distress is associated with depression and other mental illnesses.

In Northwest Brooklyn, 5% of residents experience serious psychological distress.

Mental illness

Hospitalizations for mental illness are lower in Northwest Brooklyn than in NYC overall



Rates are age-adjusted.
Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

Hospitalization rates are one way to look at serious mental illness in a neighborhood. The mental illness hospitalization rate in Northwest Brooklyn has remained fairly steady during the past decade.

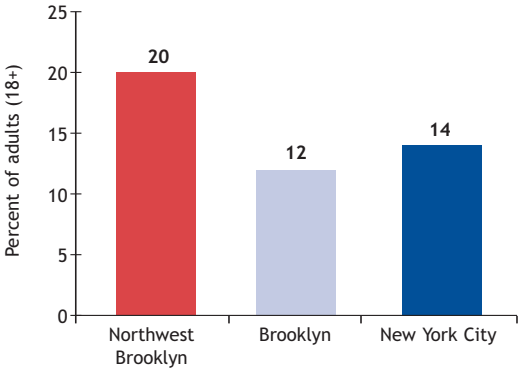
In 2003-2004, the community's average annual rate of mental illness hospitalizations (770/100,000) was similar to the Brooklyn rate (769/100,000) and slightly lower than the rate in New York City overall (813/100,000).

Understanding hospitalizations and access to health care. Hospitalization data are useful in understanding the burden that certain conditions place on the health care system, but not necessarily in measuring the exact extent of illness in a community. Variations in hospitalization rates may reflect not only differences in rates of illness, but also differences in access to health care. For example, the kinds of health institutions available to residents differ by community, as might the ability of residents to pay for those resources. If a community has a specialized residential institution for a certain type of disease, such as mental illness or stroke, people from outside that neighborhood may come to reside at this institution for care, resulting in an increase in reported hospitalizations for that disease in the community.

GOAL 6 Live Free of Dependence on Alcohol and Drugs

Binge drinking

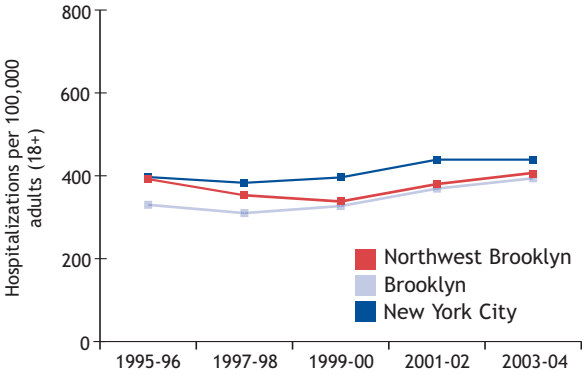
Adults in Northwest Brooklyn are more likely to have engaged in binge drinking in the past month



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

Alcohol-related hospitalizations

The alcohol-related hospitalization rate in Northwest Brooklyn is less than the NYC rate



Rates are age-adjusted.
Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

The abuse of alcohol and drugs can lead to many preventable injuries, illnesses, and deaths, including injury in motor-vehicle crashes, liver disease, and violence.

Estimates of binge drinking represent the risk of immediate alcohol-related problems, such as alcohol-poisoning, injury and violence. In Northwest Brooklyn, adults are more likely than those in Brooklyn and NYC overall to report engaging in at least one episode of binge drinking (defined as consuming 5 or more drinks on one occasion) in the past month.

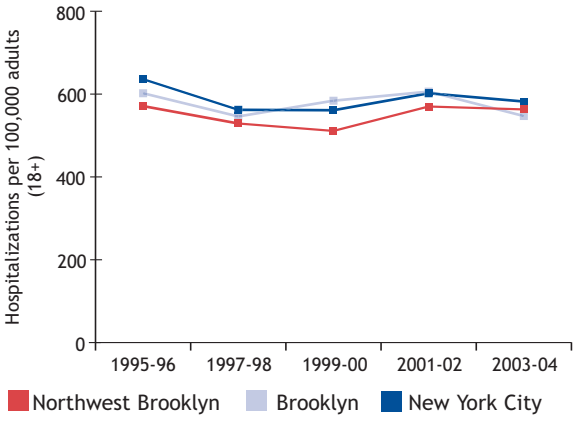
Alcohol-related hospitalizations reflect both acute and chronic (e.g., liver disease) consequences of alcohol abuse. In 2003-2004, the average annual alcohol-related hospitalization rate in Northwest Brooklyn was similar to the Brooklyn rate and lower than in New York City overall (407/100,000 vs. 394/100,000 in Brooklyn and 439/100,000 in NYC).

The drug-related hospitalization rate in 2003-2004 was similar (563/100,000) the rates in both Brooklyn (547/100,000) and New York City overall (595/100,000).

The 2003-2004 death rate due to drugs in Northwest Brooklyn was also similar to the rate in both Brooklyn and NYC overall (9/100,000 vs. 10/100,000 in Brooklyn and NYC).

Drug-related hospitalizations

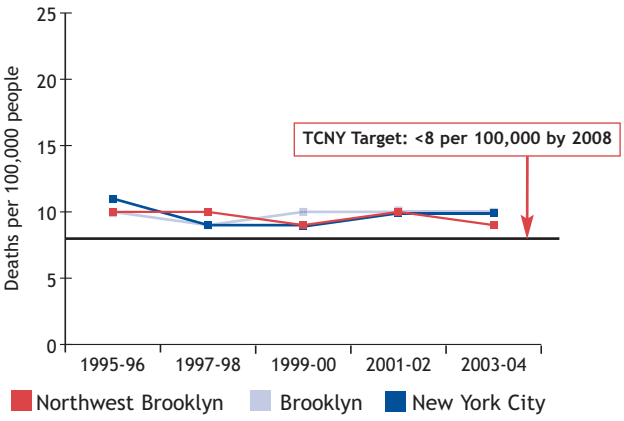
The drug-related hospitalization rate in Northwest Brooklyn is less than the NYC rate



Rates are age-adjusted.
Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

Drug-related deaths

Drug-related death rates are similar in Northwest Brooklyn, Brooklyn and NYC overall

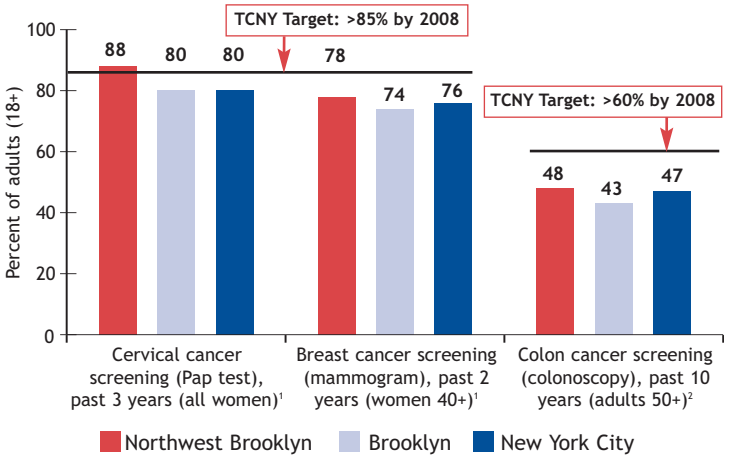


Rates are age-adjusted.
Data Sources: Bureau of Vital Statistics, NYC DOHMH, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

GOAL 7 Get Checked for Cancer

Cancer screenings

Cancer screening is an important part of routine preventive health care



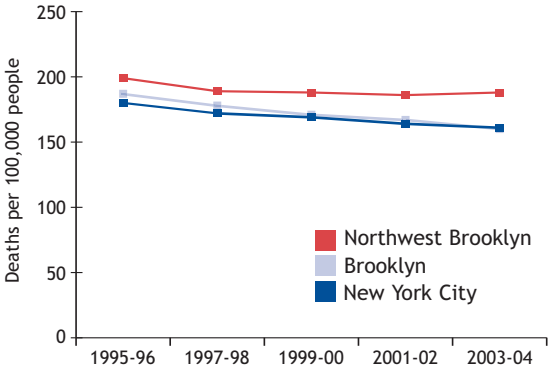
Percents are age-adjusted.
Data Sources: [1]NYC Community Health Survey 2002 & 2004, [2]NYC Community Health Survey 2003-04

Cancer screening can save lives by preventing disease, catching cancer in its early stages and providing opportunities for treatment. TCNY has set specific screening targets for cervical, breast, and colon cancers.

Women in Northwest Brooklyn are more likely to get timely Pap tests for cervical cancer than women in Brooklyn and NYC overall, but mammogram screening for breast cancer is still below the TCNY target. The percent of Northwest Brooklyn adults aged 50 and older who had a colonoscopy in the past 10 years has more than doubled between 2002 and 2004. Although the size of this increase cannot be precisely estimated because of small sample size, colonoscopy screening has clearly improved in this community but remains well below the TCNY target.

Cancer deaths

The death rate due to cancer is higher in Northwest Brooklyn



Rates are age-adjusted.
Data Sources: Bureau of Vital Statistics, NYC DOHMH, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

The death rate due to cancer has remained fairly steady in Northwest Brooklyn during the past decade. The 2003-2004 average annual cancer death rate was more than 15% higher than both the Brooklyn and NYC overall rates (188/100,000 vs. 160/100,000 in Brooklyn and 161/100,000 in NYC).

Preventing cancer and related deaths. Individuals can reduce their risk of the most common cancers. Never smoking or quitting the habit greatly reduces the risk of lung and other cancers. High colon and breast cancer death rates highlight the importance of getting recommended screenings so treatment can begin early.

The highest cancer-related death rates among men in Northwest Brooklyn are due to lung, prostate, and colon cancers. Among women, colon, breast, and lung cancers are the top 3 causes of cancer-related death.

Highest cancer death rates in Northwest Brooklyn (2003-2004)

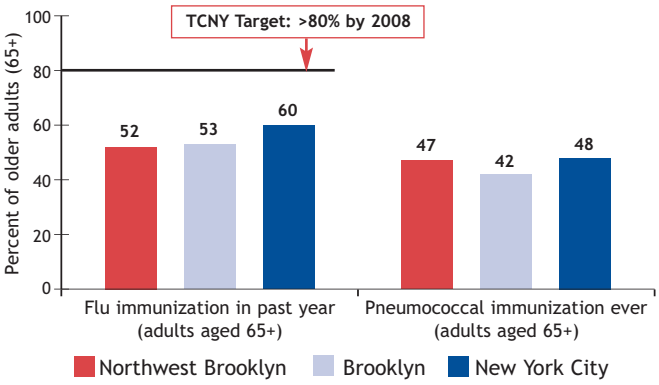
MEN	Deaths / 100,000 people		WOMEN	Deaths / 100,000 people	
Type of Cancer	Northwest Brooklyn	NYC	Type of Cancer	Northwest Brooklyn	NYC
Lung, trachea, bronchus	52	51	Colorectal	28	17
Prostate	35	25	Breast	26	26
Colorectal	31	23	Lung, trachea, bronchus	23	28
Blood-related	18	18	Pancreas	12	9
Liver	15	10	Uterus	11	5

Rates are age-adjusted. *Data Sources: Bureau of Vital Statistics, NYC DOHMH, 2003-2004; U.S. Census 2000/NYC Department of City Planning*

GOAL 8 Get the Immunizations You Need

Immunizations

Flu shot rates among older adults fall below the TCNY target and pneumococcal (pneumonia) immunizations are even lower



Data Source: NYC Community Health Survey 2002-03-04

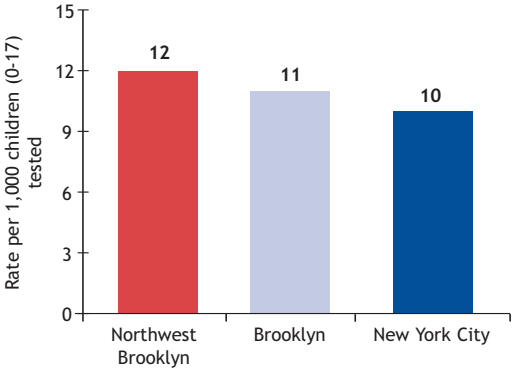
Immunizations are not just for kids. Of all the deaths that could have been prevented by vaccination, 99% occur in adults. **Take Care New York** has set a target that more than 80% of adults aged 65 and older will get an annual flu (influenza) shot by 2008. The Northwest Brooklyn flu immunization rate among older adults falls short of the TCNY target by 35%.

Immunization rates for pneumonia are lower than those for flu across NYC. Less than half of older adults in Northwest Brooklyn (47%) have ever received the pneumococcal vaccine, which protects against one common cause of pneumonia.

GOAL 9 Make Your Home Safe and Healthy

Childhood lead poisoning

Lead poisoning among young children continues to be a problem



Lead poisoning is defined as a blood lead level ≥10 µg/dL.
Data Source and Analysis: Lead Poisoning Prevention Program, NYC DOHMH, 2004

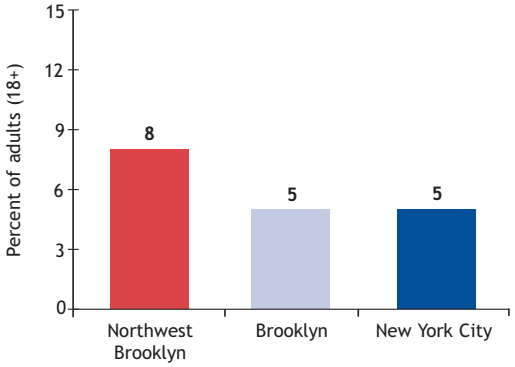
Childhood lead poisoning is a health problem that may be associated with decreased intelligence, learning and behavioral problems, and delayed growth and development. While the number of lead-poisoned children (0-17 years old) in New York City has declined dramatically over the past decade, the Health Department aims to eliminate lead poisoning by preventing children's exposure to lead-based paint and other sources of lead.

In 2004, 98 children in Northwest Brooklyn (12/1,000) were newly identified with lead poisoning (defined as a blood lead level greater than or equal to 10 µg/dL).

Asthma in Adults and Children

Asthma

Asthma is more common among in Northwest Brooklyn than in Brooklyn and NYC overall



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

Conditions, or "triggers," in the home environment, such as the presence of second-hand smoke or dust, can cause asthma attacks. Some housing conditions associated with asthma triggers, such as rodent or roach infestation, are more common in some neighborhoods than others.

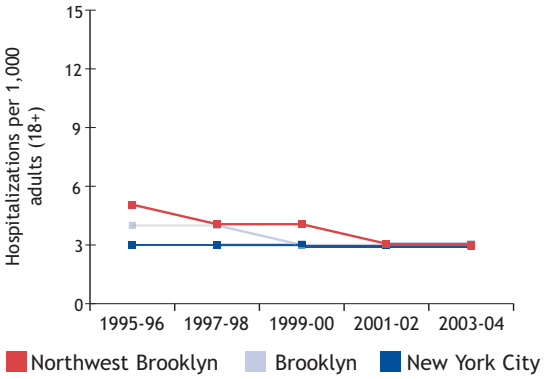
Adults in Northwest Brooklyn are more likely to report having asthma (8%) than adults in Brooklyn and New York City overall (5%).

Neighborhood asthma hospitalization rates depend in part on the percent of residents who have asthma. However, good medical management of asthma can prevent many asthma-related hospitalizations, and patients can work with health care providers to better control their asthma. Thus, the asthma hospitalization rate can also indicate poor access to health care.

Asthma hospitalization rates for both adults and children (0-17 years old) in Northwest Brooklyn have decreased in the past 10 years. The 2003-2004 average annual hospitalization rate due to adult asthma in this community was similar to rates in Brooklyn and NYC overall. Rates among children are slightly lower in Northwest Brooklyn than in NYC overall.

Adult asthma hospitalizations

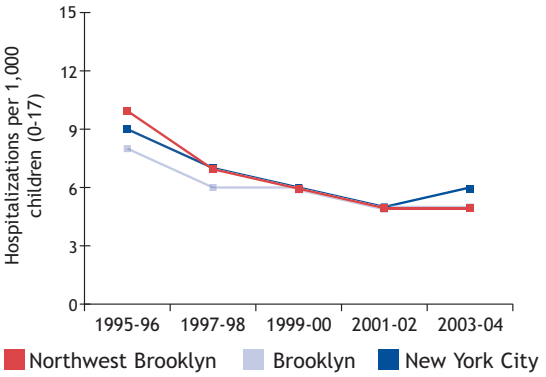
Asthma hospitalization rates are similar in Northwest Brooklyn, Brooklyn and NYC overall



Rates are age-adjusted.
Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

Child asthma hospitalizations

The child asthma hospitalization rate has decreased by half in Northwest Brooklyn



Data Sources: New York State Department of Health Statewide Planning and Research Cooperative System, 1995-2004; U.S. Census 1990 and 2000/NYC Department of City Planning

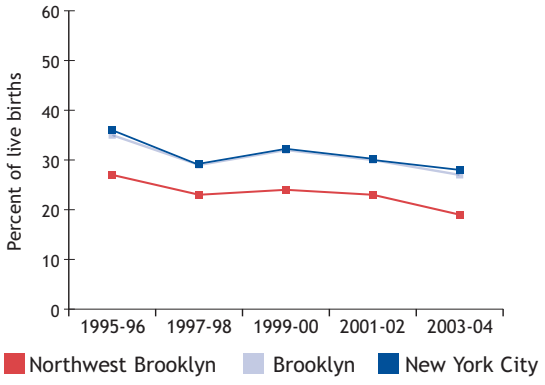
Goal 10 Have a Healthy Baby

The health of babies depends on the health of mothers. Good health care for pregnant women includes high quality prenatal care beginning in the first trimester of pregnancy. The average annual percent of women who received late or no prenatal care has declined by 30% in Northwest Brooklyn in the past decade. In 2003-2004, the percent (19%) was lower than in Brooklyn (27%) and NYC overall (28%).

Teenage mothers and their babies face a number of risks. Pregnant teens are more likely to be poor and not complete high school than other teens, and they are more likely to have babies born with low birthweight than older women. The birth rate to teenage mothers has decreased over the past 10 years by half in Northwest Brooklyn. The average teen birth rate in 2003-2004 in this community (58/1,000) was lower than in Brooklyn (73/1,000) and NYC overall (75/1,000).

Prenatal care

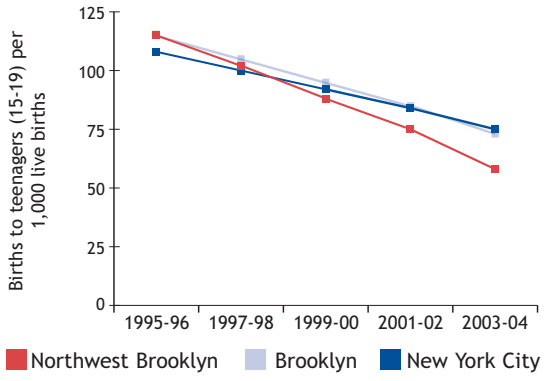
Mothers in Northwest Brooklyn are less likely to receive late or no prenatal care



Data Source: Bureau of Vital Statistics, NYC DOHMH, 1995-2004

Teenage mothers

The birth rate to teenage mothers (15-19 years) is lower in Northwest Brooklyn



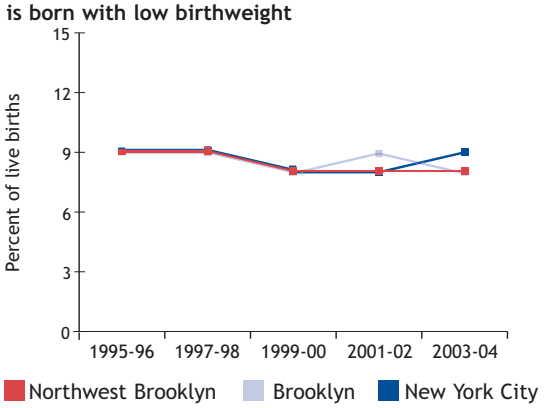
Data Source: Bureau of Vital Statistics, NYC DOHMH, 1995-2004

Babies born with low birthweight tend to have more health problems than others. In 2003-2004, the average percent of babies born with low birthweight in Northwest Brooklyn was 8% — the same as Brooklyn (8%) and similar to NYC overall (9%).

Infant mortality (the death of babies in the first year of life) has declined in the past 10 years in Northwest Brooklyn and in NYC overall. The 2002-2004 rate in Northwest Brooklyn was 6/1,000, similar to Brooklyn and NYC overall, but still higher than the TCNY target.

Low birthweight

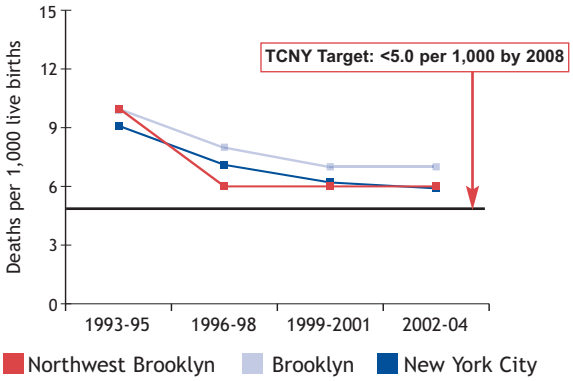
Fewer than 1 in 10 in Northwest Brooklyn babies is born with low birthweight



Low birthweight is defined as <2,500 grams (5.5 pounds).
Data Source: Bureau of Vital Statistics, NYC DOHMH, 1995-2004

Infant mortality rate (IMR)

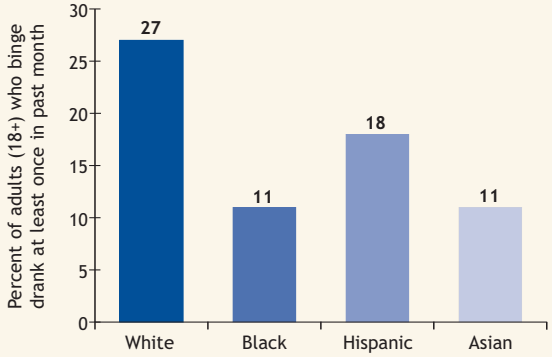
The IMR in NYC is still higher than the TCNY target



Data Source: Bureau of Vital Statistics, NYC DOHMH, 1993-2004

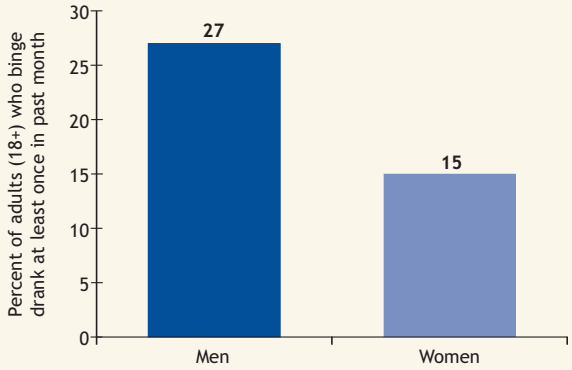
Neighborhood Health Highlight: Binge Drinking

White residents in Northwest Brooklyn are most likely to binge drink



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

Men are more likely to binge drink than women in Northwest Brooklyn



Percents are age-adjusted.
Data Source: NYC Community Health Survey 2002-03-04

Every New York City neighborhood has different health concerns. Here we highlight binge drinking in Northwest Brooklyn.

Binge drinking is defined as the consumption of 5 or more drinks on one occasion, and it can be used to measure the misuse of alcohol in a community. Northwest Brooklyn residents are more likely to have engaged in binge drinking in the past month than residents in New York City overall (see page 10).

White residents are most likely to binge drink, with more than twice as many whites engaging in binge drinking in the past month as blacks in Northwest Brooklyn (27% vs. 11%).

Additionally, men are more likely to binge drink than women. In Northwest Brooklyn, binge drinking is nearly twice as common among men as among women (27% vs. 15%).

TAKING ACTION

Abuse of alcohol can lead to alcohol dependence. When drinking causes trouble in relationships, school or work, social activities, or thinking or feeling, then drinking has become a problem. **Drinking problems should be discussed with a health care professional.**

For more information, **call 311**.

Technical notes

Analyses

All analyses were conducted by the Bureau of Epidemiology Services, NYC DOHMH, unless otherwise indicated. All estimates in this report were age standardized to the Year 2000 Standard Population, except for age-specific data and mother-child health indicators. All CHS analyses were done in SUDAAN to account for complex survey design and were weighted to the New York City population according to the U.S. Census 2000.

Data sources

NYS DOH hospitalization data: Includes hospitalizations of NYC residents that occurred anywhere in New York State. Patient zip code was used to classify hospitalizations into 42 neighborhoods. Data from 1995-2003 updated in April 2005; 2004 data updated in July 2005.

Vital Statistics data: Includes births and deaths of NYC residents that occurred within New York City. Data were combined across years to increase statistical stability and average annual rates are presented. In addition, infant mortality rates (IMR) were calculated as 3-year annual averages, and this statistic and others may differ from the presentation in "Summary of Vital Statistics" reports from the Bureau of Vital Statistics, NYC DOHMH.

Community Health Survey data: The NYC Community Health Survey (CHS) is an annual random-digit-dial telephone survey of approximately 10,000 adults in New York City. This profile uses the following datasets from this survey: NYC CHS 2002, NYC CHS 2003, NYC CHS 2004, NYC CHS 2002-03-04, NYC CHS 2002-03, NYC CHS 2002 & 2004, and NYC CHS 2003-04. The combined-year datasets increase statistical power, allowing for more stable analyses at the neighborhood level.

Neighborhood Definitions

The 42 NYC neighborhoods are based on the United Hospital Fund definitions of neighborhood, which are specified by zip code. For a complete listing of all 42 neighborhoods and their zip codes, go to nyc.gov/health. The zip codes included in analyses of Northwest Brooklyn are 11201, 11205, 11215, 11217, and 11231. Please note that some neighborhoods were combined for statistical purposes in the CHS 2002, CHS 2003 and CHS 2004 datasets to make a total of 33 (2002) or 34 (2003, 2004) neighborhoods.

Avoidable Hospitalizations

Data based on Ambulatory Care Sensitive Conditions (called "avoidable hospitalizations" in this report) were calculated using the Agency for Healthcare Research and Quality (AHRQ) classification of inpatient hospitalization data. Conditions in the overall measure include: Diabetes Short-term Complications Admission Rate, Diabetes Long-term Complications Admission Rate, Pediatric Asthma Admission Rate, Chronic Obstructive Pulmonary Disease Admission Rate, Pediatric Gastroenteritis Admission Rate, Hypertension Admission Rate, Congestive Heart Failure Admission Rate, Dehydration Admission Rate, Bacterial Pneumonia Admission Rate, Urinary Tract Infection Admission Rate, Angina without Procedure Admission Rate, Uncontrolled Diabetes Admission Rate, Adult Asthma Admission Rate, and Rate of Lower-extremity Amputation among Patients with Diabetes.

Significance Testing

For all data, 95% confidence limits were calculated for neighborhood, borough, and NYC estimates. If these ranges did not overlap, a significant difference was inferred. This is a conservative measure of statistical difference. This methodology also was used to examine differences between years in neighborhood trend data. *Only robust findings found to be statistically significant are discussed in the text.* In addition, all NYC CHS estimates were evaluated for statistical stability using the relative standard error (RSE). Those estimates with an RSE > .30 are flagged in graphs, "Estimate is unstable due to small sample size and should be interpreted with caution."

TCNY report card

The neighborhood was classified according to where it ranked in comparison to the other 41 NYC neighborhoods with Above Average = rankings 1-10, Average = rankings 11-32, and Below Average = rankings 33-42 where 1 = the best neighborhood score. Rankings were computed by combining (or in some cases, using only one indicator) standardized measures (z-scores) of the following health indicators for each TCNY goal: TCNY#1 - primary care provider, insurance, ED visits; TCNY#2 - current smokers; TCNY#3 - diabetes, obesity, exercise, heart disease hospitalizations, heart disease mortality; TCNY#4 - HIV testing, AIDS mortality; TCNY#5 - serious psychological distress, mental illness hospitalizations; TCNY#6 - binge drinking, alcohol-related hospitalizations, drug-related hospitalizations, drug-related mortality; TCNY#7 - cervical cancer screening, breast cancer screening, colon cancer screening, cancer mortality; TCNY#8 - flu immunization; TCNY#9 - child lead poisoning, adult asthma rates; TCNY#10 - prenatal care, teenage mothers, low birthweight, infant mortality.

Cover Photograph: Gowanus Canal, Brooklyn. Photo by Daniel Krieger. Maps by Susan Resnick.

Thank you to all the individuals who contributed to these reports: Sonia Angell, Fatima Ashraf, Birgit Bogler, Shadi Chamany, Louise Cohen, Lorna Davis, Erica Desai, Tamara Dumanovsky, Donna Eisenhower, Jennifer Ellis, Tim Frasca, Stephen Friedman, Renu Garg, Chris Goranson, Leena Gupta, Charon Gwynn, David Hanna, Kelly Henning, Mary Huynh, John Jasek, Qun Jiang, Deborah Kaplan, Adam Karpati, Elizabeth Kilgore, Marty Kim, Vani Kurup, Brooke Levinson, Cortnie Lowe, Jingsong Lu, Xiaowu Lu, Jenna Mandel-Ricci, Thomas Matte, Tina McVeigh, Rachel Miller, Trang Nguyen, Leze Nicaj, Preeti Pathela, Robyn Philburn, Jane Plapinger, Chitra Ramaswamy, Judy Sackoff, Julia Schillinger, Tejinder Singh, Sally Slavinski, Catherine Stayton, Parisa Tehranifar, William Vaughn, Joshua Volle, Joyce Weinstein, Kellee White, Candace Young, and Regina Zimmerman.

Community Health Profile for Northwest Brooklyn

This report is an updated, expanded second edition of the 2002 Community Health Profile for Northwest Brooklyn.

NEW IN THE SECOND EDITION:

- Take Care New York report card
- Time-trend data on births, hospitalizations, and deaths
- More neighborhood-specific health statistics
- Robust estimates from data through 2004

First and second edition reports on all 42 New York City neighborhoods are available from the New York City Department of Health and Mental Hygiene online or by mail.

Web: **nyc.gov/health**
Click on "My Community's Health"

Email: **profiles@health.nyc.gov**

Mail:
Community Health Profiles
New York City Department of Health and Mental Hygiene
Division of Epidemiology
125 Worth Street, Room 315, CN-6
New York, NY 10013

For more information about health issues in this report, please call 311.

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NYC Community Health Profiles

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Division of Epidemiology, Bureau of Epidemiology Services, 125 Worth Street, CN-6, New York, NY 10013

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Commissioner of Health and Mental Hygiene

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EPI122R202

Appendix F

TCLP Sampling Protocol

EPA Test Method 1311 - TCLP, Toxicity Characteristic Leaching Procedure

The TCLP, or Toxicity Characteristic Leaching (not Leachate) Procedure is designed to determine the mobility of both organic and inorganic analytes present in liquid, solid, and multiphasic wastes. This is usually used to determine if a waste may meet the definition of EP Toxicity, that is, carrying a hazardous waste code under RCRA (40 CFR Part 261) of D004 through D052. As it is the generator's responsibility to make this determination, but generators often contract outside labs to perform the TCLP test, these questions and answers may be helpful to generators. For this reason and sometimes in cleanup actions, businesses are often asked to perform an analysis on their waste using the TCLP. The Code of Federal Regulations (CFR)

40 CFR §261.24, outlines the 40 contaminants the TCLP analysis tests for (See Table 1—Maximum Concentration of Contaminants for Toxicity Characteristic). If a “Solid Waste” fails the test for one or more of these compounds, the waste is considered to be a characteristic hazardous waste – unless there is an exemption that applies. Bear in mind, too, that a characteristic waste may still also be a “listed” hazardous waste. The procedure follows below. For more general information, FAQs and guidances, see www.ehso.com/

1.0 SCOPE AND APPLICATION

1.1 The TCLP is designed to determine the mobility of both organic and inorganic analytes present in liquid, solid, and multiphasic wastes.

1.2 If a total analysis of the waste demonstrates that individual analytes are not present in the waste, or that they are present but at such low concentrations that the appropriate regulatory levels could not possibly be exceeded, the TCLP need not be run.

1.3 If an analysis of any one of the liquid fractions of the TCLP extract indicates that a regulated compound is present at such high concentrations that, even after accounting for dilution from the other fractions of the extract, the concentration would be above the regulatory level for that compound, then the waste is hazardous and it is not necessary to analyze the remaining fractions of the extract.

1.4 If an analysis of extract obtained using a bottle extractor shows that the concentration of any regulated volatile analyte exceeds the regulatory level for that compound, then the waste is hazardous and extraction using the ZHE is not necessary. However, extract from a bottle extractor cannot be used to demonstrate that the concentration of volatile compounds is below the regulatory level.

2.0 SUMMARY OF METHOD

2.1 For liquid wastes (i.e., those containing less than 0.5% dry solid material), the waste, after filtration through a 0.6 to

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0.8 µm glass fiber filter, is defined as the TCLP extract.

2.2 For wastes containing greater than or equal to 0.5% solids, the liquid, if any, is separated from the solid phase and stored for later analysis; the particle size of the solid phase is reduced, if necessary. The solid phase is extracted with an amount of extraction fluid equal to 20 times the weight of the solid phase. The extraction fluid employed is a function of the alkalinity of the solid phase of the waste. A special extractor vessel is used when testing for volatile analytes (see Table 1 for a list of volatile compounds). Following extraction, the liquid extract is separated from the solid phase by filtration through a 0.6 to 0.8 µm glass fiber filter.

2.3 If compatible (i.e., multiple phases will not form on combination), the initial liquid phase of the waste is added to the liquid extract, and these are analyzed together. If incompatible, the liquids are analyzed separately and the results are mathematically combined to yield a volume-weighted average concentration.

3.0 INTERFERENCES

3.1 Potential interferences that may be encountered during analysis are discussed in the individual analytical methods.

4.0 APPARATUS AND MATERIALS

4.1 Agitation apparatus: The agitation apparatus must be capable of rotating the extraction vessel in an end-over-end fashion (see Figure 1) at 30 + 2 rpm. Suitable devices known to EPA are identified in Table 2.

4.2 Extraction Vessels

4.2.1 Zero-Headspace Extraction Vessel (ZHE). This device is for use only when the waste is being tested for the mobility of volatile analytes (i.e., those listed in Table 1). The ZHE (depicted in Figure 2) allows for liquid/solid separation within the device, and effectively precludes headspace. This type of vessel allows for initial liquid/solid separation, extraction, and final extract filtration without opening the vessel (see Section 4.3.1). The vessels shall have an internal volume of 500-600 mL, and be equipped to accommodate a 90-110 mm filter. The devices contain VITON O-rings which should be replaced frequently. Suitable ZHE devices known to EPA are identified in Table 3.

For the ZHE to be acceptable for use, the piston within the ZHE should be able to be moved with approximately 15 psi or less. If it takes more pressure to move the piston, the O-rings in the device should be replaced. If

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this does not solve the problem, the ZHE is unacceptable for TCLP analyses and the manufacturer should be contacted.

The ZHE should be checked for leaks after every extraction. If the device contains a built-in pressure gauge, pressurize the device to 50 psi, allow it to stand unattended for 1 hour, and recheck the pressure. If the device does not have a built-in pressure gauge, pressurize the device to 50 psi, submerge it in water, and check for the presence of air bubbles escaping from any of the fittings. If pressure is lost, check all fittings and inspect and replace O-rings, if necessary. Retest the device. If leakage problems cannot be solved, the manufacturer should be contacted.

Some ZHEs use gas pressure to actuate the ZHE piston, while others use mechanical pressure (see Table 3). Whereas the volatiles procedure (see Section 7.3) refers to pounds per square inch (psi), for the mechanically actuated piston, the pressure applied is measured in torque-inch-pounds. Refer to the manufacturer's instructions as to the proper conversion.[1] ®
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4.2.2 Bottle Extraction Vessel. When the waste is being evaluated using the nonvolatile extraction, a jar with sufficient capacity to hold the sample and the extraction fluid is needed. Headspace is allowed in this vessel. The extraction bottles may be constructed from various materials, depending on the analytes to be analyzed and the nature of the waste (see Section 4.3.3). It is recommended that borosilicate glass bottles be used instead of other types of glass, especially when inorganics are of concern. Plastic bottles, other than polytetrafluoroethylene, shall not be used if organics are to be investigated. Bottles are available from a number of laboratory suppliers. When this type of extraction vessel is used, the filtration device discussed in Section 4.3.2 is used for initial liquid/solid separation and final extract filtration.

4.3 Filtration Devices: It is recommended that all filtrations be performed in a hood.

4.3.1 Zero-Headspace Extractor Vessel (ZHE): When the waste is evaluated for volatiles, the zero-headspace extraction vessel described in Section 4.2.1 is used for filtration. The device shall be capable of supporting and keeping in place the glass fiber filter and be able to withstand the pressure needed to accomplish separation (50 psi).

NOTE: When it is suspected that the glass fiber filter

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has been ruptured, an in-line glass fiber filter may be used to filter the material within the ZHE.

4.3.2 Filter Holder: When the waste is evaluated for other than volatile analytes, any filter holder capable of supporting a glass fiber filter and able to withstand the pressure needed to accomplish separation may be used. Suitable filter holders range from simple vacuum units to relatively complex systems capable of exerting pressures of up to 50 psi or more. The type of filter holder used depends on the properties of the material to be filtered (see Section 4.3.3). These devices shall have a minimum internal volume of 300 mL and be equipped to accommodate a minimum filter size of 47 mm (filter holders having an internal capacity of 1.5 L or greater, and equipped to accommodate a 142 mm diameter filter, are recommended). Vacuum filtration can only be used for wastes with low solids content (<10%) and for highly granular, liquid-containing wastes. All other types of wastes should be filtered using positive pressure filtration. Suitable filter holders known to EPA are shown in Table 4.

4.3.3 Materials of Construction: Extraction vessels and filtration devices shall be made of inert materials which will not leach or absorb waste components. Glass, polytetrafluoroethylene (PTFE), or type 316 stainless steel equipment may be used when evaluating the mobility of both organic and inorganic components. Devices made of high density polyethylene (HDPE), polypropylene (PP), or polyvinyl chloride (PVC) may be used only when evaluating the mobility of metals. Borosili-cate glass bottles are recommended for use over other types of glass bottles, especially when inorganics are analytes of concern.

4.4 Filters: Filters shall be made of borosilicate glass fiber, shall contain no binder materials, and shall have an effective pore size of 0.6 to 0.8 µm, or equivalent. Filters known to EPA which meet these specifications are identified in Table 5. Pre-filters must not be used. When evaluating the mobility of metals, filters shall be acid-washed prior to use by rinsing with 1N nitric acid followed by three consecutive rinses with deionized distilled water (a minimum of 1 L per rinse is recommended). Glass fiber filters are fragile and should be handled with care.

4.5 pH Meters: The meter should be accurate to + 0.05 units at 25 °C.

4.6 ZHE Extract Collection Devices: TEDLAR® bags or glass, stainless steel or PTFE gas-tight syringes are used to collect

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the initial liquid phase and the final extract of the waste when using the ZHE device. The devices listed are recommended for use under the following conditions:

4.6.1 If a waste contains an aqueous liquid phase or if a waste does not contain a significant amount of nonaqueous liquid (i.e., <1% of total waste), the TEDLAR bag or a 600 mL syringe should be used to collect and combine the initial liquid and solid extract.

4.6.2 If a waste contains a significant amount of nonaqueous liquid in the initial liquid phase (i.e., >1% of total waste), the syringe or the TEDLAR bag may be used for both the initial solid/liquid separation and the final extract filtration. However, analysts should use one or the other, not both.

4.6.3 If the waste contains no initial liquid phase (is 100% solid) or has no significant solid phase (is 100% liquid), either the TEDLAR bag or the syringe may be used. If the syringe is used, discard the first 5 mL of liquid expressed from the device. The remaining aliquots are used for analysis.

4.7 ZHE Extraction Fluid Transfer Devices: Any device capable of transferring the extraction fluid into the ZHE without changing the nature of the extraction fluid is acceptable (e.g., a positive displacement or peristaltic pump, a gas tight syringe, pressure filtration unit (see Section 4.3.2), or other ZHE device).

4.8 Laboratory Balance: Any laboratory balance accurate to within + 0.01 grams may be used (all weight measurements are to be within + 0.1 grams).

4.9 Beaker or Erlenmeyer flask, glass, 500 mL.[2] ®

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4.10 Watchglass, appropriate diameter to cover beaker or Erlenmeyer flask.

4.11 Magnetic stirrer.

5 Reagents

5.1 Reagent grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of

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sufficiently high purity to permit its use without lessening the accuracy of the determination.

5.2 Reagent Water. Reagent water is defined as water in which an i nterferant i s not observed at or above the method's detecti on li mi t of the analyte(s) of interest. For nonvolatile extractions, ASTM Type II water or equivalent meets the definition of reagent water. For volatile extractions, it is recommended that reagent water be generated by any of the following methods. Reagent water should be monitored periodically for impurities.

5.2.1 Reagent water for volatile extractions may be generated by passing tap water through a carbon filter bed containing about 500 grams of activated carbon (Calgon Corp., Filtrasorb-300 or equivalent).

5.2.2 A water purification system (Millipore Super-Q or equivalent) may also be used to generate reagent water for volatile extractions.

5.2.3 Reagent water for volatile extractions may also be prepared by boiling water for 15 minutes. Subsequently, while maintaining the water temperature at 90 + 5 degrees C, bubble a contaminant-free inert gas (e.g. nitrogen) through the water for 1 hour. While still hot, transfer the water to a narrow mouth screw-cap bottle under zero-headspace and seal with a Teflon-lined septum and cap.

5.3 Hydrochloric acid (1N), HCl, made from ACS reagent grade.

5.4 Nitric acid (1N), HNO_3, made from ACS reagent grade.

5.5 Sodium hydroxide (1N), NaOH, made from ACS reagent grade.

5.6 Glacial acetic acid, CH_3CHOOH, ACS reagent grade.

5.7 Extraction fluid.

5.7.1 Extracti on fl ui d # 1: Add 5.7 mL gl aci al CH_3CHOOH to 500 mL of reagent water (See Section 5.2), add 64.3 mL of 1N NaOH, and dilute to a volume of 1 liter. When correctly prepared, the pH of this fluid will be 4.93 + 0.05.

5. 7. 2 Extracti on fl ui d # 2: Di lute 5. 7 mL gl aci al CH_3CHOOH wi th reagent water (See Section 5.2) to a volume of 1 liter. When correctly prepared, the pH of this fluid will be 2.88 + 0.05.

NOTE: These extraction fluids should be monitored frequently for impurities. The pH should be checked prior to use to ensure that these fluids are made up accurately. If impurities are found or the pH is not within the above

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specifications, the fluid shall be discarded and fresh extraction fluid prepared.

5.8 Analytical standards shall be prepared according to the appropriate analytical method.

6.0 SAMPLE COLLECTION, PRESERVATION, AND HANDLING

6.1 All samples shall be collected using an appropriate sampling plan.

6.2 The TCLP may place requirements on the minimal size of the field sample, depending upon the physical state or states of the waste and the analytes of concern. An aliquot is needed for preliminary evaluation of which extraction fluid is to be used for the nonvolatile analyte extraction procedure. Another aliquot may be needed to actually conduct the nonvolatile extraction (see Section 1.4 concerning the use of this extract for volatile organics). If volatile organics are of concern, another aliquot may be needed. Quality control measures may require additional aliquots. Further, it is always wise to collect more sample just in case something goes wrong with the initial attempt to conduct the test.

6.3 Preservatives shall not be added to samples before extraction.

6.4 Samples may be refrigerated unless refrigeration results in irreversible physical change to the waste. If precipitation occurs, the entire sample (including precipitate) should be extracted.

6.5 When the waste is to be evaluated for volatile analytes, care shall be taken to minimize the loss of volatiles. Samples shall be collected and stored in a manner intended to prevent the loss of volatile analytes (e. g. , samples should be collected in Teflon-lined septum capped vials and stored at 4 ^{E}C. Samples should be opened only immediately prior to extraction).

6.6 TCLP extracts should be prepared for analysis and analyzed as soon as possible following extraction. Extracts or portions of extracts for metallic analyte determinations must be acidified with nitric acid to a pH < 2, unless precipitation occurs (see Section 7.2.14 if precipitation occurs). Extracts should be preserved for other analytes according to the guidance given in the individual analysis methods. Extracts or portions of extracts for organic analyte determinations shall not be allowed to come into contact with the atmosphere (i.e., no headspace) to prevent losses. See Section 8.0 (QA requirements) for acceptable sample and extract holding times.

7.0 PROCEDURE

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7.1 Preliminary Evaluations

Perform preliminary TCLP evaluations on a minimum 100 gram aliquot of waste. This aliquot may not actually undergo TCLP extraction. These preliminary evaluations include: (1) determination of the percent solids (Section 7.1.1); (2) determination of whether the waste contains insignificant solids and is, therefore, its own extract after filtration (Section 7.1.2); (3) determination of whether the solid portion of the waste requires particle size reduction (Section 7.1.3); and (4) determination of which of the two extraction fluids are to be used for the nonvolatile TCLP extraction of the waste (Section 7.1.4).

7.1.1 Preliminary determination of percent solids: Percent solids is defined as that fraction of a waste sample (as a percentage of the total sample) from which no liquid may be forced out by an applied pressure, as described below.

7.1.1.1 If the waste will obviously yield no liquid when subjected to pressure filtration (i.e., is 100% solids) proceed to Section 7.1.3.

7.1.1.2 If the sample is liquid or multiphasic, liquid/solid separation to make a preliminary determination of percent solids is required. This involves the filtration device described in Section 4.3.2 and is outlined in Sections 7.1.1.3 through 7.1.1.9.

7.1.1.3 Pre-weigh the filter and the container that will
receive the filtrate.

7.1.1.4 Assemble the filter holder and filter following the manufacturer's instructions. Place the filter on the support screen and secure.

7.1.1.5 Wei gh out a subsampl e of the waste (100 gram minimum) and record the weight.

7.1.1.6 Allow slurries to stand to permit the solid phase to settle. Wastes that settle slowly may be centrifuged prior to filtration. Centrifugation is to be used only as an aid to filtration. If used, the liquid should be decanted and filtered followed by filtration of the solid portion of the waste through the same filtration system.

7.1.1.7 Quantitatively transfer the waste sample to the filter holder (liquid and solid phases).

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Spread the waste sample evenly over the surface of the filter. If filtration of the waste at 4 ^{E}C reduces the amount of expressed liquid over what would be expressed at room temperature then allow the sample to warm up to room temperature in the device before filtering.

NOTE: If waste material (>1% of original sample weight) has obviously adhered to the container used to transfer the sample to the filtration apparatus, determine the weight of this residue and subtract it from the sample weight determined in Section 7.1.1.5 to determine the weight of the waste sample that will be filtered.

Gradually apply vacuum or gentle pressure of 1-10 psi, until air or pressurizing gas moves through the filter. If this point is not reached under 10 psi, and if no additional liquid has passed through the filter in any 2 minute interval, slowly increase the pressure in 10 psi increments to a maximum of 50 psi. After each incremental increase of 10 psi, if the pressurizing gas has not moved through the filter, and if no additional liquid has passed through the filter in any 2 minute interval, proceed to the next 10 psi increment. When the pressurizing gas begins to move through the filter, or when liquid flow has ceased at 50 psi (i.e., filtration does not result in any additional filtrate within any 2 minute period), stop the filtration.

NOTE: Instantaneous application of high pressure can degrade the glass fiber filter and may cause premature plugging.

7.1.1.8 The material in the filter holder is defined as the solid phase of the waste, and the filtrate is defined as the liquid phase.

NOTE: Some wastes, such as oily wastes and some paint wastes, will obviously contain some material that appears to be a liquid. Even after applying

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vacuum or pressure filtration, as outlined in Section 7.1.1.7, this material may not filter. If this is the case, the material within the filtration device is defined as a solid. Do not replace the original filter with a fresh filter under any circumstances. Use only one filter.

7.1.1.9 Determine the weight of the liquid phase by subtracting the weight of the filtrate container (see Section 7.1.1.3) from the total weight of the filtrate-filled container. Determine the weight of the solid phase of the waste sample by subtracting the weight of the liquid phase from the weight of the total waste sample, as determined in Section 7.1.1.5 or 7.1.1.7.

Record the weight of the liquid and solid phases. Calculate the percent solids as follows:

$$\text{Percent solids} = \frac{\text{Weight of solid (Section 7.1.1.9)}}{\text{Total weight of waste (Section 7.1.1.5 or 7.1.1.7)}} \times 100$$

7.1.2 If the percent solids determined in Section 7.1.1.9 is
equal to or greater than 0.5%, then proceed either to Section 7.1.3 to determine whether the solid material requires particle size reduction or to Section 7.1.2.1 if it is noticed that a small amount of the filtrate is entrained in wetting of the filter. If the percent solids determined in Section 7.1.1.9 is less than 0.5%, then proceed to Section 7.2.9 if the nonvolatile TCLP is to be performed and to Section 7.3 with a fresh portion of the waste if the volatile TCLP is to be performed.

7.1.2.1 Remove the solid phase and filter from the filtration apparatus.

7.1.2.2 Dry the filter and solid phase at 100 + 20 ^{E}C until two successive weighing yield the same value within + 1%. Record the final weight.

NOTE: Caution should be taken to ensure that the subject solid will not flash upon heating. It is recommended that the drying oven be

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vented to a hood or other appropriate device.

7.1.2.3 Calculate the percent dry solids as follows:

$$\text{Percent dry solids} = \frac{\text{(Wt. of dry waste + filter)- tared wt. of filter}}{\text{Initial wt. of waste (Section 7.1.1.5 or 7.1.1.7)}} \times 100$$

7.1.2.4 If the percent dry solids is less than 0.5%, then proceed to Section 7.2.9 if the nonvolatile TCLP is to be performed, and to Section 7.3 if the volatile TCLP is to be performed. If the percent dry solids is greater than or equal to 0.5%, and if the nonvolatile TCLP is to be performed, return to the beginning of this Section (7.1) and, with a fresh portion of waste, determine whether particle size reduction is necessary (Section 7.1.3) and determine the appropriate extraction fluid (Section 7.1.4). If only the volatile TCLP is to be performed, see the note in Section 7.1.4.

7.1.3 Determination of whether the waste requires particle size reduction (particle size is reduced during this step): Using the solid portion of the waste, evaluate the solid for particle size. Particle size reduction is required, unless the solid has a surface area per gram of material equal to or greater than 3.1 cm, or is smaller than 1 cm in its narrowest dimension (i.e., is capable of passing through a 9.5 mm (0.375 inch) standard sieve). If the surface area is smaller or the particle size larger than described above, prepare the solid portion of the waste for extraction by crushing, cutting, or grinding the waste to a surface area or particle size as described above. If the solids are prepared for organic volatiles extraction, special precautions must be taken (see Section 7.3.6).

NOTE: Surface area criteria re meant for filamentous (e.g., paper, cloth, and similar) waste materials. Actual measurement of surface area is not required, nor is it recommended. For materials that do not obviously meet the criteria, sample specific methods would need to be developed and employed to measure the surface area. Such methodology is currently not available.

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7.1.4 Determination of appropriate extraction fluid: If the solid content of the waste is greater than or equal to 0.5% and if the sample will be extracted for nonvolatile constituents (Section 7.2), determine the appropriate fluid (Section 5.7) for the nonvolatiles extraction as follows:

NOTE:TCLP extraction for volatile constituents uses only extraction

7.1.4.1 Weigh out a small subsample of the solid phase of the waste, reduce the solid (if necessary) to a particle size of approximately 1 mm in diameter or less, and transfer 5.0 grams of the solid phase of the waste to a 500 mL beaker or Erlenmeyer flask.

7.1.4.2 Add 96.5 mL of reagent water to the beaker, cover with a watchglass, and stir vigorously for 5 minutes using a magnetic stirrer. Measure and record the pH. If the pH is <5.0, use extraction fluid #1. Proceed to Section 7.2.

7.1.4.3 If the pH from Section 7.1.4.2 is >5.0, add 3.5 mL 1N HCl, slurry briefly, cover with a watchglass, heat to 50 ^{E}C, and hold at 50 ^{E}C for 10 minutes.

7.1.4.4 Let the solution cool to room temperature and record the pH. If the pH is <5.0, use extraction fluid #1. If the pH is >5.0, use extraction fluid #2. Proceed to Section 7.2.

7.1.5 If the aliquot of the waste used for the preliminary evaluation (Sections 7.1.1 - 7.1.4) was determined to be 100% solid at Section 7.1.1.1, then it can be used for the Section 7.2 extraction (assuming at least 100 grams remain), and the Section 7.3 extraction (assuming at least 25 grams remain). If the aliquot was subjected to the procedure in Section 7.1.1.7, then another aliquot shall be used for the volatile extraction procedure in Section 7.3. The aliquot of the waste subjected to the procedure in Section 7.1.1.7 might be appropriate for use for the Section 7.2 extraction if an adequate amount of solid (as determined by Section 7.1.1.9) was obtained. The amount of solid necessary is dependent upon whether a sufficient amount of extract will be produced to support the analyses. If an adequate amount of solid remains, proceed to Section 7.2.10 of the nonvolatile TCLP extraction.

7.2 Procedure When Volatiles are not Involved

A minimum sample size of 100 grams (solid and liquid phases) is

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recommended. In some cases, a larger sample size may be appropriate, depending on the solids content of the waste sample (percent solids, See Section 7.1.1), whether the initial liquid phase of the waste will be miscible with the aqueous extract of the solid, and whether inorganics, semivolatile organics, pesticides, and herbicides are all analytes of concern. Enough solids should be generated for extraction such that the volume of TCLP extract will be sufficient to support all of the analyses required. If the amount of extract generated by a single TCLP extraction will not be sufficient to perform all of the analyses, more than one extraction may be performed and the extracts from each combined and aliquoted for analysis.

7.2.1 If the waste will obviously yield no liquid when subjected to pressure filtration (i.e., is 100% solid, see Section 7.1.1), weigh out a subsample of the waste (100 gram minimum) and proceed to Section 7.2.9.

7.2.2 If the sample is liquid or multiphasic, liquid/solid separation is required. This involves the filtration device described in Section 4.3.2 and is outlined in Sections 7.2.3 to 7.2.8.

7.2.3 Pre-weigh the container that will receive the filtrate.

7.2.4 Assemble the filter holder and filter following the manufacturer's instructions. Place the filter on the support screen and secure. Acid wash the filter if evaluating the mobility of metals (see Section 4.4).

NOTE: Acid washed filters may be used for all nonvolatile extractions even when metals are not of concern.

7.2.5 Weigh out a subsample of the waste (100 gram minimum) and record the weight. If the waste contains <0.5% dry solids (Section 7.1.2), the liquid portion of the waste, after filtration, is defined as the TCLP extract. Therefore, enough of the sample should be filtered so that the amount of filtered liquid will support all of the analyses required of the TCLP extract. For wastes containing >0.5% dry solids (Sections 7.1.1 or 7.1.2), use the percent solids information obtained in Section 7.1.1 to determine the optimum sample size (100 gram minimum) for filtration. Enough solids should be generated by filtration to support the analyses to be performed on the TCLP extract.

7.2.6 Allow slurries to stand to permit the solid phase to settle. Wastes that settle slowly may be centrifuged prior to filtration. Use centrifugation only as an aid to filtration. If the waste is centrifuged, the liquid should be decanted and filtered followed by filtration of the solid portion of the waste through the same filtration system.

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7.2.7 Quantitatively transfer the waste sample (liquid and solid phases) to the filter holder (see Section 4.3.2). Spread the waste sample evenly over the surface of the filter. If filtration of the waste at 4 ^{E}C reduces the amount of expressed liquid over what would be expressed at room temperature, then allow the sample to warm up to room temperature in the device before filtering.

NOTE: If waste material (>1% of the original sample weight) has obviously adhered to the container used to transfer the sample to the filtration apparatus, determine the weight of this residue and subtract it from the sample weight determined in Section 7.2.5, to determine the weight of the waste sample that will be filtered.

Gradually apply vacuum or gentle pressure of 1-10 psi, until air or pressurizing gas moves through the filter. If this point is not reached under 10 psi, and if no additional liquid has passed through the filter in any 2 minute interval, slowly increase the pressure in 10 psi increments to a maximum of 50 psi. After each incremental increase of 10 psi, if the pressurizing gas has not moved through the filter, and if no additional liquid has passed through the filter in any 2 minute interval, proceed to the next 10 psi increment. When the pressurizing gas begins to move through the filter, or when the liquid flow has ceased at 50 psi (i.e., filtration does not result in any additional filtrate within a 2 minute period), stop the filtration.

NOTE: Instantaneous application of high pressure can degrade the glass fiber filter and may cause premature plugging.

7.2.8 The material in the filter holder is defined as the solid phase of the waste, and the filtrate is defined as the liquid phase. Weigh the filtrate. The liquid phase may now be either analyzed (See Section 7.2.12) or stored at 4 ^{E}C until time of analysis.

NOTE: Some wastes, such as oily wastes and some paint wastes, will obviously contain some material that appears to be a liquid. Even after applying vacuum or pressure filtration, as outlined in Section 7.2.7, this material may not filter. If this is the case, the material within the filtration device is defined as a solid and is carried through the extraction as a solid. Do not replace the original filter with a fresh filter under any circumstances. Use only one filter.

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7.2.9 If the waste contains <0.5% dry solids (see Section 7.1.2), proceed to Section 7.2.13. If the waste contains >0.5% dry solids (see Section 7.1.1 or 7.1.2), and if particle size reduction of the solid was needed in Section 7.1.3, proceed to Section 7.2.10. If the waste as received passes a 9.5 mm sieve, quantitatively transfer the solid material into the extractor bottle along with the filter used to separate the initial liquid from the solid phase, and proceed to Section 7.2.11.

7.2.10 Prepare the solid portion of the waste for extraction by crushing, cutting, or grinding the waste to a surface area or particle size as described in Section 7.1.3. When the surface area or particle size has been appropriately altered, quantitatively transfer the solid material into an extractor bottle. Include the filter used to separate the initial liquid from the solid phase.

NOTE: Sieving of the waste is not normally required. Surface area requirements are meant for filamentous (e.g., paper, cloth) and similar waste materials. Actual measurement of surface area is not recommended. If sieving is necessary, a Teflon coated sieve should be used to avoid contamination of the sample.

7.2.11 Determine the amount of extraction fluid to add to the extractor vessel as follows:

$$\text{Weight of extraction fluid} = \frac{20 \times \text{percent solids (Section 7.1.1)} \times \text{weight of waste filtered (Section 7.2.5 or 7.2.7)}}{100}$$

Slowly add this amount of appropriate extraction fluid (see Section 7.1.4) to the extractor vessel. Close the extractor bottle tightly (it is recommended that Teflon tape be used to ensure a tight seal), secure in rotary agitation device, and rotate at 30 + 2 rpm for 18 + 2 hours. Ambient temperature (i.e., temperature of room in which extraction takes place) shall be maintained at 23 + 2 ^{E}C during the extraction period.

NOTE: As agitation continues, pressure may build up within the extractor bottle for some types of wastes (e.g., limed or calcium carbonate containing waste may evolve gases such as

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carbon dioxide). To relieve excess pressure, the extractor bottle may be periodically opened (e.g., after 15 minutes, 30 minutes, and 1 hour) and vented into a hood.

7.2.12 Following the 18 + 2 hour extraction, separate the material in the extractor vessel into its component liquid and solid phases by filtering through a new glass fiber filter, as outlined in Section 7.2.7. For final filtration of the TCLP extract, the glass fiber filter may be changed, if necessary, to facilitate filtration. Filter(s) shall be acid-washed (see Section 4.4) if evaluating the mobility of metals.

7.2.13 Prepare the TCLP extract as follows:

7.2.13.1 If the waste contained no initial liquid phase, the filtered liquid material obtained from Section 7.2.12 is defined as the TCLP extract. Proceed to Section 7.2.14.

7.2.13.2 If compatible (e.g., multiple phases will not result on combination), combine the filtered liquid resulting from Section 7.2.12 with the initial liquid phase of the waste obtained in Section 7.2.7. This combined liquid is defined as the TCLP extract. Proceed to Section 7.2.14.

7.2.13.3 If the initial liquid phase of the waste, as obtained from Section 7.2.7, is not or may not be compatible with the filtered liquid resulting from Section 7.2.12, do not combine these liquids. Analyze these liquids, collectively defined as the TCLP extract, and combine the results mathematically, as described in Section 7.2.14.

7.2.14 Following collection of the TCLP extract, the pH of the extract should be recorded. Immediately aliquot and preserve the extract for analysis. Metals aliquots must be acidified with nitric acid to pH <2. If precipitation is observed upon addition of nitric acid to a small aliquot of the extract, then the remaining portion of the extract for metals analyses shall not be acidified and the extract shall be analyzed as soon as possible. All other aliquots must be stored under refrigeration (4 ^{E}C) until analyzed. The TCLP extract shall be prepared and analyzed according to appropriate analytical methods. TCLP extracts to be analyzed for metals shall be acid digested except in those instances where digestion causes loss of metallic

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analytes. If an analysis of the undigested extract shows that the concentration of any regulated metallic analyte exceeds the regulatory level, then the waste is hazardous and digestion of the extract is not necessary. However, data on undigested extracts alone cannot be used to demonstrate that the waste is not hazardous. If the individual phases are to be analyzed separately, determine the volume of the individual phases (to + 0.5%), conduct the appropriate analyses, and combine the results mathematically by using a simple volume-weighted average:

$$\text{Final Analyte Concentration} = \frac{(V_1)(C_1) + (V_2)(C_2)}{V_1 + V_2}$$

where:

V_1 = The volume of the first phase (L).
C_1 = The concentration of the analyte of concern in the first phase (mg/L).
V_2 = The volume of the second phase (L).
C_2 = The concentration of the analyte of concern in the second phase (mg/L).

7.2.15 Compare the analyte concentrations in the TCLP extract with the levels identified in the appropriate regulations. Refer to Section 8.0 for quality assurance requirements.

7.3 Procedure When Volatiles are Involved

Use the ZHE device to obtain TCLP extract for analysis of volatile compounds only. Extract resulting from the use of the ZHE shall not be used to evaluate the mobility of nonvolatile analytes (e.g., metals, pesticides, etc.).

The ZHE device has approximately a 500 mL internal capacity. The ZHE can thus accommodate a maximum of 25 grams of solid (defined as that fraction of a sample from which no additional liquid may be forced out by an applied pressure of 50 psi), due to the need to add an amount of extraction fluid equal to 20 times the weight of the solid phase.

Charge the ZHE with sample only once and do not open the device until the final extract (of the solid) has been collected. Repeated filling of the ZHE to obtain 25 grams of solid is not permitted.

Do not allow the waste, the initial liquid phase, or the extract to be exposed to the atmosphere for any more time than

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is absolutely necessary. Any manipulation of these materials should be done when cold (4 ^{E}C) to minimize loss of volatiles.

7.3.1 Pre-weigh the (evacuated) filtrate collection container (See Section 4.6) and set aside. If using a TEDLAR bag, express all liquid from the ZHE device into the bag, whether for the initial or final liquid/solid separation, and take an aliquot from the liquid in the bag for analysis. The containers listed in Section 4.6 are recommended for use under the conditions stated in Sections 4.6.1 - 4.6.3.

7.3.2 Place the ZHE piston within the body of the ZHE (it may be helpful first to moisten the piston O-rings slightly with extraction fluid). Adjust the piston within the ZHE body to a height that will minimize the distance the piston will have to move once the ZHE is charged with sample (based upon sample size requirements determined from Section 7.3, Section 7.1.1 and/or 7.1.2). Secure the gas inlet/outlet flange (bottom flange) onto the ZHE body in accordance with the manufacturer's instructions. Secure the glass fiber filter between the support screens and set aside. Set liquid inlet/outlet flange (top flange) aside.

7.3.3 If the waste is 100% solid (see Section 7.1.1), weigh out a subsample (25 gram maximum) of the waste, record weight, and proceed to Section 7.3.5.

7.3.4 If the waste contains < 0.5% dry solids (Section 7.1.2), the liquid portion of waste, after filtration, is defined as the TCLP extract. Filter enough of the sample so that the amount of filtered liquid will support all of the volatile analyses required. For wastes containing > 0.5% dry solids (Sections 7.1.1 and/or 7.1.2), use the percent solids information obtained in Section 7.1.1 to determine the optimum sample size to charge into the ZHE. The recommended sample size is as follows:

7.3.4.1 For wastes containing < 5% solids (see Section 7.1.1), weigh out a 500 gram subsample of waste and record the weight.

7.3.4.2 For wastes containing > 5% solids (see Section 7.1.1), determine the amount of waste to charge into the ZHE as follows:

$$\text{Weight of waste to charge ZHE} = \frac{25}{\text{100 percent solids (Section 7.1.1)}} \times$$

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Weigh out a subsample of the waste of the appropriate size and record the weight.

7.3.5 If particle size reduction of the solid portion of the waste was required in Section 7.1.3, proceed to Section 7.3.6. If particle size reduction was not required in Section 7.1.3, proceed to Section 7.3.7.

7.3.6 Prepare the waste for extraction by crushing, cutting, or grinding the solid portion of the waste to a surface area or particle size as described in Section 7.1.3. Wastes and appropriate reduction equipment should be refrigerated, if possible, to 4 ^{E}C prior to particle size reduction. The means used to effect particle size reduction must not generate heat in and of itself. If reduction of the solid phase of the waste is necessary, exposure of the waste to the atmosphere should be avoided to the extent possible.

NOTE: Sieving of the waste is not recommended due to the possibility that volatiles may be lost. The use of an appropriately graduated ruler is recommended as an acceptable alternative. Surface area requirements are meant for filamentous (e.g., paper, cloth) and similar waste materials. Actual measurement of surface area is not recommended.

When the surface area or particle size has been appropriately altered, proceed to Section 7.3.7.

7.3.7 Waste slurries need not be allowed to stand to permit the
solid phase to settle. Do not centrifuge wastes prior to filtration.

7.3.8 Quantitatively transfer the entire sample (liquid and solid phases) quickly to the ZHE. Secure the filter and support screens onto the top flange of the device and secure the top flange to the ZHE body in accordance with the manufacturer's instructions. Tighten all ZHE fittings and place the device in the vertical position (gas inlet/outlet flange on the bottom). Do not attach the extract collection device to the top plate.

NOTE: If waste material (>1% of original sample weight) has obviously adhered to the container used to transfer the sample to the ZHE, determine the weight of this residue and subtract it from the sample weight determined in Section 7.3.4 to

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determine the weight of the waste sample that will be filtered.

Attach a gas line to the gas inlet/outlet valve (bottom flange) and, with the liquid inlet/outlet valve (top flange) open, begin applying gentle pressure of 1-10 psi (or more if necessary) to force all headspace slowly out of the ZHE device into a hood. At the first appearance of liquid from the liquid inlet/outlet valve, quickly close the valve and discontinue pressure. If filtration of the waste at 4 ^{E}C reduces the amount of expressed liquid over what would be expressed at room temperature, then allow the sample to warm up to room temperature in the device before filtering. If the waste is 100% solid (see Section 7.1.1), slowly increase the pressure to a maximum of 50 psi to force most of the headspace out of the device and proceed to Section 7.3.12.

7.3.9 Attach the evacuated pre-weighed filtrate collection container to the liquid inlet/outlet valve and open the valve. Begin applying gentle pressure of 1-10 psi to force the liquid phase of the sample into the filtrate collection container. If no additional liquid has passed through the filter in any 2 minute interval, slowly increase the pressure i n 10 psi i ncrements to a maxi mum of 50 psi . After each incremental increase of 10 psi, if no additional liquid has passed through the filter in any 2 minute interval, proceed to the next 10 psi increment. When liquid flow has ceased such that continued pressure filtration at 50 psi does not result in any additional filtrate within a 2 minute period, stop the filtration. Close the liquid inlet/outlet valve, discontinue pressure to the piston, and disconnect and weigh the filtrate collection container.

NOTE: Instantaneous application of high pressure can degrade the glass fiber filter and may cause premature plugging.

7.3.10 The material in the ZHE is defined as the solid phase of the waste and the filtrate is defined as the liquid phase.

NOTE: Some wastes, such as oily wastes and some paint wastes, will obviously contain some material that appears to be a liquid. Even after applying pressure filtration, this material will not filter. If this is the case, the material within the filtration device is defined as a solid and is carried through the TCLP extraction as a

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solid.

If the original waste contained <0.5% dry solids (see Section 7.1.2), this filtrate is defined as the TCLP extract and is analyzed directly. Proceed to Section 7.3.15.

7.3.11 The liquid phase may now be either analyzed immediately (See Sections 7.3.13 through 7.3.15) or stored at 4 ^{E}C under minimal headspace conditions until time of analysis. Determine the weight of extraction fluid #1 to add to the ZHE as follows:

$$\text{Weight of extraction fluid} = \frac{20 \times \text{percent solids (Section 7.1.1)} \times \text{weight of waste filtered (Section 7.3.4 or 7.3.8)}}{100}$$

7.3.12 The following Sections detail how to add the appropriate amount of extraction fluid to the solid material within the ZHE and agitation of the ZHE vessel. Extraction fluid #1 is used in all cases (See Section 5.7).

7.3.12.1 With the ZHE in the vertical position, attach a line from the extraction fluid reservoir to the liquid inlet/outlet valve. The line used shall contain fresh extraction fluid and should be preflushed with fluid to eliminate any air pockets in the line. Release gas pressure on the ZHE piston (from the gas inlet/outlet valve), open the liquid inlet/outlet valve, and begin transferring extraction fluid (by pumping or similar means) into the ZHE. Continue pumping extraction fluid into the ZHE until the appropriate amount of fluid has been introduced into the device.

7.3.12.2 After the extraction fluid has been added, immediately close the liquid inlet/outlet valve and disconnect the extraction fluid line. Check the ZHE to ensure that all valves are in their closed positions. Manually rotate the device in an end-over-end fashion 2 or 3 times. Reposition the ZHE in the vertical position with the liquid inlet/outlet valve on top. Pressurize the ZHE to 5-10 psi (if necessary) and slowly open the liquid

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inlet/outlet valve to bleed out any headspace (into a hood) that may have been i ntroduced due to the addi ti on of extracti on fluid. This bleeding shall be done quickly and shall be stopped at the first appearance of liquid from the valve. Re-pressurize the ZHE with 5-10 psi and check all ZHE fittings to ensure that they are closed.

7.3.12.3 Place the ZHE in the rotary agitation apparatus (if it is not already there) and rotate at 30 + 2 rpm for 18 + 2 hours. Ambient temperature (i.e., temperature of room in which extraction occurs) shall be maintained at 23 + 2 ^{E}C during agitation.

7.3.13 Following the 18 + 2 hour agitation period, check the pressure behind the ZHE piston by quickly opening and closing the gas inlet/outlet valve and noting the escape of gas. If the pressure has not been maintained (i.e., no gas release observed), the device is leaking. Check the ZHE for leaking as specified in Section 4.2.1, and perform the extraction again with a new sample of waste. If the pressure within the device has been maintained, the material in the extractor vessel is once again separated into its component liquid and solid phases. If the waste contained an initial liquid phase, the liquid may be filtered directly into the same filtrate collection container (i.e., TEDLAR bag) holding the initial liquid phase of the waste. A separate filtrate collection container must be used if combining would create multiple phases, or there is not enough volume left within the filtrate collection container. Filter through the glass fiber filter, using the ZHE device as discussed in Section 7.3.9. All extract shall be filtered and collected if theTEDLAR bag is used, if the extract is multiphasic, or if the waste contained an initial liquid phase (see Sections 4.6 and 7.3.1).

NOTE: An in-line glass fiber filter may be used to filter the material within the ZHE if it is suspected that the glass fiber filter has been ruptured.

7.3.14 If the original waste contained no initial liquid phase, the filtered liquid material obtained from Section 7.3.13 is defined as the TCLP extract. If the waste contained an initial liquid phase, the filtered liquid material obtained from Section 7.3.13 and the initial liquid phase (Section 7.3.9) are collectively defined as the TCLP extract.

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7.3.15 Following collection of the TCLP extract, immediately prepare the extract for analysis and store with minimal headspace at 4 EC until analyzed. Analyze the TCLP extract according to the appropriate analytical methods. If the individual phases are to be analyzed separately (i.e., are not miscible), determine the volume of the individual phases (to 0.5%), conduct the appropriate analyses, and combine the results mathematically by using a simple volume-weighted average:

$$\text{Final Analyte Concentration} = \frac{(V_1)(C_1) + (V_2)(C_2)}{V_1 + V_2}$$

where:

V_1 = The volume of the first phases (L).
C_1 = The concentration of the analyte of concern in the first phase (mg/L).
V_2 = The volume of the second phase (L).
C_2 = The concentration of the analyte of concern in the second phase (mg/L).

7.3.16 Compare the analyte concentrations in the TCLP extract with the levels identified in the appropriate regulations. Refer to Section 8.0 for quality assurance requirements.

8.0 QUALITY ASSURANCE

8.1 A minimum of one blank (using the same extraction fluid as used for the samples) must be analyzed for every 20 extractions that have been conducted in an extraction vessel.

8.2 A matrix spike shall be performed for each waste type (e.g., wastewater treatment sludge, contaminated soil, etc.) unless the result exceeds the regulatory level and the data are being used solely to demonstrate that the waste property exceeds the regulatory level. A minimum of one matrix spike must be analyzed for each analytical batch. As a minimum, follow the matrix spike addition guidance provided in each analytical method.

8.2.1 Matrix spikes are to be added after filtration of the TCLP extract and before preservation. Matrix spikes should not be added prior to TCLP extraction of the sample.

8.2.2 In most cases, matrix spikes should be added at a concentration equivalent to the corresponding regulatory level. If the analyte concentration is less than one half the regulatory level, the spike concentration may be as

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low as one half of the analyte concentration, but may not be not less than five times the method detection limit. In order to avoid differences in matrix effects, the matrix spikes must be added to the same nominal volume of TCLP extract as that which was analyzed for the unspiked sample.

8.2.3 The purpose of the matrix spike is to monitor the performance of the analytical methods used, and to determine whether matrix interferences exist. Use of other internal calibration methods, modification of the analytical methods, or use of alternate analytical methods may be needed to accurately measure the analyte concentration in the TCLP extract when the recovery of the matrix spike is below the expected analytical method performance.

8.2.4 Matrix spike recoveries are calculated by the following formula:

$$\%R\ (\%Recovery) = 100\ (X_s - X_u)/K$$

where:
X_s = measured value for the spiked sample,
X_u = measured value for the unspiked sample, and
K = known value of the spike in the sample.

8.3 All quality control measures described in the appropriate analytical methods shall be followed.

8.4 The use of internal calibration quantitation methods shall be employed for a metallic contaminant if: (1) Recovery of the contaminant from the TCLP extract is not at least 50% and the concentration does not exceed the regulatory level, and (2) The concentration of the contaminant measured in the extract is within 20% of the appropriate regulatory level.

8.4.1. The method of standard additions shall be employed as the internal calibration quantitation method for each metallic contaminant.

8.4.2 The method of standard additions requires preparing calibration standards in the sample matrix rather than reagent water or blank solution. It requires taking four identical aliquots of the solution and adding known amounts of standard to three of these aliquots. The forth aliquot is the unknown. Preferably, the first addition should be prepared so that the resulting concentration is approximately 50% of the expected concentration of the sample. The second and third additions should be prepared

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so that the concentrations are approximately 100% and 150% of the expected concentration of the sample. All four aliquots are maintained at the same final volume by adding reagent water or a blank solution, and may need dilution adjustment to maintain the signals in the linear range of the instrument technique. All four aliquots are analyzed.

8.4.3 Prepare a plot, or subject data to linear regression, of instrument signals or external-calibration-derived concentrations as the dependant variable (y-axis) versus concentrations of the additions of standard as the independent variable (x-axis). Solve for the intercept of the abscissa (the independent variable, x-axis) which is the concentration in the unknown.

8.4.4 Alternately, subtract the instrumental signal or external-calibration-derived concentration of the unknown (unspiked) sample from the instrumental signals or external-calibration-derived concentrations of the standard additions. Plot or subject to linear regression of the corrected instrument signals or external-calibration-derived concentrations as the dependant variable versus the independent variable. Derive concentrations for unknowns using the internal calibration curve as if it were an external calibration curve.

8.5 Samples must undergo TCLP extraction within the following time periods:

SAMPLE MAXIMUM HOLDING TIMES [DAYS]				
	From: Field collection To: TCLP extraction	From: TCLP extraction To: Preparative extraction	From: Preparative extraction To: Determinative analysis	Total elapsed time
Volatiles	14	NA	14	28
Semi-volatiles	14	7	40	61
Mercury	28	NA	28	56
Metals, except mercury	180	NA	180	360

NA = Not applicable

If sample holding times are exceeded, the values obtained will be considered minimal concentrations. Exceeding the holding time is not acceptable in establishing that a waste does not exceed the regulatory level. Exceeding the holding time will not invalidate characterization if the waste exceeds the regulatory

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level.

None of the parameters had a significant effect on the results of the ruggedness test.

9.0 METHOD PERFORMANCE

9.1 Ruggedness. Two ruggedness studies have been performed to determine the effect of various perturbations on specific elements of the TCLP protocol. Ruggedness testing determines the sensitivity of small procedural variations which might be expected to occur during routine laboratory application.

9.1.1 Metals - The following conditions were used when leaching a waste for metals analysis:

Varying Conditions	
Liquid/Solid ratio	19:1 vs. 21:1
Extraction time	16 hours vs. 18 hours
Headspace	20% vs. 60%
Buffer #2 acidity	190 meq vs. 210 meq
Acid-washed filters	yes vs. no
Filter type	0.7 µm glass fiber vs. 0.45 µm vs. polycarbonate
Bottle type	borosilicate vs. flint glass

Of the seven method variations examined, acidity of the extraction fluid had the greatest impact on the results. Four of 13 metals from an API separator sludge/ electroplating waste (API/EW) mixture and two of three metals from an ammonia lime still bottom waste were extracted at higher levels by the more acidic buffer. Because of the sensitivity to pH changes, the method requires that the extraction fluids be prepared so that the final pH is within + 0.05 units as specified.

9.1.2 Volatile Organic Compounds - The following conditions were used when leaching a waste for VOC analysis:

Varying Conditions	
Liquid/Solid ratio	19:1 vs. 21:1
Headspace	0% vs. 5%
Buffer #1 acidity	60 meq vs. 80 meq
Method of storing extract	Syringe vs. Tedlar bag ®
Aliquotting	yes vs. no
Pressure behind piston	0 psi vs. 20 psi

9.2 Precision. Many TCLP precision (reproducibility) studies have been performed, and have shown that, in general, the precision of the TCLP is comparable to or exceeds that of the EP toxicity test and that method precision is adequate. One of the more significant contributions to poor precision appears to be related to sample homogeneity and inter-laboratory variation (due to the

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nature of waste materials).

9.2.1 Metals - The results of a multi-laboratory study are shown in Table 6, and indicate that a single analysis of a waste may not be adequate for waste characterization and identification requirements.

9.2.2 Semi-Volatile Organic Compounds - The results of two studies are shown in Tables 7 and 8. Single laboratory precision was excellent with greater than 90 percent of the results exhibiting an RSD less than 25 percent. Over 85 percent of all individual compounds in the multi-laboratory study fell in the RSD range of 20 - 120 percent. Both studies concluded that the TCLP provides adequate precision. It was also determined that the high acetate content of the extraction fluid did not present problems (i.e., column degradation of the gas chromatograph) for the analytical conditions used.

9.2.3 Volatile Organic Compounds - Eleven laboratories participated in a collaborative study of the use of the ZHE with two waste types which were fortified with a mixture of VOCs. The results of the collaborative study are shown in Table 9. Precision results for VOCs tend to occur over a considerable range. However, the range and mean RSD compared very closely to the same collaborative study metals results in Table 6. Blackburn and Show concluded that at the 95% level of significance: 1) recoveries among laboratories were statistically similar, 2) recoveries did not vary significantly between the two sample types, and 3) each laboratory showed the same pattern of recovery for each of the two samples.

10.0 REFERENCES

1. Blackburn, W.B. and Show, I. "Collaborative Study of the Toxicity Characteristics Leaching Procedure (TCLP)." Draft Final Report, Contract No. 68-03-1958, S-Cubed, November 1986.

2. Newcomer, L.R., Blackburn, W.B., Kimmell, T.A. "Performance of the Toxicity Characteristic Leaching Procedure." Wilson Laboratories, S-Cubed, U.S. EPA, December 1986.

3. Williams, L.R., Francis, C.W.; Maskarinec, M.P., Taylor D.R., and Rothman, N. "Single-Laboratory Evaluation of Mobility Procedure for Solid Waste." EMSL, ORNL, S-Cubed, ENSECO.

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Table 1.
Volatile Analytes[1,2]

Compound	CAS No.
Acetone	67-64-1
Benzene	71-43-2
n-Butyl alcohol	71-36-3
Carbon disulfide	75-15-0
Carbon tetrachloride	56-23-5
Chlorobenzene	108-90-7
Chloroform	67-66-3
1,2-Dichloroethane	107-06-2
1,1-Dichloroethylene	75-35-4
Ethyl acetate	141-78-6
Ethyl benzene	100-41-4
Ethyl ether	60-29-7
Isobutanol	78-83-1
Methanol	67-56-1
Methylene chloride	75-09-2
Methyl ethyl ketone	78-93-3
Methyl isobutyl ketone	108-10-1
Tetrachloroethylene	127-18-4
Toluene	108-88-3
1,1,1,-Trichloroethane	71-55-6
Trichloroethylene	79-01-6
Trichlorofluoromethane	75-69-4
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1
Vinyl chloride	75-01-4
Xylene	1330-20-7

[1] When testing for any or all of these analytes, the zero-headspace extractor vessel shall be used instead of the bottle extractor.

[2] Benzene, carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichloroethane, 1,1-dichloroethylene, methyl ethyl ketone, tetrachloroethylene, and vinyl chloride are toxicity characteristic constituents.

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Table 2.
Suitable Rotary Agitation Apparatus[1]

Company	Location	Model No.
Analytical Testing and Consulting Services, Inc.	Warrington, PA (215) 343-4490	4-vessel extractor (DC20S) 8-vessel extractor (DC20) 12-vessel extractor (DC20B) 24-vessel extractor (DC24C)
Associated Design and Manufacturing Company	Alexandria, VA (703) 549-5999	2-vessel (3740-2-BRE) 4-vessel (3740-4-BRE) 6-vessel (3740-6-BRE) 8-vessel (3740-8-BRE) 12-vessel (3740-12-BRE) 24-vessel (3740-24-BRE)
Environmental Machine and Design, Inc.	Lynchburg, VA (804) 845-6424	8-vessel (08-00-00) 4-vessel (04-00-00)
IRA Machine Shop and Laboratory	Santurce, PR (809) 752-4004	8-vessel (011001)
Lars Lande Manufacturing	Whitmore Lake, MI (313) 449-4116	10-vessel (10VRE) 5-vessel (5VRE) 6-vessel (6VRE)
Millipore Corp.	Bedford, MA (800) 225-3384	4-ZHE or 4 2-liter bottle extractor (YT31ORAHW)

[1] Any device that rotates the extraction vessel in an end-over-end fashion at 30 + 2 rpm is acceptable.

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Table 3.
Suitable Zero-Headspace Extractor Vessels[1]

Company	Location	Model No.
Analytical Testing & Consulting Services, Inc.	Warrington, PA (215) 343-4490	C1O2, Mechanical Pressure Device
Associated Design and Manufacturing Company	Alexandria, VA (703) 549-5999	3745-ZHE, Gas Pressure Device
Lars Lande Manufacturing[2]	Whitmore Lake, MI (313) 449-4116	ZHE-11, Gas Pressure Device
Millipore Corporation	Bedford, MA (800) 225-3384	YT30O9OHW, Gas Pressure Device
Environmental Machine and Design, Inc.	Lynchburg, VA (804) 845-6424	VOLA-TOX1, Gas Pressure Device
Gelman Science	Ann Arbor, MI (800) 521-1520	15400 Gas Pressure Device

[1] Any device that meets the specifications listed in Section 4.2.1 of the method is suitable.

[2] This device uses a 110 mm filter.

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Table 4. Suitable Filter Holders[1]

Company	Location	Model/ Catalogue No.	Size
Nucleopore Corporation	Pleasanton, CA (800) 882-7711	425910 410400	142 mm 47 mm
Micro Filtration Systems	Dublin, CA (800) 334-7132 828-6010	302400 311400	142 mm 47 mm (415)
Millipore Corporation	Bedford, MA (800) 225-3384	YT30142HW XX1004700	142 mm 47 mm

[1] Any device capable of separating the liquid from the solid phase of the waste is suitable, providing that it is chemically compatible with the waste and the constituents to be analyzed. Plastic devices (not listed above) may be used when only inorganic analytes are of concern. The 142 mm size filter holder is recommended.

Table 5. Suitable Filter Media[1]

Company	Location	Model	Pore Size (µm)
Millipore Corporation	Bedford, MA (800) 225-3384	AP40	0.7
Nucleopore Corporation	Pleasanton, CA (415) 463-2530	211625	0.7
Whatman Laboratory Products, Inc.	Clifton, NJ (201) 773-5800	GFF	0.7
Micro Filtration Systems	Dublin, CA (800) 334-7132 (415) 828-6010	GF75	0.7
Gelman Science	Ann Arbor, MI (800) 521-1520	66256 (90mm) 66257 (142mm)	0.7

[1] Any filter that meets the specifications in Section 4.4 of the Method is suitable.

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Table 6. Multi-Laboratory TCLP Metals, Precision

Waste	Extraction Fluid	Metal	X	S	%RSD
Ammonia Li me Sti ll Bottoms	#1	Cadmium	0.053	0.031	60
	#2		0. 023	0. 017	76
	#1	Chromium	0.015	0.0014	93
	#2		0.0032	0.0037	118
	#1	Lead	0.0030	0.0027	90
	#2		0.0032	0.0028	87
API/EW Mixture	#1	Cadmium	0.0046	0.0028	61
	#2		0.0005	0.0004	77
	#1	Chromium	0.0561	0.0227	40
	#2		0.105	0.018	17
	#1	Lead	0.0031	0.0031	100
	#2		0.0124	0.0136	110
Fossil Fuel Fly Ash	#1	Cadmium	0.080	0.069	86
	#2		0.093	0.067	72
	#1	Chromium	0.017	0.014	85
	#2		0.070	0.040	57
	#1	Lead	0.0087	0.0074	85
	#2		0.0457	0.0083	18
				%RSD Range = 17 - 118 Mean %RSD = 74	

NOTE: X = Mean results from 6 - 12 different laboratories
Units = mg/L
Extraction Fluid #1 = pH 4.9 #2
= pH 2.9

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See EHSO for guidance and resources that is free and easy to find

Table 7. Single-Laboratory Semi-Volatiles, Precision

Waste	Compound	Extraction Fluid	X	S	%RSD
Ammonia Li me Sti ll Bottoms	Phenol	#1	19000	2230	11.6
		#2	19400	929	4. 8
	2-Methylphenol	#1	2000	297	14.9
		#2	1860	52.9	2.8
	4-Methylphenol	#1	7940	1380	17.4
		#2	7490	200	2.7
	2,4-Dimethylphenol	#1	321	46.8	14.6
		#2	307	45.8	14.9
	Naphthalene	#1	3920	413	10.5
		#2	3827	176	4.6
	2-Methylnaphthalene	#1	290	44.8	15.5
		#2	273	19.3	7.1
	Dibenzofuran	#1	187	22.7	12.1
		#2	187	7.2	3.9
	Acenaphthylene	#1	703	89.2	12.7
		#2	663	20.1	3.0
	Fluorene	#1	151	17.6	11.7
		#2	156	2.1	1.3
	Phenanthrene	#1	241	22.7	9.4
		#2	243	7.9	3.3
	Anthracene	#1	33.2	6.19	18.6
		#2	34.6	1.55	4.5
	Fluoranthrene	#1	25.3	1.8	7.1
		#2	26.0	1.8	7.1
API/EW Mixture	Phenol	#1	40.7	13.5	33.0
		#2	19.0	1.76	9.3
	2,4-Dimethylphenol	#1	33.0	9.35	28.3
		#2	43.3	8.61	19.9
	Naphthalene	#1	185	29.4	15.8
		#2	165	24.8	15.0
	2-Methylnaphthalene	#1	265	61.2	23.1
		#2	200	18.9	9.5
				%RSD Range = 1 - 33 Mean %RSD = 12	

NOTE: Units = µg/L
Extractions were performed in triplicate
All results were at least 2x the detection limit
Extraction Fluid #1 = pH 4.9
#2 = pH 2.9

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See EHSO for guidance and resources that is free and easy to find

Table 8. Multi-Laboratory Semi-Volatiles, Precision

Waste	Compound	Extraction Fluid	X	S	%RSD
Ammonia Lime	BNAs	#1	10043	7680	76.5
Still Bottoms (A)		#2	10376	6552	63.1
API/EW	BNAs	#1	1624	675	41.6
Mixture (B)		#2	2074	1463	70.5
Fossil Fuel	BNAs	#1	750	175	23.4
Fly Ash (C)		#2	739	342	46.3
				Mean %RSD = 54	

NOTE: Units = µg/L
X = Mean results from 3 - 10 labs
Extraction Fluid #1 = pH 4.9
#2 = pH 2.9

%RSD Range for Individual Compounds

A, #1	0 - 113
A , #2	28 - 108
B , #1	20 - 156
B , #2	49 - 128
C , #1	36 - 143
C , #2	61 - 164

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Table 9. Multi-Laboratory (11 Labs) VOCs, Precision

Waste	Compound	X	S	%RSD
Mine Tailings	Vinyl chloride	6.36	6.36	100
	Methylene chloride	12.1	11.8	98
	Carbon disulfide	5.57	2.83	51
	1,1-Dichloroethene	21.9	27.7	127
	1,1-Dichloroethane	31.4	25.4	81
	Chloroform	46.6	29.2	63
	1,2-Dichloroethane	47.8	33.6	70
	2-Butanone	43.5	36.9	85
	1,1,1-Trichloroethane	20.9	20.9	100
	Carbon tetrachloride	12.0	8.2	68
	Trichloroethene	24.7	21.2	86
	1,1,2-Trichloroethene	19.6	10.9	56
	Benzene	37.9	28.7	76
	1,1,2,2-Tetrachloroethane	34.9	25.6	73
	Toluene	29.3	11.2	38
	Chlorobenzene	35.6	19.3	54
	Ethylbenzene	4.27	2.80	66
	Trichlorofluoromethane	3.82	4.40	115
	Acrylonitrile	76.7	110.8	144
Ammonia Lime Still Bottoms	Vinyl chloride	5.00	4.71	94
	Methylene chloride	14.3	13.1	92
	Carbon disulfide	3.37	2.07	61
	1,1-Dichloroethene	52.1	38.8	75
	1,1-Dichloroethane	52.8	25.6	49
	Chloroform	64.7	28.4	44
	1,2-Dichloroethane	43.1	31.5	73
	2-Butanone	59.0	39.6	67
	1,1,1-Trichloroethane	53.6	40.9	76
	Carbon tetrachloride	7.10	6.1	86
	Trichloroethene	57.3	34.2	60
	1,1,2-Trichloroethene	6.7	4.7	70
	Benzene	61.3	26.8	44
	1,1,2,2-Tetrachloroethane	3.16	2.1	66
	Toluene	69.0	18.5	27
	Chlorobenzene	71.8	12.0	17
	Ethylbenzene	3.70	2.2	58
	Trichlorofluoromethane	4.05	4.8	119
	Acrylonitrile	29.4	34.8	118
			%RSD Range = 17 - 144 Mean %RSD = 75	

NOTE: Units = µg/L

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See EHSO for guidance and resources that is free and easy to find

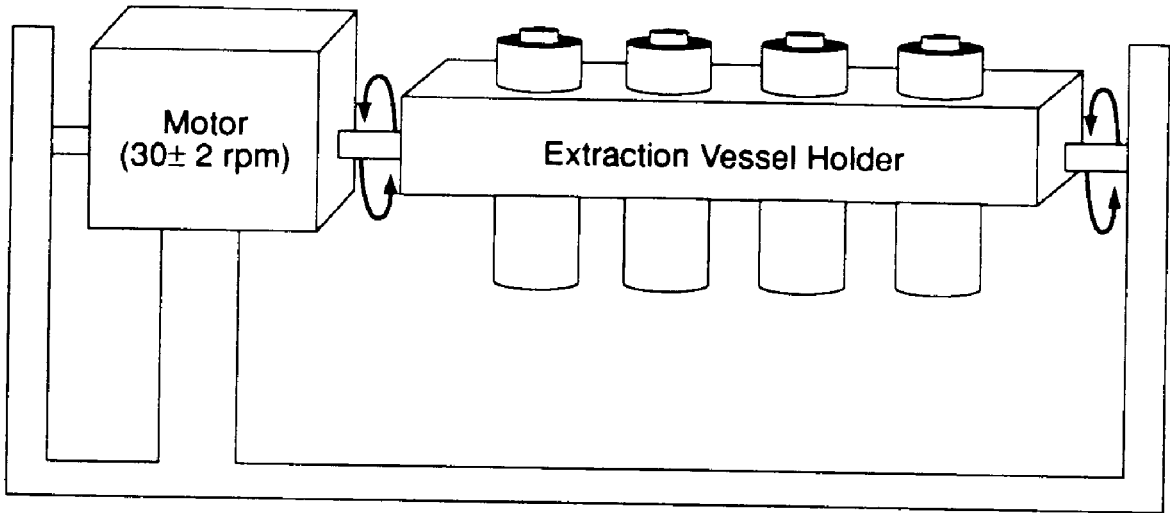

Figure 1. Rotary Agitation Apparatus

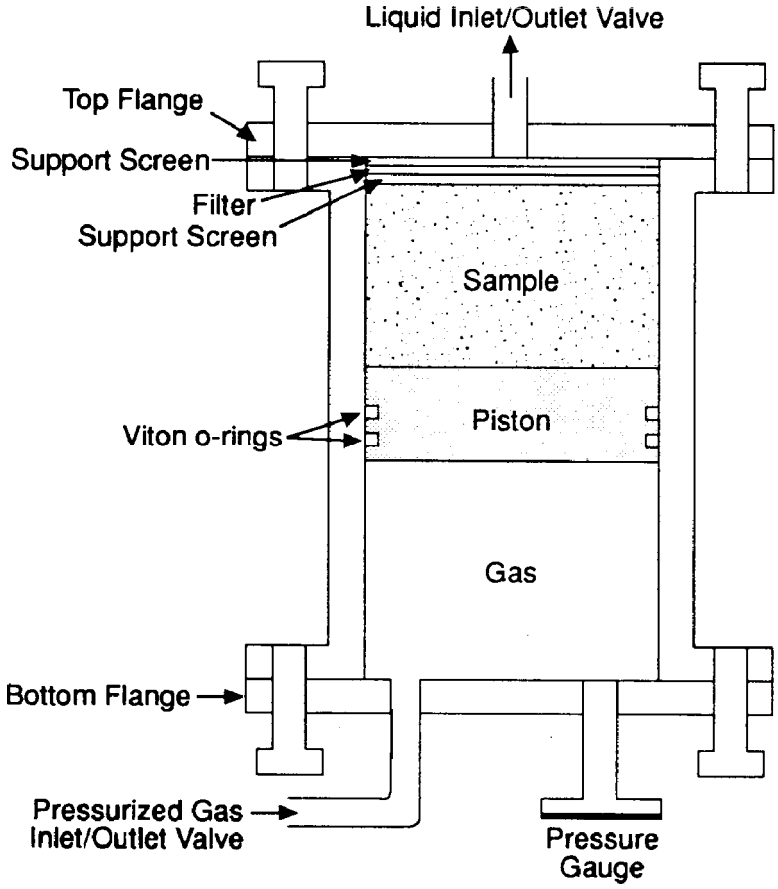

Figure 2. Zero-Headspace Extractor (ZHE)

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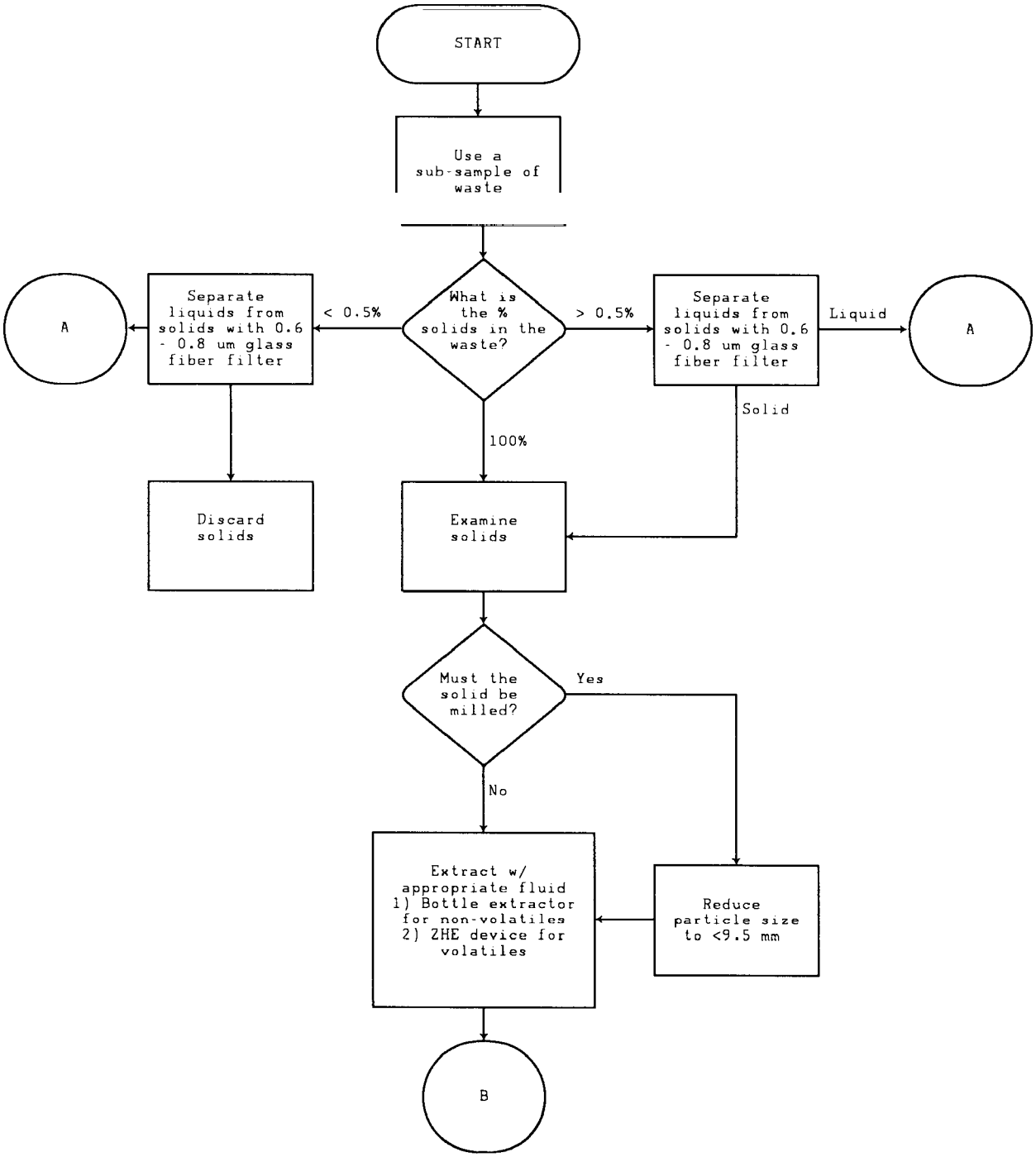
See EHSO for guidance and resources that is free and easy to find

METHOD 1311 - TOXICITY CHARACTERISTIC LEACHATE PROCEDURE



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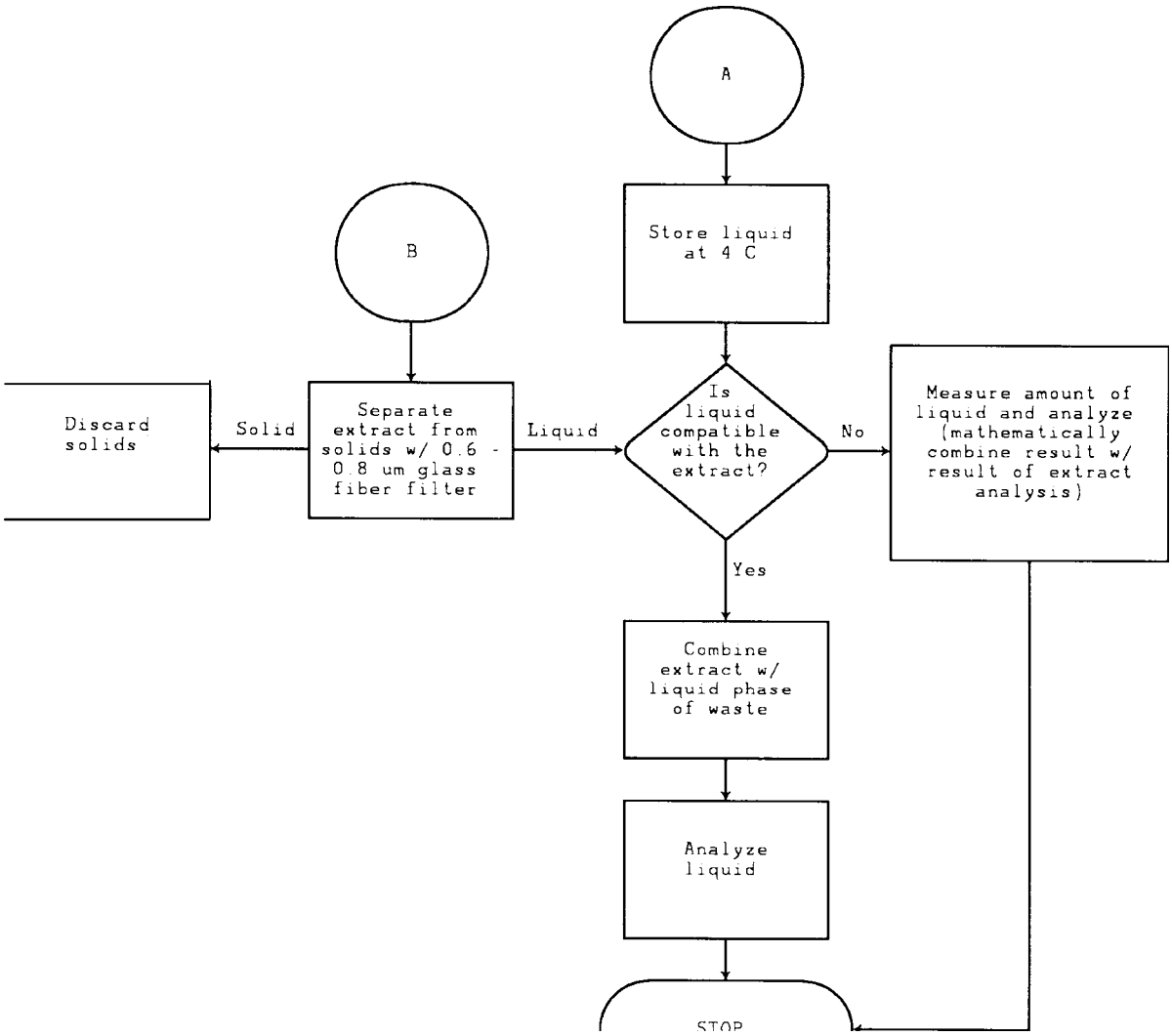
See EHSO for guidance and resources that is free and easy to find

METHOD 1311 (CONTINUED)
TOXICITY CHARACTERISTIC LEACHATE PROCEDURE



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See EHSO for guidance and resources that is free and easy to find

Appendix G

Abstract, Environmental Liens and NYC Data

White Memorial Chapels
882 Fulton Street
Brooklyn, NY 11238

Inquiry Number: 3736798.6
September 23, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	-	X	X	-
2007	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	-	X	X	-
2000	Cole Information Services	-	X	X	-
1997	NYNEX	-	X	X	-
1992	NYNEX Informantion Resource Co.	-	X	X	-
1985	NYNEX Information Resources Company	-	X	X	-
1980	New York Telephone	-	X	X	-
1976	New York Telephone	X	X	X	-
1973	New York Telephone	-	X	X	-
1970	New York Telephone	X	X	X	-
1965	New York Telephone	X	X	X	-
1960	New York Telephone	X	X	X	-
	New York Telephone Company	X	X	X	-
1949	New York Telephone	X	X	X	-
1945	New York Telephone	X	X	X	-
1940	New York Telephone	X	X	X	-
1934	R. L. Polk & Co.	X	X	X	-
1928	New York Telephone	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

882 Fulton Street
Brooklyn, NY 11238

FINDINGS DETAIL

Target Property research detail.

FULTON

882 FULTON

Year	Uses	Source
1976	KEYCO AUTOMTV WAREHSE	New York Telephone
1960	IATRIDIS M RESTRNT	New York Telephone
	Iatridis M restrnt	New York Telephone Company
1949	Iatridis M restrnt	New York Telephone
1945	Iatridis M restrnt	New York Telephone
1940	Iatridis M restrnt	New York Telephone
1934	KORIS JAS REST	R. L. Polk & Co.
1928	TSAGARIS ANGELO RESTRNT	New York Telephone

FULTON st

882 FULTON st

Year	Uses	Source
1970	Lindys Restrnt	New York Telephone

FULTON St

882 FULTON St

Year	Uses	Source
1965	Lindys Restrnt	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CALITON AVE

487 CALITON AVE

Year	Uses	Source
1934	WILLIAMS EDW LAB H	R. L. Polk & Co.

CINTON AVE

487 CINTON AVE

Year	Uses	Source
1985	GREEN S	NYNEX Information Resources Company

493 CINTON AVE

Year	Uses	Source
1985	KONG K HUGH	NYNEX Information Resources Company
1928	BIGGS EDITH E MISS R	New York Telephone

498 CINTON AVE

Year	Uses	Source
1976	PATTERSON ARTIE	New York Telephone

CLINTON

487 CLINTON

Year	Uses	Source
1992	FLOOD M R	NYNEX Informantion Resource Co.
1985	FLOOD M R	NYNEX Information Resources Company
1960	MEGNA LOUIS	New York Telephone
	Megna Louis	New York Telephone Company
1949	Megna Louis	New York Telephone
1945	Megna Louis	New York Telephone
1934	MCGRODDY HENRY J H	R. L. Polk & Co.
	MCGRODDY PHILIP R	R. L. Polk & Co.
	MCGRODDY SARAH E TCHR PS 27 R	R. L. Polk & Co.

FINDINGS

488 CLINTON

Year	Uses	Source
1992	MASKOW J	NYNEX Informantion Resource Co.
	ROSENBLATT BEN	NYNEX Informantion Resource Co.
	ROSS BEN	NYNEX Informantion Resource Co.
1985	SCHAFFER SCOTT	NYNEX Information Resources Company
	ROSENBLATT BEN	NYNEX Information Resources Company
	ROSS BEN	NYNEX Information Resources Company
1980	ROSENBLATT BEN	New York Telephone
1976	HECHTLINGER IRA	New York Telephone
	ROSENBLATT BEN	New York Telephone
	ROSS BEN	New York Telephone

489 CLINTON

Year	Uses	Source
1997	KEENEN E	NYNEX
1992	MARSH SUSAN	NYNEX Informantion Resource Co.
	KEENEN E	NYNEX Informantion Resource Co.
1985	KEENEN E	NYNEX Information Resources Company
	CAPUTO E R	NYNEX Information Resources Company
1976	SULFARO MARGARET	New York Telephone
	OLIVEIRA E	New York Telephone
	HURDA G	New York Telephone
	DELYNCH MARIA TERESA	New York Telephone
1960	SULFARO MARGARET	New York Telephone
	DE MONTE PETER	New York Telephone
	De Monte Peter	New York Telephone Company
	Sulfaro Margaret	New York Telephone Company
1934	O TOOLE PETER LAB H	R. L. Polk & Co.
	O TOOLE ELLEN R	R. L. Polk & Co.
	O TOOLE EDW INSPR R	R. L. Polk & Co.

490 CLINTON

Year	Uses	Source
1992	CARBY BISHAM	NYNEX Informantion Resource Co.
1976	GILBERTSON E W	New York Telephone
	MC CARTHY MICHL	New York Telephone

FINDINGS

491 CLINTON

Year	Uses	Source
1992	SANTISI FRANK A	NYNEX Informantion Resource Co.
1985	SANTISI FRANK A	NYNEX Information Resources Company
1976	SANTISI FRANK A	New York Telephone
	FLIGNER WARREN	New York Telephone
1960	NEMIA NANCY A MRS	New York Telephone
	CATROPPO VINCENT	New York Telephone
	Nemia Nancy A Mrs	New York Telephone Company
	Catroppo Vincent	New York Telephone Company
1949	Catroppo Grace	New York Telephone
	De Costanzo Nicholas	New York Telephone

493 CLINTON

Year	Uses	Source
1992	HOWSON J E	NYNEX Informantion Resource Co.
	ARIDAS JAMES	NYNEX Informantion Resource Co.
1985	HOWSON J	NYNEX Information Resources Company
	ARIDAS JAMES	NYNEX Information Resources Company
1960	CIRILLO JOS M	New York Telephone
	Cirillo Jos M	New York Telephone Company
1934	JENSEN MARTIN G LAB H	R. L. Polk & Co.
	JOHNSON ROY W TESTER R	R. L. Polk & Co.
1928	JENSEN MARTIN G R	New York Telephone

494 CLINTON

Year	Uses	Source
1992	LAMICELA N	NYNEX Informantion Resource Co.
1985	RUBIN KEN & MITCHELL	NYNEX Information Resources Company
	RUBIN MITCHELL & KEN	NYNEX Information Resources Company
	LAMICELA N	NYNEX Information Resources Company
1976	RUSSEN PETER J	New York Telephone
	JANKOWSKI HENRY	New York Telephone
	FRISCIA VINCENT	New York Telephone
1934	GONZALEZ JOS R	R. L. Polk & Co.

495 CLINTON

Year	Uses	Source
1992	KAY P	NYNEX Informantion Resource Co.
1960	Thomsen Thorborg A Mrs	New York Telephone Company

FINDINGS

Year	Uses	Source
1960	THOMSEN THORBORG A MRS	New York Telephone
1945	Magnussen Jenny Mrs	New York Telephone
1934	HANSEN HOWARD CLK R	R. L. Polk & Co.
	MAGNUSSEN BOAT CAPT H	R. L. Polk & Co.
1928	MAGNUSSEN JOHN R	New York Telephone

496 CLINTON

Year	Uses	Source
1992	ESPOSITO GEORGE	NYNEX Informantion Resource Co.
1985	KELLY L	NYNEX Information Resources Company
	DUFFY S	NYNEX Information Resources Company

497 CLINTON

Year	Uses	Source
1992	CRONE L	NYNEX Informantion Resource Co.
	RUSSO SALVATORE S ATTY	NYNEX Informantion Resource Co.
1985	ESPERSETH W	NYNEX Information Resources Company
	RUSSO SALVATORE S	NYNEX Information Resources Company
	RUSSO SALVATORE S ATTY	NYNEX Information Resources Company
1960	Mangual Genara	New York Telephone Company
	Ortiz Angelo	New York Telephone Company
	ORTIZ ANGELO	New York Telephone
	MANGUAL GENARA	New York Telephone
1949	Corneto Gaetano T	New York Telephone
1934	MINEO HANNAH H	R. L. Polk & Co.
	H	R. L. Polk & Co.

498 CLINTON

Year	Uses	Source
1992	WOLF M	NYNEX Informantion Resource Co.
	SOLLER CART R	NYNEX Informantion Resource Co.
	MAC DONALD DYLAN	NYNEX Informantion Resource Co.
	HOWARD K	NYNEX Informantion Resource Co.
1985	WOLF M	NYNEX Information Resources Company
	SOLLER CARL R	NYNEX Information Resources Company
1976	NEU ROBT	New York Telephone
1934	HUNT KATIE MAID R	R. L. Polk & Co.

FINDINGS

499 CLINTON

Year	Uses	Source
1992	CLINE J	NYNEX Informantion Resource Co.
	GALLAGHER JOHN	NYNEX Informantion Resource Co.
	LEVINE RICHARD	NYNEX Informantion Resource Co.
	SHAUGHNESSY M	NYNEX Informantion Resource Co.
1985	MONGIELLO JAMIE	NYNEX Information Resources Company
	PERRAS P	NYNEX Information Resources Company
	SUSSMAN W	NYNEX Information Resources Company
1976	MALDONADO M	New York Telephone
	PARIAMA OCTOVIANUS	New York Telephone
1960	BELLO JOHN	New York Telephone
	MAGNUSSEN BILL	New York Telephone
	Bello John	New York Telephone Company
	Magnussen Bill	New York Telephone Company
1949	Fox Dorothy M	New York Telephone
1934	ROMEO MICHL DRIVER H	R. L. Polk & Co.
	ROMEO ALBERT CLK R	R. L. Polk & Co.
	MCCLABE CHAS CLK H	R. L. Polk & Co.
	MAHER MARY M FCTY INSPR R	R. L. Polk & Co.
	MAGNUSSEN OLIVIA MRS R	R. L. Polk & Co.
	BOYLE BELLA H	R. L. Polk & Co.
	ENGEL SAM LAB H	R. L. Polk & Co.
	ENGLBOTTOM SAM LAB H	R. L. Polk & Co.
1928	CORRES A M MISS R	New York Telephone

501 CLINTON

Year	Uses	Source
1992	LASTER J	NYNEX Informantion Resource Co.
1985	DOLDUS N	NYNEX Information Resources Company
	HIETT LYNNE	NYNEX Information Resources Company
1949	Sammarco V M	New York Telephone
	Bonica Eugene	New York Telephone
1934	ANDERSON EMMA H MRS CLK H	R. L. Polk & Co.
	ANDERSON LAUREL C RUNNER R	R. L. Polk & Co.
	MCKEE JOHN LAB H	R. L. Polk & Co.

503 CLINTON

Year	Uses	Source
1992	D AMICO E	NYNEX Informantion Resource Co.

FINDINGS

Year	Uses	Source
1992	DERY MARK	NYNEX Informantion Resource Co.
	MARCUS M S	NYNEX Informantion Resource Co.
	MIFFLIN MARGOT	NYNEX Informantion Resource Co.
1985	PINTABONA ROBERT	NYNEX Information Resources Company
	BITSBERGER TIMOTHY	NYNEX Information Resources Company
	COOK M REED	NYNEX Information Resources Company
	MCCOLL JOHN	NYNEX Information Resources Company
1960	Hughes Danl	New York Telephone Company
	CURRY PATK	New York Telephone
	HUGHES DANL	New York Telephone
	Curry Patk	New York Telephone Company
1949	Koch Theo	New York Telephone
1934	NELSON S DOCKWKR H	R. L. Polk & Co.

CLINTON AVE

484 CLINTON AVE

Year	Uses	Source
2005	Multi Unit Address	Hill-Donnelly Corporation
	Number1 C Dejesus Arianny	Hill-Donnelly Corporation
	Number4 Ah Diago Luz	Hill-Donnelly Corporation
	Number38 Farrell Katherlne v	Hill-Donnelly Corporation
	Number5 C h Lawrence S	Hill-Donnelly Corporation
	Naser Anis	Hill-Donnelly Corporation
	Number3 A Ogbahon Andrew	Hill-Donnelly Corporation
	Number1 A h Uddin Mohamed Mohln	Hill-Donnelly Corporation
	Number1 C h Valdez Kenia	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	E BENY-OSARENKHO	Cole Information Services
	3B LILLIE BISHOP	Cole Information Services
	5A CHRLES COMBS	Cole Information Services
	4B ROLANDO DEMBY	Cole Information Services
	LOVELY T EBIOTU	Cole Information Services
	5C S LAWRENCE	Cole Information Services
	ALI M MGALI	Cole Information Services
	4D YVETTE MORERA	Cole Information Services
	ANDREW OGBAHON	Cole Information Services
	COURAGE OGBOE	Cole Information Services
	1B GEORGE ROMERO	Cole Information Services

FINDINGS

Year	Uses	Source
2000	3D HARRIET SMITH	Cole Information Services
	MOHAMED M UDDIN	Cole Information Services
	2A JOSEPH YOUNG	Cole Information Services
1997	BISHOP Lillie	NYNEX
	COMBS Charles	NYNEX
	DEMBY Rolando	NYNEX
	LAWRENCE S	NYNEX
	LAWRENCE Sandra	NYNEX
	MORERA Yvette	NYNEX
	ROMERO George	NYNEX
	SMITH Harriet	NYNEX
	YOUNG Joseph	NYNEX
1992	COMBS CHARLES	NYNEX Informantion Resource Co.
	CRAIG LOCKSLEY	NYNEX Informantion Resource Co.
	DEMBY ROLANDO	NYNEX Informantion Resource Co.
	LAWRENCE S	NYNEX Informantion Resource Co.
	ROMERO ALGERINE	NYNEX Informantion Resource Co.
	YOUNG JOSEPH	NYNEX Informantion Resource Co.
1985	BISHOP L	NYNEX Information Resources Company
	BOWIE G	NYNEX Information Resources Company
	CHASE LEON	NYNEX Information Resources Company
	COMBS CHARLES	NYNEX Information Resources Company
	LAWRENCE S	NYNEX Information Resources Company
	SMITH H	NYNEX Information Resources Company
	WINT GLORIA	NYNEX Information Resources Company
	YOUNG JOSEPH	NYNEX Information Resources Company
	YOUNG STEPHANIE	NYNEX Information Resources Company
1980	MCGREGOR GLORLS	New York Telephone
	YOUNG JOSEPH	New York Telephone
	YOUNG S	New York Telephone
1976	ERCOCK H	New York Telephone
	JENKINS CHRISTOBEL	New York Telephone
	LAWRENCE S	New York Telephone
	MOORE NATHAN	New York Telephone
	MORRIS R	New York Telephone
1973	Young Joseph	New York Telephone
1965	Alvarado Nelida	New York Telephone
	Davis Peggy	New York Telephone

FINDINGS

Year	Uses	Source
1965	De Jesus Damaso	New York Telephone
	Escobar Jose M	New York Telephone
	Finan Thos J	New York Telephone
	Meadows H	New York Telephone
	Rivera E	New York Telephone
	Rosario Pedro	New York Telephone
1960	LOPEZ ALADINO	New York Telephone
	MCNAMARA JAS J	New York Telephone
	ORTEGA VICTOR	New York Telephone
	RIVERA ADRIANO	New York Telephone
	RIVERA AMELIA MRS	New York Telephone
	RIVERA SANTIAGO	New York Telephone
	Davis Peggy	New York Telephone Company
	Dugan Margaretta E Mrs	New York Telephone Company
	Finan Thoa J	New York Telephone Company
	Lopez Aladino	New York Telephone Company
	Mc Namara Jas J	New York Telephone Company
	Ortega Victor	New York Telephone Company
	Rivera Adriano	New York Telephone Company
	Rivera Amelia Mrs	New York Telephone Company
	Rivera Santiago	New York Telephone Company
	DAVIS PEGGY	New York Telephone
	DUGAN MARGARETTA E MRS	New York Telephone
	FINAN THOA J	New York Telephone
1949	Arbuckle Leo J	New York Telephone
	Arbuckle Thos J	New York Telephone
	Dugan Margaretta E Mrs	New York Telephone
	Johansson I	New York Telephone
	Mc Dermott Peter J	New York Telephone
	Nichols Rosemary D	New York Telephone
1945	Dugan Margaretta E Mrs	New York Telephone
	Rieche Ernest	New York Telephone
	Sparrow Harold L	New York Telephone
	Walter Gustave C	New York Telephone
1940	Sparrow Harold L	New York Telephone
	Walter Gustave C	New York Telephone
1934	ANNESS HENRIETTA G H	R. L. Polk & Co.
	BARTOW ADA L HLPR H	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1934	BARTOW SARAH TCHR R	R. L. Polk & Co.
	CARLSON JOS J FIREMN R	R. L. Polk & Co.
	CLARK ROBT G ENG H	R. L. Polk & Co.
	COLLINS MARGT H	R. L. Polk & Co.
	FERRIEN FLORENCE G STEN H	R. L. Polk & Co.
	GREENE RODERICK E R	R. L. Polk & Co.
	GRIMM CLARA N	R. L. Polk & Co.
	MCCHESNEY RICHD H R	R. L. Polk & Co.
	NYBERG SELMA H	R. L. Polk & Co.
	ROBIOLLE GRACE SEC E A LABORATORIES INC H	R. L. Polk & Co.
	ROBIOLLE JOHN E SLSMN H	R. L. Polk & Co.
	RUSS NELLIE CLK R	R. L. Polk & Co.
	SCHMIDT ANNA R	R. L. Polk & Co.
	SCUDDER SARA A BACTERLOLOGIST CITY HOSP R	R. L. Polk & Co.
	SHEAR JEANETTE CREDIT MGR R	R. L. Polk & Co.
	SHEAR LE ROY CLK R	R. L. Polk & Co.
	SHEAR OLGA H	R. L. Polk & Co.
	SHEAR SYLVIA R	R. L. Polk & Co.
	SPARROW HAROLD L INS AGT H	R. L. Polk & Co.
	SUGGRUE EDW J CLK H	R. L. Polk & Co.
	SWEET FLORENCE B H	R. L. Polk & Co.
	SWEET FLORENCE R	R. L. Polk & Co.
	SWEET LUCINDA S H	R. L. Polk & Co.
	TOLENTINO EUFRONIO V H	R. L. Polk & Co.
	WALTER GUSTAVE C H	R. L. Polk & Co.
1928	ANNESS NORMA V MISS R	New York Telephone
	BARTOW ADA L R	New York Telephone
	BROWNELL F F R	New York Telephone
	CATHERINA MRS R	New York Telephone
	CLARK ROBT G R	New York Telephone
	DEGNAN JAS L R	New York Telephone
	FERRIER F G	New York Telephone
	GEIJER HUGH R	New York Telephone
	MILLER EDW T R	New York Telephone
	RAYNOR GEO A R	New York Telephone
	ROBIOLE JOHN R	New York Telephone
	SWEET SAML S MRS R	New York Telephone

FINDINGS

Year	Uses	Source
1928	THOMAS WM J R	New York Telephone
	WHELAN FANNIE C MISS R	New York Telephone
	WHITE JAS B R	New York Telephone

484A CLINTON AVE

Year	Uses	Source
1992	J & D VARIETY STORE	NYNEX Informantion Resource Co.

487 CLINTON AVE

Year	Uses	Source
2007	INTERFAITH REALTY	Cole Information Services
	ANDINSON CO	Cole Information Services
2005	Multi Unit Address	Hill-Donnelly Corporation
	Number1D Cdolpitts John	Hill-Donnelly Corporation
	Number28 U Humphrey 3 G	Hill-Donnelly Corporation
	I M Realty	Hill-Donnelly Corporation
	Interfaith Realty	Hill-Donnelly Corporation
	Number5D Mcginty Erika v	Hill-Donnelly Corporation
	h Scott Lydia	Hill-Donnelly Corporation
	Number4D h Thompson Dennis	Hill-Donnelly Corporation
	Number5 C h Twist M	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	JOSEPH CARSON	Cole Information Services
	3C CARL CARTER	Cole Information Services
	B COOPER	Cole Information Services
	2A DAMELLA DAVIS	Cole Information Services
	2B SHELBY DAVIS	Cole Information Services
	R HENRY	Cole Information Services
	K JEAN-FRANCOIS	Cole Information Services
	3C LYDIA SCOTT	Cole Information Services
	3D EMORY SMITH	Cole Information Services
	4D DENNIS THOMPSON	Cole Information Services
	5C M TWIST	Cole Information Services
	JOSHUA WILSON JR	Cole Information Services
1997	ALLEN David	NYNEX
	ALONSO W	NYNEX
	CARSON Joseph	NYNEX
	Carter Carl	NYNEX
	CEPHAS R	NYNEX

FINDINGS

Year	Uses	Source
1997	COOPER B	NYNEX
	DAVIS Darnella	NYNEX
	EDWARDS Andrea	NYNEX
	MACKEY Jessie	NYNEX
	SCOTT Lydia	NYNEX
	THOMPSON Dennis	NYNEX
	WILLIAMS S J	NYNEX
1992	COOPER B	NYNEX Informantion Resource Co.
	EDWARDS ANDREA	NYNEX Informantion Resource Co.
	GREEN S	NYNEX Informantion Resource Co.
	MALOY JAMES	NYNEX Informantion Resource Co.
	MCKOY HECTON	NYNEX Informantion Resource Co.
	PEREZ V	NYNEX Informantion Resource Co.
	PIERRE NORBERT	NYNEX Informantion Resource Co.
	REED STERLING	NYNEX Informantion Resource Co.
	ROBERTS B M	NYNEX Informantion Resource Co.
1985	JENKINS DONALD	NYNEX Information Resources Company
	KNOTT DORIS E MRS	NYNEX Information Resources Company
	LOWE HELEN	NYNEX Information Resources Company
	TEMPLE OF DIVINE GUIDANCE	NYNEX Information Resources Company
1980	KNOTT JOHN	New York Telephone
	WATKINS ALBERT	New York Telephone
1976	WILLIAMS MAYLANE	New York Telephone
1973	Bell Eunice	New York Telephone
	Cooper Geraldine	New York Telephone
	Poole Wyoma	New York Telephone
	Williams Maylene	New York Telephone
1970	Bynum Walter Jr	New York Telephone
1965	Jones Jola	New York Telephone
1960	Bennett W	New York Telephone Company
	Four Eighty Seven Clinton Av Corp	New York Telephone Company
	Smith John D	New York Telephone Company
	West John	New York Telephone Company
	BENNETT W	New York Telephone
	FOUR EIGHTY SEVEN CLINTON AV CORP	New York Telephone
	SMITH JOHN D	New York Telephone
	WEST JOHN	New York Telephone
1949	St John Sterling	New York Telephone

FINDINGS

Year	Uses	Source
1945	Lagerquist Erik	New York Telephone
	Merkley W A Dr ostopth	New York Telephone
	Smith Anna K Miss	New York Telephone
	Williamson Margurite M Miss	New York Telephone
1934	BRUMLEV WM S H	R. L. Polk & Co.
	LAGERQUIST ERIK S SUPT H	R. L. Polk & Co.
	MARLER DAISY C TCHR PS 11 R	R. L. Polk & Co.
	MARLER EMMA H	R. L. Polk & Co.
	MERKLEY WALTER MRS BD OF MGRS FAITH HOME R	R. L. Polk & Co.
	WEST R	R. L. Polk & Co.
	WILLIAMSON MARGUERITE M LIBRARIAN BKN PUB LIBRARY R	R. L. Polk & Co.
1928	BRUMLEY WM S R	New York Telephone
	LAGERQUIST ERIK R	New York Telephone
	MARLER DAISY C MISS R	New York Telephone
	MERKLEY W A DR	New York Telephone
	WILLIAMSON MARGUERITE M MISS R	New York Telephone

488 CLINTON AVE

Year	Uses	Source
1934	MCLARNEY ELLA J MRS H	R. L. Polk & Co.

492 CLINTON AVE

Year	Uses	Source
1980	SCHIERHOLZ PEG	New York Telephone

493 CLINTON AVE

Year	Uses	Source
2012	EZO CONTRACTING	Cole Information Services
2005	h Crosby Joyce L	Hill-Donnelly Corporation
	h Parish Ray	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	1A JOHN FINLEY	Cole Information Services
	DORA HERBERT	Cole Information Services
	CHARLOTTE RIVERA	Cole Information Services
	FREDERICK SHELTON	Cole Information Services
	NORMAN SIMPSON	Cole Information Services
1997	Finley John	NYNEX
	HERBERT Dora	NYNEX

FINDINGS

Year	Uses	Source
1997	SIMPSON Norman	NYNEX
	Banks Edw DDS ofc	NYNEX
1992	BANKS EDW DDS OFC	NYNEX Informantion Resource Co.
	BARNARD ROBINSON DONNA	NYNEX Informantion Resource Co.
	BARNES WINSTON A JR	NYNEX Informantion Resource Co.
	CROSBY MARIAN	NYNEX Informantion Resource Co.
	JEAN-BAPTISTE RAYMONDE	NYNEX Informantion Resource Co.
	RAMLAL CHERRY ANN	NYNEX Informantion Resource Co.
	TEMPLE OF DIVINE GUIDANCE	NYNEX Informantion Resource Co.
1985	BANKS EDW DDS OFC	NYNEX Information Resources Company
	BOSTICK A	NYNEX Information Resources Company
	MALONEY DARRELL	NYNEX Information Resources Company
	MONGRU N	NYNEX Information Resources Company
1976	BELGRAVE J	New York Telephone
	BOSTICK A	New York Telephone
	BROWN FLORENCE E	New York Telephone
	THOMPSON ILEANE	New York Telephone
1970	Esders Bernhard	New York Telephone
	Schooley R	New York Telephone
1965	Bolton Ramona S	New York Telephone
	Rosenberg David	New York Telephone
	Stenerwald G E	New York Telephone
1960	ROSENBERG DAVID	New York Telephone
	STEUERWALD G E	New York Telephone
	Rosenberg David	New York Telephone Company
	Steuerwald G E	New York Telephone Company
1949	Steuerwald G E	New York Telephone
1945	Steuerwald G E	New York Telephone
1934	ERICKSON ETHEL G R	R. L. Polk & Co.
	GOURLEY MARY WAITRESS R	R. L. Polk & Co.
	GRAHAM AGNES W MRS TEL OPR R	R. L. Polk & Co.
	JOHNSON JOHN SLSMN H	R. L. Polk & Co.
	PETERIN FRANK DRIVER R	R. L. Polk & Co.
	SAWYER RALPH W DENTIST	R. L. Polk & Co.
1928	CARR MARGARET M MRS R	New York Telephone
	GABRIEL VERNA V MISS R	New York Telephone
	SITES ADA M MRS R	New York Telephone

FINDINGS

494 CLINTON AVE

Year	Uses	Source
2000	J HINRICHSEN	Cole Information Services
1949	Morrison A Cressy	New York Telephone

495 CLINTON AVE

Year	Uses	Source
2005	Thomson Thorborg	Hill-Donnelly Corporation

496 CLINTON AVE

Year	Uses	Source
2007	SHARONS DANCE THEATRE	Cole Information Services
2005	Ingling Allen	Hill-Donnelly Corporation
2000	ELIZABETH STEINER	Cole Information Services
	TIMOTHY SHORTER	Cole Information Services
	V BINDER	Cole Information Services
	A KLLC	Cole Information Services
1997	RICHARDS Raymond	NYNEX
1992	NDIAYE ALIOU	NYNEX Informantion Resource Co.
	BERDECIA IRMA	NYNEX Informantion Resource Co.
1985	MILLS ALMA	NYNEX Information Resources Company
1965	Shaw Thelma	New York Telephone
1949	Heim Harry	New York Telephone
	Berkowitz Philip B	New York Telephone
1934	MENDENHALL FRED T SLSMN H	R. L. Polk & Co.
	GALLAGHER JAS H R	R. L. Polk & Co.
	COYLE HELEN M TEL OPR R	R. L. Polk & Co.
	ANDERSON JOHN V TRANSP DEPT H	R. L. Polk & Co.
1928	SEMKEN HENRY C R	New York Telephone
	NO-SMUT RIBBON & CARBON CO	New York Telephone
	C P	New York Telephone

498 CLINTON AVE

Year	Uses	Source
2007	AKM GENERAL CONSTRUCTION CO	Cole Information Services
2005	Khondoker Abdul	Hill-Donnelly Corporation
	Khonduker Abdul	Hill-Donnelly Corporation
	h Lowe Ethel	Hill-Donnelly Corporation
	Murrell Cheryl	Hill-Donnelly Corporation
	h Alston H	Hill-Donnelly Corporation

FINDINGS

Year	Uses	Source
2005	h Deal Cynthia	Hill-Donnelly Corporation
	Gray Samantha	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	2F CYNTHIA DEAL	Cole Information Services
	4F C DIAS	Cole Information Services
	C FREEMAN	Cole Information Services
	ALMENIS GRIFFIN	Cole Information Services
	1F ETHEL LOWE	Cole Information Services
	K RODIES	Cole Information Services
1997	DIAS C	NYNEX
	GRIFFIN Almenis	NYNEX
	LOWE Ethel	NYNEX
1992	GRIFFIN ALMENIS	NYNEX Informantion Resource Co.
	LOWE LARRY	NYNEX Informantion Resource Co.
1985	ALSTON HENRIETTA	NYNEX Information Resources Company
	GRIFFIN ALMENIS	NYNEX Information Resources Company
1976	MCINTOSH J G	New York Telephone
	STAFFORD ERNEST	New York Telephone
1973	Davis Gerald R	New York Telephone
	Harding O	New York Telephone
	Patterson Artie	New York Telephone
	Ross A	New York Telephone
1970	Sherry Bernard	New York Telephone
	Smith N R	New York Telephone
1965	Patterson Artie	New York Telephone
	Sherry Bernard	New York Telephone
1949	Bunn Viola	New York Telephone
	Burroughs Andrew	New York Telephone
1945	Boyd Carrie A	New York Telephone
	Burroughs Andrew	New York Telephone
1940	Boyd Carrie A	New York Telephone
1934	DEGRANT EDW R CLK R	R. L. Polk & Co.
	HARPER RICHD H	R. L. Polk & Co.
	HENDERSON AMOS CHAUF R	R. L. Polk & Co.
	HENDERSON FANNIE R	R. L. Polk & Co.
	LUNDAY CICERO LAB R	R. L. Polk & Co.
	MCKEOWN HARRY SLSMN R	R. L. Polk & Co.
	WELSH MARIAN H	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1928	BOYD CARRIE A R	New York Telephone
	FRENEY HELEN MRS R	New York Telephone
	WATFORD JOHN R	New York Telephone

500 CLINTON AVE

Year	Uses	Source
2007	HEIRS TO THE THRONE INC	Cole Information Services

501 CLINTON AVE

Year	Uses	Source
2005	Bodegas	Hill-Donnelly Corporation
	Enile Diane	Hill-Donnelly Corporation
	h King Richard	Hill-Donnelly Corporation
	King Thelma	Hill-Donnelly Corporation
	h Littfe Arilla	Hill-Donnelly Corporation
	Robinson Christopher w	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	2 KEVIN COLBY	Cole Information Services
	THELMA KING	Cole Information Services
1992	TAYLOR M	NYNEX Informantion Resource Co.
	TAYLOR M	NYNEX Informantion Resource Co.
	WILLIAMS IRIS	NYNEX Informantion Resource Co.
	WILLIAMS R	NYNEX Informantion Resource Co.
1985	BAGLEY C	NYNEX Information Resources Company
	LITTLE ANILA	NYNEX Information Resources Company
1973	Rogers T	New York Telephone
	Smith Harold	New York Telephone
	Walker William M	New York Telephone
1965	Callender Edw	New York Telephone
	Harvey Daisy Mrs	New York Telephone
	Reid Addie	New York Telephone
1934	CHAPLIN ANDREW LAB H	R. L. Polk & Co.
	COOK MARY R	R. L. Polk & Co.
	JOHNSON JOHN W H	R. L. Polk & Co.
	ALBERT OPR H	R. L. Polk & Co.
	REVANDA THOS R	R. L. Polk & Co.
1928	HAMLITON MABEL V MRS R	New York Telephone

FINDINGS

502 CLINTON AVE

Year	Uses	Source
2007	WOODS BOWMAN COMMUNICATIONS	Cole Information Services
	NU ANCE LLC	Cole Information Services

503 CLINTON AVE

Year	Uses	Source
2005	h Haynes Barbara	Hill-Donnelly Corporation
	Haynes Barbara	Hill-Donnelly Corporation
	Haynes Barbara	Hill-Donnelly Corporation
	h Lee J	Hill-Donnelly Corporation
2000	JILL BLACK	Cole Information Services
	JUDY DIR	Cole Information Services
	ROCHELLE HALPERN	Cole Information Services
	B HAYNES	Cole Information Services
	BARBARA HAYNES	Cole Information Services
	KIRSTEN JOHNSON	Cole Information Services
	J LEE	Cole Information Services
	MARI UMATANI	Cole Information Services
1997	ANDREWS Dorene	NYNEX
	CLAY C	NYNEX
	DI FARNECIO D	NYNEX
	HATCHETT David	NYNEX
	HAYNES B J	NYNEX
	HAYNES Barbara	NYNEX
	LEE J	NYNEX
	LEWIS Kimberly	NYNEX
	MCLEOD Spencer	NYNEX
1992	ANDREWS DORENE	NYNEX Informantion Resource Co.
	HAYNES B J	NYNEX Informantion Resource Co.
	JACKSON S	NYNEX Informantion Resource Co.
	LEE J	NYNEX Informantion Resource Co.
	MILLER RONALD	NYNEX Informantion Resource Co.
1985	CALDWELL ROSSLYN	NYNEX Information Resources Company
	HAYNES B J	NYNEX Information Resources Company
	HEWLETT THERESA	NYNEX Information Resources Company
	LUMPKIN K	NYNEX Information Resources Company
	LUMPKIN K	NYNEX Information Resources Company
	SAFRAN S	NYNEX Information Resources Company
1980	HARDING OSWALD	New York Telephone

FINDINGS

Year	Uses	Source
1980	JONES LLOYD J	New York Telephone
	KNIGHT SMITH T	New York Telephone
1976	FLETCHER CARL A	New York Telephone
	GRANT BENJ	New York Telephone
	KNIGHT SMITH T	New York Telephone
1965	Grant Benj	New York Telephone
	Knight Smith T	New York Telephone
	Mason Matthew	New York Telephone
1960	GRANT BENJ	New York Telephone
	KNIGHT SMITH T	New York Telephone
	MASON MATTHEW	New York Telephone
	Grant Benj	New York Telephone Company
	Knight Smith T	New York Telephone Company
	Mason Matthew	New York Telephone Company
1949	Blackston Howard A	New York Telephone
	Braan Mary J	New York Telephone
	Phillips Minnie Mrs	New York Telephone
1945	Phillips Minnie Mrs	New York Telephone
1934	AUSTIN BESSIE MAID R	R. L. Polk & Co.
	CARTER GRACE H	R. L. Polk & Co.
	CARTER HARRY JANITER R	R. L. Polk & Co.
	JENNINGS ELBERT M SEAMN R	R. L. Polk & Co.
	JENNINGS HOWARD A EMP R	R. L. Polk & Co.
	JENNINGS HUBERT A EMP R	R. L. Polk & Co.
	JENNINGS WM S SEAMN R	R. L. Polk & Co.
	LIDDIE FREDK CLK R	R. L. Polk & Co.
	LIDDIE GEO TAILOR H	R. L. Polk & Co.
	LIDDIE ISIDORE STUDENT R	R. L. Polk & Co.
	LOWE CONARD	R. L. Polk & Co.
	MONTAGUE RUFUS DISHWASHER R	R. L. Polk & Co.
	SMITH GERTRUDE R	R. L. Polk & Co.
	SPENCER LOUIS E LNDRY R	R. L. Polk & Co.
1928	DE GRASSE THOS J R	New York Telephone
	LIDDIE GEO R	New York Telephone
	MADURO SARAH MRS R	New York Telephone
	TITUS W R	New York Telephone

FINDINGS

FULTON

876 FULTON

Year	Uses	Source
1960	GRAVES WM C TLR	New York Telephone
	Graves Wm C tlr	New York Telephone Company
1949	Graves Wm C tlr	New York Telephone
1945	Graves Wm C tlr	New York Telephone
1928	GRAVES WM C TLR	New York Telephone

877 FULTON

Year	Uses	Source
1980	GOOD SERVICE EXTERMINATING CO	New York Telephone
1976	GOOD SERVICE EXTERMINATING CO	New York Telephone
1960	Accurate Exterminating Co Inc	New York Telephone Company
	Milinder C exterm svce	New York Telephone Company
	Good Svce Exterminating Co	New York Telephone Company
	Century Exterminating Co	New York Telephone Company
	ACCURATE EXTERMINATING CO INC	New York Telephone
	CENTURY EXTERMINATING CO	New York Telephone
	GOOD SVCE EXTERMINATING CO	New York Telephone
	MILINDER C EXTERM SVCE	New York Telephone
1949	Accurate Exterminating Co Inc	New York Telephone
	Century Exterminating Co	New York Telephone
	Milinder C exterm svce	New York Telephone
1945	Bauman Exterminating Co	New York Telephone
	Milinder C exterm svce	New York Telephone
1940	Milinder C exterm svce	New York Telephone

878 FULTON

Year	Uses	Source
1934	WOLCOTT RICHD B LAB H	R. L. Polk & Co.
	OXFORD TRIPOLL SALES CO INC ARTH H FERTING REP PRODUCERS MINERAL EARTH R7	R. L. Polk & Co.
	GRAVES WM C MERCHANT TAILOR	R. L. Polk & Co.
1928	MAYS SUSIE MISS HRDRSR	New York Telephone

879 FULTON

Year	Uses	Source
1976	DEJOHN JOSEPH B	New York Telephone

FINDINGS

880 FULTON

Year	Uses	Source
1985	ALL PRO LOCKSMITH & ALARM	NYNEX Information Resources Company
1934	LAZAR HERMAN CIGARS	R. L. Polk & Co.
1928	LAZAR H CGRS	New York Telephone

881 FULTON

Year	Uses	Source
1960	MOLLIE S BEAUTY SHOP	New York Telephone
	Mollies Beauty Shop	New York Telephone Company
1949	Martin R statnry	New York Telephone
1928	MOORE A CARPET CLEANING	New York Telephone

883 FULTON

Year	Uses	Source
1960	WILLIAMS W E PLUMBING & HEATING CO ING	New York Telephone Company
	Johnsons Food Prods	New York Telephone Company
	WILLIAMS WALTER E	New York Telephone
	WILLIAMS W E PLUMBING & HEATING CO ING	New York Telephone
	JOHNSON S FOOD PRODS	New York Telephone
	Williams Walter E	New York Telephone Company
1928	HENZELOFF MEYER HARDWARE & GLAZIER	New York Telephone

884 FULTON

Year	Uses	Source
1949	Berman Harold b	New York Telephone
1945	Condelles T & S restrnt	New York Telephone
1940	Condelles T & S restrnt	New York Telephone
1934	NICK LUNCH	R. L. Polk & Co.
	STILZ GOTTLOB	R. L. Polk & Co.

885 FULTON

Year	Uses	Source
1960	FULTON FLORIST	New York Telephone
1934	FULTON FLORIST	R. L. Polk & Co.
1928	FULTON FLORIST	New York Telephone

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886 FULTON

Year	Uses	Source
1985	RAMIREZ GROCERY STORE	NYNEX Information Resources Company
1976	HOLAWAIY JAS	New York Telephone
	CLUB	New York Telephone
1960	JENNINGS RADIC & TELEVISION REPRS	New York Telephone
	Jennings Radic & Television Reprs	New York Telephone Company
1949	Jennings Radio & Television Reprs	New York Telephone
	Pearson Lucy	New York Telephone
1934	HALLON GEO H	R. L. Polk & Co.
	MAYS BEAUTY SHOP	R. L. Polk & Co.
	R	R. L. Polk & Co.
1928	ISAACS CARLOS R	New York Telephone

887 FULTON

Year	Uses	Source
1985	WILKES M	NYNEX Information Resources Company
	MORAN KERMIT REALTY CO	NYNEX Information Resources Company
1980	SWEEPER WINES & LIQUOURS INC	New York Telephone
1976	SWEEPER WINES & LIQUORA INC	New York Telephone
	PHILLIPS BARBR SHOP	New York Telephone
	MORRIS WINES & LIQUORS INC	New York Telephone
	LNB ANTIQUES	New York Telephone
1960	FRAZIER FLORENCE MRS	New York Telephone
	KENTUCH WINEE & LIQUORS	New York Telephone
	MORRIS WINES & LIQUORS	New York Telephone
	Frazier Florence Mrs	New York Telephone Company
	Kentuch Winee & Liquors	New York Telephone Company
	Morris Wines & Liquors	New York Telephone Company
1949	Reuel Otto C mens wr	New York Telephone
	Morris Liquor Store	New York Telephone
1945	Reuel otto C mens wr	New York Telephone
	Frazier Florence Mrs	New York Telephone
1940	Frazier Florence Mrs	New York Telephone
1934	HAYDEN JAS JANITOR H	R. L. Polk & Co.
	REUEL OTTO C HABERDASHER	R. L. Polk & Co.
	DODSON RUTH R	R. L. Polk & Co.
	DODSON JULIUS H	R. L. Polk & Co.
	BEASLEY LILLIAN HIDRY R	R. L. Polk & Co.

Year	Uses	Source
1934	SMITH RAYMOND R	R. L. Polk & Co.
	WRIGHT FAV R	R. L. Polk & Co.
	UNITED CIGAR STORES COMPANY OF AMERICA	R. L. Polk & Co.
1928	MILLER FREDK H DDS OFF	New York Telephone
	REUEL O C HAHERDASHERY	New York Telephone
	UNITED CIGAR STORES CO	New York Telephone

888 FULTON

Year	Uses	Source
1960	SMITH HENRY	New York Telephone
	Smith Henry	New York Telephone Company
1949	Johnsons Food Prods	New York Telephone
1934	TAYLOR ABBIE H	R. L. Polk & Co.
	BARBER SHOP	R. L. Polk & Co.
	WILLIAMS SAML J	R. L. Polk & Co.
	KENNEDY LUCILE WAITRES H	R. L. Polk & Co.
1928	DARK EFFIE MRS HR DRSR	New York Telephone

FULTON ST

850 FULTON ST

Year	Uses	Source
2012	WEICHERT REALTORS HP GREENFIELD	Cole Information Services
2007	WIEHERT	Cole Information Services
	WEICHERT REALTORS HP GREENFIELD REAL	Cole Information Services
	H P GREENFIELD	Cole Information Services

852 FULTON ST

Year	Uses	Source
2012	HOLLAND CAFE	Cole Information Services

854 FULTON ST

Year	Uses	Source
2012	NAU ENEALIA ATTORNEY AT LAW	Cole Information Services
2007	ENEALIA NAU ATTORNEY AT LAW	Cole Information Services
	MONEY SOURCE	Cole Information Services

FINDINGS

856 FULTON ST

Year	Uses	Source
2012	IMPERIAL CLEANERS	Cole Information Services

858 FULTON ST

Year	Uses	Source
2012	CAPITALONE	Cole Information Services

860 FULTON ST

Year	Uses	Source
2012	AUTOUR DU MONDE	Cole Information Services

FULTON St

876 FULTON St

Year	Uses	Source
1965	Bobbys Candy Store	New York Telephone

FULTON ST

877 FULTON ST

Year	Uses	Source
1973	Good Service Exterminating Co	New York Telephone

FULTON st

877 FULTON st

Year	Uses	Source
1970	Milinder G exterm svce	New York Telephone
	Good Svce Exterminating Co	New York Telephone
	Century Exterminating Co	New York Telephone
	Century Extrmintg Co	New York Telephone
	Accurate Exterminating Co Inc	New York Telephone
	AAAA AB Exterminators	New York Telephone

FULTON St

877 FULTON St

Year	Uses	Source
1965	Good Svce Exterminating Co	New York Telephone
	AAAA AB Exterminators	New York Telephone
	Accurate Exterminating Co Inc	New York Telephone

FINDINGS

Year	Uses	Source
1965	Century Exterminating Co	New York Telephone
	Century Extrmintg Co	New York Telephone
	Milinder C exterm svce	New York Telephone

FULTON st

881 FULTON st

Year	Uses	Source
1973	Kathleen Beauty Salon	New York Telephone
1970	Jones Susie B	New York Telephone

FULTON St

881 FULTON St

Year	Uses	Source
1965	Kathleens Beauty Salon	New York Telephone

FULTON st

883 FULTON st

Year	Uses	Source
1970	Lomars Studios	New York Telephone

FULTON St

883 FULTON St

Year	Uses	Source
1965	Robinson Marion	New York Telephone

FULTON ST

884 FULTON ST

Year	Uses	Source
2005	Hair Players2000 s	Hill-Donnelly Corporation
2000	ZAHRAS	Cole Information Services
1997	Marcelles Salon	NYNEX
1973	Sunnys Intimate Club Dache	New York Telephone
	Club Dache	New York Telephone
1970	The Fabulous Last Word	New York Telephone

FINDINGS

885 FULTON ST

Year	Uses	Source
1970	Fulton Florist	New York Telephone
1965	Fulton Florist	New York Telephone
1960	Fulton Florist	New York Telephone Company
1949	Fulton Florist	New York Telephone
1945	Fulton Florist	New York Telephone
1940	Fulton Florist	New York Telephone

886 FULTON ST

Year	Uses	Source
2005	Johnson Neal	Hill-Donnelly Corporation
1997	CAMPBELL M	NYNEX

FULTON st

886 FULTON st

Year	Uses	Source
1973	Holaway Jas	New York Telephone
1970	Holaway Jas	New York Telephone
	Jennings Radio & Television Re Prs	New York Telephone

FULTON ST

887 FULTON ST

Year	Uses	Source
2005	Raoul African Intl Fashion	Hill-Donnelly Corporation
	Bkny Bar & Lounge	Hill-Donnelly Corporation
2000	WA CAR SVC CORP	Cole Information Services
	SUMYET	Cole Information Services
	RAIF ATELIER	Cole Information Services
	DENNISS GROC & DELI	Cole Information Services
	HOPE SULLIVAN	Cole Information Services
	BAD LANP INC	Cole Information Services
1997	Washington Car Service Corp	NYNEX
1973	Sweeper Wines & Liquors Inc	New York Telephone
	Phillips Barbr Shop	New York Telephone
	Morris Wines & Liquors Inc	New York Telephone

FINDINGS

FULTON st

887 FULTON st

Year	Uses	Source
1973	LNB Antiques	New York Telephone
1970	Morrls Wines & Liquors	New York Telephone
	Mon & Ell brbrs	New York Telephone
	LNB Antiques	New York Telephone
	Kentuch Wines & Liqiiors	New York Telephone

FULTON St

887 FULTON St

Year	Uses	Source
1965	Morris Wines & Liquors	New York Telephone
	LNB Antiques	New York Telephone
	Kentuch Wines & Liquors	New York Telephone

FULTON ST

887 FULTON ST

Year	Uses	Source
1945	Morris Liquor Store	New York Telephone
1940	Morris Liquor Store	New York Telephone

899 FULTON ST

Year	Uses	Source
2012	BAR OLIVINO	Cole Information Services
2007	CELL CONNECTION	Cole Information Services

901 FULTON ST

Year	Uses	Source
2007	FISH & CRUSTACEANS	Cole Information Services

903 FULTON ST

Year	Uses	Source
2012	LOPEZ & REYES FISH MARKET CORP	Cole Information Services
	BENYS DELICE LLC	Cole Information Services
2007	YOU NIQUES HAIR CARE & PRODUCTS	Cole Information Services

FINDINGS

905 FULTON ST

Year	Uses	Source
2012	OLIVINO	Cole Information Services

907 FULTON ST

Year	Uses	Source
2012	SOWERS CHRISTOPHER K	Cole Information Services
	AMERICAN DELI GROCERY	Cole Information Services
	LUKE NEIL ATTORNEY ATLAW	Cole Information Services

909 FULTON ST

Year	Uses	Source
2012	909 FULTON ST GROCERY & DELI CORP	Cole Information Services
2007	GROCERY MART	Cole Information Services

913 FULTON ST

Year	Uses	Source
2012	DETOYIN BEAUTY SUPPLY & VARIETY ST	Cole Information Services

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
882 Fulton Street	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1973

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
484 CLINTON AVE	2012, 2007, 1970
484A CLINTON AVE	2012, 2007, 2005, 2000, 1997, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
487 CALITON AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
487 CINTON AVE	2012, 2007, 2005, 2000, 1997, 1992, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
487 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1940, 1928
487 CLINTON AVE	2012, 2007, 1940
487 CLINTON AVE	2012, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
488 CLINTON	2012, 2007, 2005, 2000, 1997, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
488 CLINTON AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
489 CLINTON	2012, 2007, 2005, 2000, 1980, 1973, 1970, 1965, 1949, 1945, 1940, 1928
490 CLINTON	2012, 2007, 2005, 2000, 1997, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
491 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1945, 1940, 1934, 1928
492 CLINTON AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
493 CINTON AVE	2012, 2007, 2005, 2000, 1997, 1992, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
493 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940
493 CLINTON AVE	2012, 2007, 1980, 1973, 1940
493 CLINTON AVE	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
494 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
494 CLINTON AVE	2012, 2007, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1945, 1940, 1934, 1928
495 CLINTON	2012, 2007, 2005, 2000, 1997, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1940
495 CLINTON AVE	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
496 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
496 CLINTON AVE	2012, 2007, 1980, 1976, 1973, 1970, 1960, 1945, 1940
496 CLINTON AVE	2012, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
497 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1945, 1940, 1928
498 CINTON AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
498 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
498 CLINTON AVE	2012, 2007, 1980, 1960
498 CLINTON AVE	2012, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
499 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1945, 1940
500 CLINTON AVE	2012, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
501 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1960, 1945, 1940, 1928
501 CLINTON AVE	2012, 2007, 1997, 1980, 1976, 1970, 1960, 1949, 1945, 1940
502 CLINTON AVE	2012, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
503 CLINTON	2012, 2007, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1945, 1940, 1928
503 CLINTON AVE	2012, 2007, 1973, 1970, 1940
850 FULTON ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
852 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
854 FULTON ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
856 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
858 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
860 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
876 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1940, 1934
876 FULTON St	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1960, 1949, 1945, 1940, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
877 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1973, 1970, 1965, 1934, 1928
877 FULTON ST	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
877 FULTON St	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1960, 1949, 1945, 1940, 1934, 1928
877 FULTON st	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1965, 1960, 1949, 1945, 1940, 1934, 1928
878 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
879 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
880 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
881 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1945, 1940, 1934
881 FULTON St	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1960, 1949, 1945, 1940, 1934, 1928
881 FULTON st	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1940, 1934, 1928
883 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1934
883 FULTON St	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1960, 1949, 1945, 1940, 1934, 1928
883 FULTON st	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1965, 1960, 1949, 1945, 1940, 1934, 1928
884 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1928
884 FULTON ST	2012, 2007, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1940, 1934, 1928
885 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940
885 FULTON ST	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1934, 1928
886 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1980, 1973, 1970, 1965, 1945, 1940
886 FULTON ST	2012, 2007, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
886 FULTON st	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1940, 1934, 1928
887 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1973, 1970, 1965
887 FULTON ST	2012, 2007, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1934, 1928
887 FULTON St	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1960, 1949, 1945, 1940, 1934, 1928
887 FULTON st	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1940, 1934, 1928
888 FULTON	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1945, 1940
899 FULTON ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
901 FULTON ST	2012, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
903 FULTON ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
905 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
907 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
909 FULTON ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
913 FULTON ST	2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

882 FULTON STREET		**BROOKLYN 11238**		**BIN# 3839916**	
FULTON STREET	882 - 882	**Health Area**	: 2710	**Tax Block**	: 2011
		Census Tract	: 199	**Tax Lot**	: 30
		Community Board	: 302	**Condo**	: NO
				Vacant	: YES

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | Pre - BIS PA | View Certificates of Occupancy

Cross Street(s):	CLINTON AVENUE, WAVERLY AVENUE		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Little 'E' Restricted:	HAZMAT/NOISE	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		
Special District:	UNKNOWN		

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. Click here for more information

Department of Finance Building Classification: G6-GARAGE/GAS STAT'N

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	0	0
Violations-DOB	0	0
Violations-ECB (DOB)	0	0
Jobs/Filings	0	
ARA / LAA Jobs	0	
Total Jobs	0	
Actions	2	

OR Enter Action Type:

OR Select from List: Select...

AND Show Actions

- Elevator Records
- Electrical Applications
- Permits In-Process / Issued
- Illuminated Signs Annual Permits
- Plumbing Inspections
- Open Plumbing Jobs / Work Types
- Facades
- Marquee Annual Permits
- Boiler Records
- DEP Boiler Information
- Crane Information
- After Hours Variance Permits

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Actions

Premises: 882 FULTON STREET BROOKLYN **BIN: 3839916 Block: 2011 Lot: 30**

NUMBER	TYPE	FILE DATE
DEMO 779-74		12/20/1974
P&D 721-28	PLUMBING & DRAINAGE	04/19/1928

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF NEW YORK ss:

On the 29th day of February, 1984, before me personally came Nathaniel C. White to me known, who, being by me duly sworn, did depose and say that he resides at No. 679 Clinton Avenue, Brooklyn, New York; that he is the President of La Juan Development Corp., the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

George A. Kyz

GEORGE A. KYZ
NOTARY PUBLIC, State of New York
No. 31-8090940
Qualified in New York County
Commission Expires March 30, 1984

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.

that he knows to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

Bargain and Sale Deed

WITH COVENANT AGAINST GRANTOR'S ACTS

TITLE NO.

LA JUAN DEVELOPMENT CORP.

TO

WHITE MEMORIAL CHAPELS, INC.

SECTION 7
BLOCK 2011
LOT 30
COUNTY OR TOWN Kings

RECORDED AT THE REQUEST OF

Lawyers Title Insurance Corporation

RETURN BY MAIL TO

GEORGE W. NASH, P.C.
211 West 56th Street, Suite 11-J
New York, New York Zip No. 10019

STANDARD FORM OF
NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by
Lawyers Title Insurance Corporation
Home Office – Richmond, Virginia
708 THIRD AVENUE AT 40TH STREET, NEW YORK, N.Y. 10017

9624

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

MAR 12 2 3 46

OFFICE OF CITY REGISTER
Kings County
RECORDED
Witness my hand
and official seal

ACTING CITY REGISTER

RECORDED
$ REAL ESTATE
MAR 1 2 1984
TRANSFER TAX
KINGS
COUNTY

11925

REC. #
BST #
BIT #

H 12-
14-
3831
Y 1-

Standard N.Y.B.T.U. Form 8002-20M-7-64—Bargain and Sale Deed, with Covenants against Grantor's Acts—Individual or Corporation. (single sheet)

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT - THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

95

26

REC. 493 PAGE 112

THIS INDENTURE, made the 28th day of July, nineteen hundred and sixty-seven

BETWEEN RICHLOU ASSOCIATES, a partnership having its office at 750 - 3rd Avenue, New York, New York

BL 2011

LOT 30

party of the first part, and 502 Waverly Avenue Realty Corp., having its principal place of business at 502 Waverly Avenue, Brooklyn, New York,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the westerly side of Waverly Avenue with the southwesterly side of Fulton Street, running thence northwesterly along the southwesterly side of Fulton Street, 105 feet 9 inches to the intersection of the southwesterly side of Fulton Street with the northerly side of Plot #90, as same is shown on a map known as the "Map of property of John Spader and George W. Pine, in the 7th Ward, City of Brooklyn" dated September 17, 1833, surveyed by Sidney C. Herbert and filed in the Kings County Register's Office November 13, 1833 and now known as Map #385 as on file in the Kings County Register's Office; thence westerly along the northerly side of Plot #90, as shown on said map, 3 feet 4½ inches to a point 100 feet easterly from the easterly side of Clinton Avenue; thence southerly parallel with Clinton Avenue, 100 feet to the southerly side of Plot #90; thence easterly along the southerly side of Plot #90, 20 feet; thence southerly parallel with Clinton Avenue, 50 feet; thence easterly parallel with the southerly side of Plot #90, 80 feet to the westerly side of Waverly Avenue; thence northerly along the westerly side of Waverly Avenue, 107 feet 1 inch to the point or place of BEGINNING.

SUBJECT TO A First Mortgage recorded in Liber 12515, np 336 held by the Prudential Savings Bank. SUBJECT TO a Purchase Money Second Mortgage of even date herewith and intended to be recorded simultaneously herewith, given by the Party of the second part to the party of the first part to secure the payment of $9,250.00 and interest.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

James L. Rosenberg

[illegible]

297 Statutory Form F.
Referee's Deed in Foreclosure.

JULIUS BLUMBERG, INC., LAW BLANK PUBLISHERS
80 EXCHANGE PLACE, AT BROADWAY, NEW YORK

BK. 2011
LOT 30

This Deed

Made the 28th *day of* December *nineteen hundred*

and seventy-one

Between HENRY J. KRISSOFF, ESQ., 16 Court St., Brooklyn, N.Y. *Referee*

duly appointed in the action hereinafter mentioned. Grantor

And

PRUDENTIAL SAVINGS BANK, a domestic banking corporation, having its principal office at 390 Avenue of the Americas, New York, N.Y.

Grantee

Witnesseth, *that the Grantor, the Referee appointed in an action between*

PRUDENTIAL SAVINGS BANK,

plaintiff

and

502 WAVERLY AVENUE REALTY CORP., et al.,

REAL ESTATE TRANSFER TAX STATE OF NEW YORK
Dept. of Taxation
01 10

defendants,

foreclosing a mortgage recorded on the 30th *day of* August

nineteen hundred and sixty-three *in the office of the* Register

of the County of Kings *, in liber* 12515 *of mortgages,*

at page 336 *, in pursuance of a judgment entered at a special term of the*

Supreme Court, Kings County

on the 21st *day of* October *nineteen hundred and* seventy-one

and in consideration of $1,000

Dollars paid by the Grantee,

being the highest sum bid at the sale under said judgment does hereby grant and convey unto the Grantee,

REC 528 PAGE 1773

SST-7.1C

THIS DEED, made the 14th day of September, Nineteen hundred and Seventy - six

BETWEEN

IVAN E. IMRIANNY,

Finance Administrator of The City of New York, having his principal office at Room 500, Municipal Building, Borough of Manhattan, County, City and State of New York, GRANTOR and

THE CITY OF NEW YORK, a municipal corporation having its principal office at City Hall, Borough of Manhattan, City and State of New York, GRANTEE,

AS IN ORIGINAL

WITNESSETH:

That the Grantor, duly empowered by a judgment of foreclosure entered on September 14, 1976, at a Special Term, Part II, of the New York Supreme Court, County of Kings, in an action to foreclose certain tax liens owned and held by The City of New York, entitled "In the Matter of the Foreclosure of Tax Liens pursuant to Title 'D' of Chapter '17' of the Administrative Code of The City of New York, List of Delinquent Taxes, Sections 1 to 26, Borough of Brooklyn, Action No. 30 ", and in pursuance of the provisions of Section 11-[illegible] of the Administrative Code of The City of New York, hereby grants and convey unto the Grantee, its successors and assigns:

AS IN ORIGINAL

REL 871 PG 1050

2011/30

8/77/321

THIS INDENTURE, made the 16th day of February, nineteen hundred and seventy-eight, between THE CITY OF NEW YORK, a municipal corporation, having its principal office at the City Hall, Borough of Manhattan, City and State of New York, the first party and

LA JUAN DEVELOPMENT CORP., a domestic corporation having its principal office at 519 Clinton Avenue, Brooklyn, New York,

, hereinafter designated as the second party.

WHEREAS, the Board of Estimate of The City of New York, by resolution adopted on the 23rd day of June, 19 77 (Calendar No. 117), and after the appraisal under the direction of said Board, duly ordered and directed the sale at public auction of the premises therein and hereinafter described for the minimum or upset price of

TWO THOUSAND FIVE HUNDRED ($2,500.00) DOLLARS and

WHEREAS, after advertisement in the manner provided by law, said premises were duly sold by and under the direction of the [illegible] property at public auction at the time and place set forth in such advertisement for the sum of

THREE THOUSAND ONE HUNDRED ($3,100.00) DOLLARS

that being the highest bid therefor at said sale,

NOW, THEREFORE, WITNESSETH: That the first party, in consideration of the sum of

THREE THOUSAND ONE HUNDRED ($3,100.00) DOLLARS

lawful money of the United States, paid by the second party, does hereby grant and release unto the second party, the heirs or successors and assigns of the second party forever,

ALL that certain piece or parcel of land, together with any improvements thereon, situate, lying and being in the Borough of Brooklyn, City and State of New York, designated on the Tax Map of the City of New York, for the Borough of Brooklyn, as said Tax Map was on February 11, 1975 as Section 7 Block 2011 Lot 30

REL 978 page 1659

TO HAVE AND TO HOLD the premises herein granted unto the second party, the heirs or successors and assigns of the second party forever.

Subject to: (1) Any state of facts an accurate survey would show; (2) The rights, if any, of tenants and persons in possession, if any; (3) All violations of any local, State or The Federal Government having jurisdiction thereof existing at the time of closing; (4) Building restrictions and to zoning regulations in force at the time of the delivery of the deed and to covenants, restrictions of record, and easements affecting the subject property; (5) The trust fund provisions of section thirteen of the Lien Law; and (6) All pending assessments, if any, which the second party will assume.

In the event of the acquisition by The City of New York by condemnation or otherwise of any part or portion of the above premises lying within the bed of any street, avenue, parkway, expressway, park, public place or catch-basin as said street, avenue, parkway, expressway, park, public place or catch-basin is shown on the present City Map, the party of the second part the heirs or successors and assigns of the party of the second party, shall only be entitled to compensation for such acquisition by The City to the Amount of one dollar, and shall not be entitled to compensation for any buildings or structures erected thereon within the lines of the street, avenue, parkway, expressway, park, public place or catch-basin so laid out and required. This covenant shall be binding upon and run with the land and shall endure until the City Map is changed so as to eliminate from within the lines of said street, avenue, parkway, expressway, park, public place or catch-basin any part or portion of the premises and no longer.

IN WITNESS WHEREOF, the party of the second part has caused these presents to be subscribed to by the [illegible] and to be hereunto affixed the day and year first above written.

THE CITY OF NEW YORK

[illegible] Division of Real Property

[illegible] Section, Division of Real Property

City Clerk

Approved as to Form

Asst. Corporation Counsel

CHARLES F. GURINO, [illegible]

Appendix F

E Designation

OFFICE OF ENVIRONMENTAL REMEDIATION

NOTICE OF ADOPTION OF AMENDMENTS TO RULES OF THE NEW YORK CITY BROWNFIELD INCENTIVE GRANT PROGRAM

NOTICE IS HEREBY GIVEN PURSUANT TO THE AUTHORITY VESTED in the Director of Environmental Remediation by subdivision e of section 15 and section 1404 of the New York City Charter, that the Office of Environmental Remediation promulgates and adopts amendments to rules for property owners to comply with (E) Designations, in relation to potential hazardous materials, air quality and noise impacts. The rules were proposed and published on January 25, 2012. A public hearing was held on February 27, 2012.

STATEMENT OF BASIS AND PURPOSE

Pursuant to sections 15 (e) and 1404 of the New York City Charter, the Office of Environmental Remediation ("OER") is amending its rules for property owners to comply with (E) Designations in relation to potential hazardous materials, air quality and noise impacts. The amended (E) Designation rules implement a recent amendment to section 11-15 of Zoning Resolution of the City of New York, approved by the City Planning Commission and the City Council on February 29, 2012 and March 28, 2012 respectively, that strengthens, clarifies and increases the flexibility of the (E) Designation Program. In addition, the amended (E) Designation rules represent the first overhaul of the rules for this citywide environmental program in a decade; the proposed rules would:

- reflect OER's role of determining whether owners or developers comply with (E) Designation requirements. OER assumed this role from the Department of Environmental Protection ("DEP") through Local Law 27 of 2009.

- incorporate additional requirements for (E) Designation site investigations mandated by the CEQR Technical Manual, which was revised in May 2010. The Manual sets forth methodologies acceptable to the city for addressing potential environmental impacts from discretionary actions including (E) Designations.
- establish procedures for parties to comply with air and noise (E) Designations.
- establish new requirements for parties that seek to investigate and remediate sites with (E) Designations.

Section 1404 of the Charter provides that OER has the power and duty to administer the (E) Designation program. Section 15(e)(15) authorizes the Director of Environmental Remediation to administer the (E) Designation program. Section 15(e)(18) authorizes the Director to promulgate rules.

(E) Designations

Under section 11-15 of the Zoning Resolution of the City of New York, a Hazardous Materials, Air Quality or Noise (E) Designation in Appendix C of the Zoning Resolution indicates that environmental requirements have been established for a tax lot. Prior to any improvement at such a lot, including the construction of a new structure or certain remodeling of an existing structure, property owners must demonstrate to OER that the improvement will satisfy the environmental requirements and will occur without potential hazardous material, air quality or noise impacts that could negatively affect construction workers, future users of the lot or those in close proximity to the lot.

Rule Amendments

Together the amendments to section 11-15 of the Zoning Resolution and the amended (E) Designation rules streamline existing regulations, clarify applicability, strengthen enforcement mechanisms, and create more flexibility in the administration of the (E) Designation program. The amended (E) Designation rules authorize (E) Designations to be placed on properties owned or controlled by private applicants that seek to rezone or modify the use and bulk requirements that apply to their property. Until now, property owned by applicants received an Environmental Restrictive Declaration, primarily addressing hazardous materials conditions on real property, which has proven cumbersome to implement because all parties with a property interest in such a parcel including lenders must execute a restrictive declaration for it to take effect. DEP and the Lead Agency (a government agency proposing a discretionary action that may have a significant impact on the environment) also had to expend resources reviewing the Environmental Restrictive Declarations. The amendment streamlines the process by consolidating these separate mechanisms to address potential hazardous materials contamination and by allowing the placement of (E) Designations instead of Environmental Restrictive Declarations. Related to this rule amendment, the Zoning Resolution text amendment allows a Lead Agency to place (E) Designations on properties that are subject of site-specific actions such as special permits or authorizations, discretionary actions that allow for modifications to use, bulk, or parking regulations or to zoning requirements if certain findings in the Zoning Resolution are met. Until now, (E) designations were placed only on properties that were to be rezoned, typically by the City but also by private applicants where the rezoning included properties that the applicants did not own.

The Zoning Resolution amendment and the amended rules grant OER additional flexibility in managing the (E) Designation program. OER, with the Lead Agency's consent,

could modify (E) Designations if a property owner demonstrated that a modification to the (E) Designation was equally protective of human health. The Zoning Resolution amendment also strengthens enforcement of ongoing monitoring of hazardous materials remediation measures by providing that any OER-required ongoing monitoring of properties with hazardous materials (E) Designations (after a property has been remediated and received a notice of satisfaction yet residual contamination remains and requires monitoring of the continued effectiveness of environmental management systems) must be noted on the subject building's certificate of occupancy. As reflected in these rules, the Zoning Resolution amendment authorizes OER to require the property owner to execute and place a Declaration of Covenants and Restrictions on tax lots that require ongoing monitoring. The Zoning Resolution and rules amendments create a clear mechanism for property owners to remove (E) Designations from their parcels. If the owner or developer achieves a complete cleanup of a tax lot with a hazardous material (E) Designation, or if the source of the noise or air quality (E) Designation is permanently eliminated, OER will issue a final notice of satisfaction which will prompt the Department of City Planning to remove the (E) Designation for the affected lots from the Zoning Resolution.

In addition, the (E) rules describe requirements for property owners who seek to satisfy (E) Designations for hazardous materials, air quality and noise. Specifically, the rule does the following:

- Amends requirements for submitting investigation work plans, Phase II Environmental Site Assessment reports and Remedial Action Plans to the Office of Environmental Remediation;

- Authorizes OER's nullification of a notice to proceed, which is the approval for a property owner to obtain building department permits allowing construction to begin, if the property owner failed to implement an approved Remedial Action Plan within one year of its issuance; and

- Increases (E) program fees that applicants pay for OER's review and approval of projects so OER can increase its staff in order to continue to deliver timely reviews.

Process to Submit Remedial Action Plan for Air and Noise (E) Designations

In order to satisfy Air Quality or Noise (E) Designations, the rules require property owners to submit a Remedial Action Plan to OER detailing how their proposed development will meet the environmental requirements of their lot's (E) Designation. The rules provide procedures for an applicant to seek OER approval of a modification for certain types of (E) Designation requirements. If OER determines that the Remedial Action Plan meets the requirements of the (E) Designation, OER will recommend that DOB issue the relevant permit. Finally, upon completion of the project, property owners must submit an Installation Report to OER documenting that the Remedial Action Plan was properly implemented. If OER approves the Installation Report, OER will notify DOB that it may issue a temporary certificate of occupancy or a certificate of occupancy.

"Shall" and "must" denote mandatory requirements and may be used interchangeably in the rules of this office, unless otherwise specified or unless the context clearly indicates otherwise. New text is underlined; deleted material is in [brackets].

Section 1. Sections 24-01 through 24-10 of Chapter 24 of Title 15 of the Rules of the City of New York are amended to read as follows:

§ 24-01 Authority.

[These rules are] This chapter is promulgated pursuant to §§ 15 (e), 1403 and 1404 of the Charter of the City of New York and in accordance with § 11-15[(c),] of the Zoning Resolution of the City of New York.

§24-02 Applicability.

[These rules] This chapter shall apply in connection with the environmental review pursuant to City Environmental Quality Review (CEQR) of any Zoning [Map] Amendment or Zoning Action subject to review and approval pursuant to §§ 197-c and 197-d of the New York City Charter where one or more tax lots in the area subject to the Zoning [Map] Amendment [, and not under the control or ownership of the person seeking such Zoning Map Amendment,] or Zoning Action have been identified by the Lead Agency as likely to be developed as a direct consequence of the action. [These rules shall not apply to the environmental review by the City of a Zoning Map Amendment as it affects property under the control or ownership of such

person, which shall be conducted in accordance with CEQR requirements governing the review of potential hazardous material contamination or noise or air quality impacts for such property.]

§ 24-03 Definitions.

The following definitions shall apply to this [rule] chapter, § 24-01 et seq., unless the text specifically indicates otherwise:

Alternate Means of Ventilation. "Alternate Means of Ventilation" means a device that introduces fresh air into a building and thereby allows operable windows to be closed at all times.

CEQR. "CEQR" shall mean the City Environmental Quality Review, Chapter 5 of Title 62 of the Rules of the City of New York.

CEQR Determination. "CEQR Determination" means any of the following, issued by the Lead Agency pursuant to CEQR: a determination that a proposed action is Type II, as defined under the State Environmental Quality Review Act (NYCRR Part 617); a negative declaration or conditional negative declaration for an Environmental Assessment Statement,; or a final Environmental Impact Statement with respect to which findings are made, including any technical memoranda with respect to such final Environmental Impact Statement.

CEQR Technical Manual. "CEQR Technical Manual" shall mean the City Environmental

Quality Review Technical Manual issued by OEC in [December 1993] May 2010 together with any updates, supplements and revisions thereto.

CHASP. "CHASP" means a site-specific construction health and safety plan developed for remediation and construction phases of a project that is designed to protect on-site workers from exposure to known site contaminants.

City. "City" shall mean the City of New York.

Contamination. "Contamination," "Contaminated," or "to Contaminate" shall mean the effect(s) on a tax lot(s) from hazardous materials, hazardous substances, hazardous wastes and/or petroleum.

Day. "Day" shall mean a business day.

dBA. "dBA" means a measure of sound as experienced by the human ear.

DCP. "DCP" shall mean the New York City Department of City Planning.

DEC. "DEC" shall mean the New York State Department of Environmental Conservation.

Decibel. "Decibel" or "dB" means the practical unit of measurement for sound pressure level.

The number of decibels of a measured sound is equal to 20 times the logarithm to the base 10 of the ratio of the sound pressure to the pressure of a reference sound.

Department. "Department" shall mean the New York City Department of Environmental Protection.

Development. "Development", or "Develop" shall mean [a]:

1. with respect to hazardous materials, the development of a new structure, an enlargement, extension or change of use with respect to an existing structure involving a residential or community facility use, and/or any work on a tax lot(s) that involves soil disturbance, including, but not limited to [demolition,] grading[,] or excavation related to the construction[, enlargement, and/] or [extension] alteration of a new or existing structure(s) on a tax lot(s), and
2. with respect to air quality and noise, development of a new structure, or a change of use, enlargement, extension or alteration of an existing structure(s) on a tax lot(s).

Development Site. "Development Site" shall mean a tax lot(s) located within the area of a proposed Zoning [Map] Amendment [which is not under the control or ownership of the applicant for such Zoning Map Amendment] or Zoning Action and which is proposed to be developed by the applicant for such Zoning Amendment or Zoning Action or which the Lead Agency has identified pursuant to CEQR as likely to be developed as a direct consequence of the Zoning [Map] Amendment or Zoning Action.

DOB. "DOB" shall mean the New York City Department of Buildings.

(E) Designation. "(E) Designation" shall mean the designation of an "E" [on the Zoning Map] pursuant to § 11-15 of the Zoning Resolution [of the City of New York].

Equivalent Sound Level. "Equivalent Sound Level" or "Leq" means a quantification of noise level as a single value for a given period of time.

Environmental Assessment Statement. "Environmental Assessment Statement" means a report that describes a proposed development, its location, and a first level analysis of environmental impact areas. Its purpose is to determine a project's potential effects on the environment.

Environmental Impact Statement. "Environmental Impact Statement" means a report that provides a complete analysis of all appropriate environmental impact areas and provides a means for agencies, project sponsors, and the public to consider a project's significant adverse environmental impacts, alternatives, and mitigations.

Environmental Restrictive Declaration. "Environmental Restrictive Declaration" means a document recorded against a tax lot(s) in the county office of land records and executed by all Parties-in-Interest to such tax lot(s), setting forth restrictions and enforcement provisions with respect to implementation of environmental requirements

regarding hazardous materials, air quality and/or noise arising from the environmental review of zoning actions.

EPA. "EPA" shall mean the United States Environmental Protection Agency.

Full Build Year. "Full Build Year" means the year of completion for the proposed action as indicated in the EAS or EIS.

Hazardous Material. "Hazardous Material" shall mean any material, substance, chemical, element, compound, mixture, solution, product, solid, gas, liquid, waste, byproduct, pollutant, or contaminant which when released into the environment may present a substantial danger to the public health or welfare or the environment, including, but not limited to those classified or regulated as "hazardous" or "toxic" pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), *42 U.S.C.A. § 9601* (1995) et seq., the Resource Conservation and Recovery Act (RCRA) *42 U.S.C.A. § 6901* (1995) et seq., the Clean Water Act (CWA), *33 U.S.C.A. § 1251* (1986) et seq., the Clean Air Act (CAA) *42 U.S.C.A. § 7401* (1995) et seq., Toxic Substances Control Act (TSCA), *15 U.S.C.A. § 2601* (1998) et seq., Transportation of Hazardous Materials Act, *49 U.S.C.A. § 5101* (1997) et seq., the Hazardous Substances Emergency Response Regulations, 15 RCNY Chap. 11, and/or the List of Hazardous Substances, 6 NYCRR Part 597.

Hazardous Waste. "Hazardous Waste" shall mean any waste, solid waste or combination of

waste and solid waste listed or regulated as a hazardous waste or characteristic hazardous waste pursuant to RCRA, *42 U.S.C.A. § 6901* (1995), et seq. and/or Identification and Listing of Hazardous Wastes, 6 NYCRR Part 371, et seq.

HVAC. "HVAC" means Heating, Ventilation, and Air Conditioning System.

Installation Report. "Installation Report" means the report that the applicant submits to OER to demonstrate that the Window/Wall Attenuation, Alternate Means of Ventilation, fuel type and stack location approved in the notice to proceed and installed at the site satisfy the Noise and/or Air Quality (E) Designation.

Lead Agency. "Lead Agency" shall mean the agency responsible under CEQR for the conduct of environmental review in connection with a Zoning [Map] Amendment or Zoning Action.

Ldn. "Ldn" means the equivalent sound level for a 24-hour period with an additional 10 dB imposed on the equivalent sound levels for night time hours between 10 PM and 7 AM.

Leq(1). "Leq(1)" means the equivalent continuous sound level that over a 1-hour period of time has the same total energy as the actual fluctuating sound level over a 1-hour period.

L10(1). "L10(1)" means the stated sound level that is exceeded 10 percent of the time during a 1

hour period. It is derived from Lx(t), where “x” is the percentage of time that the sound level has been exceeded and “t” is the total period of time that the sound has been recorded.

Noise Descriptor. “Noise Descriptor” means a continuous sound level measured during a noise monitoring test according to an approved Noise Monitoring Protocol. Leq(1), L10(1) and Ldn are Noise Descriptors.

Noise Monitoring Protocol. “Noise Monitoring Protocol” means a document prepared by an acoustical specialist describing the conditions, locations, and Noise Descriptors to be used in assessing existing noise levels during a continuous 24-hour period.

[Notice of Satisfaction. Notice of Satisfaction" shall mean a written notice issued by the Department pursuant to § 24-07 of this rule documenting completion of all applicable (E) Designation requirements under this rule.]

OEC. “OEC” shall mean the New York City Mayor’s Office of Environmental Coordination.

OER. “OER” or “Office” means the New York City Mayor’s Office of Environmental Remediation.

Owner. "Owner" shall mean the person, including his or her successors or assigns, who is the recorded title holder of a tax lot(s).

Parties-in-Interest. "Parties-in-Interest" shall mean any person with an enforceable property interest in a tax lot(s).

[**PE Completion Confirmation.** "PE Completion Confirmation" shall mean a written notice of completion of a Department approved remediation plan from a Professional Engineer, in a form acceptable to the Department.]

Person. "Person" shall mean any individual, trust, firm, corporation, joint stock company, association, partnership, consortium, joint venture, commercial entity or governmental entity.

Petroleum. "Petroleum" shall mean oil or petroleum of any kind and in any form, including, but not limited to oil, petroleum, fuel oil, oil sludge, oil refuse, oil mixed with other waste, crude oil, gasoline and kerosene.

Project Site. "Project Site" shall mean a tax lot(s) that is under the control or ownership of the applicant for the satisfaction and removal of an (E) Designation from the [Zoning Map] lot(s) and is subject to the proposed [development] Development by such applicant.

Qualified Environmental Professional (QEP). "Qualified environmental professional" (QEP) means a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions

regarding the presence of releases or threatened releases to the surface or subsurface of a property or off-site areas, sufficient to meet the objectives and performance factors for the areas of practice identified by this chapter. Such a person must:

1. Hold a current professional engineer's or a professional geologist's license or registration issued by any state, or hold a baccalaureate degree or higher in engineering or geology and have the equivalent of three years of full-time relevant experience in site investigation and remediation of the type detailed in this chapter; or

2. Be a site remediation professional licensed or certified by the federal government, any state or a recognized accrediting agency, to perform investigation or remediation tasks consistent with office guidance, and have the equivalent of three years of full-time relevant experience.

[**Restrictive Declaration.** "Restrictive Declaration" shall mean an instrument recorded against a tax lot(s) in the county office of land records and executed by all Parties-in-Interest to such tax lot(s), setting forth restrictions and enforcement provisions with respect to implementation of a Remediation Plan pursuant to § 24-07 of these rules.]

Tax Lot. "Tax Lot" shall mean a tax lot identified by parcel number on the official tax maps of the City of New York.

Window/Wall Attenuation. "Window/Wall Attenuation" means the sound reduction mandated by the Noise (E) Designation, expressed in dBA and based upon the American Society of

Testing and Materials (E-1332.90) Outdoor Indoor Transmission Class (OITC) values of individual components of a building's façade.

Zoning Action. "Zoning Action" means an action, such as a special permit, authorization, certification, or variance, pursuant to the provisions of the Zoning Resolution.

Zoning Amendment. "Zoning Amendment" means a proposed amendment to the text or maps of the Zoning Resolution, subject to review and approval pursuant to §§ 197-c, 197-d and 200 of the New York City Charter.

[Zoning Map. "Zoning Map" shall have the meaning set forth in § 12-10 of the Zoning Resolution of the City of New York.]

[**Zoning Map Amendment.** "Zoning Map Amendment" shall mean a proposed amendment to the Zoning Map subject to review and approval pursuant to §§ 197-c, 197-d and 200 of the New York City Charter.]

Zoning Resolution. "Zoning Resolution" shall mean the Zoning Resolution of the City of New York, effective December 15, 1961, as amended from time to time.

§ 24-04 Preliminary Screening.

a. The Lead Agency may prepare or may cause to be prepared a preliminary screening assessment consisting of visual or historical documentation of any of the following past or

current uses at a Development Site, and/or other tax lot(s) that might have affected or be affecting a Development Site.

(1) Incinerators;

(2) Underground and/or above ground storage tanks;

(3) Active solid waste landfills;

(4) Permitted hazardous waste management facilities;

(5) Inactive hazardous waste facilities;

(6) Suspected hazardous waste sites;

(7) Hazardous substance spill locations;

(8) Areas known to contain fill material;

(9) Petroleum spill locations;

(10) Any past use identified in Appendix A to the CEQR Technical Manual.

b. Based on the visual or historical documentation prepared under [subsection] subdivision (a) with respect to lots not under the ownership or control of the person seeking the Zoning Amendment or Zoning Action, the Lead Agency may determine that an (E) Designation should be placed on [the Zoning Map for] the tax lot(s) identified under [subsection] subdivision (a) in connection with [adoption] the approval of the Zoning [Map] Amendment or Zoning Action. In making such determination, the Lead Agency may consult with the Department, and the Lead Agency will inform the Department and OER of such determination.

c. A Phase I Environmental Site Assessment pursuant to § 24-05 shall not be required prior to placement of an (E) Designation on [the Zoning Map] a lot pursuant to this Section unless the lot is under the ownership or control of the applicant for the Zoning Amendment or Zoning Action.

§ 24-05 Phase I Environmental Site Assessment.

a. For any Development Site that [has not received an (E) Designation] is under the control or ownership of the applicant and that, following review of visual or historical documentation pursuant to § 24-04 , warrants a hazardous materials assessment, the Lead Agency shall conduct, or shall cause to be conducted, a Phase I Environmental Site Assessment (Phase I ESA) consistent with the current American Society of Testing and Materials (ASTM) Phase I ESA standard.

b. The Phase I ESA may be limited to:

(1) Historical land use review;

(2) Regulatory agency list review; and

(3) Site and surrounding area reconnaissance visit.

c. A report entitled "Phase I ESA Report" and any supplements thereto, summarizing the Phase I ESA shall be prepared by or for the Lead Agency and a copy of such report shall be provided to the Department. The Phase I ESA Report shall include any information discovered in the Phase I ESA. The Department may provide the Lead Agency with any additional information it deems relevant together with any comments regarding the contents of the Phase I ESA and any supplements thereto within twenty (20) days of receipt of the Phase I ESA Report.

d. The Lead Agency [shall] may respond to the Department's comments and any additional information either by placing or causing DCP to place an (E) on the [Zoning Map for the] relevanttax lot(s) or by issuing a Final Phase I ESA Report that addresses any such comments and/or additional information. The Lead Agency shall inform the Department and OER of such determination.

e. If a Phase II Environmental Site Assessment or a remedial plan is expected to be conducted during the environmental review, the Lead Agency must coordinate with the Department to ensure that the testing and/or remedial plans are acceptable and protective of public health.

§ 24-06 Phase II Environmental Site Assessment.

a. Before an applicant may [seek any] receive a building permit [for development] from DOB for any Development with respect to a tax lot(s) subject to an (E) Designation or an Environmental Restrictive Declaration, the applicant shall:

(1) Complete a Phase II Environmental Site Assessment (Phase II ESA) in accordance with this section to determine the level and extent of contamination at the proposed Project Site; or

(2) Submit to [the Department] OER historical, regulatory or other evidence that a Phase II ESA is not required for the proposed [Project Site] Development, which [the Department] OER shall review in accordance with § 24-09.

b. The applicant shall prepare and submit to [the Department] OER a Phase II Investigative Work Plan to [the] implement an ASTM compliant or otherwise OER-approvable Phase II ESA, prepared in accordance with the CEQR Technical Manual. Such Work Plan shall be prepared using an OER-approved format and must also include:

(1) A detailed description of the [proposed] previous and current uses of the Project Site;

(2) A detailed description of the proposed development at the Project Site [;] certified by the registered architect (RA) or professional engineer (PE) of record including:

i. Supporting registered architect or professional engineer certified plans depicting foundation and subsurface utility layouts and depths, grade-level courtyards, landscaped open areas, and other grade-level areas not covered by structures; and

ii. all corresponding DOB permit application numbers.

(3) A description of the [projected time frame for development at] development schedule for the Project Site;

(4) [A description of the proposed use of the Project Site;

(5)] Copies of reports of [any] all previous investigations related to the presence or suspected presence of contamination on the Project Site[.];

(5) A site-specific investigation health and safety plan (HASP), consistent with applicable U.S. Occupational Health and Safety Administration requirements found at 29 CFR 1910.120, to protect the health and safety of on-site personnel and the surrounding community. The HASP will identify all potential chemicals of concern at the Project Site and include material safety data sheets for each chemical compound group or chemical of concern. As a default, all chemical groups such as volatile organic compounds (VOCs),

semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and target analyte list (TAL) metals will be included in the investigation HASP;

(6) The location of all proposed sampling points and sampling depths where applicable for soil, groundwater and soil vapor;

(7) A description of the sampling and analytical methods and other investigative field work that complies with ASTM Phase II reporting requirements or other requirements of OER.

c. OER may allow an alternate process to a Phase II Investigation Work Plan if such process is established under a remedial program operated by OER or DEC.

d. Where applicable and at a minimum, the following procedures or requirements shall be implemented in the Phase II ESA for all sampling techniques and methods:

(1) All samples shall be analyzed by a laboratory accredited by the New York State Department of Health Environmental Laboratory Approval Program (ELAP);

(2) [Samples from sites on the DEC Registry of Inactive Hazardous Waste Sites shall use a laboratory certified under EPA's Contract Laboratory Program or DEC's Analytical Services Program (ASP);

(3) EPA SW-846, 40 C.F.R. 261, which delineates the EPA Target Compound List/Target Analyte List, or an EPA approved successor method shall be used;]

Soil and ground water samples must be analyzed for full list VOCs with methyl tertiary butyl ether (MTBE) analyzed by EPA Method 8260B, sSVOCs by EPA Method 8270C, PCBs by EPA Method 8081A, pesticides by EPA method 8082, and TAL metals by EPA Method 6020 at an ELAP-certified laboratory.

(3) Soil gas, sub-slab soil gas, and indoor air samples should be analyzed for VOCs by EPA Method TO-15 at an ELAP-certified laboratory. If ELAP certification is not available, certification by other agencies and/or organizations is recommended. Additional analyses may be warranted if the type of contamination suspected cannot be adequately characterized by these analyses. New York State Department of Health Category B Deliverables are not required to satisfy an (E) Designation.

(4) Toxicity Characteristic Leaching Procedure, Method 1311, as delineated in EPA SW-846, 40 C.F.R. 261 and required by OER, or an EPA approved successor method shall be used where appropriate.

(5) Samples from sites on the DEC Registry of Inactive Hazardous Waste Sites shall use a laboratory certified under EPA's Contract Laboratory Program or DEC's Analytical Services Program (ASP).

[d The Department] e. OER will review the Work Plan submitted pursuant to subdivisions (b) and (c) of this section in accordance with § 24-09.

[e] f. The applicant shall [undertake] implement the Work Plan as approved by [the Department] OER.

[f] g. Upon completion of the Phase II ESA, a report entitled "Phase II ESA Report" summarizing the Phase II ESA shall be submitted to [the Department] OER. The Phase II ESA Report shall include:

(1) A summary of the findings of all the studies and/or investigations performed;

(2) A description of a site inspection performed by a QEP;

(3) A description of all assessment [reconnaissance] and investigation techniques in accordance with applicable Federal and State [laws] standards, criteria, and guidance and [Department guidelines] OER templates;

[(3)] (4) Sampling Results, which shall be presented in summary tables and compared to all relevant State and Federal [guidance values, standards and regulations] standards, criteria, and guidance;

[(4)] (5) Maps of the tax lots (1"=50') including but not limited to: USGS quadrangle map, name of quad and [North] north arrow, on which the following is clearly indicated:

(i) All physical site characteristics with location of all [location of all soil borings, soil gas points, groundwater monitoring wells, USTs, vent lines, fill lines,] historical features of environmental significance and recognized environmental conditions, including underground storage tanks, vent lines, fill lines, interior floor drains, exterior drywells and other pertinent information; maps of sampling locations and depths for soil, groundwater and soil vapor samples showing chemical analytical results that highlight exceedances of applicable standards, criteria, and guidance; and other pertinent information;

(ii) [Where relevant based on the conditions of the Project Site, a depiction of groundwater] Groundwater elevation and flow direction of the uppermost aquifer; and

(iii) [Where relevant based on the conditions of the Project Site, a soil-gas concentration map with contours; and

(iv)] All identified [sources] contamination source [of releases and the extent and concentrations of contaminant plumes in all media] areas.

[(5)] (6) Appendices, which shall include:

(i) All raw data,

(ii) Laboratory methods,

(iii) Chain-of-custody forms,

(iv) A quality assurance/quality control [QA/QC] plan, including provisions for blank and duplicate samples and other quality assurance and quality control information as appropriate,

(v) Field notes,

(vi) Soil boring/monitoring well logs prepared under the guidance of a QEP,

(vii) As-built well construction details,

(viii) Modeling programs used,

(ix) Calculations and formulas, and

(x) Physical/chemical properties of chemical compounds of concern.

[(6)] (7)An assessment, based on findings of the Phase II ESA, of whether or not a [Remediation] Remedial Action Plan is required for the Project Site.

[g] h. The applicant may submit a [Remediation] Remedial Action Plan with the Phase II ESA Report.

[h The Department] i. OER will review the Phase II ESA Report in accordance with § 24-09.

[i] j. Upon completion of its review of the Phase II ESA Report, [the Department] OER will determine whether a [Remediation] Remedial Action Plan and site-specific Construction HASP (CHASP) is required.

(1) If [the Department] OER determines that a [Remediation] Remedial Action Plan is not required, [the Department] OER will issue a notice of [Satisfaction letter] no objection to DOB;

(2) If a [Remediation] Remedial Action Plan and CHASP [has] have been submitted, [the Department] OER will review it in accordance with §§ 24-07 and 24-09;

(3) If [the Department] OER determines that a [Remediation] Remedial Action Plan [is] and CHASP are required and a [Remediation] Remedial Action Plan and CHASP has not already been submitted by the applicant, the applicant shall submit a [Remediation] Remedial Action Plan and CHASP for review by [the Department] OER in accordance with §§ 24-07 and 24-09.

§ 24-07 [Remediation] Remedial Action Plan.

a. Preparation of the [Remediation] Remedial Action Plan.

(1) Before an applicant may [seek any] receive a building [permits] permit from DOB [with respect to] for any Development on a tax lot(s) subject to an (E) Designation or an Environmental Restrictive Declaration, where [the Department] OER has determined that [Remediation] a Remedial Action Plan is required pursuant to § 24-06, the applicant shall prepare a [Remediation] Remedial Action Plan and CHASP. The [Remediation] Remedial Action Plan shall address [all aspects of] contamination [, actual and/or

potential,] identified in the Phase II ESA Report to the satisfaction of OER, including, but not limited to:

(i) Elevated levels of contaminants pursuant to applicable [law and/or DEC guidelines] DEC standards, criteria, and guidance;

(ii) [The sources of contamination] Contaminant source areas;

(iii) The exposure pathways for contamination;

(iv) Environmental exposure to contamination;

(v) [Human health] Public exposure to contamination;

(vi) Proposed cleanup criteria; and

(vii) Health and Safety of construction workers and the general public during remedial action on the tax lot(s). [;and

(viii) Health and Safety of the public and future users of the tax lot(s) within the constraints of technical feasibility, remedial technology, and monitoring requirements.]

(2) In preparing a [Remediation] Remedial Action Plan, the applicant shall use templates provided by OER and consider [all applicable] appropriate remediation techniques, including, but not limited to, those set forth in the CEQR Technical Manual. The [Remediation] Remedial Action Plan shall include a list of all [techniques considered and an explanation for the acceptance or rejection of those techniques] remedial action objectives and explain how the proposed remedial action achieves these objectives.

(3) [The Department] OER shall review the [Remediation] Remedial Action Plan in accordance with § 24-09.

(4) In conjunction with its review of the [Remediation] Remedial Action Plan, [the Department] OER may require the execution of a [Restrictive Declaration] Declaration of Covenants and Restrictions by the [owner, or the owner's designee approved by the Department,] title holder for the tax lot(s) subject to the (E) Designation or the Environmental Restrictive Declaration, which shall be recorded against the property prior to the issuance of a notice of satisfaction.

(i) The [Restrictive Declaration] Declaration of Covenants and Restrictions shall bind the [owner] title holder, or [the owner's] a designee approved by [the Department,] OER to [performance of] perform the [Remediation] Remedial Action Plan in accordance with its terms, and [shall] may include [restrictions upon development of the subject tax lot(s)] institutional controls, including restrictions on use of the property, and the maintenance of engineering controls, including the implementation of a site management plan for the operation, maintenance, monitoring, inspection, certification, and reporting of engineering controls as required by OER;

(ii) In accordance with the [Remediation] Remedial Action Plan, the [Restrictive Declaration] Declaration of Covenants and Restrictions may require [monitoring or other measures] controls that extend beyond the date of issuance of a [Temporary Certificate of Occupancy] temporary certificate of occupancy or a certificate of occupancy for the Project Site;

(iii) The [Restrictive Declaration] Declaration of Covenants and Restrictions [shall] may include a procedure for [Department review of satisfaction of any]

the periodic reporting to OER of the attainment and maintenance of any requirements contained in the [Restrictive Declaration] Declaration of Covenants and Restrictions pursuant to this subsection [and release therefrom]; [and]

(iv) The [Restrictive Declaration] Declaration of Covenants and Restrictions shall be executed by [all Parties-in-Interest to] the title holder of [to] such tax lot(s) and shall be recorded against such tax lot(s) in the applicable county office of land records[.]; and

(v) The Remedial Action Plan must be certified by a QEP or professional engineer, and all engineering controls must be certified by a professional engineer.

b. Implementation of the [Remediation] Remedial Action Plan.

(1) Prior to implementation of the [Remediation] Remedial Action Plan, the applicant shall [:

(i) the Department] provide OER with ten (10) days written notice of such planned implementation.[; and

(ii) A copy of the recorded Restrictive Declaration, if such was required by the Department.]

(2) The applicant shall ensure that field oversight of the remedial action is performed by a professional engineer, a QEP, or a trained associate under the direct supervision of a professional engineer or QEP, and that the field oversight of engineering controls is performed by a professional engineer or a trained associate under the direct supervision of a professional engineer.

(3) After [the Department] OER has reviewed and approved the [Remediation] Remedial Action Plan in accordance with § 24-09 [and a Restrictive Declaration, if required by the Department, has been completed in accordance with paragraph (4) of subsection a. of this section, the Department may recommend to], OER will issue a notice to proceed which authorizes DOB [issuance of] to issue such building permit or permits as are necessary to [undertake] implement the approved [Remediation] remedial action. In no event, however, shall the applicant [seek or accept] receive from DOB a [Temporary Certificate of Occupancy] temporary certificate of occupancy or a certificate of occupancy until [the Department] OER issues a notice of satisfaction pursuant to paragraph (2) of subsection (c) of this section.

(i) If the proposed Development of the tax lot is altered in any way after the Remedial Action Plan is approved and before the remedial action is completed and prior to any Development, OER's approval of the Remedial Action Plan is invalidated, and the applicant must submit a new or amended Remedial Action Plan for approval or demonstrate to OER that the previously approved Remedial Action Plan is appropriate.

(ii) For a tax lot with a Development that has been altered after the Remedial Action Plan is approved, OER may review the effectiveness of the site's completed remedial action.

[(3)] (4) If implementation of [a Department] an OER-approved [Remediation] Remedial Action Plan does not commence within one year of the date of [the Department's] OER's approval thereof, such approval and any notice to proceed shall expire.

(i) The applicant may request in writing to extend [a Department] an OER approval for a [Remediation] Remedial Action Plan not less than thirty (30) days prior to the expiration of such [Department] OER approval.

(a) Any written request for an extension shall explain the circumstances for the delay in implementation of the [Remediation] Remedial Action Plan [and document that the Remediation Plan remains valid].

(b) [The Department] OER shall review a written request for an extension by the applicant in accordance with § 24-09.

(ii) If an approval for a [Remediation] Remedial Action Plan expires, the Applicant shall:

(a) Submit a new [Remediation] Remedial Action Plan for [Department] OER review in accordance with § 24-09; or

(b) Submit a written request for a renewed approval of the expired [Remediation] Remedial Action Plan.

(1) [Any written request for a renewed approval shall explain the circumstances for the delay in implementation of the Remediation Plan and document that the Remediation Plan remains valid.

(2) The Department] OER will review a [written request for an extension by the Applicant] new Remedial Action Plan or a request for a renewed approval in accordance with § 24-09.

[(3) The Department] (2) OER shall have the right to inspect any tax lot(s) subject to remediation pursuant to this [rule with respect to the remediation,] chapter consistent with applicable health and safety regulations, and the applicant shall allow any such inspection by [the Department] OER.

(3) If DEC approves a remedial action at a tax lot, OER may apply DEC's approval to satisfy one or more or all of the requirements of this section for approval of a Remedial Action Plan.

c. Completion of the [Remediation] Remedial Action Plan.

(1) Upon the completion of [the Department-approved Remediation] a Remedial Action Plan or written confirmation of completion of a substantially equivalent remediation from New York State, the applicant shall deliver to [the Department] OER, a [PE Completion Confirmation] Remedial Closure Report in a form satisfactory to [the Department] OER. If required by OER, a site management plan and proof of recording of a Declaration of Covenants and Restrictions must be included in the Remedial Closure Report.

(i) The Remedial Closure Report must be certified by a QEP or professional engineer.

(ii) All engineering controls employed at a Development Site must be certified by a professional engineer.

(iii) Requirements for monitoring or other measures in the [Remediation] Remedial Action Plan that extend beyond the issuance of a [Temporary Certificate of Occupancy] temporary certificate of occupancy or a certificate of occupancy for the Project Site and are included in a [Restrictive Declaration] Declaration of Covenants and Restrictions in accordance with paragraph (4) of [subsection] subdivision a of this section, shall not preclude the issuance of a [PE Completion Confirmation] Remedial Closure Report.

(2) Upon [the Department's] OER's review and approval of the [PE Completion Confirmation] Remedial Closure Report, [the Department] OER shall issue a notice of satisfaction to the applicant, [OEC,] DOB and DCP within ten (10) days, authorizing DOB to issue a temporary certificate of occupancy or a certificate of occupancy.

(i) The notice of satisfaction shall specify that the environmental requirements relating to the (E) Designation have been satisfied and if applicable, a summary of any requirements for [monitoring] site management or other measures in the [Remediation] Remedial Action Plan that extend beyond the issuance of a [Temporary Certificate of Occupancy] temporary certificate of occupancy or a certificate of occupancy for the Project Site [that] have been included in a [Restrictive Declaration] Declaration of Covenants and Restrictions in accordance with paragraph (4) of [subsection] subdivision a of this section.

§ 24-08 [Satisfaction] Removal of (E) Designation Requirements.

a. [Issuance of the] OER will issue a final notice of satisfaction [by the Department constitutes the Department's report specifying] when OER determines that the environmental requirements relating to the (E) Designation or the Environmental Restrictive Declaration have been completely satisfied for a specific block and lot(s). A tax lot with an (E) Designation for hazardous materials or an Environmental Restrictive Declaration that achieves a DEC Track 1 cleanup qualifies for a final notice of satisfaction. A tax lot with an (E) Designation for air quality or noise may also qualify for a final notice of satisfaction if OER determines that the source of air emissions or noise which resulted in the (E) Designation has been permanently eliminated. OER will send the final notice of satisfaction to both DOB and DCP within ten (10) days.

b. [The owner of any tax lot(s) subject to an (E) Designation may file a copy of a Notice of Satisfaction with the Department of City Planning.] Upon receipt of [such Notice of Satisfaction] a final notice of satisfaction, DCP shall [indicate such satisfaction as to] remove the affected tax lot(s) [on the listing of (E) Designations appended to the Zoning Map] from the list appended to the Zoning Resolution.

c. When DCP has received [Notices of Satisfaction] final notices of satisfaction for all tax lot(s) specified in the CEQR [declaration] Determination with respect to [the placement of] an (E) Designation [on the Zoning Map], it shall administratively remove such (E) Designation from [the Zoning Map] the list appended to the Zoning Resolution.

d. DCP shall notify DOB[, OEC] and [DEP] OER [in writing of the satisfaction of (E) Designation requirements for a tax lot(s) or] of the removal of [an (E) Designation] tax lots and (E) Designations from [a] the list appended to the Zoning [Map] Resolution.

§ 24-09 [Department] Fees and OER Review and Approval [Fee and] Procedure.

a. OER will conduct an initial review of an application to determine the extent of review required for approval of the application. OER shall inform the applicant of the fee amount.

b. An applicant who seeks [Department] OER approval of a minor alteration(s) and/or other action on a tax lot subject to an (E) [designation] Designation or [a restrictive declaration that does not require a full technical review by the Department] an Environmental Restrictive Declaration resulting in the issuance of a notice of no objection shall pay a fee of $[250] 375.

[b] c. An applicant for a new development or for alterations on a tax lot subject to an (E) [designation] Designation or [a restrictive declaration] an Environmental Restrictive Declaration that requires a detailed review by [the Department] OER involving a phased approval and sign-off procedure (e.g., [monitoring, modeling, testing, remediation] investigation, remedial action plan or remedial action report) shall pay a fee of $[750] 1050.

[c. The Department shall conduct an initial review of the application to determine the extent of review required for approval of the application. The Department shall inform the applicant of the fee amount.]

d. Each payment shall be in the form of a personal, business or certified check or money order made payable to the New York City Department of Environmental Protection/Office of Environmental Remediation (DEP/OER) and shall be sent to:

Office of Environmental Remediation

[Attn. Budget Manager

253 Broadway, 14th floor]

100 Gold Street, 2nd floor

New York, NY [10007] 10038

Attn. Accounts Receivable

The applicant shall include the OER project [name] number and/or [address and the Office of Environmental Remediation project number] project name on the certified check.

e. At the [written] request of the applicant, [the Department] OER will [conduct a pre-submission conference] meet with the applicant regarding (1) the required contents of any [submission] plan or report required pursuant to §§ 24-06 and 24-07 of this [rule and the schedule for proceeding with such submission] chapter, and (2) the timeline to meet program milestones to expedite such work.

f. Upon initial receipt of a submission required pursuant to this [rule] chapter, [the Department] including plans and reports, OER will review such submission and attempt to provide written comments within thirty (30) days of receipt of such initial submission.

(1) The applicant must submit all documents, plans, and reports in digital form and in a format established by OER.

g. If [the Department] OER requests additional information or a revised submission, the applicant shall resubmit [the submission] the document, plan, or report with this additional information for review.

(1) Revised submissions will be reviewed by [the Department] OER as expeditiously as possible;

(2) Upon receipt of all information requested, [the Department] OER shall approve the document, modify the document, or issue comments [in writing] with respect to the submission within thirty (30) days.

h. If the applicant disagrees with [the Department's] OER's comments, the applicant shall have the opportunity [thirty (30) days, or such time as agreed upon by the Department and the applicant,] to respond.

i. Upon receipt and review of all required submissions, [the Department] OER will issue [its] a determination [either approving or disapproving the submission] within thirty (30) days.

[j. If at any point in its review of a submission by the applicant, the Department requires more than the specified time period for the review, the Department will notify the applicant in writing of the necessity of such additional time.

k. If at any time the Department fails to provide written comments within a time period specified under this section, or such time as agreed upon by the Department and the applicant, and fails to provide written notice of the necessity of additional time, the applicant may submit a written

notification to the Department requesting that any comments be provided within thirty (30) days.]

§ 24-10 Notification.

a. Discovery of a petroleum spill or the discharge of other contaminants on a tax lot(s) for which reporting requirements have been established by federal, state or local law, regulation, or rule must be reported by the applicant in accordance with such [applicable Federal, State or local] law[s], regulation, or rule.

b. Discovery of evidence of "reportable quantities" of hazardous materials or hazardous wastes by the Department and/or the applicant on a tax lot(s) that pose a potential or actual significant threat to public health or the environment under [Federal, State] federal, state, or local [guidelines] law, regulation, or rule, must be reported by the applicant in accordance with such [applicable Federal, State or local laws] law, regulation, or rule.

§2. Chapter 24 of Title 15 of the Rules of the City of New York is amended by adding a new section 24-12 to read as follows:

§ 24-12 Air Quality and Noise (E) Designations.

a. Placement of Air Quality and Noise (E) Designations. The Lead Agency may place Air Quality (E) Designations and Noise (E) Designations on real property as a result of an environmental review of a Zoning Amendment or Zoning Action.

(1) An Air Quality (E) Designation is placed on Development Sites that are not publicly owned, that have the potential to be developed as a consequence of the Zoning Amendment or Zoning Action, and that have been identified by the environmental review as having the potential to contribute to or experience a significant adverse air quality impact related to HVAC systems emissions or industrial or other source emissions.

(2) A Noise (E) Designation may be placed on tax lots that are not publicly owned, that have the potential to be developed as a consequence of the Zoning Amendment or Zoning Action, and that have been identified by the environmental review as having the potential to experience significant adverse noise impacts.

b. Remedial Action Plan for Air Quality and Noise (E) Designations.

(1) To address an Air Quality (E) Designation or a Noise (E) Designation, an applicant must submit a Remedial Action Plan to OER.

(2) The Remedial Action Plan must include a certification by a registered architect that all architectural plans and associated specifications and designs, or a certification by a professional engineer that all engineering plans and associated specifications and designs, included in the Remedial Action Plan:

(i) Have been personally developed by the registered architect or professional engineer or under the registered architect's or professional engineer's direct supervision; and

(ii) Achieve the requirements mandated by the (E) Designation to achieve protection of public health and the environment.

(3) The certifying professional engineer and/or registered architect must:

(i) Be licensed in the State of New York;

(ii) Affix his/her professional engineer or registered architect stamp to the certification; and

(iii) Include his/her New York State professional engineer/registered architect license number on the certification.

(4) OER will review the Remedial Action Plan to determine if it achieves the specific requirements established for the tax lot by the Lead Agency.

(5) When a Project Site encompasses more than one tax lot, and at least one, but not all, of the lots has an Air Quality or Noise (E) Designation or an Environmental Restrictive Declaration, the environmental requirements will apply to the entire Project Site, unless the applicant demonstrates to OER's satisfaction that application of the environmental requirements to the entire Project Site is not warranted.

(6) When a Project Site encompasses a portion of a lot which has an Air Quality or Noise (E) Designation or an Environmental Restrictive Declaration, the environmental requirements will apply to all portions of the lot, unless the applicant demonstrates to OER's satisfaction that application of the environmental requirements to a portion of the Project Site is not warranted.

(7) Modification of Environmental Requirements. When a proposed Development cannot satisfy the Air Quality or Noise (E) Designation for a tax lot(s), the owner of the tax lot(s) may apply to OER for a modification of the environmental requirements as described in a

CEQR Determination based upon new information or technology, additional facts or updated standards, as applicable, provided such modifications are equally protective of public health and the environment. With the consent of the Lead Agency, OER may modify the environmental requirements described in a CEQR Determination provided that such modifications are equally protective of public health and the environment. Specific modifications include, but are not limited to:

(i) Placement of an exhaust stack where a tax lot's dimensions lack sufficient depth to locate the stack according to the (E) Designation requirements.

(a) The applicant must submit a study showing that the proposed stack location is as protective to public health and the environment as required by the (E) Designation. The study must be based on the same level of analysis used in the associated Environmental Assessment Statement or Environmental Impact Statement.

(ii) Modification of a Window/Wall Attenuation mandated by an Noise (E) Designation.

(a) The applicant must conduct a 24-hour noise monitoring test of the lot to record in dBA the Leq(1), L10(1), and the Ldn Noise Descriptors.

(b) The applicant must submit its Noise Monitoring Protocol to OER for review and approval before starting any testing.

(c) Where applicable, the Noise Descriptors must be projected to the Full Build Year of the relevant Zoning Amendment or Zoning Action, according to the same methodology used in the environmental review from which the (E) Designation was assigned.

(d) Following a 24-hour noise monitoring test, the applicant must submit to OER a report summarizing the results of the test and include in its Remedial Action Plan all documents generated by the 24-hour noise monitoring study.

(e) OER will evaluate the test results based on the (E) Designation requirements and the values and guidance found in the CEQR Technical Manual. If the results satisfy the CEQR Technical Manual, OER will agree to modify the Window/Wall Attenuation as described in the lot's Noise (E) Designation.

c. Implementation of the Remedial Action Plan for Air Quality and Noise (E) Designations.

(1) After OER has reviewed and approved a Remedial Action Plan for an Air Quality or Noise (E) Designation, OER will issue a notice to proceed recommending that DOB issue the permit necessary for the applicant to carry out the approved remediation. However, the applicant must not accept a temporary certificate of occupancy or a or certificate of occupancy from DOB for any Development until OER issues a notice of no objection authorizing issuance of a temporary certificate of occupancy only or a notice of satisfaction in accordance with subdivision d of this section.

(2) Once the Remedial Action Plan is approved, an applicant must carry out the remediation in its entirety without any omissions, changes, or deviations. Any changes to an approved Remedial Action Plan must be submitted with appropriate documentation to OER for its approval before an applicant implements the changes.

(3) OER has the right to inspect any tax lot(s) subject to remediation according to this section, and the applicant must allow any such inspection by OER.

d. Completion of the Remedial Action Plan.

(1) Following implementation of the OER-approved Remedial Action Plan, the applicant must submit an Installation Report certified by a professional engineer or a registered architect to OER in a form satisfactory to OER.

(2) The Installation Report must document that the remedial activities contained in the OER-approved Remedial Action Plan have been implemented in compliance with the Remedial Action Plan and satisfy the (E) Designation.

(3) Upon review and approval of the certified Installation Report, OER will issue a notice of satisfaction authorizing DOB to issue a certificate of occupancy or, where circumstances warrant, OER will issue a notice of no objection for a temporary certificate of occupancy.

Office of Environmental Remediation

INSTRUCTIONS
PROJECT SUBMITTAL COVER SHEET

E-DESIGNATION AND RESTRICTIVE DECLARATION PROGRAM

PROJECT TRACKING NUMBERS

1a. **OER Project Number:** The OER project number refers to the project tracking number assigned by the Office of Environmental Remediation (OER) after the first project documents have been received by OER (i.e., 10EHAZ000M). Once issued, the project number should be referenced in all documents.

1b. **DEP Project Number:** The DEP project number refers to projects previously reviewed by NYC Department of Environmental Protection (DEP) and assigned a DEP project tracking number (i.e., 08DEPTECH000X). DEP project numbers typically have the DEPTECH or DEP identifier.

1c. **Department of Buildings Job Number(s):** Provide any related Department of Buildings Job/Application Numbers that pertain to a specific action for this project site.
To access your property profile information from the Buildings Information System (BIS), visit the Department of Buildings (DOB) website at:

http://a810-bisweb.nyc.gov/bisweb/bispi00.jsp

1d. **Other Reference Number(s):** Provide any relevant project numbers associated with the project site (i.e. NYS Department of Environmental Conservation SPILL number, State or City Brownfield project number, etc.).

PROJECT LOCATION

LOCATION OF PROJECT SITE

2a. **Project Name:** Provide project name if relevant.

2b. **Project Address:** Provide the primary street address as well as any other alternative addresses for the project site.

2c. **Tax Block, Lot and Community District:** Provide all applicable Tax Block(s) and Lot(s) and the Community District for the project site. If there are multiple Tax Block(s) and/or Lot(s) please list all.

If you do not know your Tax Block(s), Lot(s) or Community District, you can retrieve the information using the GeoQuery Address Translator on the Department of City Planning homepage at http://gis.nyc.gov/dcp/at/f1.jsp.

REVIEW TYPE

REVIEW REQUIRED FOR THE SUBMITTED DOCUMENTS

3. **Type of Environmental Review:** Applicants must indicate the type of review required (E-Designation or Restrictive Declaration) for the submitted documents.

- E-Designation

  An E-Designation is a NYC zoning map designation that indicates the presence of an environmental requirement pertaining to potential Hazardous Materials contamination, Window/Wall Noise Attenuation, or Air Quality impacts on a particular tax lot. E-Designations are established on the Zoning Map by the Department of City Planning (DCP) and City Council as a part of a zoning change/action.

  The type of E-Designation on a property (Hazardous Materials, Air Quality and/or Window/Wall Noise Attenuation) and the assigned "E" number can be determined by reviewing the Official list of adopted E-Designations, searchable by Tax Block and Lot, located at the Department of City Planning's website at:

  www.nyc.gov/html/dcp/pdf/zone/ceqr.pdf

  *A digital copy of the corresponding page(s) from the adopted "E" designation list pertaining to the project site should be submitted with all initial project submittals.

Cont' on next page

- Restrictive Declaration

  A Lead City Agency may accept the recording of a Restrictive Declaration (RD) as an Institutional Control on a property in order to allow a zoning/variance action to be certified. The RD acts by binding the owner to investigate and remediate after the zoning/variance action is certified. The 13 digit CRFN number is the City Register File Number which appears on the recorded RD cover page along with the recording date indicated in the lower right hand corner near the City Seal.

  To obtain specific property information and/or a copy of a Recorded Restrictive Declaration on a specific Tax Block and Lot, visit the Department of Finance website for the ACRIS online city register at:

  http://www.nyc.gov/html/dof/html/jump/acris.shtml

*A digital copy of the recorded Restrictive Declaration for the project site should be submitted with all initial project submittals.

DOCUMENTS SUBMITTED

4. **Type of Document:** Select the appropriate checkbox(s) for the document(s) being submitted for review.

PROJECT DESCRIPTION
AS PER ARCHITECT / ENGINEER OF RECORD

5. **Project Description:** Provide a brief description of the proposed project as per the Architect / Engineer of Record. The description should include, at a minimum, the type of alteration or new development/expansion being performed, extent of ground/soil disturbance, proposed grade-level open spaces areas not capped with concrete or asphalt, etc. Detailed project descriptions should be provided in reports.

CONTACT INFORMATION

6. **Contact Information:** Fill in the primary contact information and type (i.e. environmental consultant, architect, engineer, etc.) and any other applicable parties involved in the development project.

PROFESSIONAL CERTIFICATION
FOR PROJECT ELEMENTS REQUIRING CERTIFICATION BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (PE) OR REGISTERED ARCHITECT (RA)

7. **Certification of Documents Submitted to OER:** For project elements requiring the stamp and signature of a certified professional (New York State Licensed Professional Engineer (PE) or Registered Architect (RA)), applicants must do the following:

(i) Include scans of stamped and signed elements, and
(ii) Include a hard copy of the cover letter with the original stamp and signature for the respective stamps and signatures in the digital submission.

OER requires the original stamp and signature for all certified elements.

SUBMISSIONS
WHERE TO SEND

Submission of Documents:

Digital project submittals and cover sheet should be sent to:

Mayor's Office of Environmental Remediation
E-Designation Program
c/o Dan Cole, Bureau Chief
100 Gold Street, 2nd Floor
New York, NY 10038

The completed cover sheet should be submitted via hard copy as well as digitally.

OER reserves 30 days for review of all submissions.

If you have a question regarding the E-designation program or a project submission, email us at edesignation@dep.nyc.gov or call us at 212-788-8841.

Hazardous Materials

Chapter 12

For hazardous materials, the goal for CEQR is to determine whether the proposed project may increase the exposure of people or the environment to hazardous materials, and, if so, whether this increased exposure would result in potential significant public health or environmental impacts. If significant adverse impacts are identified, CEQR requires that the impacts be disclosed and mitigated or avoided to the greatest extent practicable.

As mentioned throughout the Manual, it is important for an applicant to work closely with the lead agency during the entire environmental review process. In addition, the New York City Department of Environmental Protection (DEP) often works with the lead agency during the CEQR process to provide technical review, recommendations and approval relating to hazardous materials. When the review identifies the need for long-term measures to be incorporated after CEQR (prior to or during development), the lead agency, in coordination with DEP, determines whether an institutional control (discussed in more detail in Sections 550 through 552), such as an (E) Designation, may be placed on the affected site. The Mayor's Office of Environmental Remediation (OER) has the authority and responsibility for administering (E) Designations and existing hazardous materials Restrictive Declarations recorded on privately-owned parcels as a result of zoning and/or variance actions approvals, pursuant to Section 11-15 (Environmental Requirements) of the Zoning Resolution of the City of New York and Chapter 24 of Title 15 of the Rules of the City of New York.

100. Definitions

110. HAZARDOUS MATERIALS

A hazardous material is any substance that poses a threat to human health or the environment. Substances that may be of concern include, but are not limited to, the following:

HEAVY METALS. These include lead, cadmium, mercury, arsenic, chromium, *etc.*, that are used in smelters, foundries, platers, and metal works, and may be components in paint, ink, petroleum products, and coal ash. Heavy metals may be toxic to humans and cause serious physical impairment.

VOLATILE ORGANIC COMPOUNDS (VOCS). These include aromatic compounds, such as benzene, toluene, ethylbenzene, and total xylenes (BTEX), as well as methyl tertiary butyl ether (MTBE), that are found in many petroleum products; aliphatic compounds such as hexane; and chlorinated compounds, such as trichloroethylene (TCE) and tetrachloroethylene (PCE), that are commonly used as solvents and cleaners. VOC vapors may be toxic, and under certain conditions may result in vapor intrusion, and potentially lead to explosive or ignitable conditions.

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS). These include phenols and other components of creosote and coal tar, as well as polycyclic aromatic hydrocarbons (PAHs), that may be naturally occurring but are more commonly found at higher levels in combustion byproducts such as ash. Several PAHs are either known to be or suspected to be carcinogenic.

METHANE. This is generated by decomposing plants and other organic materials. Often found in or near filled wetland areas, methane trapped beneath foundations may lead to explosions.

POLYCHLORINATED BIPHENYLS (PCBS). Formerly used in electrical equipment and as a plasticizer, PCBs bioaccumulate in aquatic organisms and humans and may cause a variety of neurological and other adverse effects.

PESTICIDES. Substances or a mixture of substances used to destroy or mitigate insects, rodents, fungi, weeds or other plant life. Many pesticides are toxic to humans and animals.

POLYCHLORINATED DIBENZODIOXINS AND DIBENZOFURANS (COMMONLY REFERRED TO AS DIOXINS). These are or were generally formed as byproducts of combustion or manufacturing and industrial processing.

HAZARDOUS WASTES. These are defined by regulations promulgated under the Federal Resource Conservation and Recovery Act and New York State Department of Environmental Conservation, found at 6 NYCRR Part 371, as solid wastes that either meet one of four characteristics (chemically reactive, ignitable, corrosive, or toxic) with respect to defined test methods or are listed in one of following: 1) a generic list of chemicals that are hazardous regardless of the source that produces them; 2) a list of wastes from specific industrial sources; and 3) a list of chemicals that are deemed hazardous wastes if they are discarded or intended to be discarded rather than used as intended. There are slight differences between the state and federal regulations.

Other less commonly encountered hazardous materials include radionuclides (*e.g.*, radiation sources) and biological wastes (*e.g.*, medical waste). When these are managed in accordance with applicable regulatory requirements (*e.g.*, in a hospital or laboratory setting), they would not be expected to be associated with adverse effects. However, when evidence is found that they have been abandoned or are otherwise mismanaged, the appropriate regulatory agencies (*i.e.*, DEP, the New York City Department of Health and Mental Hygiene (DOHMH), New York State Department of Health (NYSDOH), New York State Department of Environmental Conservation (NYSDEC), the United States Environmental Protection Agency (EPA), or the Nuclear Regulatory Commission (NRC)) should be contacted for additional guidance.

120. SITES OF CONCERN

Many sites in urban areas contain soil and/or ground water that are known to be or may be contaminated. However, the presence of hazardous materials on a site may not be obvious. Sites that appear to have no apparent impacts and have no commonly known sources of contamination may have been affected by past uses either on the site or in the surrounding area. Many activities use hazardous materials, and many past waste management practices that were once commonplace are now considered unacceptable.

The presence or likely presence of any hazardous substance or petroleum products on a site under conditions that indicate an existing release, past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property is known as a Recognized Environmental Condition, as defined by the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (ESA): Phase I ESA Process (ASTM E-1527), currently ASTM E-1527-05. A Recognized Environmental Condition (REC) should be disclosed under CEQR. Examples of RECs include contaminants spilling or leaking into the soil or ground water, dispersed in the soil vapor, indoor or ambient air, or contained in fugitive dust. Hazardous materials may contaminate a site in several ways:

- They may be present in the soil, ground water, soil vapor, or buildings and structures on-site as the residue of past or current activities. Manufacturing processes and commercial activities typically utilize, and thus require storage and handling of, hazardous materials.
- They may have been imported to a site as fill or grading material over the years. It is not uncommon to find elevated levels of hazardous materials in fill of unknown origin, also known as “historic fill,” where the past and current activities do not suggest these types of materials were used. This is especially true for properties that are adjacent to waterways where, historically, large amounts of fill material have been used as part of urban development.

- They may migrate to the site from off-site areas as a result of soils impacted by an upgradient source through local ground water flow or migrating soil vapor. For example a site may be of concern if hazardous materials migrated to the site from a leaking underground storage tank nearby.
- They may be incorporated in on-site buildings and structures; examples are lead in paints or asbestos in insulation, tiling, caulking, roofing materials, or electrical components.

130. POSSIBLE EXPOSURE

The presence of hazardous materials on a given site is likely to threaten human health or the environment if exposure to those materials occurs. Potential routes of exposure to hazardous materials can include: direct contact, *e.g.*, between contaminated soil and skin (dermal contact); breathing of VOCs or chemicals associated with suspended soil particles (inhalation), swallowing soil or water (ingestion). Public health may also be threatened when soil vapors migrate through the subsurface and/or along preferential pathways (*e.g.*, building foundations, utility conduits, or duct work) and accumulate beneath a concrete slab or inside a basement, resulting in an explosive, oxygen-deficient, or hazardous atmosphere.

Activities that can lead to increased exposure include the following:

- Introducing a new population to an existing building or site containing hazardous materials.
- Conversion of buildings from industrial or commercial to residential uses.
- Investigation activities on a contaminated site.
- Excavation, dewatering, grading, or other construction activities on a contaminated site.
- Construction activities in existing buildings that disturb the building slab and sub-surface soils.
- Construction or maintenance activities on unimproved/landscaped areas that disturb sub-surface soils.
- Creation of fugitive dust from exposed soil containing hazardous materials.
- Demolition of buildings and structures that include hazardous materials.
- Introduction of new activities or processes that use hazardous materials.
- Building on former landfills or filled swampland where methane is present or will be produced.

The circumstances under which potential exposure may occur as a result of a proposed project determine the manner in which hazardous material impacts are assessed for CEQR.

200. DETERMINING WHETHER A HAZARDOUS MATERIALS ASSESSMENT IS APPROPRIATE

The potential for significant impacts related to hazardous materials can occur when: a) elevated levels of hazardous materials exist on a site and the project would increase pathways to human or environmental exposure; b) a project would introduce new activities or processes using hazardous materials and the risk of human or environmental exposure is increased; or c) the project would introduce a population to potential human or environmental exposure from off-site sources. If all these elements can be ruled out, then no further analysis is necessary.

The following circumstances are examples of projects where a hazardous materials assessment is warranted:

- Rezoning (or other discretionary approvals such as a variance) allowing commercial or residential uses in an area currently or previously zoned for manufacturing uses.
- Construction requiring soil disturbance in a manufacturing zone.
- Development within close proximity to a manufacturing zone or existing facilities (including nonconforming uses) listed in the Hazardous Materials Appendix ("the Appendix").

- Rezoning to a residential or mixed-use district, if the area may have historically stored, used, disposed of, or generated hazardous materials, such as an area in a C8 zoning district.
- Development on a vacant or underutilized site if there is a reason to suspect contamination, illegal dumping, or historic/urban fill.
- Renovation of interior existing space on a site with potential vapor intrusion from on-site or off-site sources; compromised indoor air quality; or the presence of asbestos, PCBs, mercury, or lead-based paint.
- Development in an area with fill material of unknown origin. Fill material historically used in New York City includes dredged material that may contain petroleum, heavy metal, or PCB contamination and ash from the historical burning of garbage. In addition, former wetland areas or areas with fill material containing organic wastes may produce methane.
- Development on or near a government-listed or voluntary clean-up/brownfield site (*e.g.* solid waste landfill site, inactive hazardous waste site, NYSDEC Brownfield Cleanup Program or Local Brownfield Cleanup Program site), current or former power generating/transmitting facilities, municipal incinerators, coal gasification or gas storage sites, or railroad tracks/rights-of-way.
- Development where underground and/or aboveground storage tanks (USTs or ASTs) are (or were) located on or near the site.

A list of facilities, activities or conditions that warrant further assessment regarding the potential for hazardous materials is found in the Appendix. Sites that have been potentially affected by the presence of existing or historical land uses involving hazardous materials, including those not contained in the Appendix, should be examined further to evaluate possible exposure pathways and potential impacts on public health or the environment. As described in greater detail in the following sections, evaluation of a site for hazardous materials concerns should generally include a Phase I Environmental Site Assessment (ESA) in accordance with the most recent ASTM E-1527 Standard, and, if appropriate, a Phase II ESA in accordance with ASTM E-1903, including physical sampling of media (*e.g.*, soil, ground water and soil gas) on the site of concern. If potential hazardous materials impacts are identified, mitigation and/or remediation in accordance with a Remedial Action Plan (RAP) would be required. In cases where the site is listed in the Appendix and sufficient site history is known, the site owner may elect not to complete a Phase I ESA described in Section 320 and proceed directly to a Phase II ESA as described in Section 330. In most cases, however, knowledge of the site history is not sufficient and completion of a Phase I ESA is strongly recommended.

300. ASSESSMENT METHODS

The hazardous materials assessment generally begins with a Phase I ESA, which is a qualitative evaluation of the environmental conditions present at a site, based on a review of available information, site observations, and interviews. As outlined in Section 320 below, the Phase I ESA is conducted in accordance with the standards established by the current ASTM Phase I ESA Standard and includes research and field observations (but typically not subsurface or building testing results) to determine whether the site may contain contamination from either past or present activities on the site or as a result of activities on adjacent or nearby properties. If a potential REC is identified during this assessment, then building and subsurface investigations are usually conducted as part of a Phase II ESA to confirm the presence and extent of the contamination.

Whenever possible, the Phase I and Phase II ESA should reference and take into account proposed project plans to the extent they are known. For example, during the performance of the Phase I ESA, it may be sufficient to know that the existing building is to be demolished and excavation required, whereas, when preparing the Phase II ESA Work Plan, excavation depth(s) and the proposed conceptual foundation design may be necessary to define the appropriate investigation scope. Therefore, project plans (whether conceptual or final) should be referenced in, and attached to, the Phase II ESA Work Plan and any subsequent reports.

310. STUDY AREA

The first step in any hazardous materials assessment is to establish the study area. The project site and any associated excavation areas (*e.g.*, for utilities, elevator pits, foundations) comprise the focus of the study area, but the area of study should also include any other areas that might have affected or may currently affect the project site. Usually in heavily urbanized settings, other areas include the adjacent properties and, at a minimum, properties within 400 feet of the project site. Regulatory database searches should be performed per the ASTM Phase I ESA Standard.

For the soil, ground water, or soil gas investigations associated with a Phase II ESA (discussed below in Section 330), the study area is typically limited to the project site itself. On a site, this sampling focuses on areas that have higher potential for (a) contamination, based on the results of the Phase I ESA; or (b) enhanced exposure pathways, based on the Phase I ESA and the activities that would be associated with the proposed project. For example, the scope of the Phase II ESA Work Plan for a project involving conversion of an existing building to a new use would likely have limited overlap with a project at the same site involving demolition that is followed by excavation for a new building with a cellar, basement, or multi-level basement.

320. PHASE I ENVIRONMENTAL SITE ASSESSMENT

The current ASTM Phase I ESA Standard should be consulted for the general scope of the qualitative Phase I ESA. For some proposed projects (*e.g.*, area-wide rezonings), portions of the scope, such as site inspections, may not be possible. For other projects, such as zoning text amendments or other generic actions, actual affected sites may be unknown, and the analysis should consider what the potential impacts would be for a variety of different types of sites (see Section 400, below). Generally, Phase I ESAs should be no more than six months old when submitted as part of CEQR documentation. If more than six months old, the Phase I ESA should be updated with current regulatory database and site reconnaissance information. This may not be necessary if an adequate Phase II ESA will be performed to confirm the presence or absence of contamination. In addition to the ASTM Phase I ESA Standard, additional sources of information that are specific to New York City may assist in preparation of Phase I ESAs. These can be found in Section 731, "Sources of Data to Supplement ASTM Standards."

321. Assessment, Conclusions and Reporting

To identify and evaluate potential RECs at a project site, a Phase I ESA should be conducted. The Phase I ESA report typically includes the following kinds of information:

- Site and neighboring properties' history, including required ASTM searches.
- Interviews with past and present owners and occupants.
- Surface and subsurface drainage patterns or infrastructure.
- Site reconnaissance findings.
- Federal, state, and local regulatory agency list review findings.
- Potential impacts from nearby sites, such as landfills, NPL sites, BCP sites, surface impoundments, ASTs, USTs, leaking USTs (LUSTs) of unknown status, *etc.*
- On-site concerns, such as ASTs, USTs, LUSTs of unknown status, dumping of hazardous materials, PCBs, *etc.*
- Previous environmental reports or sampling and analytical data.
- Discussion of the results of the Phase I ESA in the context of the proposed project.
- Recommendations for additional actions, if any.

Based on the findings of the Phase I ESA, or a recognition that existing or historical uses at the site have included those listed in the Appendix, the applicant should assess the potential for hazardous materials on the project site. In general, hazardous materials may be potential RECs if any of the following have occurred:

- Past or present uses on the site or in the surrounding area used or use hazardous materials.
- The site or surrounding area includes locations listed in federal, state or local regulatory agency records, and known and/or potential RECs have not been rectified.
- Past or present surrounding uses are a concern and the site is downgradient in terms of ground water flow or topographically from those uses. Qualitative assessments of ground water depth and flow direction should not be used exclusive of other available data.
- The proposed project may create the potential for hazardous materials migration (*e.g.*, due to excavation and/or dewatering).
- If records indicate that the site has been filled and the nature and extent of the fill is unknown.

The conclusions of a Phase I ESA should be made by a qualified environmental professional. The credentials of the qualified environmental professional should be included in the Phase I ESA report. As defined by the 2002 Brownfields Amendments to CERCLA, a qualified environmental professional is someone who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to a property, sufficient to meet the objectives and performance factors of the rule. In addition, an environmental professional must have:

- A state or tribal issued certification or license and three years of relevant full-time work experience;
- A baccalaureate degree or higher in science or engineering and five years of relevant full-time work experience; or
- Ten years of relevant full-time work experience.

The conclusions of this assessment can fall into the following categories:

- There is little or no likelihood of contamination, and therefore, there would be no significant adverse impacts resulting from hazardous materials, and no further investigation is warranted. Note that a Phase I ESA cannot entirely eliminate uncertainty regarding the potential for hazardous materials or a REC in connection with a property. Therefore, the preparer and reviewer must make certain that all due diligence measures have been undertaken before concluding that no potential adverse impact could occur.
- Contamination may exist or is known to exist. More work is required to determine nature and extent of the contamination so that the potential for significant adverse impacts can be fully disclosed and mitigation developed, as appropriate. A Phase II ESA (described in Section 330) should be performed to determine the nature and extent of any contamination. At this point, it is strongly recommended that DEP be contacted.

The Phase I ESA should be summarized as part of the CEQR documentation, including a description of the scope of work, research and activities undertaken, findings, and conclusions.

330. PHASE II ENVIRONMENTAL SITE ASSESSMENT

Prior to conducting a Phase II ESA, a Work Plan should be prepared that details the proposed soil, ground water or soil gas scope of work. A Work Plan for the Phase II ESA should include three major elements described in greater detail below: (1) an analytical plan that addresses the types of sampling and rationale for the approach, along with the investigative, sampling, and laboratory analysis methods to be used; (2) a Health and Safety Plan (HASP)

(see Section 332) for personnel undertaking the work; and (3) a quality assurance and quality control plan for the acquisition, handling, and analysis of samples taken. The Phase II Investigative Work Plan and HASP should be submitted to DEP for review and approval to insure that the investigation conducted satisfies the requirement of the CEQR process. A standard guide for Phase II ESAs has been developed by ASTM (ASTM E 1903) that can be used as a framework for developing the scope of work for the assessment activities. In some cases, depending on the potential contaminants and the surface and subsurface drainage patterns on the site, it is advisable to conduct a physical investigation of the soil, ground water or soil gas on an adjacent property with appropriate access approvals.

Sites should be thoroughly characterized to: (1) document contaminant levels; (2) ensure that all potential exposure pathways to on-site and off-site receptors have been addressed; and (3) ensure public and worker health and safety during remedial activities and construction. The items below present guidance on the type and level of effort required to adequately characterize a site during a Phase II ESA.

- A geophysical survey through a ground penetrating radar (GPR) investigation with confirmatory test pits (if warranted) should be conducted in areas where buried tanks, drums, or other subsurface conditions are suspected to be present based upon a review of the site history, regulatory databases, and/or other documentation/reports, but are not evident at grade. A GPR survey may also be warranted if extensive fill exists at a site with limited historic information.
- In general, evenly spaced test borings spread across the entire site should be advanced to the proposed excavation depth(s) as well as the water table to adequately characterize a site during a Phase II investigation. The test boring locations may be biased towards identified RECs and are usually situated on-site. They may also be located off-site with appropriate authorizations.
- At a minimum, one test boring should be advanced in each identified REC (as per the Phase I ESA findings) and focused on the locations where the greatest contamination is suspected. These areas could include, but are not limited to petroleum or hazardous material storage areas; drywells or leach fields/pools; dry cleaning areas; stained soil or stressed vegetation areas; industrial/manufacturing processing areas; and areas where on-site contamination from off-site sources is suspected.
- To adequately characterize UST areas, a minimum of two test borings should be advanced per tank cluster. Test borings should be advanced within two feet of the tanks, if possible, and to a minimum depth of five feet below the tank invert for the collection of representative soil samples. In the event that any leaking tanks are identified at the site during the Phase II ESA, NYSDEC DER-10 guidance should be followed.
- Test borings should be advanced at least to the proposed excavation depth for future on-site structures or depth of RECs.
- In general, two soil samples should be collected from each test boring/probe, and the samples should be focused on any sections exhibiting evidence of contamination based on field screening. One surface soil sample should be collected from the upper two feet of soil (typically the 0-2 feet bgs interval) and one subsurface soil sample between 2 feet bgs to the maximum proposed excavation depth (based on visual/olfactory evidence of impacts and/or elevated soil screening readings obtained using accepted field instruments). If no evidence or elevated readings are noted during borehole advancement, the subsurface soil sample should be collected from the two foot interval below the proposed maximum excavation depth(s) and/or the ground water interface (whichever is encountered first). If ground water is encountered in a test boring/probe within five feet of surface grade, only one soil sample per boring may be warranted as long as adequate upgradient and downgradient ground water samples are collected.
- Where the water table is less than 30 feet beneath the deepest level of existing or proposed on-site basement or slab-on-grade foundation, ground water samples should be collected for laboratory analysis. Ground water samples should be collected within the areas of concern and to intercept potential migration from off-site sources. Depending on the Phase I ESA findings, as well as known regional ground water or

soil vapor contamination, collection of ground water samples may be warranted at depths ranging from 30 to 100 feet below the deepest structural elevation of the proposed structure. It is recommended that ground water samples be collected to adequately characterize the site.

- Soil, ground water and soil gas sample collection methods are described in Subsection 331.2.
- Unless contamination is known to be limited to specific compounds, soil and ground water samples should be analyzed for Full List volatile organic compounds (VOCs) with Methyl tert-butyl ether (MTBE) by EPA Method 8260B, semivolatile organic compounds (SVOCs) by EPA Method 8270C, polychlorinated biphenyls (PCBs) by EPA Method 8082, pesticides by EPA method 8081A, and Target Analyte list (TAL) metals by EPA Method 6020 at a NYSDOH-ELAP (Environmental Laboratory Approval Program) certified laboratory. Soil gas, sub-slab soil gas and indoor air samples should be analyzed for VOCs by EPA Method TO-15 at a NYSDOHELAP-certified laboratory. If ELAP certification is not available, certification by other agencies and/or organizations is recommended. Additional analyses may be warranted if the type of contamination suspected cannot be adequately characterized by these analyses. NYSDOH Category B Deliverables are not required for CEQR. However, specific levels of quality control deliverables may be required for some projects using grant money, for legal defense, or if the analysis must comply with requirements of other agencies.
- Where the potential for vapor intrusion from ground water or soil above the water table is suspected based on the identified RECs such as LUSTs, petroleum spills, chlorinated compounds, *etc.*, located at or near the site, the NYSDOH's October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York should be used as a guidance tool to design an appropriate vapor intrusion study at the site. The NYSDOH 2006 guidance document provides evaluation methods for existing buildings undergoing change of use and/or renovations, as well as general site investigation protocols applicable to any building scenario. An example is the renovation of a building formerly occupied by a dry-cleaning facility. In some instances it may also be necessary to collect and analyze soil gas, sub-slab soil vapor, indoor air, and/or ambient air samples.

In the process of performing the Phase II ESA described in the following sections, immediate notification(s) to NYSDEC, NYCDEP, and/or USEPA may be required if:

- Discovery of a petroleum spill or "reportable quantity" hazardous substance discharge must be reported in accordance with applicable federal, state and local laws.
- Discovery or evidence of hazardous materials that pose a potential or actual significant threat to public health or the environment that must be reported in accordance with applicable federal, state or local laws.

When possible, the Phase II ESA should be conducted before a determination of significance is made at the EAS stage or, if a positive declaration is being issued, before the DEIS is completed.

331. Phase II ESA Work Plan

The Phase II ESA Work Plan should include an analytical plan, which describes the site investigation appropriate to find and identify the type and extent of contamination that may be present. In general, a single phase of analytical work is conducted, although completing the work in stages may be necessary as a result of access limitations.

The Work Plan should specify the proposed number and locations of test borings on a site map; boring depths for collection of representative soil, ground water, and soil gas samples; well specifications; split-spoon or macro core sampling intervals and how representative samples will be selected for laboratory sampling; organic vapor screening (using, for example, a photo-ionization device or PID) and soil description methods (as conducted by a professional geologist or qualified environmental personnel); potential aquifer permeability testing or determination; well development techniques; handling and disposal of borehole cuttings and well development water; and methods of determining the ground water depth/elevation, *etc.* The Work Plan should include site development plans with (at a minimum) maximum soil excavation depths/elevations for

basements, footings, sub-surface utilities, elevator pits, *etc.*, as well as any proposed grade-level yard, courtyard, parking, or grass/landscaped areas.

The Work Plan should be tailored to the proposed project. Sampling should typically be performed, at a minimum, to the depth of the project excavation and generally deeper, where the potential for subsurface soils, ground water, and/or soil vapor impacts have been identified. The potential for vapor intrusion should be assumed where on-site/off-site VOC-contaminated ground water is likely located within 30 feet, vertically or horizontally, below an occupied building foundation. When chlorinated VOCs have been identified in the soil vapor, the potential for vapor intrusion may warrant investigation at depths ranging from 30 to 100 feet, vertically or horizontally, below an occupied building foundation.

331.1. Elements of the Work Plan

All Phase II ESA Work Plans consist of the investigation work plan (described above) and sample analysis (described in 331.2). However, not all elements listed below are necessary for all projects.

GEOPHYSICAL SURVEY

If recommended by the Phase I ESA, a geophysical survey may be undertaken to help locate buried metallic objects or material, characterize the subsurface conditions and geology, identify sub-surface utility infrastructure, or determine the presence or extent of a groundwater contaminant plume. Typical geophysical tools and techniques may include magnetometers (to test for buried metal, such as tanks or drums), ground-penetrating radar, ground conductivity surveys, and seismic refraction/reflection surveys. Limits on geophysical techniques can include cost and the presence of interference structures, such as overhead electric wires or excessive subsurface metal (*e.g.*, reinforced concrete) or fill (such as demolition debris) that can produce anomalous readings and difficulty in interpretation of data. The primary goal of the geophysical survey is to guide subsequent fieldwork by aiding in the determination of optimum sampling locations at the site.

SOIL-GAS SURVEY

A soil-gas survey tests the unsaturated zone (soil area above the water table) for the presence of VOCs or methane. Typical volatile compounds include constituents in gasoline, such as, MTBE, BTEX compounds (benzene, toluene, ethylbenzene, and total xylenes), and industrial solvents, such as tetrachloroethylene (PCE) and trichloroethylene (TCE). These VOCs may persist from surface spills or leaking underground storage tanks, or may be diffusing upward into the unsaturated zone from deeper contaminated media, especially ground water. Soil gas sampling may be required in land-filled and/or swampy areas to determine whether methane gas is present. Accepted techniques (see NYSDOH's October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York) include the placement of a vapor sampling probe (usually a hollow steel rod with a slotted intake point) into the subsurface, purging the sampling system, and testing the effluent soil gas with field analytical equipment or collecting samples for laboratory analysis. The 2006 NYSDOH guidance document provides guidelines for sampling of soil vapor, sub-slab vapor, crawl space air, indoor air and outdoor air.

SHALLOW TEST PROBES

A large number of shallow soil samples can be collected in a relatively short time using direct push technology (DPT). This type of DPT probing is routinely done during first stage surveys to collect a number of preliminary soil samples to assist in the characterization of the site. This type of probe sampling is easier to maneuver and results in less site disturbance than a typical full sized drilling rig. Upon retrieval, the soil samples should be scanned using an organic vapor analyzer or other suitable field-screening equipment that has been properly calibrated. The field screening results should be noted on a test boring log, along with information regarding sample interval, soil description, relative moisture content, color, and any evidence of contamination (*e.g.*, odor, sheen). As appropriate, a limited number of soil samples can be selected for further analysis at a NYSDOH ELAP-certified labora-

tory. In certain cases, completion of the shallow soil probe investigation may be sufficient to characterize site concerns. Although this type of soil probe sampling relies heavily on dedicated sampling equipment, this equipment should be decontaminated between sampling locations to avoid cross contamination. Limitations of this type of soil probe sampling include limitations on depth (especially at sites with fill or boulders), limited sample volume, and inability to provide blow counts (standard penetration test).

SUBSURFACE EXCAVATIONS

Test pits and trenching allow for inspection and sampling of subsurface materials, equipment, and structures. Exposing the subsurface to inspection often reveals heterogeneity or other features that may have been missed by probe sampling. In certain situations where the area of concern is defined and relatively small in extent, excavation equipment can quickly assess subsurface conditions with a limited number of test pits. This is especially useful in determining composition of fill material or debris piles.

SURFACE SOIL AND WASTE SAMPLING

Sampling of surface soil or exposed wastes or other surfaces for contaminants is often conducted during first stage analyses. A large number of such samples can be quickly collected with very little disturbance to activities at the site. For example, if PCB transformers were noted in the initial assessment, a wipe sample and surface soil sample in those locations could be taken to determine whether the transformers had leaked PCBs. Areas where suspected wastes are exposed at the surface should also be sampled. Again, depending on the media sampled (liquid, solid, semi-solid, or mixed), the samples can be quickly collected with simple sampling tools, such as dedicated spoons or trowels. Special consideration and care should be exercised in conducting this type of sampling since any contaminants exposed at the surface provide a potential exposure pathway for persons occupying or working at the site.

SOIL AND GROUND WATER PROBE INVESTIGATIONS

During more detailed surveys and subsurface investigations at contaminated sites, DPT can be used to collect both soil and ground water samples from discrete depths by using 4-foot macro-core samplers and/or hydro-punch technology expandable screens. Although DPT ground water collection is possible, temporary small diameter PVC well points are preferred.

SOIL BORINGS AND MONITORING WELLS

Soil boring and monitoring well installations can be implemented at areas of concern identified in initial analyses. This is usually accomplished by mobilizing an environmental drilling rig at the site. Soil samples are generally obtained with a 2-foot split spoon sampler. For both ground water and subsurface soil, sampling depends on rig access to the site and the presence of underground and overhead utilities and right-of way issues. Soil samples may be obtained by other types of rigs or hand auguring if full size rig access is not available; however, this requires the subsurface to be penetrable, may only extend to limited depths, and does not allow for the determination of the ground water flow direction.

TESTING BUILDINGS AND STRUCTURES

It is common for building structures to contain hazardous materials. These materials could have been introduced as components of construction materials or discharged as a result of poor operational practices on the part of an industrial occupant. Appropriate sampling techniques depend on the material of concern and the location of the contamination in or on the building. Wipe samples, bulk samples, air samples, coring samples, or field measurements may be appropriate in different situations. Regulations governing demolition may apply.

Asbestos is a name applied to a group of natural minerals, with particularly good fire resistant and insulation properties. These minerals include chrysotile, amosite, crocidolite, actinolite, tremolite, and anthophyllite. In addition to insulation/fireproofing products, asbestos is also commonly found in roofing materials, floor tiles, vinyl flooring, gaskets, mastics, caulks, plaster, joint compound, ceiling tiles and a range of other building materials. Materials containing more than one percent asbestos are considered asbestos-containing materials (ACM). ACM are classified as friable or non-friable: friable ACM (*e.g.*, most spray-applied fireproofing and pipe/thermal insulation) more readily release asbestos fibers than non-friable ACM (*e.g.*, vinyl flooring and most roofing materials). Title 15 Chapter 1 of the Rules of the City of New York and New York State Industrial Code Rule 56 set out requirements for sampling and abatement of ACM.

Lead-based paint (LBP) was generally not allowed to be applied inside residential buildings after 1960 in New York City. After 1977, its use inside other buildings was also restricted and its use elsewhere became much less common, but LBP may still be used outdoors. LBP can present a hazard, particularly to children, and especially when it is in a deteriorating condition. Lead dust may be present in some structures and on some paved surfaces in building yards or surrounding streets. New York City's Local Law 1 of 2004 promulgated under the New York City Childhood Lead Poisoning Act of 2003, sets out requirements for testing and abatement of dwellings and child-occupied facilities, and USEPA certifies LBP evaluation and abatement firms.

Visible signs of staining, pooling, or discharge of waste material inside structures should be sampled based on the suspected material. For example, suspected PCB-containing surface stains are usually assessed by collecting wipe samples, which are then analyzed in a laboratory.

331.2. Sample Analysis and Analytical Methods

Samples collected pursuant to the investigation work plan are sent to a NYSDOH-ELAP certified laboratory for analysis. The laboratory analyses of environmental samples should be conducted according to the holding time and QA/QC requirements of the NYSDEC Analytical Services Protocol (ASP) unless superseded by newer guidelines.

Analytical methods for solid matrices are published in US EPA SW-846: Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, 3rd edition, (see the Appendix). The wastewater and drinking water analytical methods are provided by the US EPA Office of Water: EPA Methods and Guidelines for Analysis of Water (see the Appendix). Environmental samples should typically be analyzed for the Full List volatile organic compounds (VOCs) with Methyl tertbutyl ether (MTBE) by EPA Method 8260B, semivolatile organic compounds (SVOCs) by EPA Method 8270C, polychlorinated biphenyls (PCBs) by EPA Method 8081A, pesticides by EPA method 8082, and Target Analyte list (TAL) metals by EPA Method 6020. Or, for a modified list(s) of constituents from other regulatory entities, by methods appropriate for the project objective and acceptable to DEP. Sample collection and analytical methods for contaminants in air (*i.e.*, the vapor phase) are provided by the US EPA Center for Environmental Research Information: Office of Research and Development. Environmental samples should be collected and analyzed for the contaminants defined in *Compendium Method TO-15: Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS).*

For buildings and structures, paint samples may be analyzed for the presence of lead utilizing the EPA Method 7420 (Flame Atomic Absorption) or 7421 (Graphite Furnace Atomic Absorption), as appropriate. This can be supplemented by portable X-ray fluorescence to reduce the analytical burden. Wipe samples for PCB-containing surface stains are analyzed using EPA Method 8081. Asbestos samples must be sent to a laboratory accredited by the New York State Department of Health's Environmental Laboratory Approval Program (ELAP) and the National Voluntary Laboratory Accreditation Program (NVLAP), and analyzed by Polarized Light Microscopy (PLM) and Transmission Electron Mi-

croscopy (TEM), if appropriate, for asbestos type and percentage. If the site history or inspection indicates that other hazardous materials might be present, analyses for these materials should be conducted.

332. Health and Safety Plan

As part of the Phase II ESA Work Plan, surface and subsurface assessments must be conducted in a safe manner and in accordance with a site-specific Health and Safety Plan (HASP), established to protect the health and safety of both on-site personnel and the surrounding community. The HASP is prepared in accordance with the applicable U.S. Occupational Health and Safety Administration (OSHA) requirements under 29 CFR Part 1910.120. The intent of the HASP is to provide appropriate procedures to minimize the potential for injury or exposure to site contaminants during the assessment. The HASP must describe all of the potential hazards at the site and the methods to mitigate such hazards. Special attention must be given to the procedures to monitor for potential exposure and the various levels of protection required for tasks to be completed safely. The HASP may also describe site perimeter and/or community air monitoring that may be needed. The HASP should clearly note that prior to any type of intrusive investigation or sampling, subsurface utilities will be marked out to avoid possible injury to workers and the potential danger of damaging the utility. As a standard requirement, the HASP should include VOCs, SVOCs, Pesticides/PCBs, and Heavy Metals (specifically arsenic, lead and mercury) as potential chemicals of concern. All associated information fact sheets or Material Safety Data Sheets (MSDS) for these potential chemicals of concern should be included in the HASP.

333. Quality Assurance and Quality Control

The third major element of the Work Plan, a laboratory analytical program and proper field and laboratory Quality Assurance/Quality Control (QA/QC) regulatory procedures, must be developed before beginning fieldwork. This program establishes general sampling and QA/QC requirements for all sampling and laboratory analysis activities. Also referred to as a Quality Assurance Project Plan (QAPP), its main goal is to assure sample integrity from the field to the laboratory and that the proper laboratory analytical procedures and protocols are followed. The program should include sampling QA/QC protocols for all compounds sampled. It should describe sampling techniques and methods, including NYSDEC guidelines, to assure sampling integrity; field instrumentation calibration and maintenance procedures; decontamination procedures for all equipment; chain-of-custody procedures; sample preservation requirements; laboratory analytical procedures; laboratory equipment calibration and maintenance procedures; the experience and capabilities of personnel; and any other factors associated with obtaining, delivering, and analyzing samples. The plan should clearly document the procedures regarding decontamination of drilling and subsurface sampling equipment between sampling locations. The USEPA provides guidance in developing a QAPP, and references for these guidance documents are included in the Appendix.

340. CONCLUSIONS AND DOCUMENTATION

The final step of the Phase II ESA is to prepare a report documenting the following:

- Description of the site and surrounding area;
- The methodologies used (including any deviations from the Work Plan);
- Field activities;
- Compilation and tabulation of all analytical data (even if non-detectable concentrations are revealed);
- Description of the site hydrogeology;
- Interpretation of the analytical and site assessment data;
- Comparison to appropriate standards, criteria or guidance values; and

- Findings and recommendations.

The contents and format of the Phase II ESA Report should conform as closely as possible to the guidelines in ASTM E 1903 Appendix X1.

The results of the Phase II ESA (both in the field and from the laboratory analyses) are interpreted to characterize the extent of hazardous materials and the ranges of soil, ground water, or soil gas contaminant concentrations. The soil and ground water sampling data are quantitatively compared to existing guidelines and standards. Most commonly, soil sampling results are compared to the NYSDEC 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives (SCOs). Comparison with the relevant unrestricted or restricted SCOs should be based on the exposure scenarios associated with the proposed project, and different SCOs may be appropriate at different locations and land uses. Note that soil contamination must be evaluated for protection of ground water in addition to public health criteria, unless excluded by Part 375-6.5 (NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 should no longer be used). Ground water sampling results should be compared to NYSDEC Class GA water quality standards that are listed in NYSDEC's Technical & Operational Guidance Series (TOGS). Note that aquifers in NYC should be viewed as potential drinking water sources. As appropriate, ground water sampling results should also be compared to City or State guidance values for dewatering to city sewers and EPA guidance values for vapor intrusion. Soil vapor and indoor air sample concentrations should be compared to guidelines, where available, in the NYSDOH's October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York. When investigations identify soil vapor contaminants outside of NYSDOH's constituent list, EPA guidance values may be used for comparison purposes.

The Phase II ESA Report is provided to DEP or OER, as applicable, for review and approval. If hazardous materials are identified at the site and it appears that remedial measures would likely be required to adequately mitigate the contamination, a Draft Remedial Action Plan (RAP) and site-specific Construction Health and Safety Plan (CHASP) should be submitted along with the Phase II ESA Report.

400. DETERMINING IMPACT SIGNIFICANCE

The potential for significant adverse impacts from hazardous materials depends on the type of materials present, their levels, their location on the site, and whether exposure to the hazardous materials would be associated with the proposed project, either during or following construction. In general, given adequate knowledge of the site and its environs, the following two questions can be used to determine whether a significant adverse impact would occur:

1. Is there a potential for human exposure to hazardous materials? This includes present and future users of the site and surrounding area, as well as construction workers.
2. Is there a potential for environmental exposure to hazardous materials? This includes hazardous materials affecting on-site or surrounding natural resources or exacerbating existing environmental contamination.

If the answer to both of these questions is "no," it is unlikely that a potential for significant impacts exists. If the answer to either is "yes," then a significant adverse impact might occur. Examples of significant adverse impacts from hazardous materials include the following:

- Workers may be exposed during excavation. For example, sites that were formerly solid waste landfills may contain explosive levels of methane; compounds adsorbed to soil may become airborne as dust and ingested through the nose and mouth; or dewatering activities may expose workers to contaminated ground water.
- Future site occupants may be exposed to on-site hazardous materials. For example, children at a residential site may ingest contaminated soil or lead-laden particles from a building's interior.
- Future site occupants may be exposed to materials migrating from off-site. For example, materials leaking from a gasoline underground storage tank on an adjacent property may migrate in the subsurface as a separate-phase liquid, dissolved in ground water, or as a vapor.

- Occupants of adjacent properties may be exposed. For example, contaminated soil or dust may be transported to adjacent sites during excavation. Surface and subsurface drainage patterns may cause on-site contaminants to migrate off-site during or following construction, impacting adjacent properties or natural resources. Soil gas may migrate to adjacent properties or buildings.
- For projects that would introduce hazardous materials to a site or involve management of hazardous materials, the methods of handling and disposing of those materials (in accordance with all applicable legal requirements of City, State and federal agencies) should be described, but compliance is generally assumed for the purposes of determining whether a significant impact exists under CEQR.

Conditions of contamination that are generally not considered significant adverse impacts include the following:

- No significant impact would occur when hazardous material concentrations in ground water exceed NYSDEC Class GA ground water quality standards listed in TOGS, unless there is a potential route of exposure through drinking water, vapor intrusion into buildings or structures, or ground water recharge to surface waters, or the proposed project involves impacts associated with dewatering.
- In certain circumstances—particularly for asbestos and lead—compliance with applicable regulatory requirements would prevent significant impacts. For example, if the project requires demolition or renovation of a building containing asbestos, compliance with applicable regulatory requirements is necessary whether or not the project is also subject to CEQR.

Decisions regarding the potential for significant adverse impacts must be made on a site-specific, project-specific basis, considering all available information. The lead agency should consult with DEP in determining and assessing the potential for significant adverse impacts. However, if such potential exists, the lead agency must coordinate with DEP or OER, as appropriate, in developing measures to avoid or mitigate the potential impacts. Depending on the adverse impact identified, other agencies (*e.g.*, NYCDOHMH, NYSDEC, NYSDOH, USEPA, US Coast Guard) may also require notification. For generic or programmatic actions, site-specific conclusions may not be possible. In this case, more general conclusions about the type of impacts that may be expected for different types of sites may be appropriate.

500. MITIGATION AND REMEDIATION

Mitigation is the implementation of actions designed to eliminate, contain or control sources of significant adverse impacts and eliminate exposure pathways. Remediation is the implementation of actions designed to remove or treat the sources of significant adverse impacts and eliminate and/or reduce concentrations of hazardous materials. Mitigation and remedial measures are determined based in part on the detailed findings of the Phase II ESA. DEP and OER recommend a “risk-based” approach in determining the proper course of mitigation. The risk-based approach evaluates the exposure pathways associated with the proposed project. Implementation of mitigation and remedial action follows careful development of an appropriate Remedial Action Plan (RAP) and site-specific Construction Health and Safety Plan (CHASP). Both short-term and long-term risks should be assessed. Questions that the City considers when evaluating a proposed remedial approach are:

- Which available mitigation and remedial technologies would accomplish the mitigation and remedial goals for the site?
- What are the short-term risks?
- What are the long-term risks?
- What are the risk-based benefits of the RAP?
- Would implementation create potential new or additional risks to on-site occupants or the surrounding public?

- Would implementation result in residual hazardous materials remaining in place on site so that an appropriate institutional control (*e.g.*, (E) Designation, declaration of covenants and restrictions for ongoing site management, memorandum of understanding (MOU)) governing ongoing monitoring is required?

In evaluating the short-term risks associated with a remedial technology, both adjacent community and on-site worker risks are assessed. Examples of remedial approaches that may pose a short-term risk to an adjacent community include emissions from an on-site remedial system or fugitive dust emissions and/or odors as a result of excavation activities. In addition, on-site worker health and safety issues should be considered.

Evaluation of long-term risks focuses on evaluating residual risk and evaluating the effectiveness of the remedy over time. Residual risk may occur if hazardous materials are left on-site but are mitigated by reducing or eliminating exposure through measures such as capping, or sub-slab vapor barrier and depressurization systems. These measures should be monitored through a site monitoring plan, which may be ensured through a combination of institutional controls, such as an (E) Designation, declaration of covenants and restrictions for ongoing site management, MOU, land disposition agreement and/or mapping agreement.

Implementation of a mitigation or remedial measure does not absolve the site owner from additional mitigation or remediation in the future should conditions warrant (*e.g.*, site use changes). In addition, NYSDEC or other agencies may require additional investigation, mitigation, and/or remedial measures. Procedures that would document that the selected remedial action was properly implemented should always be incorporated into the chosen remedy or mitigation. For example, where site excavation would be followed by the placement of fill meeting specified requirements, the RAP should set out appropriate testing protocols and timely submission to DEP or OER, as applicable, of laboratory testing data, documenting both proper off-site disposal and compliant incoming fill materials.

510. CONTAINMENT TECHNIQUES

Containment is the process of covering or enclosing hazardous materials to minimize direct contact with or exposure of receptors. For subsurface contamination, capping of the affected area is often used to control the infiltration of surface water or rainwater and reduce contaminant migration. Caps are often employed when contaminated materials are left in place. Capping is sometimes performed together with measures for ground water contaminant control, surface water control, and sub-surface gas collection or control. Various cap designs and capping materials are available--from clean soil or standard paving to multi-layer engineered membranes. The selection of the cap design and materials depends on the nature of the waste to be covered and the intended use of the capped area. Disadvantages of capping include an uncertain design life; the need for long-term inspection and maintenance; and problems that arise should they need to be breached to install or repair utilities. Depending on the materials used, caps can be vulnerable to erosion, cracking or other types of deterioration.

Lateral migration of contaminants can be contained by such techniques as construction of subsurface barriers, such as sheeting, slurry walls, or grout curtains, in which liquid material is injected into the soil where it solidifies to form a barrier. Where the potential for vapor intrusion by contaminated soil vapor is identified, resulting from contaminated ground water or soil above the water table, exposure to impacted indoor air can be mitigated through installation of technologies like sub-slab vapor barriers, and depressurization systems. In situations where exterior installation is not practical, membranes or coatings can be applied to the building's interior slab and sub-grade walls. Heating, ventilating, and air conditioning (HVAC) systems can also be adjusted so that there is a "positive pressure" environment within the building that prevents soil vapor from entering indoor spaces. Where below-grade levels of a building are open to outside air or ventilated in accordance with all applicable New York City Department of Building (DOB) Codes (*e.g.*, parking garages beneath residential buildings), additional systems to prevent vapor intrusion may not be warranted. This would be evaluated on a case-by-case basis, pending evaluation of proposed sub-grade uses and ventilation systems.

520. REMOVAL TECHNOLOGIES

Contaminated surface and subsurface materials can be removed from a site. The types of equipment and construction techniques selected are determined by the physical characteristics of the materials being excavated, the volume of material to be excavated, the depth of the excavation, and the haul distances involved. In general, hazardous wastes and petroleum-contaminated materials require removal, whereas historic fill and other materials with concentrations typical of urban fill material may be reused on-site, provided that doing so is not in violation of any applicable regulatory requirements and that exposure to such materials is mitigated by installation of a cap, or other appropriate mitigation controls are implemented. In accordance with NYSDEC's Rules and Regulations on beneficial use, found at 6 NYCRR Part 360, Section 1.15(b)8, nonhazardous, contaminated soil that has been excavated as part of construction projects may be used as backfill for the same excavation or excavations containing similar contaminants at the same site.

Once removed from the project site, the contaminated materials must be properly disposed of or beneficially reused in accordance with NYSDEC regulations. The transport, treatment, and disposal of solid and hazardous wastes and other materials are regulated by many agencies including the USEPA, NYSDEC, the U.S. Department of Transportation, FDNY, DSNY, and other state regulations if the materials are disposed of in other states outside of New York. In some cases, it is possible to treat hazardous materials on-site or off-site and return the treated material to the site (see below), or to use the treated material elsewhere (*e.g.*, as fill). In all cases, any soil or fill removed from a site must be properly disposed of in accordance with all applicable federal, state, and local regulations. A copy of all relevant documents, including transportation manifests, documentation of the destination of all material removed from the site, disposal/recycling certificates, weigh tickets, and documentation associated with disposal showing requisite approvals for receipt of the material, must be maintained by the engineer/architect of record, associated consultants, and property owner/developer.

Ground water may be extracted to halt the lateral and vertical migration of contaminated ground water for subsequent treatment and/or disposal.

Where contaminated soil vapor is present, passive or active gas control systems (*i.e.*, sub-slab depressurization systems) may be appropriate to prevent exposures. These can include collection and treatment, but more commonly, the emphasis is on control measures that ensure that gases do not form explosive, oxygen deficient conditions, high concentrations of soil vapor contaminants, or enter into structures.

Bulk liquids and sludges are sometimes found in pits, ponds, lagoons, sumps, trenches, or tanks. These liquids and sludges almost always require removal to prevent the contamination of soil and ground water adjacent to the area.

When abandoned storage drums, gas cylinders or similar potentially acutely hazardous items are found at a site, timely removal actions are likely warranted. These activities require specialized knowledge and safety procedures. Appropriate consultation with regulatory agencies may be required.

All contaminated materials treated on site or removed from the site for recycling and/or disposal must be managed in accordance with all applicable federal, state, and local regulations.

530. TREATMENT TECHNOLOGIES

Treatment technologies involve treating hazardous materials to either reduce the concentration of the contaminants of concern or alter the characteristics of the contaminated material. This can be performed on-site (either in-situ or ex-situ), or off-site. All treatment technologies should be implemented in accordance with all applicable federal, state, and local regulations.

INCINERATION is a well-proven method of burning wastes containing organic compounds at a very high temperature. However, incineration is usually too expensive to be a cost effective approach and it also requires removal and transportation of the materials off-site.

THERMAL TREATMENT TECHNOLOGIES include a number of methods that use heat to separate contaminants thermally from the media in which they are found. These technologies do not destroy the contaminants; consequently, they often require subsequent off-site disposal. An exception is the thermal treatment of petroleum-contaminated wastes that are then incorporated into asphalt and subsequently used for paving roads.

SOIL VAPOR EXTRACTION (SVE) is a method of treating soil in the unsaturated zone contaminated with VOCs. Soil vapor extraction consists of a network of wells with perforated well screens spanning the contaminated portion of the unsaturated zone to remove VOCs.

AIR SPARGING/SVE includes passing air through a column of VOC-contaminated ground water and collecting the contaminant-enriched vapors with a SVE system above the water table. The system includes a series of air injection points below the water table and a series of vapor extraction points above the water table. With favorable site conditions, this type of system can clean up both the ground water and soil at VOC-contaminated sites.

AIR STRIPPING is a process of forcing air through impacted ground water or surface water to remove harmful chemicals. Water is pumped into an air stripper and then sprayed over packing material where a fan blows the evaporated water vapor upward. Air stripping is most effective when dealing with contaminants that evaporate easily, such as fuels or solvents.

SOIL FLUSHING is the application of a liquid flushing agent to soil to physically and/or chemically remove contaminants. This process is not commonly used in New York City, but can be applicable for a low- to medium-concentration of contamination that is distributed over a wide area.

CHEMICAL OXIDATION applies chemicals called oxidants to destroy pollution in soil and ground water. Chemical oxidation can destroy many types of contaminants such as fuels, solvents, and pesticides.

IN-SITU BIODEGRADATION is the process of enhancing microbial action to remediate subsurface contaminants that are adsorbed to soil particles or dissolved in the aqueous phase by adding oxygen and phosphorous, nitrogen, potassium, or other nutrients to the system.

MONITORED NATURAL ATTENUATION (MNA) is a combination of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil or ground water. These processes include biodegradation; dispersion; dilution; sorption; volatilization; chemical or biological stabilization, transformation, or destruction of contaminants. This remedial strategy requires continued monitoring to assess progress and to ensure that exposure scenarios do not change as attenuation proceeds. MNA has been gaining acceptance for sites where there is no potential for human or environmental exposure, such as sites with low levels of VOCs in ground water that is not used as a source of drinking water. When MNA is the strategy selected for remediation of VOCs, the potential for soil gas contamination and vapor intrusion should be considered as an exposure pathway during monitoring.

SOLIDIFICATION AND STABILIZATION SOLIDIFICATION refers to treatment processes that are designed to change the physical characteristics of the waste, thereby minimizing free liquids and/or decreasing leachability. Stabilization techniques involve processes that limit solubility.

540. MITIGATION TECHNIQUES FOR CONTAMINATION IN BUILDINGS OR STRUCTURES

Mitigation measures depend on the type(s) of contaminant, the location of the contamination in or on the building or structure, and the potential exposure pathway(s). Generally, hazardous materials contaminating building components can be either contained or removed. Lead and asbestos are the two most common building contaminants, the regulatory frameworks for which were described above, but other possible hazardous conditions may be present. The mitigation for specific problems should be resolved in coordination with DEP for asbestos and/or DOHMH for lead on a case-by-case basis.

550. MITIGATION THROUGH INSTITUTIONAL CONTROLS

In certain instances, generally when testing is not physically possible during the CEQR process or when CEQR investigations identify the need for the City to ensure that post-CEQR remediation is completed adequately, an institutional control, such as an (E) Designation, MOU (in the case of City-owned property), recorded declaration of covenants and restrictions, land disposition agreement or mapping agreement, is placed on or entered into with respect to the subject property to establish a review and approval framework.

The lead agency should work with DEP during the CEQR process to determine the appropriateness of an institutional control. The Mayor's Office of Environmental Remediation (OER) has the authority and responsibility to administer (E) Designations and existing Restrictive Declarations, pursuant to Section 11-15 (Environmental requirements) of the Zoning Resolution of the City of New York and Chapter 24 of Title 15 of the Rules of the City of New York. When an institutional control is necessary on City-owned land, a MOU may be entered into between DEP and the agency controlling the site, where DEP would review and approve any testing and/or remedial plans for that property. DEP and all parties to an MOU should be consulted early in the CEQR process to reach agreement on the form and specifics of an MOU.

551. (E) DESIGNATIONS

The hazardous materials (E) Designation is an institutional control that can be placed as a result of the CEQR review of a zoning map or text amendment or action pursuant to the Zoning Resolution. It provides a mechanism to ensure that testing for and mitigation and/or remediation of hazardous materials, if necessary, are completed prior to, or as part of, future development of an affected site, thereby eliminating the potential for a hazardous materials impact.

Chapter 24 of Title 15 of the Rules of the City of New York and Section 11-15 of the Zoning Resolution of the City of New York set out the procedures for placing (E) Designations, satisfying related requirements, and removing (E) Designations. Detailed requirements on how to investigate, remediate, satisfy, and receive appropriate sign-offs for sites with (E) Designations are included in the Rules. If necessary, the lead agency may consult with DEP during the CEQR process to identify sites requiring an (E) Designation. After a site has been identified or after the (E) has been placed, applicants are advised to provide the CEQR number to OER and, in order to facilitate OER's review of work proposed to address the requirements of the (E) Designation, it may be necessary for property owners to provide historical technical documentation related to the hazardous materials CEQR review (*e.g.*, EAS/EIS, Phase I ESA, Phase II ESA Work Plan/HASP, Phase II ESA Report(s), RAP/CHASP, lead agency and DEP correspondences, Restrictive Declarations, Notices) to OER. With respect to an applicant-owned or -controlled site, if the lead agency determines that the proposed zoning action warrants a hazardous materials assessment and a Phase I ESA, the Phase I ESA must be completed during CEQR. If the Phase I shows that potential hazardous materials conditions exist, which will need to be addressed during development, the lead agency may assign an (E) Designation to the site, requiring a Phase II ESA and any necessary remediation prior to and/or during redevelopment of the site (see Section 330 above). It is possible that, based on the Phase I and consultation with DEP, the lead agency may determine that the identification and characterization in the EAS/EIS of the actual nature and degree of contamination is appropriate during CEQR. If a Phase II ESA is, therefore, completed during CEQR and remediation is required, the lead agency may assign an (E) Designation if such remediation will involve more than standard construction practices and the proper removal of soil and site preparation in accordance with applicable laws and regulations. Such (E) Designation will require the preparation of a Remediation Action Plan in consultation with OER. Otherwise, remediation proposed to be undertaken in accordance with standard construction practices should be reviewed and approved by DEP, and an (E) Designation may not be warranted.

(E) Designations are listed in a table, "CEQR Environmental Requirements," appended to the Zoning Resolution and appear in DOB's online Buildings Information System (BIS).

With respect to lots with (E) Designations, DOB will not issue building permits or certificates of occupancy in connection with the following actions until it receives an appropriate "Notice" from OER that the environmental requirements have been met:

- Developments;
- Enlargements, extensions or changes of use, involving residential or community facility use; or
- Enlargements or alterations that disturb the soil.

As appropriate, OER will issue the applicable notices to DOB including a Notice of No Objection, Notice to Proceed or Notice of Satisfaction.

552. RESTRICTIVE DECLARATIONS

Historically – until the amendments to the (E) Rules, which became effective on June 18, 2012, allowing lead agencies to place (E) Designations on applicant-owned or -controlled sites and in connection with all zoning actions – Restrictive Declarations were used as an institutional control to ensure that the required testing, remediation and/or mitigation occurred prior to or as part of the development of applicant-owned or -controlled sites.

Restrictive Declarations are recorded instruments, binding the property owner and/or long-term lessee, future owners/lessees and other parties-in-interest, to investigation and/or remediation requirements at predetermined stages of the project, as overseen by DEP during the CEQR review process or by OER during post-CEQR review. In particular, Restrictive Declarations require written notice from OER before DOB may issue building permits or certificates of occupancy in connection with the actions described above under (E) Designations.

If an applicant proposes a Restrictive Declaration with requirements to address potential hazardous materials contamination as part of a proposed project, as described in Section 421.1 of Chapter 2, the lead agency may instead elect to incorporate such provisions in an (E) Designation.

600. DEVELOPING ALTERNATIVES

Alternatives to the proposed project would most commonly include the mitigation methods described above and/or specific changes to the proposed project that minimize possible exposure. If increased exposure to hazardous materials may be associated with excavation, an alternative requiring less extensive excavation may be considered. If there is a concern for exposure to surface soil at a residential development, an alternative may be to cap the area or select another use for that portion of the site. Alternative sites for the proposed project may also be considered. In order to consider an alternative site for private developments, the applicant must own or own a right to use the alternative site.

700. REGULATIONS AND COORDINATION

710. REGULATIONS AND STANDARDS

Regulations regarding hazardous materials address their identification, registration, classification, discharge, handling and storage, generation, treatment, transportation, and disposal. They also provide a means to identify and fund the clean-up of hazardous sites and hazardous releases. Regulations are promulgated by the City, State, and Federal governments. An overview of key applicable regulations is presented below. The primary reference for this section is Parkin, W.P., *et.al.*, 1992, The Complete Guide to Environmental Liability and Enforcement in New York, sponsored by the National District Attorney's Association.

711. Federal Government

711.1. Resource Conservation Recovery Act (RCRA) and Hazardous and Solid Waste Amendments (HSWA)

RCRA, adopted in 1976 and amended in 1984, creates the basic framework for the Federal regulation of hazardous wastes. It provides controls for the generation, transportation, treatment, storage, and disposal of hazardous waste through a comprehensive "cradle to grave" system of hazardous waste management techniques and requirements. USEPA administers RCRA and delegates administration of major components to New York State. RCRA defines hazardous waste either as a listed hazardous waste or a waste exhibiting any of the characteristics of a hazardous waste (40 CFR Part 261). The four characteristics of hazardous waste are: (1) ignitability; (2) corrosivity; (3) reactivity; and (4) toxicity as measured by the Toxicity Characteristic Leaching Procedure (TCLP). The 1984 Hazards and Solid Waste Amendments (HSWA) added Federal regulation of underground storage tanks.

711.2. Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and Superfund Amendments and Reauthorization (SARA)

Congress enacted CERCLA (also known as Superfund) and its amendments (40 CFR Part 300) to fund the clean-up of hazardous substance waste sites. CERCLA, which was amended by SARA, has created a national policy and procedures for containing and remediating released hazardous waste substances and for identifying and remediating sites contaminated with hazardous substances. CERCLA's purview excludes crude oil, petroleum products, and natural gas products.

Title III of SARA, the Federal Emergency Planning and Community Right to Know Act, was promulgated to allow public access to information about local use of hazardous chemicals and to require each generator of such materials to develop chemical emergency planning procedures (40 CFR Part 300). A list of Extremely Hazardous Substances (EHS) and their respective reportable quantities was created.

711.3. Transportation of Hazardous Materials

The U.S. Department of Transportation addresses the listing and transportation requirements for hazardous materials under 49 CFR Part 171 through 177, and USEPA regulates hazardous waste transport under 40 CFR Part 262 and 263.

711.4. Toxic Substance Control Act (TSCA)

TSCA empowers EPA to regulate specific toxic substances. Federal regulation of polychlorinated biphenyls (PCBs) and asbestos-containing materials falls under TSCA.

712. New York State

712.1. Environmental Conservation Law

NYSDEC has developed the regulatory framework for hazardous waste management in New York in response to the State's Environmental Conservation Law. The criteria for determining a hazardous waste closely parallel those of RCRA and are set forth in 6 NYCRR Part 371.

The State has also created its own Superfund-like program to help finance the State's share of clean-up costs under the Federal program or to finance clean-ups at State sites that are not under the Federal program. New York State's Superfund program, the Inactive Hazardous Waste Sites Law, was passed in 1979. This program is described in 6 NYCRR Part 375. The law provides for the identification, listing, and remediation of inactive hazardous waste sites in CEQR MANUAL 3J-23 10/01 New York. Under the law, NYSDEC has provided for a comprehensive listing of inactive hazardous waste sites.

712.2. Petroleum and Hazardous Substances Storage Laws

The storage of petroleum and hazardous substances in New York State is regulated through a series of laws enacted to ensure proper storage and to address petroleum and hazardous substance spills and leaks. In 1984, Federal underground storage tank requirements were adopted as required by Subtitle I of RCRA. The New York State petroleum and hazardous substance storage laws are more comprehensive than the Federal laws and include the Oil Spill Prevention, Control and Compensation Act of 1977; the Petroleum Bulk Storage Act of 1986; and the Hazardous Substance Bulk Storage Act of 1986.

The Hazardous Substances Bulk Storage Act of 1986 specifically addresses the storage of nonpetroleum hazardous substances. Owners of tanks storing listed hazardous substances are required to register all tanks storing listed hazardous substances with a capacity greater than 185 gallons.

713. New York City

713.1. Hazardous Substances Emergency Response Law (Spill Law)

New York City has enacted Local Law 42/1987, the New York City Hazardous Substances Emergency Response Law, also known as the Spill Law. Under this law, the City has declared its policy to respond to emergencies caused by releases or threatened releases of hazardous substances into the environment that may have an adverse effect on the public health, safety, and welfare and to prevent injury to human, plant, and animal life and property. DEP administers this law, which allows the department to order clean-up of hazardous substance spills.

713.2. Community Right-to-Know Law

The New York City Community Right-to-Know Local Law 26/1988 authorizes DEP to gather chemical information from facilities that use, store, or manufacture hazardous substances and to use this information for emergency planning and response purposes. The intent of this law is to protect the health and safety of the community and the environment against accidental release of hazardous materials. In addition, the law gives New York City residents the right to know the identities, quantities, characteristics, and locations of hazardous substances used, stored, and manufactured in their communities.

713.3. Asbestos Legislation

Asbestos-containing materials are regulated at the City, State, and Federal levels of government. NYCDEP, under Title 15 Chapter 1, regulates building surveys, professional certifications, and asbestos abatement procedures. Local Laws 70/1985 and 21/1987, administered by the New York City Department of Sanitation, govern the transport, storage, and disposal of asbestos waste in the City. The City's regulations are more stringent than those of the State and Federal governments. The New York State Industrial Code 56, administered by the New York State Department of Labor, and the EPA-administered National Emissions Standards for Hazardous Air Pollutants (NESHAP) also regulate asbestos activities. Asbestos laboratories are regulated by the NYSDOH under the Environmental Laboratory approval program.

713.4. Industrial Pretreatment Program

This program establishes standards for certain pollutants discharged to the sewer system, requiring pretreatment for effluent that would otherwise not meet the standards.

713.5. Lead Paint

Lead-based paint (LBP) in certain residential and child-occupied facilities is regulated under NYC Local Law 1 of 2004, NYS Public Health Law Title 10 of Article 13, and the Federal "Residential Lead-Based Paint Hazard Reduction Act of 1992." The EPA regulates training and certification of individuals and

certification of firms under 40 CFR Part 745. In other facilities, lead exposure to workers is regulated by the Federal OSHA regulations 29 CFR 1926.62 and 29 CFR 1910.1025. Disposal of waste with lead paint is regulated by the NYSDEC under Chapter IV Subchapter B - Solid Wastes.

714. Applicable Standards

New York State has promulgated standards and guidance values for ground and surface waters and suggested soil clean-up guidelines.

714.1. Surface and Ground water

The NYSDEC Division of Water has published Water Quality Regulations for Surface Waters and Groundwaters under 6 NYCRR Parts 700-705, last amended August 1999. Under these regulations NYSDEC provides a water classification system for surface and ground water (Part 701). General conditions that apply to all water classifications are that the discharge of sewage, industrial waste, or other wastes shall not cause impairment of the best usages of the receiving waters as specified by the water classification at the location of the discharge and at other locations that may be affected by such discharge.

The Water Quality Regulations establish eight fresh surface water classifications, five saline surface water classifications, and three ground water classifications, and for each, provide a definition of their best usage. Ambient Water Quality Standards and guidance values are categorized according to this water classification system. The standards are derived to provide for the protection of human health, potable water supply, aquatic life, and consumers of aquatic life.

In addition to the Water Quality Regulations under 6 NYCRR Part 700-705, NYSDEC Division of Water has issued Technical and Operational Guidance Series 1.1.1 to provide a compilation of ambient water quality guidance values and ground water effluent limitations for use where there are no standards or regulatory effluent limitations. This document also provides a summary of the water quality standards and limitations under 6 NYCRR Part 700-705.

Standards and guidance values for protection of the best usage as a source of potable water supply protect human health and drinking water sources and are referred to as health (water source) values. For the majority of specified substances, these values generally equal the maximum contaminant level (MCL) for that substance. If no specific MCL exists, the standard or guidance is 5 micrograms per liter (µg/L) or a less stringent value, as determined by the Commissioner of the New York State Department of Health. For those substances that do not have an applicable health (water source) standard, and for which the NYSDEC has determined that a threat to human health may exist if discharged into the waters of the State, a guidance value is derived by applying the procedures utilized by the State or a "general organic guidance" value of 50 µg/L for an individual organic substance may be utilized (Part 702.15), whichever is more stringent.

The three classification categories of ground water established based on their best usage include Class GA fresh ground water, Class GSA saline ground water, and Class GSB saline ground water. The best usage of Class GA ground water is as a source of potable water supply. Thus, the Class GA standards generally correspond to the MCL. The best usages of Class GSA saline ground water are as a source of potable mineral waters, for conversion to fresh potable waters, or as a raw material for the manufacture of sodium chloride or its derivatives or similar products. The best usage of Class GSB saline waters is as a receiving water for the disposal of wastes. The Class GSB is not assigned to any ground water of the State, unless the commissioner of NYSDEC finds that adjacent and tributary ground water and the best usages thereof will not be impaired by such classification. The ground water of the five boroughs are classified as Class GA ground water, except where the criteria for saline ground water are met (Part 703.5).

Ground water analytical data generated from a site are typically compared with NYSDEC standards and guidance values that apply to a site's ground water classification. This comparison aids in the evaluation of the extent of impairment of the ground water being analyzed. Unless volatilization at the ground water interface would result or a drinking water supply is affected, no significant impact may be considered to result from the ground water contamination.

714.2. Soil

Human exposure to soil contaminants can occur through inhalation, ingestion, or skin contact, as well as indirectly through contaminants leaching or percolating to ground water, if it is used as a source of drinking water. There are no Federal, New York State, or New York City clean-up standards or guidelines applicable to all situations to define "acceptable" levels of contaminants in soil. There are, however, promulgated values applicable to certain situations and guidance values that have been proposed by various government agencies. These standards and guidelines are typically derived from models employing numerous conservative assumptions developed to set clean-up levels at contaminated sites.

In New York, NYSDEC has developed soil cleanup objectives (SCOs), promulgated in 6 NYCRR Subpart 375-6: Remedial Program Soil Cleanup Objectives. NYSDEC's Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels (TAGM 4046, January 1994 with updates) also sets up recommended soil cleanup objectives (RSCOs). The goal of the SCOs and RSCOs is to eliminate significant risks to human health and the environment.

The SCOs (and RSCOs especially for evaluating metals) should be used to assess levels of environmental contamination, recognizing each site's particular circumstances regarding current and proposed future exposure scenarios and factors.

714.3. Solid and Hazardous Waste Characteristics

6 NYCRR Part 360 describes how solid waste must be transferred, processed, recovered, stored, reclaimed or disposed. Material at a site is considered solid waste if it exhibits characteristics identified in 6 NYCRR Part 360-1.2.

6 NYCRR Part 371 requires that before transport and disposal of contaminated soil from a site, the generator must determine if it is subject to regulation as a hazardous waste. A solid waste, such as contaminated soil, is considered a hazardous waste if it exhibits one or more of the characteristics identified in 6 NYCRR Part 371.3 or if it is a listed acutely hazardous or toxic waste.

720. APPLICABLE COORDINATION

As noted above, several Federal, State, and City regulations govern hazardous materials. The agencies that administer these regulations at a Federal and State level, such as EPA and NYSDEC, typically are not active in the CEQR process. However, if a significant amount of hazardous waste exists on the site, which is a significant threat to public health and the environment, the appropriate regulatory agencies must be notified by either DEP or the lead agency. For instance, if a petroleum spill of more than 5 gallons is found during a site investigation being performed for a CEQR, NYSDEC must be notified pursuant to Article 17, Section 1743 of the New York State Environmental Conservation Law and Article 12, Section 175 of the New York State Navigation Law. The appropriate Federal and New York City government agencies must also be notified. DEP can provide complete notification requirements. Other than regulatory notification requirements, however, Federal and State agencies typically do not have a review and/or approval role in the CEQR process.

At the City level, coordination with DEP's Bureau of Environmental Planning and Analysis is required where the proposed site is likely to show potential for the presence of hazardous materials (such as a site in or near manufacturing uses or with a history that reveals a potential hazardous materials issue). DEP will provide consistent

technical guidance and review throughout the research, investigation, and remediation phases of a hazardous waste assessment.

730. LOCATION OF INFORMATION

Throughout this chapter, references to publications, regulations, regulatory agencies, and other sources of information are made. Generally, publications and guidelines can be purchased or obtained free-of-charge from the referenced agencies. Listed below are regulatory agencies and current addresses, along with publications and/or regulations that may be obtained. NYC agencies can be contacted through the web site NYC.Gov or by calling 311. NYSDEC may be contacted at 718-482-4900.

- RCRA/Superfund Hotline (Publications and technical information).
- Government Printing Office, 26 Federal Plaza, New York, NY 10278 (EPA regulations and guidelines available for a fee).
- New York State DEC Regional Office, Region 2 Hunters Point Plaza, 47-40 21st Street Long Island City, NY 11101, Division of Air Resources Division of Solid and Hazardous Materials Division of Fish, Wildlife, and Marine Resources Division of Water Division of Environmental Remediation Division of Lands and Forests.
- DEP-Bureau of Environmental Planning and Analysis, 59-17 Junction Boulevard, 11th Floor Flushing, NY 11373.
- DEP-Bureau of Environmental Compliance, 59-17 Junction Boulevard, 1st Floor Flushing, NY 11373 (Copies of "Spill Law" and Right-to-Know Laws available free of charge).
- United States Geological Survey, P.O. Box 1669, Albany, NY 12201 (Topographic maps). Also available at local map stores, such as the Hagstrom Map Company.
- New York Public Library, 455 Fifth Avenue, New York, NY 10016 (Fire insurance maps and city directories).
- New York City Department of Buildings (Manhattan), 60 Hudson Street, New York, NY 10013 (Building renovation records and certificates of occupancy for past and present uses available for review).
- New York City Department of Buildings (Brooklyn), Municipal Building Brooklyn, NY 11201 (Building renovation records and certificates of occupancy for past and present uses available for review).
- New York City Department of Buildings (Bronx), 1932 Arthur Avenue, Bronx, NY 10457 (Building renovation records and certificates of occupancy for past and present uses available for review).
- New York City Department of Buildings (Queens), 126-06 Queens Boulevard, Kew Gardens, NY 11415 (Building renovation records and certificates of occupancy for past and present uses available for review).
- New York City Department of Buildings (Staten Island), Borough Hall, Staten Island, NY 10301 (Building renovation records and certificates of occupancy for past and present uses available for review).
- New York City Fire Department Bureau of Fire Prevention, 250 Livingston Street, Brooklyn, NY 11201 (Records on fuel tanks, storage of flammable materials).
- National Cartographic Information Center, U.S. Department of the Interior, Geologic Survey, 507 National Center Reston, VA 27092 (Aerial photographs and information on commercial surveying firms).
- Refer to Chapter 9, “Historic Resources,” for more information on historic research sources.

731. Sources of Data to Supplement the ASTM Standard

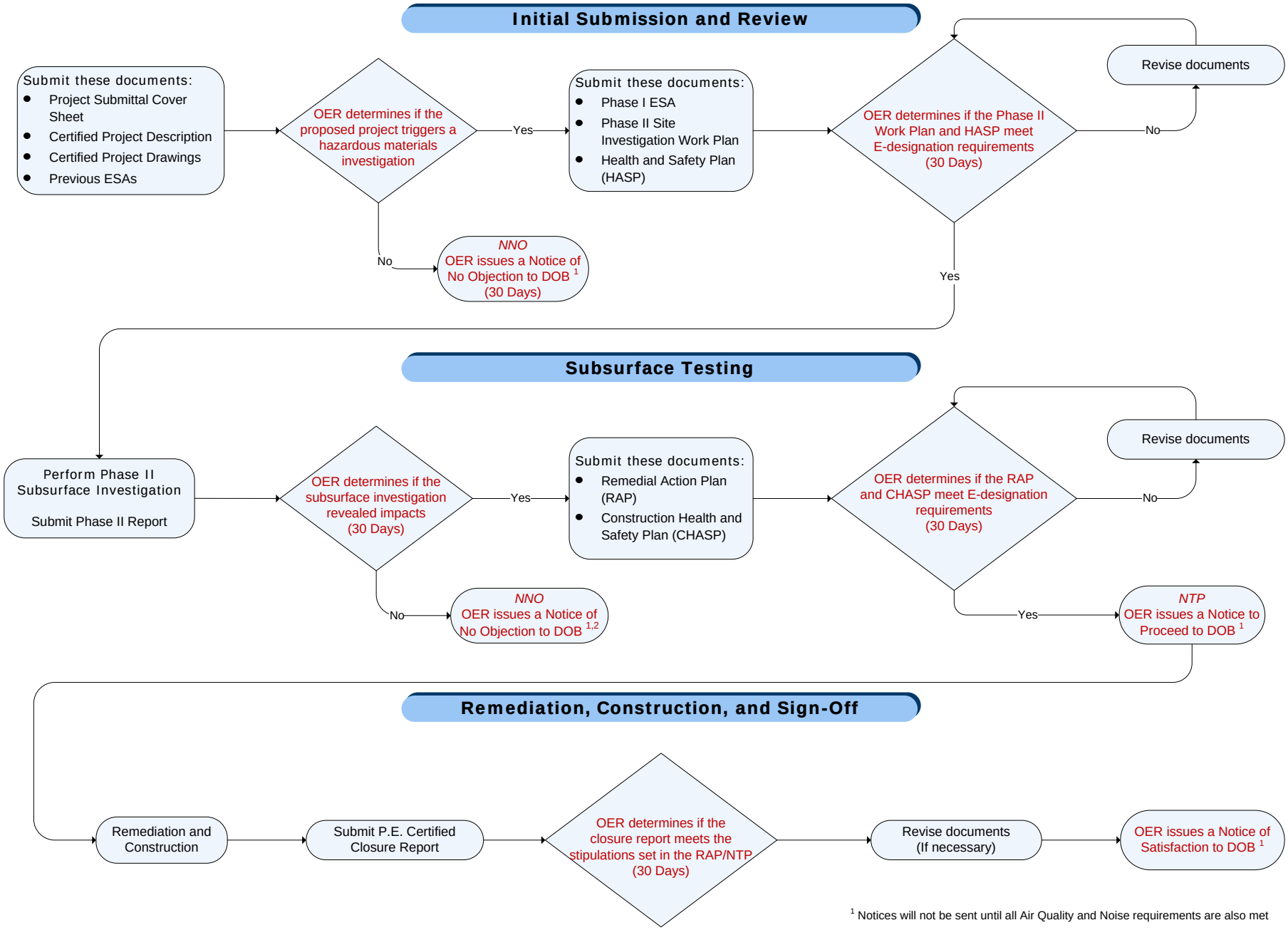
In addition to the ASTM Standard, the following information, specific to New York City, may assist in preparation of Phase I ESAs.

- NYC Department of City Planning (DCP), including Zoning Information, (E) Designations, and Restrictive Declarations.
- New York City Department of Buildings, Buildings Information System (BIS) information.
- New York City Department of Finance, Automated City Registration Information System (ACRIS).
- NYC Fire Department, 9 Metro Tech Center, Brooklyn, New York 11201 (List of Registered Underground Storage Tanks).
- Chain-of-Ownership (title search) – although ASTM recommends searches of title records, many of which can be accessed from the ACRIS database, since multi-user buildings and other rental situations are common in New York City, City Directories (*e.g.*, historic telephone records) and other sources that may indicate use rather than ownership should be consulted, where possible. Interviews with building maintenance staff may be helpful.
- Information including base maps, imagery based on aerial photography, tax blocks and lots, roadways, building footprints, waterways, and mass transportation lines are readily available at, for example, http://www.nyc.gov/html/doitt/home.html and http://gis.nyc.gov/doitt/cm/CityMap.htm.
- Companies that specialize in providing fire insurance maps, city directories, aerial photographs, title search information, *etc.* (see, for example, http://www.toxicstargeting.com/ or http://www.edrnet.com).
- DEP Bureau of Environmental Planning and Analysis, 59-17 Junction Blvd., 11th Floor High Rise, Flushing, New York 11373-5108; DEP Bureau of Environmental Compliance, 96-05 Horace Harding Expressway Corona, NY 11368 (Emergency Response Incidents, Spill Law Notices of Violation).
- New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER), Environmental Site Database (includes Spill Incidents, Remedial Sites, and Bulk Storage (chemical and petroleum) records).
- New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure Investigation, "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York," October 2006.
- US EPA Center for Environmental Research Information, Office of Research and Development, "Compendium Method TO-15: Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)," January 1999.

PlaNYC

NYC Office of Environmental Remediation

E-Designation Program Flow Chart Hazardous Materials



[1] Notices will not be sent until all Air Quality and Noise requirements are also met

APPENDIX B
Health and Safety Plan

Health and Safety Plan

882 FULTON AVENUE
Brooklyn, New York 11238

November 2013

Prepared for:

Orange Management
6 West 14th Street, 2nd Floor
New York, NY 10011

Prepared by:

CA RICH CONSULTANTS, INC.
17 Dupont Street
Plainview, NY 11803-1614

Health & Safety Plan

PHASE II INVESTIGATION

882 Fulton Avenue
Brooklyn, NY 11238
Block 2011; Lot 30

1.0 INTRODUCTION

This Health and Safety Plan ("HASP") is developed for utilization during implementation of the Phase II Investigation (Phase II) at the above referenced site located in 882 Fulton Avenue in Brooklyn, New York (the Site). The HASP is to be enforced by CA RICH's Project Health and Safety Manager and the on-site Health & Safety Coordinator (HSC) or his/her designee. The on-site HSC will interface with the Project Manager and is vested with the authority to make field decisions including the termination of on-site activities if an imminent health and safety hazard, condition or related concern arises. Information and protocol in the HASP is applicable to all on-site personnel who will be entering the designated work zone.

2.0 POTENTIAL HAZARDS

2.1 Chemical Hazards

CA RICH is currently unaware of any chemical hazards on-site. Soil samples were recently collected from the Site. Low levels of Volatile Organic Compounds (VOCs) were identified below Restricted Residential Soil Cleanup Objectives (SCOs). Low levels of Semi Volatile Organic Compounds (SVOCs) and metals were identified. A few SVOCs and metals were detected above Restricted Residential SCOs. CA RICH will operate as if there is a potential for VOCs, SVOCs, and metals contamination on-site.

VOC and SVOCs are described typically described as "sweet" or "aromatic" smelling and are narcotic in high concentrations. Acute exposure to significant concentrations of these chemicals can cause irritation of the skin, eyes and mucus membrane, headache, dizziness, nausea, and in high enough concentrations, loss of consciousness and death *(Sax, 1984)*. These compounds are suspected to be carcinogenic with chronic exposure.

Physical properties and additional toxicological information for potential contaminants are included in Appendix A.

2.2 Other Health & Safety Risks

Normal physical hazards associated with using drilling and excavation equipment and hand tools as well as hazards associated with adverse climatic conditions (heat & cold) or physical site-related debris represent a certain degree of risk to be assumed by on-site personnel.

Certain provisions in this Plan, specifically the use of personnel protective equipment, may tend to increase the risk of physical injury, as well as susceptibility to cold or heat stress. This is primarily due to restrictions in dexterity, hearing, sight, and normal body heat transfer inherent in the use of protective gear.

3.0 RISK MANAGEMENT

3.1 Work / Exclusion Zones

For each proposed investigation activity a work / exclusion zone will be established. Access to this area will be limited to properly trained, properly protected personnel directly involved with investigation. Enforcement of the work / exclusion zone boundaries is the responsibility of the on-site Health & Safety Coordinator or his/her designee.

3.2 Personnel Protection

Health & Safety regulatory personnel have developed different levels of personnel protection to deal with differing degrees of potential risks of exposure to chemical constituents. The levels are designated as **A, B, C,** and **D** and are ranked according to the amount of personnel protection afforded by each level. Level **A** is the highest level of protection and Level **D** is the lowest level of protection.

The different levels are primarily dependent upon the degree of respiratory protection necessary, in conjunction with appropriate protective clothing. Levels of protection mandate a degree of respiratory protection. However, flexibility exists within the lower levels (B, C, and D) concerning proper protective clothing.

The four levels of protection were developed for utilization in situations which involve suspected or known atmospheric and/or environmental hazards including airborne contamination and skin-affecting substances.

It is anticipated that all of the investigation work will be performed using Level D protection (no respiratory protection with protective clothing requirements limited to long sleeved shirts, long pants or coveralls, work gloves and steel-toe leather work boots).

Level D may be modified by the HSC to include protective clothing or equipment (Saran-coated disposable coveralls or PVC splash suits, safety glasses, hard hat with face shield, and chemically resistant boots) based upon physical hazards, skin contact concerns, and real-time monitoring.

Real-time air monitoring for total airborne organics using either an OVA or an HNU will determine if and when an upgrade from Level D to a higher level of respiratory protection is warranted. Decisions for an upgrade from Level D to higher levels of protection, mitigative actions, and/or suspension of work are the responsibility of the Project Manager and/or the designated on-site Health & Safety Coordinator.

In the event odors are detected, Level C respiratory protection will be employed. Organic vapor cartridges are capable of removing xylenes at a concentration of 1,000 ppm and trimethylbenzenes at a concentration of 250 ppm.

3.2 Air Monitoring

The Health & Safety Coordinator or his/her properly trained assignee will conduct “Real Time” air monitoring for total organic vapors. 'Real-time' monitoring refers to the utilization of instrumentation, which yields immediate measurements. The utilization of real time monitoring helps determine immediate or long-term risks to on-site personnel and the general public, the appropriate level of personnel respiratory protection necessary, and actions to mitigate the recognized hazard.

3.2.1. Organic Vapor

A. Instrumentation

Real-time monitoring for total organic vapor (TOV) utilizes either a photo-ionization detector (PID) or flame ionization detector (FID). The appropriate PID is an intrinsically safe HNU Systems Model PI-101, MiniRae 3,000 or equivalent PID, which is factory calibrated to benzene and is capable of detecting petroleum-related contamination. The appropriate FID is a Foxboro model 128 Organic vapor Analyzer (OVA), which is factory calibrated to methane.

B. Application

Organic vapor monitoring is performed as outlined in the NYSDOH Community Air Monitoring Plan. Specifically, monitoring shall be conducted at the downwind perimeter of the work zone periodically during work activities. If TOV levels exceed 5 milligrams per meter cubed (mg/m^3) above established pre-work background levels, work activities will be halted and monitoring will be continued under the provision of a Vapor Emission Response Plan (outlined in Section 5).

3.3 Worker Training

Personnel working in the contamination area must be trained, fit-tested, and medically-Certified (OSHA 29 CFR 1910. 134).

All personnel working within the work/exclusion area must confirm their participation in an ongoing health surveillance program. The program must consist of an initial "baseline" examination stipulated by OSHA (29 CFR 1910. 134). The examination is designed to screen for evidence of adverse effects of occupational exposure (particularly to toxic substances) and determine personnel fitness with respect to the use of respiratory protection.

Each worker enlisted in the medical surveillance program receives an annual examination similar to the baseline exam to evaluate irregularities or trends in his/her health with respect to potential exposure. Upon termination of employment, contract/subcontract or job completion, each worker/employee must take an 'exit examination' identical to the annual exam. All physicals will be performed by licensed physicians with medical histories to be confidentially maintained by their employer.

Prior to any work, all workers involved with the project should be aware of the potential chemical, physical and biological hazards discussed in this document, as well as the general safety practices outlined below. A safety briefing by the on-site HSC and/or assistant designee shall take place at the outset of work activities.

3.4 General Safety Practices

The following safety practices shall be followed by all project personnel.

1. Avoid unnecessary skin exposure to subsurface materials. Sleeved shirts tucked into long pants (or coveralls), work gloves, and steel-toe leather work boots are required unless modified gear is approved by the HSC. Remove any excess residual soil from clothes prior to leaving the site.

2. No eating, drinking, gum or tobacco chewing, or smoking allowed in designated work areas. Thoroughly wash hands prior to these activities outside the work area. Avoid sitting on the ground during breaks or while eating and drinking. Thoroughly wash all exposed body areas at the end of the workday.

3. Some symptoms of acute exposure include: dizziness, light-headedness, drowsiness, headache, and nose/eye/skin irritation. If these symptoms are experienced or strong odor is detected, leave the work area and immediately report the incident to the on-site HSC.

3.5 Enforcement

Enforcement of the Site Safety Plan will be the responsibility of the HSC or his/her designee. The Coordinator or his/her designee should be on-site on a full-time basis and perform or directly oversee all aspects of Project Health & Safety operations including: air monitoring; environmental mitigation; personnel respiratory and skin protection; general safety practices; documentation; emergency procedures and protocol; and reporting and recordkeeping as described below.

3.6 Reporting & Recordkeeping

Incidents involving injury, symptoms of exposure, discovery of contained (potentially hazardous) materials, or unsafe work practices and/or conditions should be immediately reported to the HSC.

A logbook must be maintained on-site to document all aspects of HASP enforcement. The log is paginated and dated with entries made on a daily basis in waterproof ink, initialed by the HSC or designee. Log entries should include date and time of instrument monitoring, instrument type, measurement method, test results, calibration and maintenance information, as well as appropriate mitigative actions responding to detections. Miscellaneous information to be logged may include weather conditions, reported complaints or symptoms, regulatory inspections, and reasons to upgrade personnel protection above the normal specification (Level D).

4.0 EMERGENCIES

4.1 EMERGENCY RESPONSE SERVICES

(1)	**HOSPITAL** The Brooklyn Hospital Center 121 DeKalb Avenue Brooklyn, NY 11201 (by Ashland Avenue)	**(718) 250-8000**
(2)	**AMBULANCE**	**911**
(3)	**FIRE DEPARTMENT** **HAZARDOUS MATERIALS**	**911**
(4)	**POLICE DEPARTMENT**	**911**
(5)	**POISON CONTROL CENTER**	**(800) 222-1222**

The preceding list and associated attached map (Figure 1) illustrating the fastest route to the nearest hospital must be conspicuously posted in areas of worker congregation and adjacent to all on-site telephones (if any).

4.2 EMERGENCY PROCEDURES

4.2.1 Contact or Exposure to Suspected Hazardous Materials

In the event of a fire, chemical discharge, medical emergency, workers are instructed to immediately notify the HSC and proper emergency services (posted). Should physical contact with unknown or questionable materials occur, immediately wash the affected body areas with clean water and notify the HSC. Anyone experiencing symptoms of exposure should exit the work area, notify the HSC, and seek medical attention.

4.2.2 Personnel Decontamination, First Aid, and Fire Protection

The first step in the treatment of skin exposure to most chemicals is to rinse the affected area with water. For this reason, adequate amounts of potable water and soap are maintained on-site in a clearly designated and readily-accessible location. Portable emergency eyewash stations and a first aid kit must be made available and maintained in the same locations as the potable water. Fire extinguishers are also to be maintained on-site in designated locations. All on-site personnel are to be made aware of the locations of the above-mentioned on-site Health & Safety accommodations during the initial Health and Safety briefing.

4.2.3 Ingress/egress

Clear paths of ingress/egress to work zones and site entrances/exits must be maintained at all times. Unauthorized personnel are restricted from accessing the site.

5.0 VAPOR EMISSIONS REPONSE PLAN

If the ambient air concentration of organic vapors exceeds 5 mg/m^3 above background at the perimeter of the work area, activities will be halted and monitoring continued. If the organic vapor level decreases below 5 mg/m^3 above background, work activities can resume. If the organic vapor levels are greater than 5 mg/m^3 over background but less than 25 ppm over background at the perimeter of the work area, activities can resume provided:

- The organic vapor level 200 ft. downwind of the work area or half the distance to the nearest residential or commercial structure, whichever is less, is below 5 mg/m^3 over background.

If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown. When work shutdown occurs, downwind air monitoring as directed by the Safety Officer will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission section.

Major Vapor Emission

If any organic levels greater than 5 mg/m^3 over background are identified 200 feet downwind from the work area or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted.

If, following the cessation of the work activities, or as the result of an emergency, organic levels persist above 5 mg/m^3 above background 200 feet downwind or half the distance to the nearest residential or commercial property from the work area, then the air quality must be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If efforts to abate the emission source are unsuccessful and, if organic vapor levels are approaching 5 mg/m^3 above background for more than 30 minutes in the 20 Foot Zone, then the Major Vapor Emission Response Plan shall automatically be placed into effect;

However, the Major Vapor Emission Response Plan shall be immediately placed into effect if organic vapor levels are greater than 10 mg/m^3 above background.

Major Vapor Emission Response Plan

Upon activation, the following activities will be undertaken:

1. All Emergency Response Contacts as listed in the Health & Safety Plan of the Corrective Action Plan will go into effect.

2. The local police authorities will immediately be contacted by the Safety Officer and advised of the situation.

3. Frequent air monitoring will be conducted at 30 minute intervals within the 20 Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the Safety Officer.

6.0 HEALTH & SAFETY PLAN REFERENCES

1. American Conference Governmental Industrial Hygienists, 1989; Threshold Limit Values and Biological Exposure Indices, 111 Pp.

2. Geoenvironmental Consultants, Inc.; 1987; Safety & Operations At Hazardous Materials Sites

3. NIOSH Guide To Chemical Hazards, 2002, US Department Of Health And Human Services, Centers For Disease Control

4. US Department Of Labor Occupational Safety & Health Administration, 1989; Hazardous Waste Operations And Emergency Response Interim Final Rule, 29 CFR Part 1910

5. Sax, N. I. Dangerous Properties Of Industrial Materials; © 1984

7.0 KEY PERSONNEL

Responsibility	Name and Phone Number	Task Description
Project Manager	Eric Weinstock (516) 576-8844	Oversee and coordinate all technical aspects for the project
Site Safety Officer	Jason Cooper (516) 576-8844	Coordinate and inspect all health and safety operations from the project site
Client Representative	Andrew Bradfield (212) 431-5900	
Project Manager Alternate	Steve Sobstyl (516) 576-8844	
Site Safety Officer Alternate	Victoria Whelan (516) 576-8844	

FIGURE

Notes

Trip to:

121 Dekalb Ave

Brooklyn, NY 11201-5425

1.17 miles / 3 minutes

882 Fulton St, Brooklyn, NY 11238-1707

Download Free App

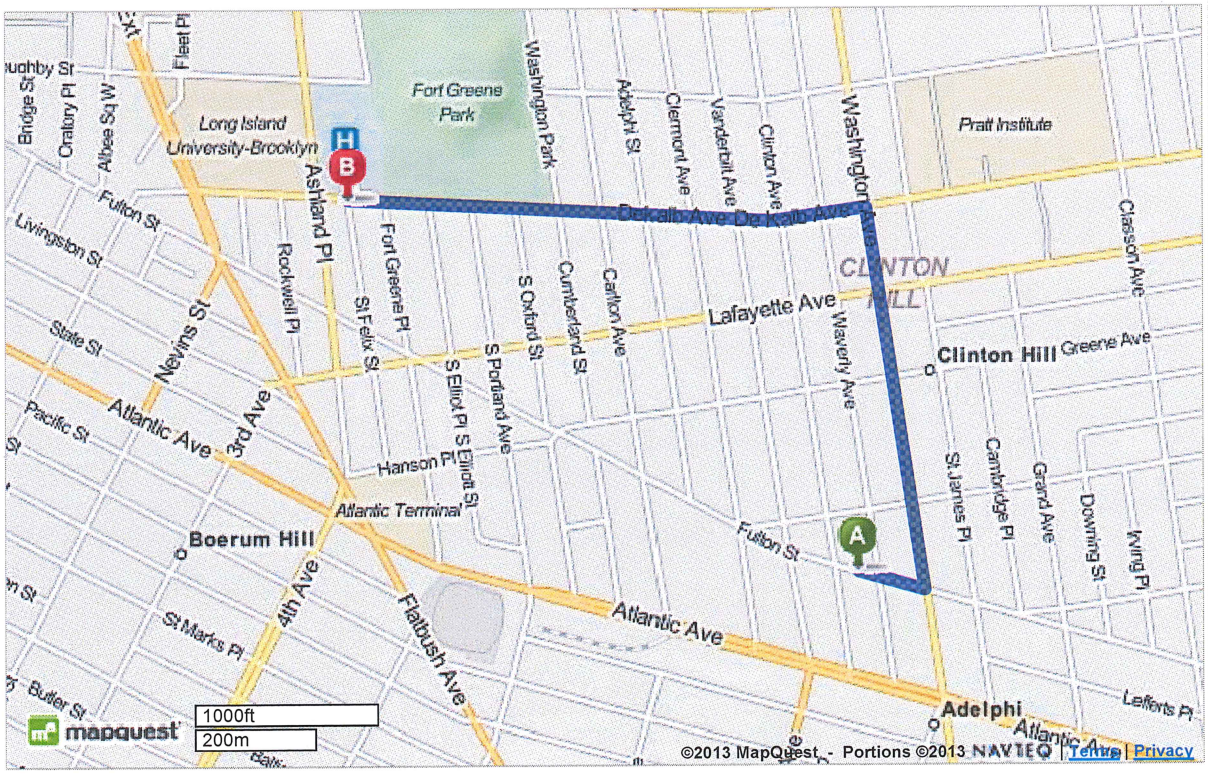
1. Start out going **east** on **Fulton St** toward **Waverly Ave**. Map — **0.08 Mi** — *0.08 Mi Total*

2. Turn **left** onto **Washington Ave**. Map — **0.5 Mi** — *0.5 Mi Total*
   Washington Ave is just past Waverly Ave
   Happy Happy Chinese Restrnt is on the corner
   If you reach St James Pl you've gone a little too far

3. Turn **left** onto **De Kalb Ave / Dekalb Ave**. Map — **0.6 Mi** — *1.2 Mi Total*
   De Kalb Ave is 0.1 miles past Lafayette Ave
   If you reach Willoughby Ave you've gone about 0.1 miles too far

4. **121 DEKALB AVE** is on the **right**. Map
   Your destination is just past Fort Greene Pl
   If you reach Ashland Pl you've gone a little too far

121 Dekalb Ave, Brooklyn, NY 11201-5425



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Appendix A

Toxicological Information

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

Search the Pocket Guide

SEARCH

Enter search terms separated by spaces.

Arsenic (inorganic compounds, as As)

Synonyms & Trade Names Arsenic metal: Arsenia
Other synonyms vary depending upon the specific As compound. [Note: OSHA considers "Inorganic Arsenic" to mean copper acetoarsenite and all inorganic compounds containing arsenic except ARSINE.]

CAS No. 7440-38-2 (metal)	**RTECS No.** CG0525000 (metal) (/niosh-rtecs/CG802C8.html)	**DOT ID & Guide** 1558 152 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=152) (http://www.cdc.gov/Other/disclaimer.html) (metal) 1562 152 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=152) (http://www.cdc.gov/Other/disclaimer.html) (dust)
Formula As (metal)	**Conversion**	**IDLH** Ca [5 mg/m3 (as As)] See: 7440382 (/niosh/idlh/7440382.html)
Exposure Limits **NIOSH REL** : Ca C 0.002 mg/m3 [15-minute] See Appendix A (nengapdxa.html) **OSHA PEL** : [1910.1018] TWA 0.010 mg/m3		**Measurement Methods** **NIOSH** 7300 (/niosh/docs/2003-154/pdfs/7300.pdf), 7301 (/niosh/docs/2003-154/pdfs/7301.pdf), 7303 (/niosh/docs/2003-154/pdfs/7303.pdf), 7900 (/niosh/docs/2003-154/pdfs/7900.pdf), 9102 (/niosh/docs/2003-154/pdfs/9102.pdf); **OSHA** ID105 (http://www.osha.gov/dts/sltc/methods/inorganic/id105/id105.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Metal: Silver-gray or tin-white, brittle, odorless solid.

MW: 74.9	**BP:** Sublimes	MLT: 1135°F (Sublimes)	**Sol:** Insoluble	**VP:** 0 mmHg (approx)	**IP:** NA
Sp.Gr: 5.73 (metal)	**Fl.P:** NA	**UEL:** NA	**LEL:** NA		

Metal: Noncombustible Solid in bulk form, but a slight explosion hazard in the form of dust when exposed to flame.

Incompatibilities & Reactivities Strong oxidizers, bromine azide [Note: Hydrogen gas can react with inorganic arsenic to form the highly toxic gas arsine.]

arsenic to form the highly toxic gas arsine.]

Exposure Routes inhalation, skin absorption, skin and/or eye contact, ingestion

Symptoms Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, resp irritation, hyperpigmentation of skin, [potential occupational carcinogen]

Target Organs Liver, kidneys, skin, lungs, lymphatic system

Cancer Site [lung & lymphatic cancer]

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated/Daily
Remove: When wet or contaminated
Change: Daily
Provide: Eyewash, Quick drench

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash immediately
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations
(See Appendix E) (nengapdxe.html)

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted acid gas canister having an N100, R100, or P100 filter.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0013 (/niosh/ipcsneng/neng0013.html)
See MEDICAL TESTS: 0017 (/niosh/docs/2005-110/nmed0017.html)

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Lead

Synonyms & Trade Names Lead metal, Plumbum

CAS No. 7439-92-1	**RTECS No.** OF7525000 (/niosh-rtecs/OF72D288.html)	**DOT ID & Guide**
Formula Pb	**Conversion**	**IDLH** 100 mg/m3 (as Pb) See: 7439921 (/niosh/idlh/7439921.html)

Exposure Limits

NIOSH REL *: TWA (8-hour) 0.050 mg/m3 See Appendix C (nengapdxc.html) [*Note: The REL also applies to other lead compounds (as Pb) -- see Appendix C.]

OSHA PEL *: [1910.1025] TWA 0.050 mg/m3 See Appendix C (nengapdxc.html) [*Note: The PEL also applies to other lead compounds (as Pb) -- see Appendix C.]

Measurement Methods

NIOSH 7082 (/niosh/docs/2003-154/pdfs/7082.pdf), 7105 (/niosh/docs/2003-154/pdfs/7105.pdf), 7300 (/niosh/docs/2003-154/pdfs/7300.pdf), 7301 (/niosh/docs/2003-154/pdfs/7301.pdf), 7303 (/niosh/docs/2003-154/pdfs/7303.pdf), 7700 (/niosh/docs/2003-154/pdfs/7700.pdf), 7701 (/niosh/docs/2003-154/pdfs/7701.pdf), 7702 (/niosh/docs/2003-154/pdfs/7702.pdf), 9100 (/niosh/docs/2003-154/pdfs/9100.pdf), 9102 (/niosh/docs/2003-154/pdfs/9102.pdf), 9105 (/niosh/docs/2003-154/pdfs/9105.pdf);
OSHA ID121 (http://www.osha.gov/dts/sltc/methods/inorganic/id121/id121.html) (http://www.cdc.gov/Other/disclaimer.html), ID125G (http://www.osha.gov/dts/sltc/methods/inorganic/id125g/id125g.html) (http://www.cdc.gov/Other/disclaimer.html), ID206 (http://www.osha.gov/dts/sltc/methods/inorganic/id206/id206.html) (http://www.cdc.gov/Other/disclaimer.html)
See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description A heavy, ductile, soft, gray solid.

MW:	BP:	MLT:	Sol:	VP:	IP:
207.2	3164°F	621°F	Insoluble	0 mmHg (approx)	NA
Sp.Gr: 11.34	**Fl.P:** NA	**UEL:** NA	**LEL:** NA		

Noncombustible Solid in bulk form.

Incompatibilities & Reactivities Strong oxidizers, hydrogen peroxide, acids

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Mercury compounds [except (organo) alkyls] (as Hg)

Synonyms & Trade Names Mercury metal: Colloidal mercury, Metallic mercury, Quicksilver
Synonyms of "other" Hg compounds vary depending upon the specific compound.

CAS No. 7439-97-6 (metal)	**RTECS No.** OV4550000 (metal) (/niosh-rtecs/OV456D70.html)	**DOT ID & Guide** 2809 172 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=172) (http://www.cdc.gov/Other/disclaimer.html) (metal)
Formula Hg (metal)	**Conversion**	**IDLH** 10 mg/m3 (as Hg) See: 7439976 (/niosh/idlh/7439976.html)
Exposure Limits **NIOSH REL** : Hg Vapor: TWA 0.05 mg/m3 [skin] Other: C 0.1 mg/m3 [skin] **OSHA PEL** † (nengapdxg.html) : TWA 0.1 mg/m3		**Measurement Methods** **NIOSH** 6009 (/niosh/docs/2003-154/pdfs/6009.pdf) ; **OSHA** ID140 (http://www.osha.gov/dts/sltc/methods/inorganic/id140/id140.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Metal: Silver-white, heavy, odorless liquid. [Note: "Other" Hg compounds include all inorganic & aryl Hg compounds except (organo) alkyls.]

MW: 200.6	**BP:** 674°F	**FRZ:** -38°F	**Sol:** Insoluble	**VP:** 0.0012 mmHg	**IP:** ?
Sp.Gr: 13.6 (metal)	**Fl.P:** NA	**UEL:** NA	**LEL:** NA		

Metal: Noncombustible Liquid

Incompatibilities & Reactivities Acetylene, ammonia, chlorine dioxide, azides, calcium (amalgam formation), sodium carbide, lithium, rubidium, copper

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis;

tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria

Target Organs Eyes, skin, respiratory system, central nervous system, kidneys

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: No recommendation
Wash skin: When contaminated
Remove: When wet or contaminated
Change: Daily

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash promptly
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

Mercury vapor:

NIOSH

Up to 0.5 mg/m3:
(APF = 10) Any chemical cartridge respirator with cartridge(s) providing protection against the compound of concern†
(APF = 10) Any supplied-air respirator

Up to 1.25 mg/m3:
(APF = 25) Any supplied-air respirator operated in a continuous-flow mode
(APF = 25) Any powered, air-purifying respirator with cartridge(s) providing protection against the compound of concern†(canister)

Up to 2.5 mg/m3:
(APF = 50) Any chemical cartridge respirator with a full facepiece and cartridge(s) providing protection against the compound of concern†
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against the compound of concern†
(APF = 50) Any supplied-air respirator that has a tight-fitting facepiece and is operated in a continuous-flow mode
(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and cartridge(s) providing protection against the compound of concern(canister)
(APF = 50) Any self-contained breathing apparatus with a full facepiece
(APF = 50) Any supplied-air respirator with a full facepiece

Up to 10 mg/m3:
(APF = 1000) Any supplied-air respirator operated in a pressure-demand or other positive-pressure mode

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against the compound of concern
Any appropriate escape-type, self-contained breathing apparatus

Other mercury compounds: NIOSH/OSHA

Up to 1 mg/m3:
(APF = 10) Any chemical cartridge respirator with cartridge(s) providing protection against the compound of concern†

(APF = 10) Any supplied-air respirator

Up to 2.5 mg/m3:
(APF = 25) Any supplied-air respirator operated in a continuous-flow mode
(APF = 25) Any powered, air-purifying respirator with cartridge(s) providing protection against the compound of concern†(canister)

Up to 5 mg/m3:
(APF = 50) Any chemical cartridge respirator with a full facepiece and cartridge(s) providing protection against the compound of concern†
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against the compound of concern†
(APF = 50) Any supplied-air respirator that has a tight-fitting facepiece and is operated in a continuous-flow mode
(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and cartridge(s) providing protection against the compound of concern(canister)
(APF = 50) Any self-contained breathing apparatus with a full facepiece
(APF = 50) Any supplied-air respirator with a full facepiece

Up to 10 mg/m3:
(APF = 1000) Any supplied-air respirator operated in a pressure-demand or other positive-pressure mode

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against the compound of concern
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0056 (/niosh/ipcsneng/neng0056.html) See MEDICAL TESTS: 0136 (/niosh/docs/2005-110/nmed0136.html)

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Chromium metal

Synonyms & Trade Names Chrome, Chromium

CAS No. 7440-47-3	RTECS No. GB4200000 (/niosh-rtecs/GB401640.html)	DOT ID & Guide
Formula Cr	Conversion	IDLH 250 mg/m3 (as Cr) See: 7440473 (/niosh/idlh/7440473.html)

Exposure Limits	Measurement Methods
NIOSH REL : TWA 0.5 mg/m3 See Appendix C (nengapdxc.html) OSHA PEL *: TWA 1 mg/m3 See Appendix C (nengapdxc.html) [*Note: The PEL also applies to insoluble chromium salts.]	**NIOSH** 7024 (/niosh/docs/2003-154/pdfs/7024.pdf), 7300 (/niosh/docs/2003-154/pdfs/7300.pdf), 7301 (/niosh/docs/2003-154/pdfs/7301.pdf), 7303 (/niosh/docs/2003-154/pdfs/7303.pdf), 9102 (/niosh/docs/2003-154/pdfs/9102.pdf) ; **OSHA** ID121 (http://www.osha.gov/dts/sltc/methods/inorganic/id121/id121.html) (http://www.cdc.gov/Other/disclaimer.html), ID125G (http://www.osha.gov/dts/sltc/methods/inorganic/id125g/id125g.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Blue-white to steel-gray, lustrous, brittle, hard, odorless solid.

MW: 52.0	BP: 4788°F	MLT: 3452°F	Sol: Insoluble	VP: 0 mmHg (approx)	IP: NA
Sp.Gr: 7.14	Fl.P: NA	UEL: NA	LEL: NA		

Noncombustible Solid in bulk form, but finely divided dust burns rapidly if heated in a flame.

Incompatibilities & Reactivities Strong oxidizers (such as hydrogen peroxide), alkalis

Exposure Routes inhalation, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin; lung fibrosis (histologic)

Target Organs Eyes, skin, respiratory system

Personal Protection/Sanitation (See protection codes (protect.html))	First Aid (See procedures (firstaid.html))
Skin: No recommendation **Eyes:** No recommendation **Wash skin:** No recommendation **Remove:** No recommendation **Change:** No recommendation	**Eye:** Irrigate immediately **Skin:** Soap wash **Breathing:** Respiratory support **Swallow:** Medical attention immediately

Respirator Recommendations

NIOSH

Up to 2.5 mg/m3:
(APF = 5) Any quarter-mask respirator.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.*

Up to 5 mg/m3:
(APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.*
(APF = 10) Any supplied-air respirator*

Up to 12.5 mg/m3:
(APF = 25) Any supplied-air respirator operated in a continuous-flow mode*
(APF = 25) Any powered, air-purifying respirator with a high-efficiency particulate filter.*

Up to 25 mg/m3:
(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.
(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter*
(APF = 50) Any self-contained breathing apparatus with a full facepiece
(APF = 50) Any supplied-air respirator with a full facepiece

Up to 250 mg/m3:
(APF = 2000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:

(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0029 (/niosh/ipcsneng/neng0029.html)

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Chromium(III) compounds (as Cr)

Synonyms & Trade Names Synonyms vary depending upon the specific Chromium(III) compound. [Note: Chromium(III) compounds include soluble chromic salts.]

CAS No.	RTECS No.	DOT ID & Guide
	Conversion	**IDLH** 25 mg/m3 [as Cr(III)] See: cr3m3 (/niosh/idlh/cr3m3.html)

Exposure Limits	Measurement Methods
NIOSH REL : TWA 0.5 mg/m3 See Appendix C (nengapdxc.html) **OSHA PEL** : TWA 0.5 mg/m3 See Appendix C (nengapdxc.html)	**NIOSH** 7024 (/niosh/docs/2003-154/pdfs/7024.pdf), 7300 (/niosh/docs/2003-154/pdfs/7300.pdf), 7301 (/niosh/docs/2003-154/pdfs/7301.pdf), 7303 (/niosh/docs/2003-154/pdfs/7303.pdf), 9102 (/niosh/docs/2003-154/pdfs/9102.pdf) ; **OSHA** ID121 (http://www.osha.gov/dts/sltc/methods/inorganic/id121/id121.html) (http://www.cdc.gov/Other/disclaimer.html), ID125G (http://www.osha.gov/dts/sltc/methods/inorganic/id125g/id125g.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Appearance and odor vary depending upon the specific compound.

Properties vary depending upon the specific compound.					

Incompatibilities & Reactivities Varies

Exposure Routes inhalation, ingestion, skin and/or eye contact

Symptoms irritation eyes; sensitization dermatitis

Target Organs Eyes, skin

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet or contaminated
Change: No recommendation

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Water flush promptly
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

NIOSH/OSHA

Up to 2.5 mg/m3:
(APF = 5) Any quarter-mask respirator.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.*

Up to 5 mg/m3:
(APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.*
(APF = 10) Any supplied-air respirator*

Up to 12.5 mg/m3:
(APF = 25) Any supplied-air respirator operated in a continuous-flow mode*
(APF = 25) Any powered, air-purifying respirator with a high-efficiency particulate filter.*

Up to 25 mg/m3:
(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.
(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter*
(APF = 50) Any self-contained breathing apparatus with a full facepiece
(APF = 50) Any supplied-air respirator with a full facepiece

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-

contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See MEDICAL TESTS: 0052 (/niosh/docs/2005-110/nmed0052.html)

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Benzene

Synonyms & Trade Names Benzol, Phenyl hydride

CAS No. 71-43-2	**RTECS No.** CY1400000 (/niosh-rtecs/CY155CC0.html)	**DOT ID & Guide** 1114 130 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=130) (http://www.cdc.gov/Other/disclaimer.html)
Formula C_6H_6	**Conversion** 1 ppm = 3.19 mg/m3	**IDLH** Ca [500 ppm] See: 71432 (/niosh/idlh/71432.html)
Exposure Limits **NIOSH REL** : Ca TWA 0.1 ppm ST 1 ppm See Appendix A (nengapdxa.html) **OSHA PEL** : [1910.1028] TWA 1 ppm ST 5 ppm See Appendix F (nengapdxf.html)		**Measurement Methods** **NIOSH** 1500 (/niosh/docs/2003-154/pdfs/1500.pdf), 1501 (/niosh/docs/2003-154/pdfs/1501.pdf), 3700 (/niosh/docs/2003-154/pdfs/3700.pdf), 3800 (/niosh/docs/2003-154/pdfs/3800.pdf); **OSHA** 12 (http://www.osha.gov/dts/sltc/methods/organic/org012/org012.html) (http://www.cdc.gov/Other/disclaimer.html), 1005 (http://www.osha.gov/dts/sltc/methods/validated/1005/1005.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless to light-yellow liquid with an aromatic odor. [Note: A solid below 42°F.]

MW: 78.1	**BP:** 176°F	**FRZ:** 42°F	**Sol:** 0.07%	**VP:** 75 mmHg	**IP:** 9.24 eV
Sp.Gr: 0.88	**Fl.P:** 12°F	**UEL:** 7.8%	**LEL:** 1.2%		

Class IB Flammable Liquid: Fl.P. below 73°F and BP at or above 100°F.

Incompatibilities & Reactivities Strong oxidizers, many fluorides & perchlorates, nitric acid

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]

Target Organs Eyes, skin, respiratory system, blood, central nervous system, bone marrow

Cancer Site [leukemia]

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet (flammable)
Change: No recommendation
Provide: Eyewash, Quick drench

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash immediately
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations
(See Appendix E) (nengapdxe.html)

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0015 (/niosh/ipcsneng/neng0015.html) See MEDICAL TESTS: 0022 (/niosh/docs/2005-110/nmed0022.html)

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Ethyl benzene

Synonyms & Trade Names Ethylbenzol, Phenylethane

CAS No. 100-41-4	**RTECS No.** DA0700000 (/niosh-rtecs/DAAAE60.html)	**DOT ID & Guide** 1175 130 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=130) (http://www.cdc.gov/Other/disclaimer.html)
Formula $CH_3CH_2C_6H_5$	**Conversion** 1 ppm = 4.34 mg/m3	**IDLH** 800 ppm [10%LEL] See: 100414 (/niosh/idlh/100414.html)

Exposure Limits **NIOSH REL** : TWA 100 ppm (435 mg/m3) ST 125 ppm (545 mg/m3) **OSHA PEL** † (nengapdxg.html) : TWA 100 ppm (435 mg/m3)	**Measurement Methods** **NIOSH** 1501 (/niosh/docs/2003-154/pdfs/1501.pdf) ; **OSHA** 7 (http://www.osha.gov/dts/sltc/methods/organic/org001/org001.html) (http://www.cdc.gov/Other/disclaimer.html) , 1002 (http://www.osha.gov/dts/sltc/methods/mdt/mdt1002/1002.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with an aromatic odor.

MW: 106.2	**BP:** 277°F	**FRZ:** -139°F	**Sol:** 0.01%	**VP:** 7 mmHg	**IP:** 8.76 eV
Sp.Gr: 0.87	**Fl.P:** 55°F	**UEL:** 6.7%	**LEL:** 0.8%		

Class IB Flammable Liquid: Fl.P. below 73°F and BP at or above 100°F.

Incompatibilities & Reactivities Strong oxidizers

Exposure Routes inhalation, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma

Target Organs Eyes, skin, respiratory system, central nervous system

Personal Protection/Sanitation (See protection codes (protect.html)) **Skin:** Prevent skin contact **Eyes:** Prevent eye contact **Wash skin:** When contaminated **Remove:** When wet (flammable) **Change:** No recommendation	**First Aid** (See procedures (firstaid.html)) **Eye:** Irrigate immediately **Skin:** Water flush promptly **Breathing:** Respiratory support **Swallow:** Medical attention immediately

Respirator Recommendations

NIOSH/OSHA

Up to 800 ppm:
(APF = 10) Any chemical cartridge respirator with organic vapor cartridge(s)*
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
(APF = 25) Any powered, air-purifying respirator with organic vapor cartridge(s)*
(APF = 10) Any supplied-air respirator*
(APF = 50) Any self-contained breathing apparatus with a full facepiece

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0268 (/niosh/ipcsneng/neng0268.html)
See MEDICAL TESTS: 0098 (/niosh/docs/2005-110/nmed0098.html)

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m-Xylene

Synonyms & Trade Names 1,3-Dimethylbenzene; meta-Xylene; m-Xylol

CAS No. 108-38-3	**RTECS No.** ZE2275000 (/niosh-rtecs/ZE22B6B8.html)	**DOT ID & Guide** 1307 130 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=130) (http://www.cdc.gov/Other/disclaimer.html)
Formula $C_6H_4(CH_3)_2$	**Conversion** 1 ppm = 4.34 mg/m3	**IDLH** 900 ppm See: 95476 (/niosh/idlh/95476.html)

Exposure Limits

NIOSH REL : TWA 100 ppm (435 mg/m3) ST 150 ppm (655 mg/m3)
OSHA PEL † (nengapdxg.html) : TWA 100 ppm (435 mg/m3)

Measurement Methods

NIOSH 1501 (/niosh/docs/2003-154/pdfs/1501.pdf), 3800 (/niosh/docs/2003-154/pdfs/3800.pdf);
OSHA 1002 (http://www.osha.gov/dts/sltc/methods/mdt/mdt1002/1002.html) (http://www.cdc.gov/Other/disclaimer.html)
See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with an aromatic odor.

MW:	BP:	FRZ:	Sol:	VP:	IP:
106.2	282°F	-54°F	Slight	9 mmHg	8.56 eV
Sp.Gr:	**Fl.P:**	**UEL:**	**LEL:**		
0.86	82°F	7.0%	1.1%		

Class IC Flammable Liquid: Fl.P. at or above 73°F and below 100°F.

Incompatibilities & Reactivities Strong oxidizers, strong acids

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis

Target Organs Eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet (flammable)

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash promptly
Breathing: Respiratory support
Swallow: Medical attention immediately

Change: No recommendation

Respirator Recommendations

NIOSH/OSHA

Up to 900 ppm:
(APF = 10) Any chemical cartridge respirator with organic vapor cartridge(s)*
(APF = 25) Any powered, air-purifying respirator with organic vapor cartridge(s)*
(APF = 10) Any supplied-air respirator*
(APF = 50) Any self-contained breathing apparatus with a full facepiece

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0085 (/niosh/ipcsneng/neng0085.html)

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o-Xylene

Synonyms & Trade Names 1,2-Dimethylbenzene; ortho-Xylene; o-Xylol

CAS No. 95-47-6	**RTECS No.** ZE2450000 (/niosh-rtecs/ZE256250.html)	**DOT ID & Guide** 1307 130 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=130) (http://www.cdc.gov/Other/disclaimer.html)
Formula $C_6H_4(CH_3)_2$	**Conversion** 1 ppm = 4.34 mg/m3	**IDLH** 900 ppm See: 95476 (/niosh/idlh/95476.html)

Exposure Limits **NIOSH REL** : TWA 100 ppm (435 mg/m3) ST 150 ppm (655 mg/m3) **OSHA PEL** † (nengapdxg.html) : TWA 100 ppm (435 mg/m3)	**Measurement Methods** **NIOSH** 1501 (/niosh/docs/2003-154/pdfs/1501.pdf), 3800 (/niosh/docs/2003-154/pdfs/3800.pdf); **OSHA** 1002 (http://www.osha.gov/dts/sltc/methods/mdt/mdt1002/1002.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with an aromatic odor.

MW:	BP:	FRZ:	Sol:	VP:	IP:
106.2	292°F	-13°F	0.02%	7 mmHg	8.56 eV
Sp.Gr:	**Fl.P:**	**UEL:**	**LEL:**		
0.88	90°F	6.7%	0.9%		

Class IC Flammable Liquid: Fl.P. at or above 73°F and below 100°F.

Incompatibilities & Reactivities Strong oxidizers, strong acids

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis

Target Organs Eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys

Personal Protection/Sanitation (See protection codes (protect.html)) **Skin:** Prevent skin contact **Eyes:** Prevent eye contact **Wash skin:** When contaminated **Remove:** When wet (flammable)	**First Aid** (See procedures (firstaid.html)) **Eye:** Irrigate immediately **Skin:** Soap wash promptly **Breathing:** Respiratory support **Swallow:** Medical attention immediately

Remove: When wet (flammable)
Change: No recommendation

Respirator Recommendations

NIOSH/OSHA

Up to 900 ppm:
(APF = 10) Any chemical cartridge respirator with organic vapor cartridge(s)*
(APF = 25) Any powered, air-purifying respirator with organic vapor cartridge(s)*
(APF = 10) Any supplied-air respirator*
(APF = 50) Any self-contained breathing apparatus with a full facepiece

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0084 (/niosh/ipcsneng/neng0084.html)

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p-Xylene

Synonyms & Trade Names 1,4-Dimethylbenzene; para-Xylene; p-Xylol

CAS No. 106-42-3	**RTECS No.** ZE2625000 (/niosh-rtecs/ZE280DE8.html)	**DOT ID & Guide** 1307 130 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=130) (http://www.cdc.gov/Other/disclaimer.html)
Formula $C_6H_4(CH_3)_2$	**Conversion** 1 ppm = 4.41 mg/m3	**IDLH** 900 ppm See: 95476 (/niosh/idlh/95476.html)
Exposure Limits **NIOSH REL** : TWA 100 ppm (435 mg/m3) ST 150 ppm (655 mg/m3) **OSHA PEL** † (nengapdxg.html) : TWA 100 ppm (435 mg/m3)		**Measurement Methods** **NIOSH** 1501 (/niosh/docs/2003-154/pdfs/1501.pdf) , 3800 (/niosh/docs/2003-154/pdfs/3800.pdf) ; **OSHA** 1002 (http://www.osha.gov/dts/sltc/methods/mdt/mdt1002/1002.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with an aromatic odor. [Note: A solid below 56°F.]

MW:	BP:	FRZ:	Sol:	VP:	IP:
106.2	281°F	56°F	0.02%	9 mmHg	8.44 eV
Sp.Gr:	**Fl.P:**	**UEL:**	**LEL:**		
0.86	81°F	7.0%	1.1%		

Class IC Flammable Liquid: Fl.P. at or above 73°F and below 100°F.

Incompatibilities & Reactivities Strong oxidizers, strong acids

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis

Target Organs Eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys

Personal Protection/Sanitation (See protection codes (protect.html)) **Skin:** Prevent skin contact **Eyes:** Prevent eye contact **Wash skin:** When contaminated **Remove:** When wet (flammable)	**First Aid** (See procedures (firstaid.html)) **Eye:** Irrigate immediately **Skin:** Soap wash promptly **Breathing:** Respiratory support **Swallow:** Medical attention immediately

Change: No recommendation

Respirator Recommendations

NIOSH/OSHA

Up to 900 ppm:
(APF = 10) Any chemical cartridge respirator with organic vapor cartridge(s)*
(APF = 25) Any powered, air-purifying respirator with organic vapor cartridge(s)*
(APF = 10) Any supplied-air respirator*
(APF = 50) Any self-contained breathing apparatus with a full facepiece

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0086 (/niosh/ipcsneng/neng0086.html)

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Chlorodiphenyl (54% chlorine)

Synonyms & Trade Names Aroclor® 1254, PCB, Polychlorinated biphenyl

CAS No. 11097-69-1	**RTECS No.** TQ1360000 (/niosh-rtecs/TQ14C080.html)	**DOT ID & Guide** 2315 171 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=171) (http://www.cdc.gov/Other/disclaimer.html)
Formula $C_6H_3Cl_2C_6H_2Cl_3$ (approx)	**Conversion**	**IDLH** Ca [5 mg/m3] See: IDLH INDEX (/idlh/intridl4.html)
Exposure Limits **NIOSH REL** *: Ca TWA 0.001 mg/m3 See Appendix A (nengapdxa.html) [*Note: The REL also applies to other PCBs.] **OSHA PEL** : TWA 0.5 mg/m3 [skin]		**Measurement Methods** **NIOSH** 5503 (/niosh/docs/2003-154/pdfs/5503.pdf) ; **OSHA** PV2088 (http://www.osha.gov/dts/sltc/methods/partial/t-pv2088-01-8812-ch/t-pv2088-01-8812-ch.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless to pale-yellow, viscous liquid or solid (below 50°F) with a mild, hydrocarbon odor.

MW: 326 (approx)	**BP:** 689-734°F	**FRZ:** 50°F	**Sol:** Insoluble	**VP:** 0.00006 mmHg	**IP:** ?
Sp.Gr(77°F): 1.38	**Fl.P:** NA	**UEL:** NA	**LEL:** NA		

Nonflammable Liquid, but exposure in a fire results in the formation of a black soot containing PCBs, polychlorinated dibenzofurans, and chlorinated dibenzo-p-dioxins.

Incompatibilities & Reactivities Strong oxidizers

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, chloracne; liver damage; reproductive effects; [potential occupational carcinogen]

carcinogen]

Target Organs Skin, eyes, liver, reproductive system

Cancer Site [in animals: tumors of the pituitary gland & liver, leukemia]

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet or contaminated
Change: Daily
Provide: Eyewash, Quick drench

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash immediately
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister having an N100, R100, or P100 filter.
Click here (pgintrod.html#nrp) for information on selection of N, R, or P filters.
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0939 (/niosh/ipcsneng/neng0939.html) See MEDICAL TESTS: 0176 (/niosh/docs/2005-110/nmed0176.html)

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Tetrachloroethylene

Synonyms & Trade Names Perchlorethylene, Perchloroethylene, Perk, Tetrachlorethylene

CAS No. 127-18-4	**RTECS No.** KX3850000 (/niosh-rtecs/KX3ABF10.html)	**DOT ID & Guide** 1897 160 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=160) (http://www.cdc.gov/Other/disclaimer.html)
Formula $Cl_2C{=}CCl_2$	**Conversion** 1 ppm = 6.78 mg/m3	**IDLH** Ca [150 ppm] See: 127184 (/niosh/idlh/127184.html)

Exposure Limits **NIOSH REL** : Ca Minimize workplace exposure concentrations. See Appendix A (nengapdxa.html) **OSHA PEL** † (nengapdxg.html) : TWA 100 ppm C 200 ppm (for 5 minutes in any 3-hour period), with a maximum peak of 300 ppm	**Measurement Methods** **NIOSH** 1003 (/niosh/docs/2003-154/pdfs/1003.pdf) ; **OSHA** 1001 (http://www.osha.gov/dts/sltc/methods/mdt/mdt1001/1001.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with a mild, chloroform-like odor.

MW: 165.8	**BP:** 250°F	**FRZ:** -2°F	**Sol:** 0.02%	**VP:** 14 mmHg	**IP:** 9.32 eV
Sp.Gr: 1.62	**Fl.P:** NA	**UEL:** NA	**LEL:** NA		

Noncombustible Liquid, but decomposes in a fire to hydrogen chloride and phosgene.

Incompatibilities & Reactivities Strong oxidizers; chemically-active metals such as lithium, beryllium & barium; caustic soda; sodium hydroxide; potash

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]

Target Organs Eyes, skin, respiratory system, liver, kidneys, central nervous system

Cancer Site [in animals: liver tumors]

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet or contaminated
Change: No recommendation
Provide: Eyewash, Quick drench

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash promptly
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0076 (/niosh/ipcsneng/neng0076.html) See MEDICAL TESTS: 0179 (/niosh/docs/2005-110/nmed0179.html)

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Trichloroethylene

Synonyms & Trade Names Ethylene trichloride, TCE, Trichloroethene, Trilene

CAS No. 79-01-6	**RTECS No.** KX4550000 (/niosh-rtecs/KX456D70.html)	**DOT ID & Guide** 1710 160 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=160) (http://www.cdc.gov/Other/disclaimer.html)
Formula $ClCH{=}CCl_2$	**Conversion** 1 ppm = 5.37 mg/m3	**IDLH** Ca [1000 ppm] See: 79016 (/niosh/idlh/79016.html)
Exposure Limits **NIOSH REL** : Ca See Appendix A (nengapdxa.html) See Appendix C (nengapdxc.html) **OSHA PEL** † (nengapdxg.html) : TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 2 hours)		**Measurement Methods** **NIOSH** 1022 (/niosh/docs/2003-154/pdfs/1022.pdf) , 3800 (/niosh/docs/2003-154/pdfs/3800.pdf) ; **OSHA** 1001 (http://www.osha.gov/dts/sltc/methods/mdt/mdt1001/1001.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid (unless dyed blue) with a chloroform-like odor.

MW: 131.4	**BP:** 189°F	**FRZ:** -99°F	**Sol:** 0.1%	**VP:** 58 mmHg	**IP:** 9.45 eV
Sp.Gr: 1.46	**Fl.P:** ?	UEL(77°F): 10.5%	LEL(77°F): 8%		

Combustible Liquid, but burns with difficulty.

Incompatibilities & Reactivities Strong caustics & alkalis; chemically-active metals (such as barium, lithium, sodium, magnesium, titanium & beryllium)

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]

Target Organs Eyes, skin, respiratory system, heart, liver, kidneys, central nervous system

Cancer Site [in animals: liver & kidney cancer]

Personal Protection/Sanitation (See protection codes (protect.html))	**First Aid** (See procedures (firstaid.html)) **Eye:** Irrigate immediately

Skin: Prevent skin contact **Eyes:** Prevent eye contact **Wash skin:** When contaminated **Remove:** When wet or contaminated **Change:** No recommendation **Provide:** Eyewash, Quick drench	**Skin:** Soap wash promptly **Breathing:** Respiratory support **Swallow:** Medical attention immediately

Respirator Recommendations

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0081 (/niosh/ipcsneng/neng0081.html)
See MEDICAL TESTS: 0236 (/niosh/docs/2005-110/nmed0236.html)

Page last reviewed: April 4, 2011
Page last updated: November 18, 2010
Content source: National Institute for Occupational Safety and Health (NIOSH) Education and Information Division

Centers for Disease Control and Prevention 1600 Clifton Rd. Atlanta, GA 30333, USA
800-CDC-INFO (800-232-4636) TTY: (888) 232-6348 - Contact CDC–INFO

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

Search the Pocket Guide

SEARCH

Enter search terms separated by spaces.

Toluene

Synonyms & Trade Names Methyl benzene, Methyl benzol, Phenyl methane, Toluol

CAS No. 108-88-3	**RTECS No.** XS5250000 (/niosh-rtecs/XS501BD0.html)	**DOT ID & Guide** 1294 130 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=130) (http://www.cdc.gov/Other/disclaimer.html)
Formula $C_6H_5CH_3$	**Conversion** 1 ppm = 3.77 mg/m3	**IDLH** 500 ppm See: 108883 (/niosh/idlh/108883.html)

Exposure Limits **NIOSH REL** : TWA 100 ppm (375 mg/m3) ST 150 ppm (560 mg/m3) **OSHA PEL** † (nengapdxg.html) : TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak)	**Measurement Methods** **NIOSH** 1500 (/niosh/docs/2003-154/pdfs/1500.pdf), 1501 (/niosh/docs/2003-154/pdfs/1501.pdf), 3800 (/niosh/docs/2003-154/pdfs/3800.pdf), 4000 (/niosh/docs/2003-154/pdfs/4000.pdf); **OSHA** 111 (http://www.osha.gov/dts/sltc/methods/organic/org111/org111.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with a sweet, pungent, benzene-like odor.

MW: 92.1	**BP:** 232°F	**FRZ:** -139°F	Sol(74°F): 0.07%	**VP:** 21 mmHg	**IP:** 8.82 eV
Sp.Gr: 0.87	**Fl.P:** 40°F	**UEL:** 7.1%	**LEL:** 1.1%		

Class IB Flammable Liquid: Fl.P. below 73°F and BP at or above 100°F.

Incompatibilities & Reactivities Strong oxidizers

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage

Target Organs Eyes, skin, respiratory system, central nervous system, liver, kidneys

Personal Protection/Sanitation (See protection codes (protect.html)) **Skin:** Prevent skin contact	**First Aid** (See procedures (firstaid.html)) **Eye:** Irrigate immediately **Skin:** Soap wash promptly

Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet (flammable)
Change: No recommendation

Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

NIOSH

Up to 500 ppm:
(APF = 10) Any chemical cartridge respirator with organic vapor cartridge(s)*
(APF = 25) Any powered, air-purifying respirator with organic vapor cartridge(s)*
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
(APF = 10) Any supplied-air respirator*
(APF = 50) Any self-contained breathing apparatus with a full facepiece

Emergency or planned entry into unknown concentrations or IDLH conditions:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0078 (/niosh/ipcsneng/neng0078.html) See MEDICAL TESTS: 0232 (/niosh/docs/2005-110/nmed0232.html)

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Centers for Disease Control and Prevention 1600 Clifton Rd. Atlanta, GA 30333, USA
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APPENDIX C
Geophysical Survey Map & Letter

NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

GPR
MAGNETICS
ELECTROMAGNETICS
SEISMICS
RESISTIVITY
UTILITY LOCATION
SEWER VIDEO INSPECTION
UXO DETECTION
BOREHOLE CAMERA
STAFF SUPPORT

October 22, 2013

Mr. Eric Weinstock
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, New York 11803

Dear Mr. Weinstock:

This letter is written to inform you of the results of a geophysical investigation conducted by NAEVA Geophysics on October 9, 2013 at a private parking lot located at 882 Fulton Street in Brooklyn, New York. The purpose of this investigation was to investigate accessible portions of the private parking lot for the presence of undocumented/abandoned underground storage tanks (USTs), and to mark out detectable subsurface utilities and features in the vicinity of any suspected UST.

The equipment utilized during this investigation included a Fisher TW-6 Pipe and Cable Locator (a type of hand-held electromagnetic metal-detector), a Sensors and Software ground penetrating radar (GPR) system with a 250-Megahertz (MHz) antenna, a Subsite 950 utility locator, and a Dynatel 2250 Cable Locator. The area of concern was first investigated using the TW-6 metal-detector. Any metal anomaly large enough to potentially represent a UST was marked on the ground and further investigated with the GPR. Several GPR data profiles were collected across each detected metal anomaly in an attempt to better define their sources.

NAEVA identified 21 metal anomalies in the area of investigation (see Figure 1) using the metal-detector. Further investigations of each of the metal anomalies with the GPR device identified four suspected USTs within the large area of metal anomaly located in the southeast portion of the site. GPR data collected over this area of anomaly displayed four separate hyperbolic reflections typically associated with USTs. The sizes of the anomalies have a profile that is indicative of USTs having a 550 gallon capacity. It should be noted that there is a portion of the metal anomaly between the suspected USTs where the GPR did not identify any suspected USTs, but the space is large enough to contain an additional UST. The GPR data did not identify any suspected USTs in the remaining 20 metal anomalies; however, it should be noted that metal anomalies 4 by 5-feet and larger are big enough to potentially contain USTs.

Prior to 1950 in New York City, City Fire Codes prohibited the storage of motor vehicle fuel in USTs with capacities exceeding 550 gallons. The fact

NEW YORK
225 N Route 303
Suite 102
Congers
New York 10920
(845) 268-1800
(845) 268-1802 Fax

VIRGINIA
P.O. Box 7325
Charlottesville
Virginia 22906
(434) 978-3187
(434) 973-9791 Fax

that there are three suspected USTs side-by-side is consistent with the standard practice at the time, where multiple 550-gallon tanks were ganged together (manifolded) so that they could provide greater capacity to a single exit point, but could be filled simultaneously.

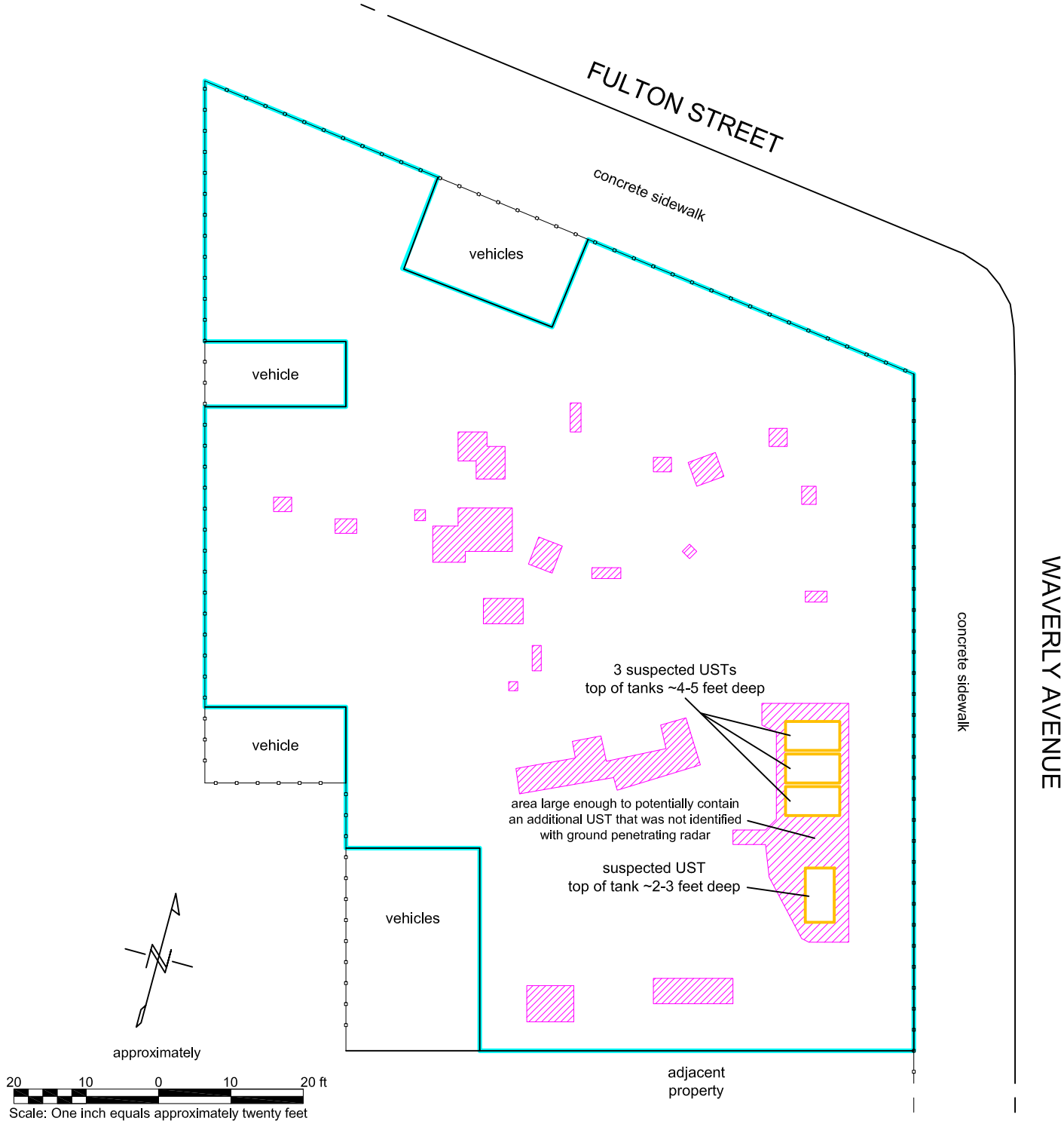
Detected utilities were marked on the ground with spray paint and are included in the attached Figure 1.

Thank you for giving us the opportunity to work with you on this project. Please feel free to contact me if you have any questions or require additional information. We look forward to providing subsurface locating services to you in the future.

Sincerely,

Gerald Williamson
Geophysicist - Project Manager
NAEVA Geophysics, Inc.

Attachments: Figure 1



LEGEND

- metal-detector anomaly
- area of investigation

NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

225 N Route 303, Suite 102
Congers, NY 10920
(845)268-1800
(845)268-1802 FAX

Figure 1. Results of Geophysical Investigation
private parking lot
882 Fulton Street, Brooklyn, New York

Client	CA Rich Consultants Inc.	Date of Work	October 09, 2013
Project No.	C1310091X	Map By	Kelly A. Weyer

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP

APPENDIX D
Soil Boring Logs

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-1**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Brown fine sand		SB-1 (0-2')		0.0
5		Brown fine sand with gravel and concrete pieces				0.0
10		Gray fine sand with little gravel				
		Lite brown fine sand with little gravel				0.0
15				SB-1 (13-15')		

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-2**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Brown fine sand with little gravel		SB-2 (0-2')		
						0.0
5		Tan fine sand with gravel and concrete pieces				
						0.0
10		Tan and gray fine sand with gravel				
		Tan and gray fine sand with gravel and pieces of concrete				0.0
				SB-2 (13-15')		
15						

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-3**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Brown fine sand		SB-3 (0-2')		0.0
5		Gray and tan fine sand				0.0
10		Brown fine sand with little silt and concrete pieces				0.0
15				SB-3 (13-15')		

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-4**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Brown medium sand		SB-4 (0-2')		
						0.0
5		Brown fine sand with gravel and concrete and brick pieces				
						0.0
10		Brown fine and silty sand with concrete and brick pieces				
						0.0
				SB-4 (13-15')		
15						

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-5**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Brown medium sand with brick and concrete pieces		SB-5 (0-2')		
						0.0
5		Brown fine sand				
						0.0
		Concrete pieces				
10		Brown fine sand and silt with concrete pieces				
						0.0
				SB-5 (13-15')		
15						

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-6**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Black ash		SB-6 (0-2')		
		Dark brown fine sand				0.0
5		Brown fine sand with concrete pieces				0.0
10		Brown fine sand with concrete pieces				0.0
				SB-6 (13-15')		
15						

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-7**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Light brown silt		SB-7 (0-2')		
		Light brown fine sand				0.0
5		Tan fine sand with silt and concrete pieces				0.0
10		Light brown silt and fine sand with pieces of concrete				0.0
				SB-7 (13-15')		
15						

NOTES: Cloudy with light rain 65°F

CA RICH Consultants, Inc.

Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **SB-8**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:	**NA**	RIG TYPE:	**Geoprobe 6610 DT**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**5' Macro Cores**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH (Feet)	SOIL TYPE	SOIL DESCRIPTION	COMMENTS	SAMPLE	Blows per ft.	PID ppm
0		Asphalt				
		Light brown fine sand and silt		SB-8 (0-2')		
						0.0
5		Light brown fine sand and silt with concrete pieces				
						0.0
10		Light brown and brown fine sand and silt with concrete pieces				
						0.0
				SB-8 (13-15')		
15						

NOTES: Cloudy with light rain 65°F

APPENDIX E
Typical Soil Vapor Point Construction Details

CA RICH Consultants, Inc.

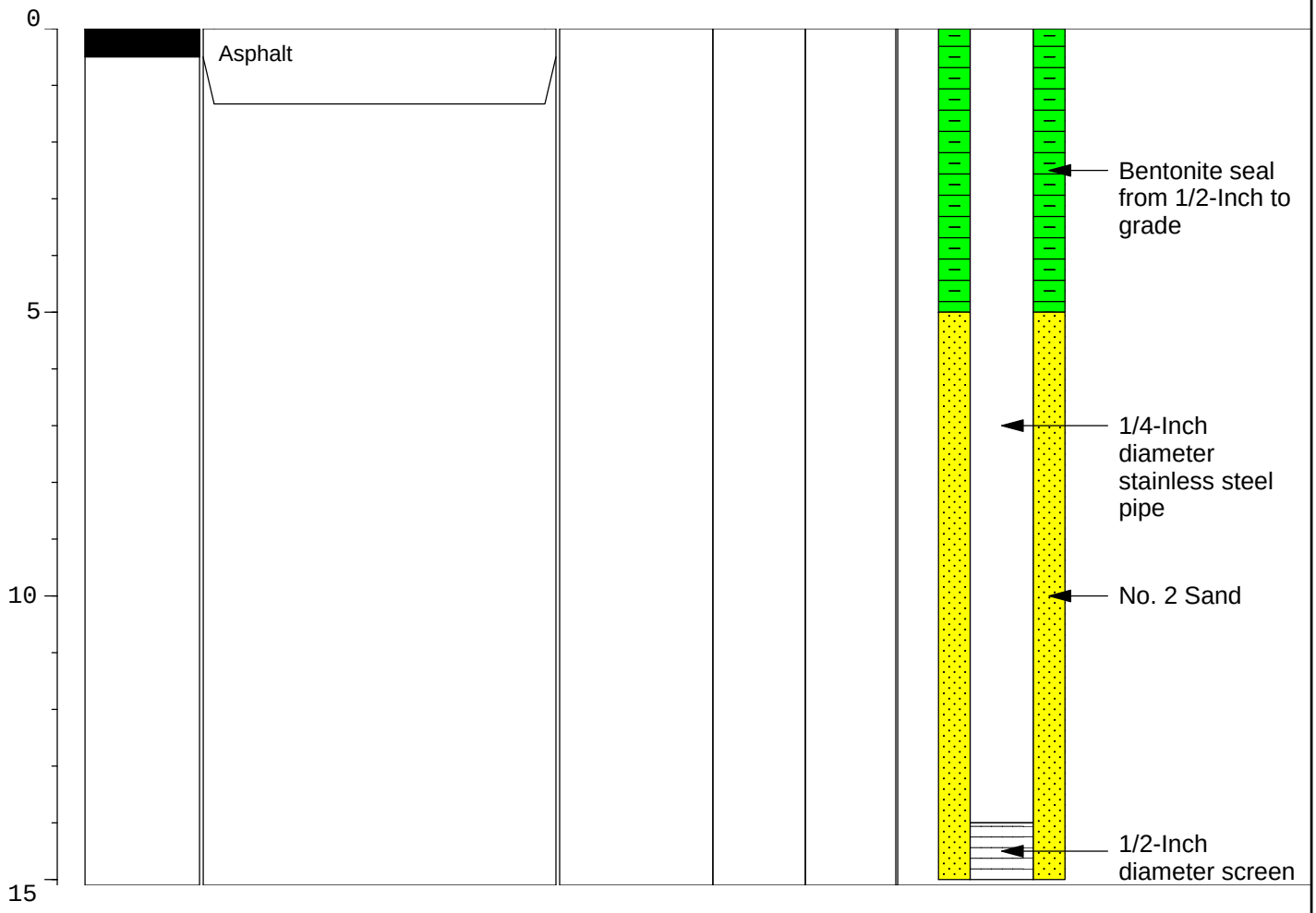
Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **Typical SV Point**
TOTAL DEPTH: **15 ft.**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Orange Management**	DRILLING CO.:	**Aarco Environmental**
SITE LOCATION:	**882 Fulton St., Brooklyn**	DRILLER:	**John Z**
JOB NO.:		RIG TYPE:	**Geoprobe**
LOGGED BY:	**Jason Cooper**	METHOD OF DRILLING:	**Direct Push**
PROJECT MANAGER:	**Eric Weinstock**	SAMPLING METHODS:	**None**
DATES DRILLED:	**10/11/2013**	HAMMER WT./DROP	**NA**

DEPTH FEET	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION



NOTES:

Stainless steel pipe sticks up approximately 1-foot from the ground surface.

APPENDIX F
Laboratory Data for Soil Samples

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Friday, October 25, 2013

Jason Cooper
CA Rich Consultants Inc.
17 Dupont Street
Plainview, NY 11803

TEL: (516) 576-8844
FAX (516) 576-0093

RE: 882 Fulton Ave., Brooklyn, NY

Order No.: 1310114

Dear Jason Cooper:

American Analytical Laboratories, LLC. received 21 sample(s) on 10/14/2013 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 236 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX: (631) 454-8027

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

CLIENT: CA Rich Consultants Inc.
Project: 882 Fulton Ave., Brooklyn, NY
Lab Order: 1310114

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1310114-01A	SB-1 (0-2')	10/11/2013 8:40:00 AM	10/14/2013
1310114-01B	SB-1 (0-2')	10/11/2013 8:40:00 AM	10/14/2013
1310114-02A	SB-1 (13-15')	10/11/2013 8:55:00 AM	10/14/2013
1310114-02B	SB-1 (13-15')	10/11/2013 8:55:00 AM	10/14/2013
1310114-03A	SB-2 (0-2')	10/11/2013 9:10:00 AM	10/14/2013
1310114-03B	SB-2 (0-2')	10/11/2013 9:10:00 AM	10/14/2013
1310114-04A	SB-2 (13-15')	10/11/2013 9:25:00 AM	10/14/2013
1310114-04B	SB-2 (13-15')	10/11/2013 9:25:00 AM	10/14/2013
1310114-05A	SB-3 (0-2')	10/11/2013 10:00:00 AM	10/14/2013
1310114-05B	SB-3 (0-2')	10/11/2013 10:00:00 AM	10/14/2013
1310114-06A	SB-3 (0-2') MS	10/11/2013 10:00:00 AM	10/14/2013
1310114-06B	SB-3 (0-2') MS	10/11/2013 10:00:00 AM	10/14/2013
1310114-07A	SB-3 (0-2') MSD	10/11/2013 10:00:00 AM	10/14/2013
1310114-07B	SB-3 (0-2') MSD	10/11/2013 10:00:00 AM	10/14/2013
1310114-08A	SB-3 (13-15')	10/11/2013 10:15:00 AM	10/14/2013
1310114-08B	SB-3 (13-15')	10/11/2013 10:15:00 AM	10/14/2013
1310114-09A	SB-4 (0-2')	10/11/2013 10:40:00 AM	10/14/2013
1310114-09B	SB-4 (0-2')	10/11/2013 10:40:00 AM	10/14/2013
1310114-10A	SB-4 (13-15')	10/11/2013 11:00:00 AM	10/14/2013
1310114-10B	SB-4 (13-15')	10/11/2013 11:00:00 AM	10/14/2013
1310114-11A	SB-5 (0-2')	10/11/2013 12:15:00 PM	10/14/2013
1310114-11B	SB-5 (0-2')	10/11/2013 12:15:00 PM	10/14/2013
1310114-12A	SB-5 (13-15')	10/11/2013 12:30:00 PM	10/14/2013
1310114-12B	SB-5 (13-15')	10/11/2013 12:30:00 PM	10/14/2013
1310114-13A	SB-6 (0-2')	10/11/2013 1:00:00 PM	10/14/2013
1310114-13B	SB-6 (0-2')	10/11/2013 1:00:00 PM	10/14/2013
1310114-14A	SB-6 (13-15')	10/11/2013 1:20:00 PM	10/14/2013
1310114-14B	SB-6 (13-15')	10/11/2013 1:20:00 PM	10/14/2013
1310114-15A	SB-7 (0-2')	10/11/2013 1:40:00 PM	10/14/2013
1310114-15B	SB-7 (0-2')	10/11/2013 1:40:00 PM	10/14/2013
1310114-16A	SB-7 (13-15')	10/11/2013 1:55:00 PM	10/14/2013
1310114-16B	SB-7 (13-15')	10/11/2013 1:55:00 PM	10/14/2013
1310114-17A	SB-8 (0-2')	10/11/2013 2:20:00 PM	10/14/2013
1310114-17B	SB-8 (0-2')	10/11/2013 2:20:00 PM	10/14/2013
1310114-18A	SB-8 (13-15')	10/11/2013 2:35:00 PM	10/14/2013
1310114-18B	SB-8 (13-15')	10/11/2013 2:35:00 PM	10/14/2013

CLIENT: CA Rich Consultants Inc.
Project: 882 Fulton Ave., Brooklyn, NY
Lab Order: 1310114

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1310114-19A	SB-XX	10/11/2013	10/14/2013
1310114-19B	SB-XX	10/11/2013	10/14/2013
1310114-20A	Field Blank 10/11	10/11/2013 3:15:00 PM	10/14/2013
1310114-20B	Field Blank 10/11	10/11/2013 3:15:00 PM	10/14/2013
1310114-20C	Field Blank 10/11	10/11/2013 3:15:00 PM	10/14/2013
1310114-20D	Field Blank 10/11	10/11/2013 3:15:00 PM	10/14/2013
1310114-20E	Field Blank 10/11	10/11/2013 3:15:00 PM	10/14/2013
1310114-21A	Trip Blank	10/11/2013	10/14/2013

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www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: CA Rich, 17 Dupont Street, Plainview NY 11803

CONTACT: Jason Cooper

SAMPLER (SIGNATURE): Jason T. Cooper

SAMPLER NAME (PRINT): Jason T. Cooper

SAMPLE(S) SEALED: YES / NO (YES circled)

CORRECT CONTAINER(S): YES / NO (NO circled)

TEMPERATURE (° C): 4.1

PROJECT LOCATION: 882 Fulton Ave, Brooklyn NY

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	VOC via 8260	SVOC via 8270	Pest/PCB 8081/8082	TAL metals 6010 + Hg 7471
1310114-01AB	S/G	2	10/11/13	0840	SB-1 (0-2')	X	X	X	X
02AB	S/G	2	10/11/13	0855	SB-1 (13-15')	X	X	X	X
03AB	S/G	2	10/11/13	0910	SB-2 (0-2')	X	X	X	X
04AB	S/G	2	10/11/13	0925	SB-2 (13-15')	X	X	X	X
05AB	S/G	2	10/11/13	1000	SB-3 (0-2')	X	X	X	X
08AB	S/G	2	10/11/13	1015	SB-3 (13-15')	X	X	X	X
09AB	S/G	2	10/11/13	1040	SB-4 (0-2')	X	X	X	X
10AB	S/G	2	10/11/13	1100	SB-4 (13-15')	X	X	X	X
11AB	S/G	2	10/11/13	1215	SB-5 (0-2')	X	X	X	X
12AB	S/G	2	10/11/13	1230	SB-5 (13-15')	X	X	X	X
13AB	S/G	2	10/11/13	1300	SB-6 (0-2')	X	X	X	X
14AB	S/G	2	10/11/13	1320	SB-6 (13-15')	X	X	X	X

COMMENTS / INSTRUCTIONS

Samples must be on ICE (<6° C)

pg 1 of 2

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS

TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED: STANDARD ☐ (7-10 business days) STAT ☐ BY / / 5-Bus. days

E-MAIL ADDRESS FOR RESULTS: jcooper@carichinc.com

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Jason T. Cooper	10/11/13 9:37	Jason T. Cooper	S Dunn	10-14-13 9:37	C Dunn
S Dunn	10-14-13 10:00	C Dunn	Cate Ferrara	10/14/13 1000	Cate Ferrara

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: CA Rich, 17 Dupont St, Plainview NY 11803

CONTACT: Jason Cooper

SAMPLER (SIGNATURE): [signature]

SAMPLER NAME (PRINT): Jason T. Cooper

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

PROJECT LOCATION:

ANALYSIS REQUIRED: VOC 8260, SVOC, Pest PCB, TAL metals

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	VOC 8260	SVOC	Pest PCB	TAL metals
13D114-15AB	S/G	2	10/11/13	1340	SB-7 (0-2')	X	X	X	X
16AB	S/G	2	10/11/13	1355	SB-7 (13-15')	X	X	X	X
17AB	S/G	2	10/11/13	1420	SB-8 (0-2')	X	X	X	X
18AB	S/G	2	10/11/13	1435	SB-8 (13-15')	X	X	X	X
19AB	S/G	2	10/11/13	—	SB-XX	X	X	X	X
20A-E	W	7	10/11/13	1515	Field Blank 10/11	X	X	X	X
21A	W	2		—	Trip Blank	X			
06AB	S/G	2	10/11/13	1000	SB-3 (0-2')ms	X	X	X	X
07AB	S/G	2	10/11/13	1000	SB-3 (0-2')msd	X	X	X	X

COMMENTS / INSTRUCTIONS: pg 2 of 2

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED: NORMAL ☐ STAT ☐ 5 Bus. Days BY / /

E-MAIL ADDRESS FOR RESULTS:

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	937	Jason T. Cooper	[signature]	10-14-13 / 937	C Dunn
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	10-14-13 / 10:00	C Dunn	[signature]	10/14/13 / 1000	Cate Fermore

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **CA RICH** Date and Time Receive **10/14/2013 11:10:29 AM**

Work Order Numbe **1310114** RcptNo: **1** Received by **CD**

COC_ID: CoolerID:

Checklist completed by Signature 10/14/13 Date Reviewed by Initials 10/14/13 Date

Matrix: Carrier name AAL

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

American Analytical Laboratories, LLC. **Date:** *25-Oct-13*

CLIENT: CA Rich Consultants Inc.
Project: 882 Fulton Ave., Brooklyn, NY
Lab Order: 1310114

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. MS/MSD analysis was performed on sample SB-3 (0-2'). Spiked analytes and concentrations are presented in the QC summary section of the lab report.

Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.
Soil sample results analyzed for Volatile Organics via preparation method SW846 Method 5035A via the Low Level procedures potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method.

Volatile LCS are analyzed with preservatives - HCL/NaHSO4/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives.

Pesticide analysis by Method 8081B is analyzed on two distinct columns. Once a target compound is qualitatively confirmed by detection on both columns and quantitation is determined to be >40% between the two columns, AAL's policy is to report the lower of the values as suggested by SW846 Method 8000C in cases where no interference exists. If in the professional judgment of the laboratory, the higher value must be utilized this is explained in the lab report.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical reports is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

Lori Beyer
Laboratory Director

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1,1-Trichloroethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1,2,2-Tetrachloroethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1,2-Trichloroethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1-Dichloroethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1-Dichloroethene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,1-Dichloropropene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2,3-Trichlorobenzene	U	1.11	5.5	C	µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2,3-Trichloropropane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2,4,5-Tetramethylbenzene	U	1.11	5.5	N	µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2,4-Trichlorobenzene	U	1.11	5.5	C	µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2,4-Trimethylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2-Dibromo-3-chloropropane	U	2.22	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2-Dibromoethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2-Dichlorobenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2-Dichloroethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,2-Dichloropropane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,3,5-Trimethylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,3-Dichlorobenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,3-dichloropropane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,4-Dichlorobenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
1,4-Dioxane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
2,2-Dichloropropane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
2-Butanone	U	5.55	11		µg/Kg-dry	1	10/21/2013 6:20:00 PM
2-Chloroethyl vinyl ether	U	1.11	5.5	C	µg/Kg-dry	1	10/21/2013 6:20:00 PM
2-Chlorotoluene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
2-Hexanone	U	5.55	11		µg/Kg-dry	1	10/21/2013 6:20:00 PM
2-Propanol	U	2.22	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
4-Chlorotoluene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
4-Isopropyltoluene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
4-Methyl-2-pentanone	U	5.55	11		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Acetone	7.1	5.55	11	JB	µg/Kg-dry	1	10/21/2013 6:20:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Bromobenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Bromochloromethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Bromodichloromethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Bromoform	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Bromomethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Carbon disulfide	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Carbon tetrachloride	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Chlorobenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Chlorodifluoromethane	U	1.11	5.5	N	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Chloroethane	U	1.11	5.5	C	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Chloroform	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Chloromethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
cis-1,2-Dichloroethene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
cis-1,3-Dichloropropene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Dibromochloromethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Dibromomethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Dichlorodifluoromethane	U	1.11	5.5	C	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Diisopropyl ether	U	1.11	5.5	N	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Ethanol	U	13.9	28	CN	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Ethylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Freon-114	U	1.11	5.5	N	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Hexachlorobutadiene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Isopropylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
m,p-Xylene	U	2.22	11		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Methyl Acetate	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Methyl tert-butyl ether	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Methylene chloride	4.0	1.11	5.5	JBC	µg/Kg-dry	1	10/21/2013 6:20:00 PM
Naphthalene	U	1.11	5.5	C	µg/Kg-dry	1	10/21/2013 6:20:00 PM
n-Butylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
n-Propylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
o-Xylene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
p-Diethylbenzene	U	1.11	5.5	N	µg/Kg-dry	1	10/21/2013 6:20:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.11	5.5	N	µg/Kg-dry	1	10/21/2013 6:20:00 PM
sec-Butylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Styrene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
t-Butyl alcohol	22	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
tert-Butylbenzene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Tetrachloroethene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Toluene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
trans-1,2-Dichloroethene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
trans-1,3-Dichloropropene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Trichloroethene	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Trichlorofluoromethane	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Vinyl acetate	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Vinyl chloride	U	1.11	5.5		µg/Kg-dry	1	10/21/2013 6:20:00 PM
Surr: 4-Bromofluorobenzene	93.9	0	56-133		%REC	1	10/21/2013 6:20:00 PM
Surr: Dibromofluoromethane	98.6	0	60-132		%REC	1	10/21/2013 6:20:00 PM
Surr: Toluene-d8	98.7	0	69-125		%REC	1	10/21/2013 6:20:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.122	0.005	0.0103		mg/Kg-dry	1	10/16/2013 1:38:47 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1221	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1232	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1242	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1248	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1254	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1260	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1262	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Aroclor 1268	U	10.7	21		µg/Kg-dry	1	10/17/2013 1:37:00 AM
Surr: TCX	34.5	0	13-145		%REC	1	10/17/2013 1:37:00 AM
Surr: DCB	42.8	0	12-144		%REC	1	10/17/2013 1:37:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	1.3	1.07	2.7	J	µg/Kg-dry	1	10/17/2013 3:13:00 PM
4,4´-DDE	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
4,4´-DDT	1.3	1.07	2.7	JP	µg/Kg-dry	1	10/17/2013 3:13:00 PM
Aldrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
alpha-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
beta-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Chlordane	U	10.7	21		µg/Kg-dry	1	10/17/2013 3:13:00 PM
DBCP	U	1.07	2.7	N	µg/Kg-dry	1	10/17/2013 3:13:00 PM
delta-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Dieldrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Endosulfan I	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Endosulfan II	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Endosulfan sulfate	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Endrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Endrin aldehyde	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Endrin ketone	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
gamma-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Heptachlor	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Hexachlorobenzene	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Hexachlorocyclopentadiene	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Methoxychlor	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Toxaphene	U	13.4	27		µg/Kg-dry	1	10/17/2013 3:13:00 PM
Surr: DCB	58.6	0	16-148		%REC	1	10/17/2013 3:13:00 PM
Surr: TCX	44.1	0	19-145		%REC	1	10/17/2013 3:13:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	9.85	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	8110	1.05	4.22		mg/Kg-dry	10	10/15/2013 12:11:19 PM
Antimony	U	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Arsenic	3.03	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Barium	50.4	0.21	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Beryllium	U	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Cadmium	0.464	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Calcium	23300	2.11	5.27		mg/Kg-dry	10	10/15/2013 12:11:19 PM
Chromium	12.6	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Cobalt	U	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Copper	15.5	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Iron	13500	2.11	4.22		mg/Kg-dry	10	10/15/2013 12:11:19 PM
Lead	72.6	0.21	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Magnesium	3730	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Manganese	211	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Nickel	13.7	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Potassium	1370	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Selenium	U	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Silver	0.774	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Sodium	94.1	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Thallium	0.706	0.32	0.527		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Vanadium	16.3	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM
Zinc	67.6	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:09:35 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
1,2-Dichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
1,3-Dichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
1,4-Dichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,3,4,6-Tetrachlorophenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,4,5-Trichlorophenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,4,6-Trichlorophenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,4-Dichlorophenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,4-Dimethylphenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,4-Dinitrophenol	U	54.4	540	C	µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,4-Dinitrotoluene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2,6-Dinitrotoluene	U	54.4	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2-Chloronaphthalene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2-Chlorophenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2-Methylnaphthalene	130	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
2-Methylphenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2-Nitroaniline	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
2-Nitrophenol	U	54.4	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
3,3´-Dichlorobenzidine	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
3+4-Methylphenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
3-Nitroaniline	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
4,6-Dinitro-2-methylphenol	U	54.4	540	C	µg/Kg-dry	1	10/24/2013 11:10:00 PM
4-Bromophenyl phenyl ether	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
4-Chloro-3-methylphenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
4-Chloroaniline	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
4-Chlorophenyl phenyl ether	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
4-Nitroaniline	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
4-Nitrophenol	U	54.4	540		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Acenaphthene	380	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Acenaphthylene	33	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Acetophenone	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Aniline	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Anthracene	620	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Azobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzaldehyde	U	54.4	540		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzidine	U	54.4	540	C	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzo(a)anthracene	1900	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzo(a)pyrene	1500	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzo(b)fluoranthene	1500	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzo(g,h,i)perylene	1400	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzo(k)fluoranthene	1200	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzoic acid	U	54.4	540	C	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Benzyl alcohol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Biphenyl	46	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Bis(2-chloroethoxy)methane	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Bis(2-chloroethyl)ether	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Bis(2-chloroisopropyl)ether	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Bis(2-ethylhexyl)phthalate	U	27.2	270	C	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Butyl benzyl phthalate	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Caprolactam	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Carbazole	180	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Chrysene	2000	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Dibenzo(a,h)anthracene	300	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Dibenzofuran	220	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Diethyl phthalate	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Dimethyl phthalate	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Di-n-butyl phthalate	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Di-n-octyl phthalate	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Fluoranthene	2600	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Fluorene	240	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Hexachlorobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Hexachlorobutadiene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Hexachlorocyclopentadiene	U	54.4	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Hexachloroethane	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Indeno(1,2,3-c,d)pyrene	1300	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-01B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Naphthalene	210	27.2	270	J	µg/Kg-dry	1	10/24/2013 11:10:00 PM
Nitrobenzene	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
N-Nitrosodimethylamine	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
N-Nitrosodi-n-propylamine	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
N-Nitrosodiphenylamine	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Parathion	U	54.4	540		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Pentachlorophenol	U	54.4	540		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Phenanthrene	3100	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Phenol	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Pyrene	4000	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Pyridine	U	27.2	270		µg/Kg-dry	1	10/24/2013 11:10:00 PM
Surr: 2,4,6-Tribromophenol	28.7	0	10-137		%REC	1	10/24/2013 11:10:00 PM
Surr: 2-Fluorobiphenyl	74.8	0	22-146		%REC	1	10/24/2013 11:10:00 PM
Surr: 2-Fluorophenol	2.64	0	10-125	S	%REC	1	10/24/2013 11:10:00 PM
Surr: 4-Terphenyl-d14	71.7	0	14-149		%REC	1	10/24/2013 11:10:00 PM
Surr: Nitrobenzene-d5	72.0	0	14-148		%REC	1	10/24/2013 11:10:00 PM
Surr: Phenol-d6	70.5	0	10-126		%REC	1	10/24/2013 11:10:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1,1-Trichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1,2,2-Tetrachloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1,2-Trichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1-Dichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1-Dichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,1-Dichloropropene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2,3-Trichlorobenzene	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2,3-Trichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2,4,5-Tetramethylbenzene	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2,4-Trichlorobenzene	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2,4-Trimethylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2-Dibromo-3-chloropropane	U	2.12	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2-Dibromoethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2-Dichlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2-Dichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,2-Dichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,3,5-Trimethylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,3-Dichlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,3-dichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,4-Dichlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
1,4-Dioxane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
2,2-Dichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
2-Butanone	U	5.31	11		µg/Kg-dry	1	10/22/2013 2:14:00 AM
2-Chloroethyl vinyl ether	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 2:14:00 AM
2-Chlorotoluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
2-Hexanone	U	5.31	11		µg/Kg-dry	1	10/22/2013 2:14:00 AM
2-Propanol	U	2.12	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
4-Chlorotoluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
4-Isopropyltoluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
4-Methyl-2-pentanone	U	5.31	11		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Acetone	7.3	5.31	11	JB	µg/Kg-dry	1	10/22/2013 2:14:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Bromobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Bromochloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Bromodichloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Bromoform	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Bromomethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Carbon disulfide	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Carbon tetrachloride	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Chlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Chlorodifluoromethane	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Chloroethane	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Chloroform	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Chloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
cis-1,2-Dichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
cis-1,3-Dichloropropene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Dibromochloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Dibromomethane	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Dichlorodifluoromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Diisopropyl ether	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Ethanol	U	13.3	27	CN	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Ethylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Freon-114	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Hexachlorobutadiene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Isopropylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
m,p-Xylene	U	2.12	11		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Methyl Acetate	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Methyl tert-butyl ether	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Methylene chloride	2.8	1.06	5.3	JBC	µg/Kg-dry	1	10/22/2013 2:14:00 AM
Naphthalene	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 2:14:00 AM
n-Butylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
n-Propylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
o-Xylene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
p-Diethylbenzene	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 2:14:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 2:14:00 AM
sec-Butylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Styrene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
t-Butyl alcohol	27	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
tert-Butylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Tetrachloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Toluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
trans-1,2-Dichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
trans-1,3-Dichloropropene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Trichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Trichlorofluoromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Vinyl acetate	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Vinyl chloride	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 2:14:00 AM
Surr: 4-Bromofluorobenzene	94.0	0	56-133		%REC	1	10/22/2013 2:14:00 AM
Surr: Dibromofluoromethane	98.2	0	60-132		%REC	1	10/22/2013 2:14:00 AM
Surr: Toluene-d8	95.4	0	69-125		%REC	1	10/22/2013 2:14:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00530	0.005	0.0106	J	mg/Kg-dry	1	10/16/2013 1:40:55 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1221	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1232	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1242	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1248	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1254	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1260	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1262	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Aroclor 1268	U	10.7	21		µg/Kg-dry	1	10/17/2013 2:01:00 AM
Surr: TCX	42.2	0	13-145		%REC	1	10/17/2013 2:01:00 AM
Surr: DCB	50.6	0	12-144		%REC	1	10/17/2013 2:01:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4'-DDD	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
4,4'-DDE	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
4,4'-DDT	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Aldrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
alpha-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
beta-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Chlordane	U	10.7	21		µg/Kg-dry	1	10/17/2013 3:27:00 PM
DBCP	U	1.07	2.7	N	µg/Kg-dry	1	10/17/2013 3:27:00 PM
delta-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Dieldrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Endosulfan I	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Endosulfan II	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Endosulfan sulfate	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Endrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Endrin aldehyde	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Endrin ketone	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
gamma-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Heptachlor	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Hexachlorobenzene	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Hexachlorocyclopentadiene	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Methoxychlor	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Toxaphene	U	13.3	27		µg/Kg-dry	1	10/17/2013 3:27:00 PM
Surr: DCB	42.8	0	16-148		%REC	1	10/17/2013 3:27:00 PM
Surr: TCX	40.2	0	19-145		%REC	1	10/17/2013 3:27:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	7.54	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	5770	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Antimony	U	0.22	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Arsenic	1.99	0.22	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Barium	34.2	0.22	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Beryllium	U	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Cadmium	U	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Calcium	1160	0.22	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Chromium	18.0	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Cobalt	U	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Copper	22.4	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Iron	13000	2.15	4.31		mg/Kg-dry	10	10/15/2013 12:13:22 PM
Lead	6.73	0.22	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Magnesium	2350	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Manganese	247	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Nickel	24.7	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Potassium	1500	0.22	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Selenium	U	0.22	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Silver	U	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Sodium	74.4	0.22	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Thallium	0.897	0.32	0.539		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Vanadium	22.4	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM
Zinc	25.5	0.11	0.431		mg/Kg-dry	1	10/15/2013 11:11:37 AM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
1,2-Dichlorobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
1,3-Dichlorobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
1,4-Dichlorobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,3,4,6-Tetrachlorophenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,4,5-Trichlorophenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,4,6-Trichlorophenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,4-Dichlorophenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,4-Dimethylphenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,4-Dinitrophenol	U	53.6	540	C	µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,4-Dinitrotoluene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2,6-Dinitrotoluene	U	53.6	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2-Chloronaphthalene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2-Chlorophenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2-Methylnaphthalene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2-Methylphenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2-Nitroaniline	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
2-Nitrophenol	U	53.6	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
3,3'-Dichlorobenzidine	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
3+4-Methylphenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
3-Nitroaniline	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
4,6-Dinitro-2-methylphenol	U	53.6	540	C	µg/Kg-dry	1	10/24/2013 7:05:00 PM
4-Bromophenyl phenyl ether	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
4-Chloro-3-methylphenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
4-Chloroaniline	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
4-Chlorophenyl phenyl ether	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
4-Nitroaniline	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
4-Nitrophenol	U	53.6	540		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Acenaphthene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Acenaphthylene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Acetophenone	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Aniline	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Anthracene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Azobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzaldehyde	U	53.6	540		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzidine	U	53.6	540	C	µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzo(a)anthracene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzo(a)pyrene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzo(b)fluoranthene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzo(g,h,i)perylene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzo(k)fluoranthene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzoic acid	U	53.6	540	C	µg/Kg-dry	1	10/24/2013 7:05:00 PM
Benzyl alcohol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Biphenyl	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Bis(2-chloroethoxy)methane	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Bis(2-chloroethyl)ether	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Bis(2-chloroisopropyl)ether	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Bis(2-ethylhexyl)phthalate	29	26.8	270	JC	µg/Kg-dry	1	10/24/2013 7:05:00 PM
Butyl benzyl phthalate	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Caprolactam	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Carbazole	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Chrysene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Dibenzo(a,h)anthracene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Dibenzofuran	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Diethyl phthalate	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Dimethyl phthalate	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Di-n-butyl phthalate	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Di-n-octyl phthalate	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Fluoranthene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Fluorene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Hexachlorobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Hexachlorobutadiene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Hexachlorocyclopentadiene	U	53.6	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Hexachloroethane	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Indeno(1,2,3-c,d)pyrene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-1 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 8:55:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-02B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Naphthalene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Nitrobenzene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
N-Nitrosodimethylamine	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
N-Nitrosodi-n-propylamine	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
N-Nitrosodiphenylamine	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Parathion	U	53.6	540		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Pentachlorophenol	U	53.6	540		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Phenanthrene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Phenol	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Pyrene	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Pyridine	U	26.8	270		µg/Kg-dry	1	10/24/2013 7:05:00 PM
Surr: 2,4,6-Tribromophenol	41.5	0	10-137		%REC	1	10/24/2013 7:05:00 PM
Surr: 2-Fluorobiphenyl	63.0	0	22-146		%REC	1	10/24/2013 7:05:00 PM
Surr: 2-Fluorophenol	78.1	0	10-125		%REC	1	10/24/2013 7:05:00 PM
Surr: 4-Terphenyl-d14	67.1	0	14-149		%REC	1	10/24/2013 7:05:00 PM
Surr: Nitrobenzene-d5	69.6	0	14-148		%REC	1	10/24/2013 7:05:00 PM
Surr: Phenol-d6	79.5	0	10-126		%REC	1	10/24/2013 7:05:00 PM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1,1-Trichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1,2,2-Tetrachloroethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1,2-Trichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1-Dichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,1-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2,3-Trichlorobenzene	U	1.08	5.4	C	µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2,3-Trichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2,4,5-Tetramethylbenzene	U	1.08	5.4	N	µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2,4-Trichlorobenzene	U	1.08	5.4	C	µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2,4-Trimethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2-Dibromo-3-chloropropane	U	2.16	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2-Dibromoethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2-Dichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,2-Dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,3,5-Trimethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,3-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,3-dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,4-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
1,4-Dioxane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
2,2-Dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
2-Butanone	U	5.40	11		µg/Kg-dry	1	10/21/2013 6:45:00 PM
2-Chloroethyl vinyl ether	U	1.08	5.4	C	µg/Kg-dry	1	10/21/2013 6:45:00 PM
2-Chlorotoluene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
2-Hexanone	U	5.40	11		µg/Kg-dry	1	10/21/2013 6:45:00 PM
2-Propanol	U	2.16	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
4-Chlorotoluene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
4-Isopropyltoluene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
4-Methyl-2-pentanone	U	5.40	11		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Acetone	U	5.40	11		µg/Kg-dry	1	10/21/2013 6:45:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Bromobenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Bromochloromethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Bromodichloromethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Bromoform	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Bromomethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Carbon disulfide	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Carbon tetrachloride	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Chlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Chlorodifluoromethane	U	1.08	5.4	N	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Chloroethane	U	1.08	5.4	C	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Chloroform	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Chloromethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
cis-1,2-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
cis-1,3-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Dibromochloromethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Dibromomethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Dichlorodifluoromethane	U	1.08	5.4	C	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Diisopropyl ether	U	1.08	5.4	N	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Ethanol	U	13.5	27	CN	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Ethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Freon-114	U	1.08	5.4	N	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Hexachlorobutadiene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Isopropylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
m,p-Xylene	U	2.16	11		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Methyl Acetate	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Methyl tert-butyl ether	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Methylene chloride	2.7	1.08	5.4	JBC	µg/Kg-dry	1	10/21/2013 6:45:00 PM
Naphthalene	U	1.08	5.4	C	µg/Kg-dry	1	10/21/2013 6:45:00 PM
n-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
n-Propylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
o-Xylene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
p-Diethylbenzene	U	1.08	5.4	N	µg/Kg-dry	1	10/21/2013 6:45:00 PM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.08	5.4	N	µg/Kg-dry	1	10/21/2013 6:45:00 PM
sec-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Styrene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
t-Butyl alcohol	16	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
tert-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Tetrachloroethene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Toluene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
trans-1,2-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
trans-1,3-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Trichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Trichlorofluoromethane	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Vinyl acetate	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Vinyl chloride	U	1.08	5.4		µg/Kg-dry	1	10/21/2013 6:45:00 PM
Surr: 4-Bromofluorobenzene	95.9	0	56-133		%REC	1	10/21/2013 6:45:00 PM
Surr: Dibromofluoromethane	94.0	0	60-132		%REC	1	10/21/2013 6:45:00 PM
Surr: Toluene-d8	96.8	0	69-125		%REC	1	10/21/2013 6:45:00 PM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.142	0.005	0.0104		mg/Kg-dry	1	10/16/2013 1:43:03 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1221	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1232	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1242	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1248	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1254	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1260	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1262	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Aroclor 1268	U	10.6	21		µg/Kg-dry	1	10/17/2013 2:26:00 AM
Surr: TCX	56.8	0	13-145		%REC	1	10/17/2013 2:26:00 AM
Surr: DCB	76.2	0	12-144		%REC	1	10/17/2013 2:26:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4'-DDD	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
4,4'-DDE	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
4,4'-DDT	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Aldrin	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
alpha-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
beta-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Chlordane	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:41:00 PM
DBCP	U	1.06	2.6	N	µg/Kg-dry	1	10/17/2013 3:41:00 PM
delta-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Dieldrin	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Endosulfan I	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Endosulfan II	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Endosulfan sulfate	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Endrin	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Endrin aldehyde	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Endrin ketone	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
gamma-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Heptachlor	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Hexachlorobenzene	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Hexachlorocyclopentadiene	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Methoxychlor	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Toxaphene	U	13.2	26		µg/Kg-dry	1	10/17/2013 3:41:00 PM
Surr: DCB	78.9	0	16-148		%REC	1	10/17/2013 3:41:00 PM
Surr: TCX	65.8	0	19-145		%REC	1	10/17/2013 3:41:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	8.91	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	9210	1.08	4.34		mg/Kg-dry	10	10/15/2013 12:15:24 PM
Antimony	U	0.22	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Arsenic	3.10	0.22	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Barium	57.7	0.22	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Beryllium	U	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Cadmium	U	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Calcium	3330	0.22	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Chromium	16.7	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Cobalt	U	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Copper	19.3	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Iron	14400	2.17	4.34		mg/Kg-dry	10	10/15/2013 12:15:24 PM
Lead	128	0.22	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Magnesium	2000	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Manganese	249	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Nickel	18.9	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Potassium	1630	0.22	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Selenium	U	0.22	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Silver	0.172	0.11	0.434	J	mg/Kg-dry	1	10/15/2013 11:13:38 AM
Sodium	74.6	0.22	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Thallium	0.673	0.33	0.542		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Vanadium	20.9	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM
Zinc	68.6	0.11	0.434		mg/Kg-dry	1	10/15/2013 11:13:38 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
1,2-Dichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
1,3-Dichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
1,4-Dichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,3,4,6-Tetrachlorophenol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,4,5-Trichlorophenol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,4,6-Trichlorophenol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,4-Dichlorophenol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,4-Dimethylphenol	38	26.6	270	J	µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,4-Dinitrophenol	U	53.3	530	C	µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,4-Dinitrotoluene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2,6-Dinitrotoluene	U	53.3	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2-Chloronaphthalene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2-Chlorophenol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2-Methylnaphthalene	530	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2-Methylphenol	31	26.6	270	J	µg/Kg-dry	1	10/25/2013 12:58:00 AM
2-Nitroaniline	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
2-Nitrophenol	U	53.3	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
3,3´-Dichlorobenzidine	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
3+4-Methylphenol	83	26.6	270	J	µg/Kg-dry	1	10/25/2013 12:58:00 AM
3-Nitroaniline	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
4,6-Dinitro-2-methylphenol	U	53.3	530	C	µg/Kg-dry	1	10/25/2013 12:58:00 AM
4-Bromophenyl phenyl ether	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
4-Chloro-3-methylphenol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
4-Chloroaniline	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
4-Chlorophenyl phenyl ether	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
4-Nitroaniline	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
4-Nitrophenol	U	53.3	530		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Acenaphthene	2400	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Acenaphthylene	110	26.6	270	J	µg/Kg-dry	1	10/25/2013 12:58:00 AM
Acetophenone	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Aniline	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Anthracene	4600	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Azobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Benzaldehyde	U	53.3	530		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Benzidine	U	53.3	530	C	µg/Kg-dry	1	10/25/2013 12:58:00 AM
Benzo(a)anthracene	11000	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Benzo(a)pyrene	9400	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Benzo(b)fluoranthene	7300	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Benzo(g,h,i)perylene	5400	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Benzo(k)fluoranthene	7800	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Benzoic acid	U	53.3	530	C	µg/Kg-dry	1	10/25/2013 12:58:00 AM
Benzyl alcohol	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Biphenyl	290	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Bis(2-chloroethoxy)methane	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Bis(2-chloroethyl)ether	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Bis(2-chloroisopropyl)ether	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Bis(2-ethylhexyl)phthalate	U	26.6	270	C	µg/Kg-dry	1	10/25/2013 12:58:00 AM
Butyl benzyl phthalate	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Caprolactam	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Carbazole	1900	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Chrysene	11000	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Dibenzo(a,h)anthracene	1600	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Dibenzofuran	1500	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Diethyl phthalate	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Dimethyl phthalate	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Di-n-butyl phthalate	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Di-n-octyl phthalate	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Fluoranthene	24000	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Fluorene	1600	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Hexachlorobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Hexachlorobutadiene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Hexachlorocyclopentadiene	U	53.3	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Hexachloroethane	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Indeno(1,2,3-c,d)pyrene	6800	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:10:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-03B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Naphthalene	1300	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Nitrobenzene	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
N-Nitrosodimethylamine	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
N-Nitrosodi-n-propylamine	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
N-Nitrosodiphenylamine	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Parathion	U	53.3	530		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Pentachlorophenol	U	53.3	530		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Phenanthrene	23000	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Phenol	54	26.6	270	J	µg/Kg-dry	1	10/25/2013 12:58:00 AM
Pyrene	40000	533	5300		µg/Kg-dry	20	10/24/2013 9:21:00 PM
Pyridine	U	26.6	270		µg/Kg-dry	1	10/25/2013 12:58:00 AM
Surr: 2,4,6-Tribromophenol	19.2	0	10-137		%REC	20	10/24/2013 9:21:00 PM
Surr: 2,4,6-Tribromophenol	84.7	0	10-137		%REC	1	10/25/2013 12:58:00 AM
Surr: 2-Fluorobiphenyl	104	0	22-146		%REC	1	10/25/2013 12:58:00 AM
Surr: 2-Fluorobiphenyl	67.6	0	22-146		%REC	20	10/24/2013 9:21:00 PM
Surr: 2-Fluorophenol	65.1	0	10-125		%REC	20	10/24/2013 9:21:00 PM
Surr: 2-Fluorophenol	151	0	10-125	S	%REC	1	10/25/2013 12:58:00 AM
Surr: 4-Terphenyl-d14	49.7	0	14-149		%REC	1	10/25/2013 12:58:00 AM
Surr: 4-Terphenyl-d14	125	0	14-149		%REC	20	10/24/2013 9:21:00 PM
Surr: Nitrobenzene-d5	76.4	0	14-148		%REC	1	10/25/2013 12:58:00 AM
Surr: Nitrobenzene-d5	64.2	0	14-148		%REC	20	10/24/2013 9:21:00 PM
Surr: Phenol-d6	69.3	0	10-126		%REC	20	10/24/2013 9:21:00 PM
Surr: Phenol-d6	53.6	0	10-126		%REC	1	10/25/2013 12:58:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1,1-Trichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1,2,2-Tetrachloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1,2-Trichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1-Dichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1-Dichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,1-Dichloropropene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2,3-Trichlorobenzene	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2,3-Trichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2,4,5-Tetramethylbenzene	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2,4-Trichlorobenzene	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2,4-Trimethylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2-Dibromo-3-chloropropane	U	2.14	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2-Dibromoethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2-Dichlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2-Dichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,2-Dichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,3,5-Trimethylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,3-Dichlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,3-dichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,4-Dichlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
1,4-Dioxane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
2,2-Dichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
2-Butanone	U	5.36	11		µg/Kg-dry	1	10/22/2013 2:39:00 AM
2-Chloroethyl vinyl ether	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 2:39:00 AM
2-Chlorotoluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
2-Hexanone	U	5.36	11		µg/Kg-dry	1	10/22/2013 2:39:00 AM
2-Propanol	U	2.14	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
4-Chlorotoluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
4-Isopropyltoluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
4-Methyl-2-pentanone	U	5.36	11		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Acetone	U	5.36	11		µg/Kg-dry	1	10/22/2013 2:39:00 AM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Bromobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Bromochloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Bromodichloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Bromoform	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Bromomethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Carbon disulfide	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Carbon tetrachloride	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Chlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Chlorodifluoromethane	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Chloroethane	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Chloroform	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Chloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
cis-1,2-Dichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
cis-1,3-Dichloropropene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Dibromochloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Dibromomethane	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Dichlorodifluoromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Diisopropyl ether	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Ethanol	U	13.4	27	CN	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Ethylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Freon-114	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Hexachlorobutadiene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Isopropylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
m,p-Xylene	U	2.14	11		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Methyl Acetate	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Methyl tert-butyl ether	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Methylene chloride	3.0	1.07	5.4	JBC	µg/Kg-dry	1	10/22/2013 2:39:00 AM
Naphthalene	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 2:39:00 AM
n-Butylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
n-Propylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
o-Xylene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
p-Diethylbenzene	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 2:39:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 2:39:00 AM
sec-Butylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Styrene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
t-Butyl alcohol	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
tert-Butylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Tetrachloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Toluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
trans-1,2-Dichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
trans-1,3-Dichloropropene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Trichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Trichlorofluoromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Vinyl acetate	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Vinyl chloride	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 2:39:00 AM
Surr: 4-Bromofluorobenzene	97.3	0	56-133		%REC	1	10/22/2013 2:39:00 AM
Surr: Dibromofluoromethane	91.9	0	60-132		%REC	1	10/22/2013 2:39:00 AM
Surr: Toluene-d8	95.6	0	69-125		%REC	1	10/22/2013 2:39:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00553	0.005	0.0100	J	mg/Kg-dry	1	10/16/2013 1:45:11 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1221	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1232	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1242	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1248	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1254	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1260	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1262	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Aroclor 1268	U	10.5	21		µg/Kg-dry	1	10/17/2013 2:50:00 AM
Surr: TCX	71.2	0	13-145		%REC	1	10/17/2013 2:50:00 AM
Surr: DCB	83.1	0	12-144		%REC	1	10/17/2013 2:50:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
4,4´-DDE	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
4,4´-DDT	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Aldrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
alpha-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
beta-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Chlordane	U	10.5	21		µg/Kg-dry	1	10/17/2013 3:56:00 PM
DBCP	U	1.05	2.6	N	µg/Kg-dry	1	10/17/2013 3:56:00 PM
delta-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Dieldrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Endosulfan I	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Endosulfan II	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Endosulfan sulfate	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Endrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Endrin aldehyde	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Endrin ketone	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
gamma-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Heptachlor	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Hexachlorobenzene	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Hexachlorocyclopentadiene	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Methoxychlor	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Toxaphene	U	13.1	26		µg/Kg-dry	1	10/17/2013 3:56:00 PM
Surr: DCB	87.3	0	16-148		%REC	1	10/17/2013 3:56:00 PM
Surr: TCX	71.6	0	19-145		%REC	1	10/17/2013 3:56:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	7.83	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	4650	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Antimony	U	0.21	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Arsenic	1.71	0.21	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Barium	31.7	0.21	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Beryllium	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Cadmium	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Calcium	1270	0.21	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Chromium	12.8	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Cobalt	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Copper	14.4	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Iron	11200	2.13	4.25		mg/Kg-dry	10	10/15/2013 12:17:25 PM
Lead	5.47	0.21	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Magnesium	2260	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Manganese	242	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Nickel	23.7	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Potassium	1400	0.21	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Selenium	U	0.21	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Silver	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Sodium	96.0	0.21	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Thallium	0.825	0.32	0.532		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Vanadium	18.0	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM
Zinc	24.7	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:15:40 AM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
1,2-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
1,3-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
1,4-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,3,4,6-Tetrachlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,4,5-Trichlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,4,6-Trichlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,4-Dichlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,4-Dimethylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,4-Dinitrophenol	U	52.3	520	C	µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,4-Dinitrotoluene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2,6-Dinitrotoluene	U	52.3	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2-Chloronaphthalene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2-Chlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2-Methylnaphthalene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2-Methylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
2-Nitrophenol	U	52.3	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
3,3'-Dichlorobenzidine	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
3+4-Methylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
3-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
4,6-Dinitro-2-methylphenol	U	52.3	520	C	µg/Kg-dry	1	10/24/2013 7:32:00 PM
4-Bromophenyl phenyl ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
4-Chloro-3-methylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
4-Chloroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
4-Chlorophenyl phenyl ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
4-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
4-Nitrophenol	U	52.3	520		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Acenaphthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Acenaphthylene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Acetophenone	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Aniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Anthracene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Azobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzaldehyde	U	52.3	520		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzidine	U	52.3	520	C	µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzo(a)anthracene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzo(a)pyrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzo(b)fluoranthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzo(g,h,i)perylene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzo(k)fluoranthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzoic acid	U	52.3	520	C	µg/Kg-dry	1	10/24/2013 7:32:00 PM
Benzyl alcohol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Biphenyl	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Bis(2-chloroethoxy)methane	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Bis(2-chloroethyl)ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Bis(2-chloroisopropyl)ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Bis(2-ethylhexyl)phthalate	U	26.1	260	C	µg/Kg-dry	1	10/24/2013 7:32:00 PM
Butyl benzyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Caprolactam	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Carbazole	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Chrysene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Dibenzo(a,h)anthracene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Dibenzofuran	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Diethyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Dimethyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Di-n-butyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Di-n-octyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Fluoranthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Fluorene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Hexachlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Hexachlorobutadiene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Hexachlorocyclopentadiene	U	52.3	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Hexachloroethane	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Indeno(1,2,3-c,d)pyrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-2 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 9:25:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-04B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Naphthalene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Nitrobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
N-Nitrosodimethylamine	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
N-Nitrosodi-n-propylamine	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
N-Nitrosodiphenylamine	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Parathion	U	52.3	520		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Pentachlorophenol	U	52.3	520		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Phenanthrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Phenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Pyrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Pyridine	U	26.1	260		µg/Kg-dry	1	10/24/2013 7:32:00 PM
Surr: 2,4,6-Tribromophenol	15.1	0	10-137		%REC	1	10/24/2013 7:32:00 PM
Surr: 2-Fluorobiphenyl	43.7	0	22-146		%REC	1	10/24/2013 7:32:00 PM
Surr: 2-Fluorophenol	95.0	0	10-125		%REC	1	10/24/2013 7:32:00 PM
Surr: 4-Terphenyl-d14	68.1	0	14-149		%REC	1	10/24/2013 7:32:00 PM
Surr: Nitrobenzene-d5	43.1	0	14-148		%REC	1	10/24/2013 7:32:00 PM
Surr: Phenol-d6	28.4	0	10-126		%REC	1	10/24/2013 7:32:00 PM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1,1-Trichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1,2,2-Tetrachloroethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1,2-Trichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1-Dichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1-Dichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,1-Dichloropropene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2,3-Trichlorobenzene	U	1.09	5.4	C	µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2,3-Trichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2,4,5-Tetramethylbenzene	U	1.09	5.4	N	µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2,4-Trichlorobenzene	U	1.09	5.4	C	µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2,4-Trimethylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2-Dibromo-3-chloropropane	U	2.17	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2-Dibromoethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2-Dichlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2-Dichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,2-Dichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,3,5-Trimethylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,3-Dichlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,3-dichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,4-Dichlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
1,4-Dioxane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
2,2-Dichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
2-Butanone	U	5.43	11		µg/Kg-dry	1	10/21/2013 7:10:00 PM
2-Chloroethyl vinyl ether	U	1.09	5.4	C	µg/Kg-dry	1	10/21/2013 7:10:00 PM
2-Chlorotoluene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
2-Hexanone	U	5.43	11		µg/Kg-dry	1	10/21/2013 7:10:00 PM
2-Propanol	U	2.17	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
4-Chlorotoluene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
4-Isopropyltoluene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
4-Methyl-2-pentanone	U	5.43	11		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Acetone	U	5.43	11		µg/Kg-dry	1	10/21/2013 7:10:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Bromobenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Bromochloromethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Bromodichloromethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Bromoform	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Bromomethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Carbon disulfide	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Carbon tetrachloride	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Chlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Chlorodifluoromethane	U	1.09	5.4	N	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Chloroethane	U	1.09	5.4	C	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Chloroform	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Chloromethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
cis-1,2-Dichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
cis-1,3-Dichloropropene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Dibromochloromethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Dibromomethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Dichlorodifluoromethane	U	1.09	5.4	C	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Diisopropyl ether	U	1.09	5.4	N	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Ethanol	U	13.6	27	CN	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Ethylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Freon-114	U	1.09	5.4	N	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Hexachlorobutadiene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Isopropylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
m,p-Xylene	U	2.17	11		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Methyl Acetate	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Methyl tert-butyl ether	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Methylene chloride	2.4	1.09	5.4	JBC	µg/Kg-dry	1	10/21/2013 7:10:00 PM
Naphthalene	U	1.09	5.4	C	µg/Kg-dry	1	10/21/2013 7:10:00 PM
n-Butylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
n-Propylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
o-Xylene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
p-Diethylbenzene	U	1.09	5.4	N	µg/Kg-dry	1	10/21/2013 7:10:00 PM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.09	5.4	N	µg/Kg-dry	1	10/21/2013 7:10:00 PM
sec-Butylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Styrene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
t-Butyl alcohol	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
tert-Butylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Tetrachloroethene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Toluene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
trans-1,2-Dichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
trans-1,3-Dichloropropene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Trichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Trichlorofluoromethane	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Vinyl acetate	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Vinyl chloride	U	1.09	5.4		µg/Kg-dry	1	10/21/2013 7:10:00 PM
Surr: 4-Bromofluorobenzene	95.3	0	56-133		%REC	1	10/21/2013 7:10:00 PM
Surr: Dibromofluoromethane	95.4	0	60-132		%REC	1	10/21/2013 7:10:00 PM
Surr: Toluene-d8	97.2	0	69-125		%REC	1	10/21/2013 7:10:00 PM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.0111	0.005	0.0106		mg/Kg-dry	1	10/16/2013 1:47:26 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1221	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1232	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1242	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1248	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1254	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1260	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1262	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Aroclor 1268	U	10.6	21		µg/Kg-dry	1	10/17/2013 3:15:00 AM
Surr: TCX	61.4	0	13-145		%REC	1	10/17/2013 3:15:00 AM
Surr: DCB	21.8	0	12-144		%REC	1	10/17/2013 3:15:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4'-DDD	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
4,4'-DDE	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
4,4'-DDT	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Aldrin	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
alpha-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
beta-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Chlordane	U	10.6	21		µg/Kg-dry	1	10/17/2013 4:10:00 PM
DBCP	U	1.06	2.6	N	µg/Kg-dry	1	10/17/2013 4:10:00 PM
delta-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Dieldrin	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Endosulfan I	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Endosulfan II	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Endosulfan sulfate	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Endrin	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Endrin aldehyde	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Endrin ketone	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
gamma-BHC	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Heptachlor	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM

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Qualifiers:

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Hexachlorobenzene	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Hexachlorocyclopentadiene	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Methoxychlor	U	1.06	2.6		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Toxaphene	U	13.2	26		µg/Kg-dry	1	10/17/2013 4:10:00 PM
Surr: DCB	69.1	0	16-148		%REC	1	10/17/2013 4:10:00 PM
Surr: TCX	36.2	0	19-145		%REC	1	10/17/2013 4:10:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	8.06	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	7960	1.05	4.22		mg/Kg-dry	10	10/15/2013 12:19:27 PM
Antimony	U	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Arsenic	3.43	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Barium	38.2	0.21	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Beryllium	U	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Cadmium	U	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Calcium	2440	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Chromium	15.2	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Cobalt	U	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Copper	24.9	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Iron	14500	2.11	4.22		mg/Kg-dry	10	10/15/2013 12:19:27 PM
Lead	41.1	0.21	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Magnesium	2630	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Manganese	274	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Nickel	21.9	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Potassium	1230	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Selenium	U	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Silver	0.608	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Sodium	82.5	0.21	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Thallium	0.577	0.32	0.527		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Vanadium	21.9	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM
Zinc	51.4	0.11	0.422		mg/Kg-dry	1	10/15/2013 11:19:44 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
1,2-Dichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
1,3-Dichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
1,4-Dichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,3,4,6-Tetrachlorophenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,4,5-Trichlorophenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,4,6-Trichlorophenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,4-Dichlorophenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,4-Dimethylphenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,4-Dinitrophenol	U	52.6	530	C	µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,4-Dinitrotoluene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2,6-Dinitrotoluene	U	52.6	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2-Chloronaphthalene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2-Chlorophenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2-Methylnaphthalene	110	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
2-Methylphenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2-Nitroaniline	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
2-Nitrophenol	U	52.6	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
3,3´-Dichlorobenzidine	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
3+4-Methylphenol	66	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
3-Nitroaniline	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
4,6-Dinitro-2-methylphenol	U	52.6	530	C	µg/Kg-dry	1	10/24/2013 11:37:00 PM
4-Bromophenyl phenyl ether	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
4-Chloro-3-methylphenol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
4-Chloroaniline	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
4-Chlorophenyl phenyl ether	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
4-Nitroaniline	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
4-Nitrophenol	U	52.6	530		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Acenaphthene	460	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Acenaphthylene	62	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Acetophenone	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Aniline	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Anthracene	530	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Azobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzaldehyde	U	52.6	530		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzidine	U	52.6	530	C	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzo(a)anthracene	1200	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzo(a)pyrene	950	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzo(b)fluoranthene	910	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzo(g,h,i)perylene	910	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzo(k)fluoranthene	920	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzoic acid	U	52.6	530	C	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Benzyl alcohol	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Biphenyl	47	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Bis(2-chloroethoxy)methane	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Bis(2-chloroethyl)ether	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Bis(2-chloroisopropyl)ether	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Bis(2-ethylhexyl)phthalate	U	26.3	260	C	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Butyl benzyl phthalate	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Caprolactam	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Carbazole	190	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Chrysene	1500	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Dibenzo(a,h)anthracene	260	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Dibenzofuran	270	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Diethyl phthalate	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Dimethyl phthalate	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Di-n-butyl phthalate	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Di-n-octyl phthalate	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Fluoranthene	2300	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Fluorene	340	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Hexachlorobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Hexachlorobutadiene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Hexachlorocyclopentadiene	U	52.6	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Hexachloroethane	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Indeno(1,2,3-c,d)pyrene	940	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-05B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Naphthalene	190	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Nitrobenzene	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
N-Nitrosodimethylamine	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
N-Nitrosodi-n-propylamine	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
N-Nitrosodiphenylamine	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Parathion	U	52.6	530		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Pentachlorophenol	U	52.6	530		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Phenanthrene	3700	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Phenol	95	26.3	260	J	µg/Kg-dry	1	10/24/2013 11:37:00 PM
Pyrene	3300	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Pyridine	U	26.3	260		µg/Kg-dry	1	10/24/2013 11:37:00 PM
Surr: 2,4,6-Tribromophenol	37.6	0	10-137		%REC	1	10/24/2013 11:37:00 PM
Surr: 2-Fluorobiphenyl	68.7	0	22-146		%REC	1	10/24/2013 11:37:00 PM
Surr: 2-Fluorophenol	58.3	0	10-125		%REC	1	10/24/2013 11:37:00 PM
Surr: 4-Terphenyl-d14	67.1	0	14-149		%REC	1	10/24/2013 11:37:00 PM
Surr: Nitrobenzene-d5	23.3	0	14-148		%REC	1	10/24/2013 11:37:00 PM
Surr: Phenol-d6	40.4	0	10-126		%REC	1	10/24/2013 11:37:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1,1-Trichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1,2,2-Tetrachloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1,2-Trichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1-Dichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,1-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2,3-Trichlorobenzene	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2,3-Trichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2,4,5-Tetramethylbenzene	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2,4-Trichlorobenzene	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2,4-Trimethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2-Dibromo-3-chloropropane	U	2.15	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2-Dibromoethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2-Dichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,2-Dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,3,5-Trimethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,3-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,3-dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,4-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
1,4-Dioxane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
2,2-Dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
2-Butanone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:04:00 AM
2-Chloroethyl vinyl ether	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:04:00 AM
2-Chlorotoluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
2-Hexanone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:04:00 AM
2-Propanol	U	2.15	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
4-Chlorotoluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
4-Isopropyltoluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
4-Methyl-2-pentanone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Acetone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:04:00 AM

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Qualifiers:

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Bromobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Bromochloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Bromodichloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Bromoform	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Bromomethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Carbon disulfide	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Carbon tetrachloride	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Chlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Chlorodifluoromethane	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Chloroethane	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Chloroform	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Chloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
cis-1,2-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
cis-1,3-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Dibromochloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Dibromomethane	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Dichlorodifluoromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Diisopropyl ether	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Ethanol	U	13.5	27	CN	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Ethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Freon-114	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Hexachlorobutadiene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Isopropylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
m,p-Xylene	U	2.15	11		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Methyl Acetate	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Methyl tert-butyl ether	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Methylene chloride	3.2	1.08	5.4	JBC	µg/Kg-dry	1	10/22/2013 3:04:00 AM
Naphthalene	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:04:00 AM
n-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
n-Propylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
o-Xylene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
p-Diethylbenzene	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:04:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:04:00 AM
sec-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Styrene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
t-Butyl alcohol	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
tert-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Tetrachloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Toluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
trans-1,2-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
trans-1,3-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Trichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Trichlorofluoromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Vinyl acetate	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Vinyl chloride	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:04:00 AM
Surr: 4-Bromofluorobenzene	96.4	0	56-133		%REC	1	10/22/2013 3:04:00 AM
Surr: Dibromofluoromethane	95.2	0	60-132		%REC	1	10/22/2013 3:04:00 AM
Surr: Toluene-d8	95.7	0	69-125		%REC	1	10/22/2013 3:04:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	U	0.005	0.00989		mg/Kg-dry	1	10/16/2013 1:53:51 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1221	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1232	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1242	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1248	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1254	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1260	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1262	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Aroclor 1268	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:28:00 AM
Surr: TCX	62.7	0	13-145		%REC	1	10/17/2013 4:28:00 AM
Surr: DCB	76.1	0	12-144		%REC	1	10/17/2013 4:28:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
4,4´-DDE	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
4,4´-DDT	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Aldrin	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
alpha-BHC	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
beta-BHC	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Chlordane	U	10.3	21		µg/Kg-dry	1	10/17/2013 4:53:00 PM
DBCP	U	1.03	2.6	N	µg/Kg-dry	1	10/17/2013 4:53:00 PM
delta-BHC	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Dieldrin	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Endosulfan I	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Endosulfan II	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Endosulfan sulfate	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Endrin	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Endrin aldehyde	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Endrin ketone	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
gamma-BHC	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Heptachlor	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Hexachlorobenzene	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Hexachlorocyclopentadiene	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Methoxychlor	U	1.03	2.6		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Toxaphene	U	12.8	26		µg/Kg-dry	1	10/17/2013 4:53:00 PM
Surr: DCB	69.2	0	16-148		%REC	1	10/17/2013 4:53:00 PM
Surr: TCX	86.1	0	19-145		%REC	1	10/17/2013 4:53:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	6.37	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	4580	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Antimony	U	0.21	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Arsenic	1.88	0.21	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Barium	40.1	0.21	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Beryllium	U	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Cadmium	U	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Calcium	1310	0.21	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Chromium	19.4	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Cobalt	U	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Copper	19.9	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Iron	11400	2.12	4.24		mg/Kg-dry	10	10/15/2013 12:21:30 PM
Lead	5.45	0.21	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Magnesium	2290	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Manganese	226	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Nickel	32.4	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Potassium	1390	0.21	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Selenium	U	0.21	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Silver	U	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Sodium	120	0.21	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Thallium	0.756	0.32	0.530		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Vanadium	19.0	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM
Zinc	23.5	0.11	0.424		mg/Kg-dry	1	10/15/2013 11:35:13 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
1,2-Dichlorobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
1,3-Dichlorobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
1,4-Dichlorobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,3,4,6-Tetrachlorophenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,4,5-Trichlorophenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,4,6-Trichlorophenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,4-Dichlorophenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,4-Dimethylphenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,4-Dinitrophenol	U	51.5	520	C	µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,4-Dinitrotoluene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2,6-Dinitrotoluene	U	51.5	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2-Chloronaphthalene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2-Chlorophenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2-Methylnaphthalene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2-Methylphenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2-Nitroaniline	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
2-Nitrophenol	U	51.5	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
3,3'-Dichlorobenzidine	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
3+4-Methylphenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
3-Nitroaniline	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
4,6-Dinitro-2-methylphenol	U	51.5	520	C	µg/Kg-dry	1	10/24/2013 7:59:00 PM
4-Bromophenyl phenyl ether	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
4-Chloro-3-methylphenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
4-Chloroaniline	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
4-Chlorophenyl phenyl ether	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
4-Nitroaniline	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
4-Nitrophenol	U	51.5	520		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Acenaphthene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Acenaphthylene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Acetophenone	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Aniline	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Anthracene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Azobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzaldehyde	U	51.5	520		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzidine	U	51.5	520	C	µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzo(a)anthracene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzo(a)pyrene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzo(b)fluoranthene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzo(g,h,i)perylene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzo(k)fluoranthene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzoic acid	U	51.5	520	C	µg/Kg-dry	1	10/24/2013 7:59:00 PM
Benzyl alcohol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Biphenyl	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Bis(2-chloroethoxy)methane	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Bis(2-chloroethyl)ether	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Bis(2-chloroisopropyl)ether	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Bis(2-ethylhexyl)phthalate	U	25.8	260	C	µg/Kg-dry	1	10/24/2013 7:59:00 PM
Butyl benzyl phthalate	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Caprolactam	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Carbazole	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Chrysene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Dibenzo(a,h)anthracene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Dibenzofuran	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Diethyl phthalate	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Dimethyl phthalate	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Di-n-butyl phthalate	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Di-n-octyl phthalate	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Fluoranthene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Fluorene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Hexachlorobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Hexachlorobutadiene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Hexachlorocyclopentadiene	U	51.5	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Hexachloroethane	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Indeno(1,2,3-c,d)pyrene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-3 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:15:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-08B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Naphthalene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Nitrobenzene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
N-Nitrosodimethylamine	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
N-Nitrosodi-n-propylamine	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
N-Nitrosodiphenylamine	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Parathion	U	51.5	520		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Pentachlorophenol	U	51.5	520		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Phenanthrene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Phenol	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Pyrene	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Pyridine	U	25.8	260		µg/Kg-dry	1	10/24/2013 7:59:00 PM
Surr: 2,4,6-Tribromophenol	39.2	0	10-137		%REC	1	10/24/2013 7:59:00 PM
Surr: 2-Fluorobiphenyl	57.1	0	22-146		%REC	1	10/24/2013 7:59:00 PM
Surr: 2-Fluorophenol	44.8	0	10-125		%REC	1	10/24/2013 7:59:00 PM
Surr: 4-Terphenyl-d14	66.6	0	14-149		%REC	1	10/24/2013 7:59:00 PM
Surr: Nitrobenzene-d5	55.4	0	14-148		%REC	1	10/24/2013 7:59:00 PM
Surr: Phenol-d6	69.2	0	10-126		%REC	1	10/24/2013 7:59:00 PM

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1,1-Trichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1,2,2-Tetrachloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1,2-Trichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1-Dichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1-Dichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,1-Dichloropropene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2,3-Trichlorobenzene	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2,3-Trichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2,4,5-Tetramethylbenzene	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2,4-Trichlorobenzene	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2,4-Trimethylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2-Dibromo-3-chloropropane	U	2.1	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2-Dibromoethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2-Dichlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2-Dichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,2-Dichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,3,5-Trimethylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,3-Dichlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,3-dichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,4-Dichlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
1,4-Dioxane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
2,2-Dichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
2-Butanone	U	5.24	10		µg/Kg-dry	1	10/21/2013 8:00:00 PM
2-Chloroethyl vinyl ether	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 8:00:00 PM
2-Chlorotoluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
2-Hexanone	U	5.24	10		µg/Kg-dry	1	10/21/2013 8:00:00 PM
2-Propanol	U	2.1	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
4-Chlorotoluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
4-Isopropyltoluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
4-Methyl-2-pentanone	U	5.24	10		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Acetone	6.7	5.24	10	J	µg/Kg-dry	1	10/21/2013 8:00:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Bromobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Bromochloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Bromodichloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Bromoform	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Bromomethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Carbon disulfide	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Carbon tetrachloride	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Chlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Chlorodifluoromethane	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Chloroethane	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Chloroform	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Chloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
cis-1,2-Dichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
cis-1,3-Dichloropropene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Dibromochloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Dibromomethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Dichlorodifluoromethane	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Diisopropyl ether	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Ethanol	U	13.1	26	CN	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Ethylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Freon-114	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Hexachlorobutadiene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Isopropylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
m,p-Xylene	U	2.1	10		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Methyl Acetate	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Methyl tert-butyl ether	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Methylene chloride	3.6	1.05	5.2	JC	µg/Kg-dry	1	10/21/2013 8:00:00 PM
Naphthalene	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 8:00:00 PM
n-Butylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
n-Propylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
o-Xylene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
p-Diethylbenzene	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 8:00:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 8:00:00 PM
sec-Butylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Styrene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
t-Butyl alcohol	25	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
tert-Butylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Tetrachloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Toluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
trans-1,2-Dichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
trans-1,3-Dichloropropene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Trichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Trichlorofluoromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Vinyl acetate	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Vinyl chloride	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 8:00:00 PM
Surr: 4-Bromofluorobenzene	95.0	0	56-133		%REC	1	10/21/2013 8:00:00 PM
Surr: Dibromofluoromethane	96.7	0	60-132		%REC	1	10/21/2013 8:00:00 PM
Surr: Toluene-d8	96.0	0	69-125		%REC	1	10/21/2013 8:00:00 PM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: 25-Oct-13

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.136	0.005	0.0101		mg/Kg-dry	1	10/16/2013 1:56:00 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1221	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1232	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1242	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1248	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1254	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1260	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1262	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Aroclor 1268	U	10.1	20		µg/Kg-dry	1	10/17/2013 4:53:00 AM
Surr: TCX	60.4	0	13-145		%REC	1	10/17/2013 4:53:00 AM
Surr: DCB	70.2	0	12-144		%REC	1	10/17/2013 4:53:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4'-DDD	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
4,4'-DDE	24	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
4,4'-DDT	22	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Aldrin	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
alpha-BHC	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
beta-BHC	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Chlordane	U	10.1	20		µg/Kg-dry	1	10/17/2013 5:08:00 PM
DBCP	U	1.01	2.5	N	µg/Kg-dry	1	10/17/2013 5:08:00 PM
delta-BHC	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Dieldrin	1.2	1.01	2.5	J	µg/Kg-dry	1	10/17/2013 5:08:00 PM
Endosulfan I	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Endosulfan II	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Endosulfan sulfate	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Endrin	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Endrin aldehyde	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Endrin ketone	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
gamma-BHC	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Heptachlor	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Hexachlorobenzene	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Hexachlorocyclopentadiene	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Methoxychlor	U	1.01	2.5		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Toxaphene	U	12.7	25		µg/Kg-dry	1	10/17/2013 5:08:00 PM
Surr: DCB	60.6	0	16-148		%REC	1	10/17/2013 5:08:00 PM
Surr: TCX	60.1	0	19-145		%REC	1	10/17/2013 5:08:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	5.72	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	2660	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Antimony	U	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Arsenic	2.67	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Barium	32.2	0.21	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Beryllium	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Cadmium	0.115	0.10	0.410	J	mg/Kg-dry	1	10/15/2013 11:37:15 AM
Calcium	49600	2.05	5.12		mg/Kg-dry	10	10/15/2013 12:23:32 PM
Chromium	6.56	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Cobalt	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Copper	10.1	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Iron	6360	2.05	4.10		mg/Kg-dry	10	10/15/2013 12:23:32 PM
Lead	46.6	0.21	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Magnesium	19700	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Manganese	129	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Nickel	9.18	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Potassium	1200	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Selenium	U	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Silver	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Sodium	95.1	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Thallium	0.679	0.31	0.512		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Vanadium	9.15	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM
Zinc	37.5	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:37:15 AM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
1,2-Dichlorobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
1,3-Dichlorobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
1,4-Dichlorobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,3,4,6-Tetrachlorophenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,4,5-Trichlorophenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,4,6-Trichlorophenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,4-Dichlorophenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,4-Dimethylphenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,4-Dinitrophenol	U	259	2600	C	µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,4-Dinitrotoluene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2,6-Dinitrotoluene	U	259	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2-Chloronaphthalene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2-Chlorophenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2-Methylnaphthalene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2-Methylphenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2-Nitroaniline	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
2-Nitrophenol	U	259	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
3,3´-Dichlorobenzidine	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
3+4-Methylphenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
3-Nitroaniline	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
4,6-Dinitro-2-methylphenol	U	259	2600	C	µg/Kg-dry	1	10/25/2013 12:04:00 AM
4-Bromophenyl phenyl ether	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
4-Chloro-3-methylphenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
4-Chloroaniline	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
4-Chlorophenyl phenyl ether	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
4-Nitroaniline	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
4-Nitrophenol	U	259	2600		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Acenaphthene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Acenaphthylene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Acetophenone	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Aniline	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Anthracene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Azobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzaldehyde	U	259	2600		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzidine	U	259	2600	C	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzo(a)anthracene	450	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzo(a)pyrene	490	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzo(b)fluoranthene	370	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzo(g,h,i)perylene	310	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzo(k)fluoranthene	370	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzoic acid	U	259	2600	C	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Benzyl alcohol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Biphenyl	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Bis(2-chloroethoxy)methane	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Bis(2-chloroethyl)ether	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Bis(2-chloroisopropyl)ether	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Bis(2-ethylhexyl)phthalate	U	130	1300	C	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Butyl benzyl phthalate	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Caprolactam	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Carbazole	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Chrysene	540	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Dibenzo(a,h)anthracene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Dibenzofuran	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Diethyl phthalate	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Dimethyl phthalate	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Di-n-butyl phthalate	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Di-n-octyl phthalate	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Fluoranthene	590	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Fluorene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Hexachlorobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Hexachlorobutadiene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Hexachlorocyclopentadiene	U	259	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Hexachloroethane	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Indeno(1,2,3-c,d)pyrene	290	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 10:40:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-09B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Naphthalene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Nitrobenzene	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
N-Nitrosodimethylamine	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
N-Nitrosodi-n-propylamine	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
N-Nitrosodiphenylamine	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Parathion	U	259	2600		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Pentachlorophenol	U	259	2600		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Phenanthrene	510	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Phenol	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Pyrene	650	130	1300	J	µg/Kg-dry	1	10/25/2013 12:04:00 AM
Pyridine	U	130	1300		µg/Kg-dry	1	10/25/2013 12:04:00 AM
Surr: 2,4,6-Tribromophenol	15.5	0	10-137		%REC	1	10/25/2013 12:04:00 AM
Surr: 2-Fluorobiphenyl	129	0	22-146		%REC	1	10/25/2013 12:04:00 AM
Surr: 2-Fluorophenol	106	0	10-125		%REC	1	10/25/2013 12:04:00 AM
Surr: 4-Terphenyl-d14	65.3	0	14-149		%REC	1	10/25/2013 12:04:00 AM
Surr: Nitrobenzene-d5	104	0	14-148		%REC	1	10/25/2013 12:04:00 AM
Surr: Phenol-d6	83.6	0	10-126		%REC	1	10/25/2013 12:04:00 AM

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1,1-Trichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1,2,2-Tetrachloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1,2-Trichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1-Dichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,1-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2,3-Trichlorobenzene	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2,3-Trichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2,4,5-Tetramethylbenzene	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2,4-Trichlorobenzene	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2,4-Trimethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2-Dibromo-3-chloropropane	U	2.15	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2-Dibromoethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2-Dichloroethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,2-Dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,3,5-Trimethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,3-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,3-dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,4-Dichlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
1,4-Dioxane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
2,2-Dichloropropane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
2-Butanone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:29:00 AM
2-Chloroethyl vinyl ether	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:29:00 AM
2-Chlorotoluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
2-Hexanone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:29:00 AM
2-Propanol	U	2.15	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
4-Chlorotoluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
4-Isopropyltoluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
4-Methyl-2-pentanone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Acetone	U	5.38	11		µg/Kg-dry	1	10/22/2013 3:29:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Bromobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Bromochloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Bromodichloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Bromoform	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Bromomethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Carbon disulfide	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Carbon tetrachloride	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Chlorobenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Chlorodifluoromethane	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Chloroethane	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Chloroform	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Chloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
cis-1,2-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
cis-1,3-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Dibromochloromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Dibromomethane	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Dichlorodifluoromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Diisopropyl ether	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Ethanol	U	13.5	27	CN	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Ethylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Freon-114	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Hexachlorobutadiene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Isopropylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
m,p-Xylene	U	2.15	11		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Methyl Acetate	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Methyl tert-butyl ether	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Methylene chloride	3.1	1.08	5.4	JBC	µg/Kg-dry	1	10/22/2013 3:29:00 AM
Naphthalene	U	1.08	5.4	C	µg/Kg-dry	1	10/22/2013 3:29:00 AM
n-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
n-Propylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
o-Xylene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
p-Diethylbenzene	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:29:00 AM

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Qualifiers:

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.08	5.4	N	µg/Kg-dry	1	10/22/2013 3:29:00 AM
sec-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Styrene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
t-Butyl alcohol	7.2	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
tert-Butylbenzene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Tetrachloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Toluene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
trans-1,2-Dichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
trans-1,3-Dichloropropene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Trichloroethene	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Trichlorofluoromethane	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Vinyl acetate	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Vinyl chloride	U	1.08	5.4		µg/Kg-dry	1	10/22/2013 3:29:00 AM
Surr: 4-Bromofluorobenzene	96.0	0	56-133		%REC	1	10/22/2013 3:29:00 AM
Surr: Dibromofluoromethane	94.8	0	60-132		%REC	1	10/22/2013 3:29:00 AM
Surr: Toluene-d8	98.0	0	69-125		%REC	1	10/22/2013 3:29:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00723	0.005	0.0103	J	mg/Kg-dry	1	10/16/2013 2:02:23 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1221	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1232	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1242	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1248	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1254	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1260	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1262	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Aroclor 1268	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:17:00 AM
Surr: TCX	64.9	0	13-145		%REC	1	10/17/2013 5:17:00 AM
Surr: DCB	73.4	0	12-144		%REC	1	10/17/2013 5:17:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4'-DDD	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
4,4'-DDE	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
4,4'-DDT	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Aldrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
alpha-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
beta-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Chlordane	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:22:00 PM
DBCP	U	1.05	2.6	N	µg/Kg-dry	1	10/17/2013 5:22:00 PM
delta-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Dieldrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Endosulfan I	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Endosulfan II	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Endosulfan sulfate	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Endrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Endrin aldehyde	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Endrin ketone	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
gamma-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Heptachlor	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Hexachlorobenzene	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Hexachlorocyclopentadiene	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Methoxychlor	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Toxaphene	U	13.1	26		µg/Kg-dry	1	10/17/2013 5:22:00 PM
Surr: DCB	56.5	0	16-148		%REC	1	10/17/2013 5:22:00 PM
Surr: TCX	100	0	19-145		%REC	1	10/17/2013 5:22:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	6.90	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	5040	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Antimony	U	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Arsenic	1.79	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Barium	33.4	0.21	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Beryllium	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Cadmium	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Calcium	1550	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Chromium	13.7	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Cobalt	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Copper	14.6	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Iron	11700	2.05	4.10		mg/Kg-dry	10	10/15/2013 12:41:32 PM
Lead	5.12	0.21	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Magnesium	2990	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Manganese	239	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Nickel	20.4	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Potassium	1610	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Selenium	U	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Silver	U	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Sodium	97.9	0.21	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Thallium	1.11	0.31	0.512		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Vanadium	21.0	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM
Zinc	25.8	0.10	0.410		mg/Kg-dry	1	10/15/2013 11:39:17 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
1,2-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
1,3-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
1,4-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,3,4,6-Tetrachlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,4,5-Trichlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,4,6-Trichlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,4-Dichlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,4-Dimethylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,4-Dinitrophenol	U	52.1	520	C	µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,4-Dinitrotoluene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2,6-Dinitrotoluene	U	52.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2-Chloronaphthalene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2-Chlorophenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2-Methylnaphthalene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2-Methylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
2-Nitrophenol	U	52.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
3,3´-Dichlorobenzidine	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
3+4-Methylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
3-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
4,6-Dinitro-2-methylphenol	U	52.1	520	C	µg/Kg-dry	1	10/24/2013 8:27:00 PM
4-Bromophenyl phenyl ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
4-Chloro-3-methylphenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
4-Chloroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
4-Chlorophenyl phenyl ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
4-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
4-Nitrophenol	U	52.1	520		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Acenaphthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Acenaphthylene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Acetophenone	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Aniline	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Anthracene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Azobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzaldehyde	U	52.1	520		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzidine	U	52.1	520	C	µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzo(a)anthracene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzo(a)pyrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzo(b)fluoranthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzo(g,h,i)perylene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzo(k)fluoranthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzoic acid	U	52.1	520	C	µg/Kg-dry	1	10/24/2013 8:27:00 PM
Benzyl alcohol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Biphenyl	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Bis(2-chloroethoxy)methane	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Bis(2-chloroethyl)ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Bis(2-chloroisopropyl)ether	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Bis(2-ethylhexyl)phthalate	U	26.1	260	C	µg/Kg-dry	1	10/24/2013 8:27:00 PM
Butyl benzyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Caprolactam	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Carbazole	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Chrysene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Dibenzo(a,h)anthracene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Dibenzofuran	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Diethyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Dimethyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Di-n-butyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Di-n-octyl phthalate	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Fluoranthene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Fluorene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Hexachlorobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Hexachlorobutadiene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Hexachlorocyclopentadiene	U	52.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Hexachloroethane	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Indeno(1,2,3-c,d)pyrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-4 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 11:00:00 AM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-10B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Naphthalene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Nitrobenzene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
N-Nitrosodimethylamine	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
N-Nitrosodi-n-propylamine	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
N-Nitrosodiphenylamine	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Parathion	U	52.1	520		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Pentachlorophenol	U	52.1	520		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Phenanthrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Phenol	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Pyrene	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Pyridine	U	26.1	260		µg/Kg-dry	1	10/24/2013 8:27:00 PM
Surr: 2,4,6-Tribromophenol	46.1	0	10-137		%REC	1	10/24/2013 8:27:00 PM
Surr: 2-Fluorobiphenyl	62.2	0	22-146		%REC	1	10/24/2013 8:27:00 PM
Surr: 2-Fluorophenol	81.6	0	10-125		%REC	1	10/24/2013 8:27:00 PM
Surr: 4-Terphenyl-d14	76.7	0	14-149		%REC	1	10/24/2013 8:27:00 PM
Surr: Nitrobenzene-d5	69.5	0	14-148		%REC	1	10/24/2013 8:27:00 PM
Surr: Phenol-d6	77.2	0	10-126		%REC	1	10/24/2013 8:27:00 PM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1,1-Trichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1,2,2-Tetrachloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1,2-Trichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1-Dichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1-Dichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,1-Dichloropropene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2,3-Trichlorobenzene	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2,3-Trichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2,4,5-Tetramethylbenzene	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2,4-Trichlorobenzene	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2,4-Trimethylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2-Dibromo-3-chloropropane	U	2.1	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2-Dibromoethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2-Dichlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2-Dichloroethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,2-Dichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,3,5-Trimethylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,3-Dichlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,3-dichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,4-Dichlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
1,4-Dioxane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
2,2-Dichloropropane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
2-Butanone	U	5.25	10		µg/Kg-dry	1	10/21/2013 7:35:00 PM
2-Chloroethyl vinyl ether	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 7:35:00 PM
2-Chlorotoluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
2-Hexanone	U	5.25	10		µg/Kg-dry	1	10/21/2013 7:35:00 PM
2-Propanol	U	2.1	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
4-Chlorotoluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
4-Isopropyltoluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
4-Methyl-2-pentanone	U	5.25	10		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Acetone	U	5.25	10		µg/Kg-dry	1	10/21/2013 7:35:00 PM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Bromobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Bromochloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Bromodichloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Bromoform	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Bromomethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Carbon disulfide	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Carbon tetrachloride	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Chlorobenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Chlorodifluoromethane	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Chloroethane	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Chloroform	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Chloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
cis-1,2-Dichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
cis-1,3-Dichloropropene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Dibromochloromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Dibromomethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Dichlorodifluoromethane	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Diisopropyl ether	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Ethanol	U	13.1	26	CN	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Ethylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Freon-114	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Hexachlorobutadiene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Isopropylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
m,p-Xylene	U	2.1	10		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Methyl Acetate	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Methyl tert-butyl ether	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Methylene chloride	3.6	1.05	5.2	JBC	µg/Kg-dry	1	10/21/2013 7:35:00 PM
Naphthalene	U	1.05	5.2	C	µg/Kg-dry	1	10/21/2013 7:35:00 PM
n-Butylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
n-Propylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
o-Xylene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
p-Diethylbenzene	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 7:35:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.05	5.2	N	µg/Kg-dry	1	10/21/2013 7:35:00 PM
sec-Butylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Styrene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
t-Butyl alcohol	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
tert-Butylbenzene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Tetrachloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Toluene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
trans-1,2-Dichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
trans-1,3-Dichloropropene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Trichloroethene	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Trichlorofluoromethane	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Vinyl acetate	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Vinyl chloride	U	1.05	5.2		µg/Kg-dry	1	10/21/2013 7:35:00 PM
Surr: 4-Bromofluorobenzene	93.9	0	56-133		%REC	1	10/21/2013 7:35:00 PM
Surr: Dibromofluoromethane	95.5	0	60-132		%REC	1	10/21/2013 7:35:00 PM
Surr: Toluene-d8	95.9	0	69-125		%REC	1	10/21/2013 7:35:00 PM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.0500	0.005	0.00944		mg/Kg-dry	1	10/16/2013 2:04:31 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1221	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1232	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1242	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1248	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1254	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1260	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1262	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Aroclor 1268	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:42:00 AM
Surr: TCX	60.6	0	13-145		%REC	1	10/17/2013 5:42:00 AM
Surr: DCB	65.5	0	12-144		%REC	1	10/17/2013 5:42:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
4,4´-DDE	9.8	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
4,4´-DDT	8.6	1.05	2.6	P	µg/Kg-dry	1	10/17/2013 5:37:00 PM
Aldrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
alpha-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
beta-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Chlordane	U	10.5	21		µg/Kg-dry	1	10/17/2013 5:37:00 PM
DBCP	U	1.05	2.6	N	µg/Kg-dry	1	10/17/2013 5:37:00 PM
delta-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Dieldrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Endosulfan I	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Endosulfan II	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Endosulfan sulfate	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Endrin	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Endrin aldehyde	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Endrin ketone	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
gamma-BHC	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Heptachlor	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Hexachlorobenzene	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Hexachlorocyclopentadiene	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Methoxychlor	U	1.05	2.6		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Toxaphene	U	13.1	26		µg/Kg-dry	1	10/17/2013 5:37:00 PM
Surr: DCB	41.1	0	16-148		%REC	1	10/17/2013 5:37:00 PM
Surr: TCX	76.9	0	19-145		%REC	1	10/17/2013 5:37:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	6.21	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	3100	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Antimony	U	0.21	0.515		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Arsenic	2.42	0.21	0.515		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Barium	31.3	0.21	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Beryllium	U	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Cadmium	U	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Calcium	46400	2.06	5.15		mg/Kg-dry	10	10/15/2013 12:43:34 PM
Chromium	7.19	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Cobalt	U	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Copper	8.17	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Iron	7660	2.06	4.12		mg/Kg-dry	10	10/15/2013 12:43:34 PM
Lead	30.7	0.21	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Magnesium	19400	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Manganese	149	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Nickel	11.2	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Potassium	1350	0.21	0.515		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Selenium	U	0.21	0.515		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Silver	0.238	0.10	0.412	J	mg/Kg-dry	1	10/15/2013 11:41:19 AM
Sodium	81.2	0.21	0.515		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Thallium	0.636	0.31	0.515		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Vanadium	8.94	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM
Zinc	32.3	0.10	0.412		mg/Kg-dry	1	10/15/2013 11:41:19 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
1,2-Dichlorobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
1,3-Dichlorobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
1,4-Dichlorobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,3,4,6-Tetrachlorophenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,4,5-Trichlorophenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,4,6-Trichlorophenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,4-Dichlorophenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,4-Dimethylphenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,4-Dinitrophenol	U	51.1	510	C	µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,4-Dinitrotoluene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2,6-Dinitrotoluene	U	51.1	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2-Chloronaphthalene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2-Chlorophenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2-Methylnaphthalene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2-Methylphenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2-Nitroaniline	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
2-Nitrophenol	U	51.1	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
3,3'-Dichlorobenzidine	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
3+4-Methylphenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
3-Nitroaniline	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
4,6-Dinitro-2-methylphenol	U	51.1	510	C	µg/Kg-dry	1	10/25/2013 12:31:00 AM
4-Bromophenyl phenyl ether	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
4-Chloro-3-methylphenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
4-Chloroaniline	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
4-Chlorophenyl phenyl ether	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
4-Nitroaniline	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
4-Nitrophenol	U	51.1	510		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Acenaphthene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Acenaphthylene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Acetophenone	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Aniline	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Anthracene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Azobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzaldehyde	U	51.1	510		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzidine	U	51.1	510	C	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzo(a)anthracene	160	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzo(a)pyrene	170	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzo(b)fluoranthene	170	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzo(g,h,i)perylene	190	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzo(k)fluoranthene	140	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzoic acid	U	51.1	510	C	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Benzyl alcohol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Biphenyl	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Bis(2-chloroethoxy)methane	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Bis(2-chloroethyl)ether	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Bis(2-chloroisopropyl)ether	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Bis(2-ethylhexyl)phthalate	U	25.6	260	C	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Butyl benzyl phthalate	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Caprolactam	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Carbazole	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Chrysene	230	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Dibenzo(a,h)anthracene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Dibenzofuran	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Diethyl phthalate	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Dimethyl phthalate	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Di-n-butyl phthalate	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Di-n-octyl phthalate	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Fluoranthene	250	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Fluorene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Hexachlorobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Hexachlorobutadiene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Hexachlorocyclopentadiene	U	51.1	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Hexachloroethane	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Indeno(1,2,3-c,d)pyrene	180	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:15:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-11B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Naphthalene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Nitrobenzene	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
N-Nitrosodimethylamine	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
N-Nitrosodi-n-propylamine	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
N-Nitrosodiphenylamine	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Parathion	U	51.1	510		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Pentachlorophenol	U	51.1	510		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Phenanthrene	160	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Phenol	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Pyrene	150	25.6	260	J	µg/Kg-dry	1	10/25/2013 12:31:00 AM
Pyridine	U	25.6	260		µg/Kg-dry	1	10/25/2013 12:31:00 AM
Surr: 2,4,6-Tribromophenol	34.0	0	10-137		%REC	1	10/25/2013 12:31:00 AM
Surr: 2-Fluorobiphenyl	116	0	22-146		%REC	1	10/25/2013 12:31:00 AM
Surr: 2-Fluorophenol	81.2	0	10-125		%REC	1	10/25/2013 12:31:00 AM
Surr: 4-Terphenyl-d14	41.5	0	14-149		%REC	1	10/25/2013 12:31:00 AM
Surr: Nitrobenzene-d5	87.6	0	14-148		%REC	1	10/25/2013 12:31:00 AM
Surr: Phenol-d6	61.2	0	10-126		%REC	1	10/25/2013 12:31:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1,1-Trichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1,2,2-Tetrachloroethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1,2-Trichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1-Dichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1-Dichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,1-Dichloropropene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2,3-Trichlorobenzene	U	1.09	5.4	C	µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2,3-Trichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2,4,5-Tetramethylbenzene	U	1.09	5.4	N	µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2,4-Trichlorobenzene	U	1.09	5.4	C	µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2,4-Trimethylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2-Dibromo-3-chloropropane	U	2.17	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2-Dibromoethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2-Dichlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2-Dichloroethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,2-Dichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,3,5-Trimethylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,3-Dichlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,3-dichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,4-Dichlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
1,4-Dioxane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
2,2-Dichloropropane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
2-Butanone	U	5.43	11		µg/Kg-dry	1	10/22/2013 3:54:00 AM
2-Chloroethyl vinyl ether	U	1.09	5.4	C	µg/Kg-dry	1	10/22/2013 3:54:00 AM
2-Chlorotoluene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
2-Hexanone	U	5.43	11		µg/Kg-dry	1	10/22/2013 3:54:00 AM
2-Propanol	U	2.17	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
4-Chlorotoluene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
4-Isopropyltoluene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
4-Methyl-2-pentanone	U	5.43	11		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Acetone	U	5.43	11		µg/Kg-dry	1	10/22/2013 3:54:00 AM

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Qualifiers:

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Bromobenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Bromochloromethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Bromodichloromethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Bromoform	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Bromomethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Carbon disulfide	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Carbon tetrachloride	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Chlorobenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Chlorodifluoromethane	U	1.09	5.4	N	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Chloroethane	U	1.09	5.4	C	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Chloroform	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Chloromethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
cis-1,2-Dichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
cis-1,3-Dichloropropene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Dibromochloromethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Dibromomethane	U	1.09	5.4	C	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Dichlorodifluoromethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Diisopropyl ether	U	1.09	5.4	N	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Ethanol	U	13.6	27	CN	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Ethylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Freon-114	U	1.09	5.4	N	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Hexachlorobutadiene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Isopropylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
m,p-Xylene	U	2.17	11		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Methyl Acetate	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Methyl tert-butyl ether	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Methylene chloride	3.3	1.09	5.4	JBC	µg/Kg-dry	1	10/22/2013 3:54:00 AM
Naphthalene	U	1.09	5.4	C	µg/Kg-dry	1	10/22/2013 3:54:00 AM
n-Butylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
n-Propylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
o-Xylene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
p-Diethylbenzene	U	1.09	5.4	N	µg/Kg-dry	1	10/22/2013 3:54:00 AM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.09	5.4	N	µg/Kg-dry	1	10/22/2013 3:54:00 AM
sec-Butylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Styrene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
t-Butyl alcohol	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
tert-Butylbenzene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Tetrachloroethene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Toluene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
trans-1,2-Dichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
trans-1,3-Dichloropropene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Trichloroethene	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Trichlorofluoromethane	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Vinyl acetate	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Vinyl chloride	U	1.09	5.4		µg/Kg-dry	1	10/22/2013 3:54:00 AM
Surr: 4-Bromofluorobenzene	97.3	0	56-133		%REC	1	10/22/2013 3:54:00 AM
Surr: Dibromofluoromethane	93.9	0	60-132		%REC	1	10/22/2013 3:54:00 AM
Surr: Toluene-d8	98.0	0	69-125		%REC	1	10/22/2013 3:54:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00642	0.005	0.0107	J	mg/Kg-dry	1	10/16/2013 2:06:40 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1221	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1232	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1242	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1248	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1254	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1260	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1262	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Aroclor 1268	U	10.6	21		µg/Kg-dry	1	10/17/2013 6:06:00 AM
Surr: TCX	88.8	0	13-145		%REC	1	10/17/2013 6:06:00 AM
Surr: DCB	67.3	0	12-144		%REC	1	10/17/2013 6:06:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4'-DDD	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
4,4'-DDE	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
4,4'-DDT	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Aldrin	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
alpha-BHC	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
beta-BHC	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Chlordane	U	10.6	21		µg/Kg-dry	1	10/17/2013 5:51:00 PM
DBCP	U	1.06	2.7	N	µg/Kg-dry	1	10/17/2013 5:51:00 PM
delta-BHC	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Dieldrin	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Endosulfan I	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Endosulfan II	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Endosulfan sulfate	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Endrin	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Endrin aldehyde	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Endrin ketone	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
gamma-BHC	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Heptachlor	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Hexachlorobenzene	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Hexachlorocyclopentadiene	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Methoxychlor	U	1.06	2.7		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Toxaphene	U	13.3	27		µg/Kg-dry	1	10/17/2013 5:51:00 PM
Surr: DCB	96.4	0	16-148		%REC	1	10/17/2013 5:51:00 PM
Surr: TCX	59.5	0	19-145		%REC	1	10/17/2013 5:51:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	8.33	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	5960	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Antimony	U	0.21	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Arsenic	2.08	0.21	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Barium	34.4	0.21	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Beryllium	U	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Cadmium	U	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Calcium	1460	0.21	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Chromium	36.3	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Cobalt	U	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Copper	15.6	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Iron	14500	2.13	4.26		mg/Kg-dry	10	10/15/2013 12:45:37 PM
Lead	5.81	0.21	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Magnesium	2450	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Manganese	263	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Nickel	24.5	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Potassium	2000	0.21	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Selenium	U	0.21	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Silver	U	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Sodium	144	0.21	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Thallium	1.22	0.32	0.533		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Vanadium	28.0	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM
Zinc	32.1	0.11	0.426		mg/Kg-dry	1	10/15/2013 11:43:21 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
1,2-Dichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
1,3-Dichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
1,4-Dichlorobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,3,4,6-Tetrachlorophenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,4,5-Trichlorophenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,4,6-Trichlorophenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,4-Dichlorophenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,4-Dimethylphenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,4-Dinitrophenol	U	53.2	530	C	µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,4-Dinitrotoluene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2,6-Dinitrotoluene	U	53.2	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2-Chloronaphthalene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2-Chlorophenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2-Methylnaphthalene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2-Methylphenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2-Nitroaniline	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
2-Nitrophenol	U	53.2	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
3,3´-Dichlorobenzidine	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
3+4-Methylphenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
3-Nitroaniline	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
4,6-Dinitro-2-methylphenol	U	53.2	530	C	µg/Kg-dry	1	10/24/2013 8:54:00 PM
4-Bromophenyl phenyl ether	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
4-Chloro-3-methylphenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
4-Chloroaniline	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
4-Chlorophenyl phenyl ether	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
4-Nitroaniline	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
4-Nitrophenol	U	53.2	530		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Acenaphthene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Acenaphthylene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Acetophenone	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Aniline	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Anthracene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

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Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Azobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzaldehyde	U	53.2	530		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzidine	U	53.2	530	C	µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzo(a)anthracene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzo(a)pyrene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzo(b)fluoranthene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzo(g,h,i)perylene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzo(k)fluoranthene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzoic acid	U	53.2	530	C	µg/Kg-dry	1	10/24/2013 8:54:00 PM
Benzyl alcohol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Biphenyl	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Bis(2-chloroethoxy)methane	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Bis(2-chloroethyl)ether	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Bis(2-chloroisopropyl)ether	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Bis(2-ethylhexyl)phthalate	29	26.6	270	JC	µg/Kg-dry	1	10/24/2013 8:54:00 PM
Butyl benzyl phthalate	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Caprolactam	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Carbazole	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Chrysene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Dibenzo(a,h)anthracene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Dibenzofuran	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Diethyl phthalate	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Dimethyl phthalate	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Di-n-butyl phthalate	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Di-n-octyl phthalate	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Fluoranthene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Fluorene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Hexachlorobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Hexachlorobutadiene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Hexachlorocyclopentadiene	U	53.2	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Hexachloroethane	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Indeno(1,2,3-c,d)pyrene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-5 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 12:30:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-12B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Naphthalene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Nitrobenzene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
N-Nitrosodimethylamine	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
N-Nitrosodi-n-propylamine	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
N-Nitrosodiphenylamine	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Parathion	U	53.2	530		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Pentachlorophenol	U	53.2	530		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Phenanthrene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Phenol	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Pyrene	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Pyridine	U	26.6	270		µg/Kg-dry	1	10/24/2013 8:54:00 PM
Surr: 2,4,6-Tribromophenol	43.1	0	10-137		%REC	1	10/24/2013 8:54:00 PM
Surr: 2-Fluorobiphenyl	66.6	0	22-146		%REC	1	10/24/2013 8:54:00 PM
Surr: 2-Fluorophenol	78.3	0	10-125		%REC	1	10/24/2013 8:54:00 PM
Surr: 4-Terphenyl-d14	92.6	0	14-149		%REC	1	10/24/2013 8:54:00 PM
Surr: Nitrobenzene-d5	65.5	0	14-148		%REC	1	10/24/2013 8:54:00 PM
Surr: Phenol-d6	75.2	0	10-126		%REC	1	10/24/2013 8:54:00 PM

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1,1-Trichloroethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1,2,2-Tetrachloroethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1,2-Trichloroethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1-Dichloroethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1-Dichloroethene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,1-Dichloropropene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2,3-Trichlorobenzene	U	1.11	5.6	C	µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2,3-Trichloropropane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2,4,5-Tetramethylbenzene	U	1.11	5.6	N	µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2,4-Trichlorobenzene	U	1.11	5.6	C	µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2,4-Trimethylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2-Dibromo-3-chloropropane	U	2.22	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2-Dibromoethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2-Dichlorobenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2-Dichloroethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,2-Dichloropropane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,3,5-Trimethylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,3-Dichlorobenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,3-dichloropropane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,4-Dichlorobenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
1,4-Dioxane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
2,2-Dichloropropane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
2-Butanone	U	5.56	11		µg/Kg-dry	1	10/22/2013 12:34:00 AM
2-Chloroethyl vinyl ether	U	1.11	5.6	C	µg/Kg-dry	1	10/22/2013 12:34:00 AM
2-Chlorotoluene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
2-Hexanone	U	5.56	11		µg/Kg-dry	1	10/22/2013 12:34:00 AM
2-Propanol	U	2.22	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
4-Chlorotoluene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
4-Isopropyltoluene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
4-Methyl-2-pentanone	U	5.56	11		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Acetone	U	5.56	11		µg/Kg-dry	1	10/22/2013 12:34:00 AM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Bromobenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Bromochloromethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Bromodichloromethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Bromoform	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Bromomethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Carbon disulfide	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Carbon tetrachloride	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Chlorobenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Chlorodifluoromethane	U	1.11	5.6	N	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Chloroethane	U	1.11	5.6	C	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Chloroform	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Chloromethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
cis-1,2-Dichloroethene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
cis-1,3-Dichloropropene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Dibromochloromethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Dibromomethane	U	1.11	5.6	C	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Dichlorodifluoromethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Diisopropyl ether	U	1.11	5.6	N	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Ethanol	U	13.9	28	CN	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Ethylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Freon-114	U	1.11	5.6	N	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Hexachlorobutadiene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Isopropylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
m,p-Xylene	U	2.22	11		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Methyl Acetate	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Methyl tert-butyl ether	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Methylene chloride	3.0	1.11	5.6	JBC	µg/Kg-dry	1	10/22/2013 12:34:00 AM
Naphthalene	U	1.11	5.6	C	µg/Kg-dry	1	10/22/2013 12:34:00 AM
n-Butylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
n-Propylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
o-Xylene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
p-Diethylbenzene	U	1.11	5.6	N	µg/Kg-dry	1	10/22/2013 12:34:00 AM

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Qualifiers:

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.11	5.6	N	µg/Kg-dry	1	10/22/2013 12:34:00 AM
sec-Butylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Styrene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
t-Butyl alcohol	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
tert-Butylbenzene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Tetrachloroethene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Toluene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
trans-1,2-Dichloroethene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
trans-1,3-Dichloropropene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Trichloroethene	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Trichlorofluoromethane	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Vinyl acetate	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Vinyl chloride	U	1.11	5.6		µg/Kg-dry	1	10/22/2013 12:34:00 AM
Surr: 4-Bromofluorobenzene	96.6	0	56-133		%REC	1	10/22/2013 12:34:00 AM
Surr: Dibromofluoromethane	93.4	0	60-132		%REC	1	10/22/2013 12:34:00 AM
Surr: Toluene-d8	97.2	0	69-125		%REC	1	10/22/2013 12:34:00 AM

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LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.394	0.005	0.0109		mg/Kg-dry	1	10/16/2013 2:08:55 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1221	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1232	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1242	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1248	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1254	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1260	13	11.1	22	J	µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1262	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Aroclor 1268	U	11.1	22		µg/Kg-dry	1	10/17/2013 6:31:00 AM
Surr: TCX	47.3	0	13-145		%REC	1	10/17/2013 6:31:00 AM
Surr: DCB	47.4	0	12-144		%REC	1	10/17/2013 6:31:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
4,4´-DDE	1.6	1.11	2.8	J	µg/Kg-dry	1	10/17/2013 6:06:00 PM
4,4´-DDT	4.9	1.11	2.8	P	µg/Kg-dry	1	10/17/2013 6:06:00 PM
Aldrin	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
alpha-BHC	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
beta-BHC	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Chlordane	13	11.1	22	J	µg/Kg-dry	1	10/17/2013 6:06:00 PM
DBCP	U	1.11	2.8	N	µg/Kg-dry	1	10/17/2013 6:06:00 PM
delta-BHC	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Dieldrin	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Endosulfan I	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Endosulfan II	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Endosulfan sulfate	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Endrin	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Endrin aldehyde	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Endrin ketone	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
gamma-BHC	18	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Heptachlor	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Hexachlorobenzene	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Hexachlorocyclopentadiene	1.9	1.11	2.8	J	µg/Kg-dry	1	10/17/2013 6:06:00 PM
Methoxychlor	U	1.11	2.8		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Toxaphene	U	13.9	28		µg/Kg-dry	1	10/17/2013 6:06:00 PM
Surr: DCB	69.7	0	16-148		%REC	1	10/17/2013 6:06:00 PM
Surr: TCX	51.8	0	19-145		%REC	1	10/17/2013 6:06:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	11.3	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	5280	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Antimony	0.436	0.22	0.555	J	mg/Kg-dry	1	10/15/2013 11:45:23 AM
Arsenic	5.38	0.22	0.555		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Barium	68.6	0.22	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Beryllium	U	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Cadmium	0.633	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Calcium	26600	2.22	5.55		mg/Kg-dry	10	10/15/2013 12:47:39 PM
Chromium	10.9	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Cobalt	U	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Copper	18.5	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Iron	13200	2.22	4.44		mg/Kg-dry	10	10/15/2013 12:47:39 PM
Lead	113	0.22	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Magnesium	5410	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Manganese	159	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Nickel	12.7	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Potassium	2370	0.22	0.555		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Selenium	U	0.22	0.555		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Silver	1.05	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Sodium	120	0.22	0.555		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Thallium	0.993	0.33	0.555		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Vanadium	15.8	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM
Zinc	120	0.11	0.444		mg/Kg-dry	1	10/15/2013 11:45:23 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
1,2-Dichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
1,3-Dichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
1,4-Dichlorobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,3,4,6-Tetrachlorophenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,4,5-Trichlorophenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,4,6-Trichlorophenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,4-Dichlorophenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,4-Dimethylphenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,4-Dinitrophenol	U	54.4	540	C	µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,4-Dinitrotoluene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2,6-Dinitrotoluene	U	54.4	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2-Chloronaphthalene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2-Chlorophenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2-Methylnaphthalene	230	27.2	270	J	µg/Kg-dry	1	10/25/2013 1:26:00 AM
2-Methylphenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2-Nitroaniline	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
2-Nitrophenol	U	54.4	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
3,3´-Dichlorobenzidine	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
3+4-Methylphenol	60	27.2	270	J	µg/Kg-dry	1	10/25/2013 1:26:00 AM
3-Nitroaniline	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
4,6-Dinitro-2-methylphenol	U	54.4	540	C	µg/Kg-dry	1	10/25/2013 1:26:00 AM
4-Bromophenyl phenyl ether	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
4-Chloro-3-methylphenol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
4-Chloroaniline	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
4-Chlorophenyl phenyl ether	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
4-Nitroaniline	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
4-Nitrophenol	U	54.4	540		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Acenaphthene	1500	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Acenaphthylene	560	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Acetophenone	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Aniline	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Anthracene	3000	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Azobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Benzaldehyde	U	54.4	540		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Benzidine	U	54.4	540	C	µg/Kg-dry	1	10/25/2013 1:26:00 AM
Benzo(a)anthracene	8800	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Benzo(a)pyrene	7300	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Benzo(b)fluoranthene	6200	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Benzo(g,h,i)perylene	5600	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Benzo(k)fluoranthene	6000	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Benzoic acid	U	54.4	540	C	µg/Kg-dry	1	10/25/2013 1:26:00 AM
Benzyl alcohol	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Biphenyl	180	27.2	270	J	µg/Kg-dry	1	10/25/2013 1:26:00 AM
Bis(2-chloroethoxy)methane	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Bis(2-chloroethyl)ether	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Bis(2-chloroisopropyl)ether	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Bis(2-ethylhexyl)phthalate	150	27.2	270	JC	µg/Kg-dry	1	10/25/2013 1:26:00 AM
Butyl benzyl phthalate	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Caprolactam	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Carbazole	1100	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Chrysene	9100	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Dibenzo(a,h)anthracene	1400	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Dibenzofuran	760	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Diethyl phthalate	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Dimethyl phthalate	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Di-n-butyl phthalate	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Di-n-octyl phthalate	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Fluoranthene	15000	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Fluorene	830	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Hexachlorobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Hexachlorobutadiene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Hexachlorocyclopentadiene	U	54.4	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Hexachloroethane	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Indeno(1,2,3-c,d)pyrene	5400	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:00:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-13B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Naphthalene	720	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Nitrobenzene	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
N-Nitrosodimethylamine	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
N-Nitrosodi-n-propylamine	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
N-Nitrosodiphenylamine	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Parathion	U	54.4	540		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Pentachlorophenol	U	54.4	540		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Phenanthrene	16000	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Phenol	73	27.2	270	J	µg/Kg-dry	1	10/25/2013 1:26:00 AM
Pyrene	25000	544	5400		µg/Kg-dry	20	10/24/2013 9:48:00 PM
Pyridine	U	27.2	270		µg/Kg-dry	1	10/25/2013 1:26:00 AM
Surr: 2,4,6-Tribromophenol	55.1	0	10-137		%REC	1	10/25/2013 1:26:00 AM
Surr: 2,4,6-Tribromophenol	23.0	0	10-137		%REC	20	10/24/2013 9:48:00 PM
Surr: 2-Fluorobiphenyl	116	0	22-146		%REC	1	10/25/2013 1:26:00 AM
Surr: 2-Fluorobiphenyl	78.3	0	22-146		%REC	20	10/24/2013 9:48:00 PM
Surr: 2-Fluorophenol	59.5	0	10-125		%REC	20	10/24/2013 9:48:00 PM
Surr: 2-Fluorophenol	68.5	0	10-125		%REC	1	10/25/2013 1:26:00 AM
Surr: 4-Terphenyl-d14	93.4	0	14-149		%REC	20	10/24/2013 9:48:00 PM
Surr: 4-Terphenyl-d14	35.0	0	14-149		%REC	1	10/25/2013 1:26:00 AM
Surr: Nitrobenzene-d5	70.8	0	14-148		%REC	20	10/24/2013 9:48:00 PM
Surr: Nitrobenzene-d5	77.5	0	14-148		%REC	1	10/25/2013 1:26:00 AM
Surr: Phenol-d6	60.7	0	10-126		%REC	20	10/24/2013 9:48:00 PM
Surr: Phenol-d6	51.6	0	10-126		%REC	1	10/25/2013 1:26:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1,1-Trichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1,2,2-Tetrachloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1,2-Trichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1-Dichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1-Dichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,1-Dichloropropene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2,3-Trichlorobenzene	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2,3-Trichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2,4,5-Tetramethylbenzene	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2,4-Trichlorobenzene	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2,4-Trimethylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2-Dibromo-3-chloropropane	U	2.14	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2-Dibromoethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2-Dichlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2-Dichloroethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,2-Dichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,3,5-Trimethylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,3-Dichlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,3-dichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,4-Dichlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
1,4-Dioxane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
2,2-Dichloropropane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
2-Butanone	U	5.36	11		µg/Kg-dry	1	10/22/2013 4:19:00 AM
2-Chloroethyl vinyl ether	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 4:19:00 AM
2-Chlorotoluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
2-Hexanone	U	5.36	11		µg/Kg-dry	1	10/22/2013 4:19:00 AM
2-Propanol	U	2.14	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
4-Chlorotoluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
4-Isopropyltoluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
4-Methyl-2-pentanone	U	5.36	11		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Acetone	6.7	5.36	11	JB	µg/Kg-dry	1	10/22/2013 4:19:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Bromobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Bromochloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Bromodichloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Bromoform	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Bromomethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Carbon disulfide	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Carbon tetrachloride	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Chlorobenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Chlorodifluoromethane	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Chloroethane	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Chloroform	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Chloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
cis-1,2-Dichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
cis-1,3-Dichloropropene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Dibromochloromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Dibromomethane	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Dichlorodifluoromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Diisopropyl ether	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Ethanol	U	13.4	27	CN	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Ethylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Freon-114	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Hexachlorobutadiene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Isopropylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
m,p-Xylene	U	2.14	11		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Methyl Acetate	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Methyl tert-butyl ether	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Methylene chloride	3.0	1.07	5.4	JBC	µg/Kg-dry	1	10/22/2013 4:19:00 AM
Naphthalene	U	1.07	5.4	C	µg/Kg-dry	1	10/22/2013 4:19:00 AM
n-Butylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
n-Propylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
o-Xylene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
p-Diethylbenzene	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 4:19:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.07	5.4	N	µg/Kg-dry	1	10/22/2013 4:19:00 AM
sec-Butylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Styrene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
t-Butyl alcohol	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
tert-Butylbenzene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Tetrachloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Toluene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
trans-1,2-Dichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
trans-1,3-Dichloropropene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Trichloroethene	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Trichlorofluoromethane	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Vinyl acetate	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Vinyl chloride	U	1.07	5.4		µg/Kg-dry	1	10/22/2013 4:19:00 AM
Surr: 4-Bromofluorobenzene	95.8	0	56-133		%REC	1	10/22/2013 4:19:00 AM
Surr: Dibromofluoromethane	97.7	0	60-132		%REC	1	10/22/2013 4:19:00 AM
Surr: Toluene-d8	97.4	0	69-125		%REC	1	10/22/2013 4:19:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	U	0.005	0.0106		mg/Kg-dry	1	10/16/2013 2:11:04 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1221	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1232	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1242	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1248	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1254	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1260	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1262	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Aroclor 1268	U	10.7	21		µg/Kg-dry	1	10/17/2013 6:55:00 AM
Surr: TCX	122	0	13-145		%REC	1	10/17/2013 6:55:00 AM
Surr: DCB	130	0	12-144		%REC	1	10/17/2013 6:55:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
4,4´-DDE	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
4,4´-DDT	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Aldrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
alpha-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
beta-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Chlordane	U	10.7	21		µg/Kg-dry	1	10/17/2013 9:06:00 PM
DBCP	U	1.07	2.7	N	µg/Kg-dry	1	10/17/2013 9:06:00 PM
delta-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Dieldrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Endosulfan I	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Endosulfan II	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Endosulfan sulfate	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Endrin	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Endrin aldehyde	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Endrin ketone	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
gamma-BHC	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Heptachlor	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Hexachlorobenzene	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Hexachlorocyclopentadiene	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Methoxychlor	U	1.07	2.7		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Toxaphene	U	13.4	27		µg/Kg-dry	1	10/17/2013 9:06:00 PM
Surr: DCB	117	0	16-148		%REC	1	10/17/2013 9:06:00 PM
Surr: TCX	88.4	0	19-145		%REC	1	10/17/2013 9:06:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	7.92	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	5130	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Antimony	U	0.21	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Arsenic	1.84	0.21	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Barium	32.9	0.21	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Beryllium	U	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Cadmium	U	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Calcium	1280	0.21	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Chromium	12.5	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Cobalt	U	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Copper	31.3	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Iron	14600	2.1	4.21		mg/Kg-dry	10	10/15/2013 12:49:41 PM
Lead	8.55	0.21	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Magnesium	2520	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Manganese	310	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Nickel	22.9	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Potassium	1530	0.21	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Selenium	U	0.21	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Silver	U	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Sodium	87.3	0.21	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Thallium	0.774	0.32	0.526		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Vanadium	26.4	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM
Zinc	31.3	0.11	0.421		mg/Kg-dry	1	10/15/2013 11:47:24 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
1,2-Dichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
1,3-Dichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
1,4-Dichlorobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,3,4,6-Tetrachlorophenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,4,5-Trichlorophenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,4,6-Trichlorophenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,4-Dichlorophenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,4-Dimethylphenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,4-Dinitrophenol	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,4-Dinitrotoluene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2,6-Dinitrotoluene	U	52.7	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2-Chloronaphthalene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2-Chlorophenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2-Methylnaphthalene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2-Methylphenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2-Nitroaniline	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
2-Nitrophenol	U	52.7	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
3,3´-Dichlorobenzidine	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
3+4-Methylphenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
3-Nitroaniline	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4,6-Dinitro-2-methylphenol	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4-Bromophenyl phenyl ether	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4-Chloro-3-methylphenol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4-Chloroaniline	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4-Chlorophenyl phenyl ether	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4-Nitroaniline	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
4-Nitrophenol	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Acenaphthene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Acenaphthylene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Acetophenone	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Aniline	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Anthracene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Azobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzaldehyde	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzidine	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzo(a)anthracene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzo(a)pyrene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzo(b)fluoranthene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzo(g,h,i)perylene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzo(k)fluoranthene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzoic acid	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Benzyl alcohol	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Biphenyl	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Bis(2-chloroethoxy)methane	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Bis(2-chloroethyl)ether	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Bis(2-chloroisopropyl)ether	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Bis(2-ethylhexyl)phthalate	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Butyl benzyl phthalate	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Caprolactam	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Carbazole	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Chrysene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Dibenzo(a,h)anthracene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Dibenzofuran	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Diethyl phthalate	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Dimethyl phthalate	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Di-n-butyl phthalate	U	26.3	260	C	µg/Kg-dry	1	10/18/2013 6:14:00 PM
Di-n-octyl phthalate	U	26.3	260	C	µg/Kg-dry	1	10/18/2013 6:14:00 PM
Fluoranthene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Fluorene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Hexachlorobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Hexachlorobutadiene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Hexachlorocyclopentadiene	U	52.7	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Hexachloroethane	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Indeno(1,2,3-c,d)pyrene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-6 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:20:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-14B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Naphthalene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Nitrobenzene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
N-Nitrosodimethylamine	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
N-Nitrosodi-n-propylamine	630	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
N-Nitrosodiphenylamine	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Parathion	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Pentachlorophenol	U	52.7	530		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Phenanthrene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Phenol	51	26.3	260	J	µg/Kg-dry	1	10/18/2013 6:14:00 PM
Pyrene	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Pyridine	U	26.3	260		µg/Kg-dry	1	10/18/2013 6:14:00 PM
Surr: 2,4,6-Tribromophenol	22.1	0	10-137		%REC	1	10/18/2013 6:14:00 PM
Surr: 2-Fluorobiphenyl	48.0	0	22-146		%REC	1	10/18/2013 6:14:00 PM
Surr: 2-Fluorophenol	31.8	0	10-125		%REC	1	10/18/2013 6:14:00 PM
Surr: 4-Terphenyl-d14	47.4	0	14-149		%REC	1	10/18/2013 6:14:00 PM
Surr: Nitrobenzene-d5	44.4	0	14-148		%REC	1	10/18/2013 6:14:00 PM
Surr: Phenol-d6	32.2	0	10-126		%REC	1	10/18/2013 6:14:00 PM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: LA
1,1,1,2-Tetrachloroethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1,1-Trichloroethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1,2,2-Tetrachloroethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1,2-Trichloroethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1-Dichloroethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1-Dichloroethene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,1-Dichloropropene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2,3-Trichlorobenzene	U	1.12	5.6	C	µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2,3-Trichloropropane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2,4,5-Tetramethylbenzene	U	1.12	5.6	N	µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2,4-Trichlorobenzene	U	1.12	5.6	C	µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2,4-Trimethylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2-Dibromo-3-chloropropane	U	2.23	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2-Dibromoethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2-Dichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2-Dichloroethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,2-Dichloropropane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,3,5-Trimethylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,3-Dichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,3-dichloropropane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,4-Dichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
1,4-Dioxane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
2,2-Dichloropropane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
2-Butanone	U	5.58	11		µg/Kg-dry	1	10/22/2013 12:59:00 AM
2-Chloroethyl vinyl ether	U	1.12	5.6	C	µg/Kg-dry	1	10/22/2013 12:59:00 AM
2-Chlorotoluene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
2-Hexanone	U	5.58	11		µg/Kg-dry	1	10/22/2013 12:59:00 AM
2-Propanol	U	2.23	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
4-Chlorotoluene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
4-Isopropyltoluene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
4-Methyl-2-pentanone	U	5.58	11		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Acetone	U	5.58	11		µg/Kg-dry	1	10/22/2013 12:59:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Bromobenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Bromochloromethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Bromodichloromethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Bromoform	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Bromomethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Carbon disulfide	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Carbon tetrachloride	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Chlorobenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Chlorodifluoromethane	U	1.12	5.6	N	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Chloroethane	U	1.12	5.6	C	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Chloroform	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Chloromethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
cis-1,2-Dichloroethene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
cis-1,3-Dichloropropene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Dibromochloromethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Dibromomethane	U	1.12	5.6	C	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Dichlorodifluoromethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Diisopropyl ether	U	1.12	5.6	N	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Ethanol	U	13.9	28	CN	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Ethylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Freon-114	U	1.12	5.6	N	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Hexachlorobutadiene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Isopropylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
m,p-Xylene	U	2.23	11		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Methyl Acetate	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Methyl tert-butyl ether	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Methylene chloride	3.5	1.12	5.6	JBC	µg/Kg-dry	1	10/22/2013 12:59:00 AM
Naphthalene	U	1.12	5.6	C	µg/Kg-dry	1	10/22/2013 12:59:00 AM
n-Butylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
n-Propylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
o-Xylene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
p-Diethylbenzene	U	1.12	5.6	N	µg/Kg-dry	1	10/22/2013 12:59:00 AM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.12	5.6	N	µg/Kg-dry	1	10/22/2013 12:59:00 AM
sec-Butylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Styrene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
t-Butyl alcohol	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
tert-Butylbenzene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Tetrachloroethene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Toluene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
trans-1,2-Dichloroethene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
trans-1,3-Dichloropropene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Trichloroethene	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Trichlorofluoromethane	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Vinyl acetate	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Vinyl chloride	U	1.12	5.6		µg/Kg-dry	1	10/22/2013 12:59:00 AM
Surr: 4-Bromofluorobenzene	95.4	0	56-133		%REC	1	10/22/2013 12:59:00 AM
Surr: Dibromofluoromethane	93.3	0	60-132		%REC	1	10/22/2013 12:59:00 AM
Surr: Toluene-d8	95.5	0	69-125		%REC	1	10/22/2013 12:59:00 AM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.122	0.005	0.0107		mg/Kg-dry	1	10/16/2013 2:13:13 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1221	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1232	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1242	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1248	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1254	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1260	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1262	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Aroclor 1268	U	10.9	22		µg/Kg-dry	1	10/17/2013 12:42:00 PM
Surr: TCX	80.9	0	13-145		%REC	1	10/17/2013 12:42:00 PM
Surr: DCB	90.7	0	12-144		%REC	1	10/17/2013 12:42:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
4,4´-DDE	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
4,4´-DDT	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Aldrin	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
alpha-BHC	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
beta-BHC	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Chlordane	U	10.9	22		µg/Kg-dry	1	10/17/2013 9:20:00 PM
DBCP	U	1.09	2.7	N	µg/Kg-dry	1	10/17/2013 9:20:00 PM
delta-BHC	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Dieldrin	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Endosulfan I	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Endosulfan II	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Endosulfan sulfate	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Endrin	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Endrin aldehyde	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Endrin ketone	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
gamma-BHC	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Heptachlor	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Hexachlorobenzene	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Hexachlorocyclopentadiene	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Methoxychlor	U	1.09	2.7		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Toxaphene	U	13.6	27		µg/Kg-dry	1	10/17/2013 9:20:00 PM
Surr: DCB	70.2	0	16-148		%REC	1	10/17/2013 9:20:00 PM
Surr: TCX	54.1	0	19-145		%REC	1	10/17/2013 9:20:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	10.3	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	17600	1.07	4.27		mg/Kg-dry	10	10/15/2013 12:51:44 PM
Antimony	U	0.21	0.534		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Arsenic	4.55	0.21	0.534		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Barium	37.7	0.21	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Beryllium	U	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Cadmium	U	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Calcium	1510	0.21	0.534		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Chromium	12.6	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Cobalt	U	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Copper	15.0	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Iron	24200	2.14	4.27		mg/Kg-dry	10	10/15/2013 12:51:44 PM
Lead	47.3	0.21	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Magnesium	2210	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Manganese	156	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Nickel	13.0	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Potassium	1390	0.21	0.534		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Selenium	U	0.21	0.534		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Silver	U	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Sodium	76.5	0.21	0.534		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Thallium	0.359	0.32	0.534	J	mg/Kg-dry	1	10/15/2013 11:49:27 AM
Vanadium	20.6	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM
Zinc	60.4	0.11	0.427		mg/Kg-dry	1	10/15/2013 11:49:27 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
1,2-Dichlorobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
1,3-Dichlorobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
1,4-Dichlorobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,3,4,6-Tetrachlorophenol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,4,5-Trichlorophenol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,4,6-Trichlorophenol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,4-Dichlorophenol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,4-Dimethylphenol	560	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,4-Dinitrophenol	U	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,4-Dinitrotoluene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2,6-Dinitrotoluene	U	269	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2-Chloronaphthalene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2-Chlorophenol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2-Methylnaphthalene	180	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
2-Methylphenol	450	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
2-Nitroaniline	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
2-Nitrophenol	U	269	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
3,3'-Dichlorobenzidine	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
3+4-Methylphenol	1200	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
3-Nitroaniline	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
4,6-Dinitro-2-methylphenol	U	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
4-Bromophenyl phenyl ether	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
4-Chloro-3-methylphenol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
4-Chloroaniline	250	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
4-Chlorophenyl phenyl ether	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
4-Nitroaniline	U	134	1300	C	µg/Kg-dry	1	10/18/2013 11:46:00 PM
4-Nitrophenol	U	269	2700	C	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Acenaphthene	430	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Acenaphthylene	290	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Acetophenone	210	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Aniline	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Anthracene	970	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Azobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzaldehyde	U	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzidine	U	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzo(a)anthracene	6700	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzo(a)pyrene	4600	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzo(b)fluoranthene	9100	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzo(g,h,i)perylene	5200	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzo(k)fluoranthene	5800	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzoic acid	3700	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Benzyl alcohol	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Biphenyl	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Bis(2-chloroethoxy)methane	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Bis(2-chloroethyl)ether	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Bis(2-chloroisopropyl)ether	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Bis(2-ethylhexyl)phthalate	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Butyl benzyl phthalate	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Caprolactam	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Carbazole	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Chrysene	8600	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Dibenzo(a,h)anthracene	1700	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Dibenzofuran	530	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Diethyl phthalate	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Dimethyl phthalate	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Di-n-butyl phthalate	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Di-n-octyl phthalate	U	134	1300	C	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Fluoranthene	21000	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Fluorene	730	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Hexachlorobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Hexachlorobutadiene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Hexachlorocyclopentadiene	U	269	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Hexachloroethane	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Indeno(1,2,3-c,d)pyrene	5900	134	1300	C	µg/Kg-dry	1	10/18/2013 11:46:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (0-2')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:40:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-15B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	610	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Naphthalene	730	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Nitrobenzene	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
N-Nitrosodimethylamine	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
N-Nitrosodi-n-propylamine	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
N-Nitrosodiphenylamine	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Parathion	U	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Pentachlorophenol	U	269	2700		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Phenanthrene	10000	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Phenol	830	134	1300	J	µg/Kg-dry	1	10/18/2013 11:46:00 PM
Pyrene	10000	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Pyridine	U	134	1300		µg/Kg-dry	1	10/18/2013 11:46:00 PM
Surr: 2,4,6-Tribromophenol	35.3	0	10-137		%REC	1	10/18/2013 11:46:00 PM
Surr: 2-Fluorobiphenyl	67.1	0	22-146		%REC	1	10/18/2013 11:46:00 PM
Surr: 2-Fluorophenol	40.0	0	10-125		%REC	1	10/18/2013 11:46:00 PM
Surr: 4-Terphenyl-d14	72.7	0	14-149		%REC	1	10/18/2013 11:46:00 PM
Surr: Nitrobenzene-d5	44.4	0	14-148		%REC	1	10/18/2013 11:46:00 PM
Surr: Phenol-d6	2.83	0	10-126	S	%REC	1	10/18/2013 11:46:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1,1-Trichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1,2,2-Tetrachloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1,2-Trichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1-Dichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1-Dichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,1-Dichloropropene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2,3-Trichlorobenzene	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2,3-Trichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2,4,5-Tetramethylbenzene	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2,4-Trichlorobenzene	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2,4-Trimethylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2-Dibromo-3-chloropropane	U	2.11	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2-Dibromoethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2-Dichlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2-Dichloroethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,2-Dichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,3,5-Trimethylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,3-Dichlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,3-dichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,4-Dichlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
1,4-Dioxane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
2,2-Dichloropropane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
2-Butanone	U	5.28	11		µg/Kg-dry	1	10/22/2013 4:44:00 AM
2-Chloroethyl vinyl ether	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 4:44:00 AM
2-Chlorotoluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
2-Hexanone	U	5.28	11		µg/Kg-dry	1	10/22/2013 4:44:00 AM
2-Propanol	U	2.11	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
4-Chlorotoluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
4-Isopropyltoluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
4-Methyl-2-pentanone	U	5.28	11		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Acetone	U	5.28	11		µg/Kg-dry	1	10/22/2013 4:44:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Bromobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Bromochloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Bromodichloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Bromoform	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Bromomethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Carbon disulfide	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Carbon tetrachloride	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Chlorobenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Chlorodifluoromethane	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Chloroethane	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Chloroform	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Chloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
cis-1,2-Dichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
cis-1,3-Dichloropropene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Dibromochloromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Dibromomethane	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Dichlorodifluoromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Diisopropyl ether	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Ethanol	U	13.2	26	CN	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Ethylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Freon-114	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Hexachlorobutadiene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Isopropylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
m,p-Xylene	U	2.11	11		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Methyl Acetate	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Methyl tert-butyl ether	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Methylene chloride	2.5	1.06	5.3	JBC	µg/Kg-dry	1	10/22/2013 4:44:00 AM
Naphthalene	U	1.06	5.3	C	µg/Kg-dry	1	10/22/2013 4:44:00 AM
n-Butylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
n-Propylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
o-Xylene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
p-Diethylbenzene	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 4:44:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Ethyltoluene	U	1.06	5.3	N	µg/Kg-dry	1	10/22/2013 4:44:00 AM
sec-Butylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Styrene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
t-Butyl alcohol	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
tert-Butylbenzene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Tetrachloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Toluene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
trans-1,2-Dichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
trans-1,3-Dichloropropene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Trichloroethene	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Trichlorofluoromethane	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Vinyl acetate	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Vinyl chloride	U	1.06	5.3		µg/Kg-dry	1	10/22/2013 4:44:00 AM
Surr: 4-Bromofluorobenzene	131	0	56-133		%REC	1	10/22/2013 4:44:00 AM
Surr: Dibromofluoromethane	95.8	0	60-132		%REC	1	10/22/2013 4:44:00 AM
Surr: Toluene-d8	97.9	0	69-125		%REC	1	10/22/2013 4:44:00 AM

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Qualifiers:

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.00462	0.005	0.00924	J	mg/Kg-dry	1	10/16/2013 2:15:22 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1221	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1232	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1242	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1248	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1254	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1260	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1262	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Aroclor 1268	U	10.4	21		µg/Kg-dry	1	10/17/2013 1:07:00 PM
Surr: TCX	93.8	0	13-145		%REC	1	10/17/2013 1:07:00 PM
Surr: DCB	102	0	12-144		%REC	1	10/17/2013 1:07:00 PM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
4,4´-DDE	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
4,4´-DDT	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Aldrin	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
alpha-BHC	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
beta-BHC	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Chlordane	U	10.4	21		µg/Kg-dry	1	10/17/2013 9:35:00 PM
DBCP	U	1.04	2.6	N	µg/Kg-dry	1	10/17/2013 9:35:00 PM
delta-BHC	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Dieldrin	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Endosulfan I	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Endosulfan II	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Endosulfan sulfate	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Endrin	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Endrin aldehyde	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Endrin ketone	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
gamma-BHC	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Heptachlor	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM

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American Analytical Laboratories, LLC.

Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor epoxide	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Hexachlorobenzene	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Hexachlorocyclopentadiene	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Methoxychlor	U	1.04	2.6		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Toxaphene	U	13	26		µg/Kg-dry	1	10/17/2013 9:35:00 PM
Surr: DCB	78.5	0	16-148		%REC	1	10/17/2013 9:35:00 PM
Surr: TCX	70.6	0	19-145		%REC	1	10/17/2013 9:35:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	6.67	0	0	N	wt%	1	10/17/2013
TARGET ANALYTE LIST METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	5810	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Antimony	U	0.21	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Arsenic	1.66	0.21	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Barium	41.8	0.21	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Beryllium	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Cadmium	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Calcium	1670	0.21	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Chromium	19.0	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Cobalt	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Copper	26.9	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Iron	15100	2.13	4.25		mg/Kg-dry	10	10/17/2013 12:38:51 PM
Lead	7.15	0.21	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Magnesium	2260	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Manganese	267	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Nickel	24.8	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Potassium	1630	0.21	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Selenium	U	0.21	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Silver	U	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Sodium	155	0.21	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Thallium	0.873	0.32	0.531		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Vanadium	22.4	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM
Zinc	28.1	0.11	0.425		mg/Kg-dry	1	10/15/2013 11:51:29 AM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
1,2,4-Trichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
1,2-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
1,3-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
1,4-Dichlorobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,3,4,6-Tetrachlorophenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,4,5-Trichlorophenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,4,6-Trichlorophenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,4-Dichlorophenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,4-Dimethylphenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,4-Dinitrophenol	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,4-Dinitrotoluene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2,6-Dinitrotoluene	U	52.2	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2-Chloronaphthalene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2-Chlorophenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2-Methylnaphthalene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2-Methylphenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
2-Nitrophenol	U	52.2	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
3,3´-Dichlorobenzidine	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
3+4-Methylphenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
3-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4,6-Dinitro-2-methylphenol	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4-Bromophenyl phenyl ether	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4-Chloro-3-methylphenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4-Chloroaniline	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4-Chlorophenyl phenyl ether	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4-Nitroaniline	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
4-Nitrophenol	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Acenaphthene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Acenaphthylene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Acetophenone	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Aniline	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Anthracene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Atrazine	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Azobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzaldehyde	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzidine	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzo(a)anthracene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzo(a)pyrene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzo(b)fluoranthene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzo(g,h,i)perylene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzo(k)fluoranthene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzoic acid	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Benzyl alcohol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Biphenyl	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Bis(2-chloroethoxy)methane	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Bis(2-chloroethyl)ether	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Bis(2-chloroisopropyl)ether	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Bis(2-ethylhexyl)phthalate	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Butyl benzyl phthalate	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Caprolactam	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Carbazole	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Chrysene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Dibenzo(a,h)anthracene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Dibenzofuran	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Diethyl phthalate	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Dimethyl phthalate	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Di-n-butyl phthalate	U	26.1	260	C	µg/Kg-dry	1	10/18/2013 6:40:00 PM
Di-n-octyl phthalate	U	26.1	260	C	µg/Kg-dry	1	10/18/2013 6:40:00 PM
Fluoranthene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Fluorene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Hexachlorobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Hexachlorobutadiene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Hexachlorocyclopentadiene	U	52.2	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Hexachloroethane	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Indeno(1,2,3-c,d)pyrene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM

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Date: *25-Oct-13*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	SB-7 (13-15')
Lab Order:	1310114	**Collection Date:**	10/11/2013 1:55:00 PM
Project:	882 Fulton Ave., Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1310114-16B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Isophorone	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Naphthalene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Nitrobenzene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
N-Nitrosodimethylamine	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
N-Nitrosodi-n-propylamine	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
N-Nitrosodiphenylamine	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Parathion	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Pentachlorophenol	U	52.2	520		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Phenanthrene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Phenol	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Pyrene	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Pyridine	U	26.1	260		µg/Kg-dry	1	10/18/2013 6:40:00 PM
Surr: 2,4,6-Tribromophenol	36.8	0	10-137		%REC	1	10/18/2013 6:40:00 PM
Surr: 2-Fluorobiphenyl	49.9	0	22-146		%REC	1	10/18/2013 6:40:00 PM
Surr: 2-Fluorophenol	47.1	0	10-125		%REC	1	10/18/2013 6:40:00 PM
Surr: 4-Terphenyl-d14	64.3	0	14-149		%REC	1	10/18/2013 6:40:00 PM
Surr: Nitrobenzene-d5	52.8	0	14-148		%REC	1	10/18/2013 6:40:00 PM
Surr: Phenol-d6	34.7	0	10-126		%REC	1	10/18/2013 6:40:00 PM

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Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
E	Value above quantitation range	H	Holding time was exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

February 04, 2014

Eric Weinstock
CA Rich Consultants Inc.
17 Dupont Street
Plainview, NY 11803
TEL: (516) 576-8844
FAX (516) 576-0093

RE: Orange/ 882 Fulton, Brooklyn, NY Order No.: 1401098

Dear Eric Weinstock:

American Analytical Laboratories, LLC. received 2 sample(s) on 1/24/2014 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.

American Analytical Laboratories, LLC.
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Farmingdale, New York 11735
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Workorder Sample Summary

WO#: **1401098**

04-Feb-14

CLIENT: CA Rich Consultants Inc.
Project: Orange/ 882 Fulton, Brooklyn, NY

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1401098-001A	MW-1 (2-4')		1/20/2014 10:50:00 AM	1/24/2014 10:00:00 AM	Soil
1401098-001B	MW-1 (2-4')		1/20/2014 10:50:00 AM	1/24/2014 10:00:00 AM	Soil
1401098-002A	MW-1 (4-6')		1/20/2014 11:10:00 AM	1/24/2014 10:00:00 AM	Soil
1401098-002B	MW-1 (4-6')		1/20/2014 11:10:00 AM	1/24/2014 10:00:00 AM	Soil

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Case Narrative

WO#: **1401098**
Date: **2/4/2014**

CLIENT: CA Rich Consultants Inc.
Project: Orange/ 882 Fulton, Brooklyn, NY

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Soil sample results analyzed for Volatile Organics via preparation method SW846 Method 5035A via the Low Level procedures potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method.
Volatile LCS are analyzed with preservatives - HCL/NaHSO4/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Pesticide analysis by Method 8081B (if applicable to this work order) is analyzed on two distinct columns. Once a target compound is qualitatively confirmed by detection on both columns and quantitation is determined to be >40% between the two columns, AAL's policy is to report the lower of the values as suggested by SW846 Method 8000C in cases where no interference exists. If in the professional judgment of the laboratory, the higher value must be utilized this is explained in the lab report.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram .Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, SM 4500-SO3 B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTMC1152, Water Soluble Chloride by ASTMC1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid

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Case Narrative

WO#: **1401098**

Date: **2/4/2014**

CLIENT: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1,1-Trichloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1,2,2-Tetrachloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1,2-Trichloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1-Dichloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1-Dichloroethene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,1-Dichloropropene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2,3-Trichlorobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2,3-Trichloropropane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2,4,5-Tetramethylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2,4-Trichlorobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2,4-Trimethylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2-Dibromo-3-chloropropane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2-Dibromoethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2-Dichlorobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2-Dichloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,2-Dichloropropane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,3,5-Trimethylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,3-Dichlorobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,3-dichloropropane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,4-Dichlorobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
1,4-Dioxane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
2,2-Dichloropropane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
2-Butanone	U	5.85	12		µg/Kg-dry	1	1/28/2014 5:25:00 AM
2-Chloroethyl vinyl ether	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
2-Chlorotoluene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
2-Hexanone	U	5.85	12		µg/Kg-dry	1	1/28/2014 5:25:00 AM
2-Propanol	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
4-Chlorotoluene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
4-Isopropyltoluene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
4-Methyl-2-pentanone	U	5.85	12		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Acetone	5.3	1.46	12	BJ*	µg/Kg-dry	1	1/28/2014 5:25:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Benzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Bromobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Bromochloromethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Bromodichloromethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Bromoform	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Bromomethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Carbon disulfide	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Carbon tetrachloride	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Chlorobenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Chlorodifluoromethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Chloroethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Chloroform	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Chloromethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
cis-1,2-Dichloroethene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
cis-1,3-Dichloropropene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Cyclohexane	U	2.34	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Dibromochloromethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Dibromomethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Dichlorodifluoromethane	U	1.17	5.8	*	µg/Kg-dry	1	1/28/2014 5:25:00 AM
Diisopropyl ether	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Ethanol	U	11.7	23		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Ethylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Freon-114	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Hexachlorobutadiene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Isopropylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
m,p-Xylene	U	2.34	12		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Methyl Acetate	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Methyl tert-butyl ether	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Methylene chloride	6.1	1.17	5.8	B*	µg/Kg-dry	1	1/28/2014 5:25:00 AM
Naphthalene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
n-Butylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
n-Propylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
o-Xylene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
p-Diethylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
p-Ethyltoluene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
sec-Butylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Styrene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
t-Butyl alcohol	U	2.92	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
tert-Butylbenzene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Tetrachloroethene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Toluene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
trans-1,2-Dichloroethene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
trans-1,3-Dichloropropene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Trichloroethene	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Trichlorofluoromethane	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Vinyl acetate	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Vinyl chloride	U	1.17	5.8		µg/Kg-dry	1	1/28/2014 5:25:00 AM
Surr: 4-Bromofluorobenzene	99.1	0	56-133		%REC	1	1/28/2014 5:25:00 AM
Surr: Dibromofluoromethane	89.5	0	60-132		%REC	1	1/28/2014 5:25:00 AM
Surr: Toluene-d8	98.7	0	69-125		%REC	1	1/28/2014 5:25:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.125	0.008	0.0125		mg/Kg-dry	1	1/29/2014 3:52:41 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1221	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1232	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1242	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1248	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1254	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1260	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1262	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Aroclor 1268	U	11.2	22		µg/Kg-dry	1	2/1/2014 4:44:00 AM
Surr: DCB	38.1	0	12-144		%REC	1	2/1/2014 4:44:00 AM
Surr: TCX	46.4	0	13-145		%REC	1	2/1/2014 4:44:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
4,4´-DDE	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
4,4´-DDT	6.3	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Aldrin	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
alpha-BHC	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
beta-BHC	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Chlordane	U	11.2	22		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Chlorobenzilate	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
DBCP	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
delta-BHC	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Dieldrin	4.1	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Endosulfan I	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Endosulfan II	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Endosulfan sulfate	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Endrin	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Endrin aldehyde	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Endrin ketone	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
gamma-BHC	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Heptachlor epoxide	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Hexachlorobenzene	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Hexachlorocyclopentadiene	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Methoxychlor	U	1.12	2.8		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Toxaphene	U	14	28		µg/Kg-dry	1	2/1/2014 1:02:00 AM
Surr: DCB	46.1	0	16-148		%REC	1	2/1/2014 1:02:00 AM
Surr: TCX	42.7	0	19-145		%REC	1	2/1/2014 1:02:00 AM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	14	1	1.0		wt%	1	1/29/2014
TOTAL METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	4010	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Antimony	U	0.23	0.577		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Arsenic	2.60	0.23	0.577		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Barium	42.5	0.23	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Beryllium	U	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Cadmium	U	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Calcium	27300	2.31	5.77		mg/Kg-dry	10	1/28/2014 12:33:47 PM
Chromium	7.30	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Cobalt	3.83	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Copper	12.2	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Iron	3090	0.23	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Lead	42.8	0.23	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Magnesium	1710	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Manganese	144	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Nickel	13.2	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Potassium	1400	0.23	0.577		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Selenium	U	0.23	0.577		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Silver	U	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Sodium	161	0.23	0.577		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Thallium	U	0.35	0.577		mg/Kg-dry	1	1/28/2014 12:02:28 PM
Vanadium	11.2	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TOTAL METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	41.8	0.12	0.461		mg/Kg-dry	1	1/28/2014 12:02:28 PM
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **MH**
1,2,4-Trichlorobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
1,2-Dichlorobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
1,3-Dichlorobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
1,4-Dichlorobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,3,4,6-Tetrachlorophenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,4,5-Trichlorophenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,4,6-Trichlorophenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,4-Dichlorophenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,4-Dimethylphenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,4-Dinitrophenol	U	55.7	560	*	µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,4-Dinitrotoluene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2,6-Dinitrotoluene	U	55.7	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2-Chloronaphthalene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2-Chlorophenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2-Methylnaphthalene	140	27.9	280	J	µg/Kg-dry	1	2/3/2014 12:49:00 PM
2-Methylphenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2-Nitroaniline	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
2-Nitrophenol	U	55.7	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
3,3´-Dichlorobenzidine	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
3+4-Methylphenol	42	27.9	280	J	µg/Kg-dry	1	2/3/2014 12:49:00 PM
3-Nitroaniline	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
4,6-Dinitro-2-methylphenol	U	55.7	560	*	µg/Kg-dry	1	2/3/2014 12:49:00 PM
4-Bromophenyl phenyl ether	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
4-Chloro-3-methylphenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
4-Chloroaniline	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
4-Chlorophenyl phenyl ether	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
4-Nitroaniline	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
4-Nitrophenol	U	55.7	560		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Acenaphthene	330	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Acenaphthylene	690	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **MH**
Acetophenone	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Aniline	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Anthracene	1300	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Atrazine	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Azobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzaldehyde	U	55.7	560		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzidine	U	55.7	560	*	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzo(a)anthracene	3700	27.9	280	m	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzo(a)pyrene	2700	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzo(b)fluoranthene	2700	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzo(g,h,i)perylene	1900	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzo(k)fluoranthene	2400	27.9	280	m	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzoic acid	U	55.7	560	*	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Benzyl alcohol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Biphenyl	45	27.9	280	J	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Bis(2-chloroethoxy)methane	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Bis(2-chloroethyl)ether	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Bis(2-chloroisopropyl)ether	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Bis(2-ethylhexyl)phthalate	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Butyl benzyl phthalate	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Caprolactam	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Carbazole	490	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Chrysene	3600	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Dibenzo(a,h)anthracene	490	27.9	280	m	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Dibenzofuran	300	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Diethyl phthalate	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Dimethyl phthalate	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Di-n-butyl phthalate	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Di-n-octyl phthalate	U	55.7	560		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Fluoranthene	9100	279	2800		µg/Kg-dry	10	2/4/2014 9:44:00 AM
Fluorene	450	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Hexachlorobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Hexachlorobutadiene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (2-4')
Lab Order:	1401098	**Collection Date:**	1/20/2014 10:50:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **MH**
Hexachlorocyclopentadiene	U	55.7	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Hexachloroethane	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Indeno(1,2,3-c,d)pyrene	2200	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Isophorone	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Naphthalene	250	27.9	280	J	µg/Kg-dry	1	2/3/2014 12:49:00 PM
Nitrobenzene	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
N-Nitrosodimethylamine	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
N-Nitrosodi-n-propylamine	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
N-Nitrosodiphenylamine	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Parathion	U	55.7	560		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Pentachlorophenol	U	55.7	560		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Phenanthrene	5500	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Phenol	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Pyrene	6900	279	2800		µg/Kg-dry	10	2/4/2014 9:44:00 AM
Pyridine	U	27.9	280		µg/Kg-dry	1	2/3/2014 12:49:00 PM
Surr: 2,4,6-Tribromophenol	23.4	0	11-135		%REC	1	2/3/2014 12:49:00 PM
Surr: 2-Fluorobiphenyl	72.1	0	21-143		%REC	1	2/3/2014 12:49:00 PM
Surr: 2-Fluorophenol	71.3	0	14-122		%REC	1	2/3/2014 12:49:00 PM
Surr: 4-Terphenyl-d14	80.5	0	15-137		%REC	1	2/3/2014 12:49:00 PM
Surr: Nitrobenzene-d5	65.5	0	17-136		%REC	1	2/3/2014 12:49:00 PM
Surr: Phenol-d6	86.6	0	10-116		%REC	1	2/3/2014 12:49:00 PM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
1,1,1,2-Tetrachloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1,1-Trichloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1,2,2-Tetrachloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethan	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1,2-Trichloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1-Dichloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1-Dichloroethene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,1-Dichloropropene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2,3-Trichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2,3-Trichloropropane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2,4,5-Tetramethylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2,4-Trichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2,4-Trimethylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2-Dibromo-3-chloropropane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2-Dibromoethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2-Dichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2-Dichloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,2-Dichloropropane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,3,5-Trimethylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,3-Dichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,3-dichloropropane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,4-Dichlorobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
1,4-Dioxane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
2,2-Dichloropropane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
2-Butanone	U	5.58	11		µg/Kg-dry	1	1/28/2014 5:52:00 AM
2-Chloroethyl vinyl ether	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
2-Chlorotoluene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
2-Hexanone	U	5.58	11		µg/Kg-dry	1	1/28/2014 5:52:00 AM
2-Propanol	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
4-Chlorotoluene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
4-Isopropyltoluene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
4-Methyl-2-pentanone	U	5.58	11		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Acetone	3.2	1.4	11	BJ*	µg/Kg-dry	1	1/28/2014 5:52:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
Benzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Bromobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Bromochloromethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Bromodichloromethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Bromoform	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Bromomethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Carbon disulfide	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Carbon tetrachloride	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Chlorobenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Chlorodifluoromethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Chloroethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Chloroform	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Chloromethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
cis-1,2-Dichloroethene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
cis-1,3-Dichloropropene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Cyclohexane	U	2.23	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Dibromochloromethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Dibromomethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Dichlorodifluoromethane	U	1.12	5.6	*	µg/Kg-dry	1	1/28/2014 5:52:00 AM
Diisopropyl ether	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Ethanol	U	11.2	22		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Ethylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Freon-114	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Hexachlorobutadiene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Isopropylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
m,p-Xylene	U	2.23	11		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Methyl Acetate	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Methyl tert-butyl ether	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Methylene chloride	5.1	1.12	5.6	BJ*	µg/Kg-dry	1	1/28/2014 5:52:00 AM
Naphthalene	3.2	1.12	5.6	J	µg/Kg-dry	1	1/28/2014 5:52:00 AM
n-Butylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
n-Propylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
o-Xylene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**				Analyst: **LA**
p-Diethylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
p-Ethyltoluene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
sec-Butylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Styrene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
t-Butyl alcohol	U	2.79	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
tert-Butylbenzene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Tetrachloroethene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Toluene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
trans-1,2-Dichloroethene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
trans-1,3-Dichloropropene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Trichloroethene	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Trichlorofluoromethane	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Vinyl acetate	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Vinyl chloride	U	1.12	5.6		µg/Kg-dry	1	1/28/2014 5:52:00 AM
Surr: 4-Bromofluorobenzene	100	0	56-133		%REC	1	1/28/2014 5:52:00 AM
Surr: Dibromofluoromethane	92.2	0	60-132		%REC	1	1/28/2014 5:52:00 AM
Surr: Toluene-d8	98.3	0	69-125		%REC	1	1/28/2014 5:52:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.0484	0.009	0.0132		mg/Kg-dry	1	1/29/2014 3:54:50 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1221	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1232	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1242	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1248	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1254	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1260	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1262	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Aroclor 1268	U	10.7	21		µg/Kg-dry	1	2/1/2014 5:08:00 AM
Surr: DCB	14.5	0	12-144		%REC	1	2/1/2014 5:08:00 AM
Surr: TCX	27.3	0	13-145		%REC	1	2/1/2014 5:08:00 AM
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
4,4´-DDD	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
4,4´-DDE	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
4,4´-DDT	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Aldrin	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
alpha-BHC	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
beta-BHC	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Chlordane	U	10.7	21		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Chlorobenzilate	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
DBCP	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
delta-BHC	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Dieldrin	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Endosulfan I	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Endosulfan II	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Endosulfan sulfate	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Endrin	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Endrin aldehyde	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Endrin ketone	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
gamma-BHC	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PESTICIDES SW-846 METHOD 8081			**SW8081B**		**SW3546**		Analyst: **SB**
Heptachlor	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Heptachlor epoxide	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Hexachlorobenzene	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Hexachlorocyclopentadiene	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Methoxychlor	U	1.07	2.7		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Toxaphene	U	13.4	27		µg/Kg-dry	1	2/1/2014 1:17:00 AM
Surr: DCB	46.0	0	16-148		%REC	1	2/1/2014 1:17:00 AM
Surr: TCX	32.8	0	19-145		%REC	1	2/1/2014 1:17:00 AM
PERCENT MOISTURE			**D2216**				Analyst: **CF**
Percent Moisture	9.9	1	1.0		wt%	1	1/29/2014
TOTAL METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Aluminum	7210	0.54	2.18		mg/Kg-dry	5	1/28/2014 12:06:33 PM
Antimony	U	0.22	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Arsenic	2.92	0.22	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Barium	29.9	0.22	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Beryllium	U	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Cadmium	U	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Calcium	803	0.22	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Chromium	15.9	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Cobalt	U	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Copper	13.4	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Iron	9260	1.09	2.18		mg/Kg-dry	5	1/28/2014 12:06:33 PM
Lead	18.9	0.22	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Magnesium	2050	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Manganese	236	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Nickel	14.4	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Potassium	1180	0.22	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Selenium	U	0.22	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Silver	U	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Sodium	50.0	0.22	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Thallium	U	0.33	0.544		mg/Kg-dry	1	1/28/2014 12:04:30 PM
Vanadium	18.7	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TOTAL METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Zinc	34.1	0.11	0.435		mg/Kg-dry	1	1/28/2014 12:04:30 PM
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **MH**
1,2,4-Trichlorobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
1,2-Dichlorobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
1,3-Dichlorobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
1,4-Dichlorobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,3,4,6-Tetrachlorophenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,4,5-Trichlorophenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,4,6-Trichlorophenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,4-Dichlorophenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,4-Dimethylphenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,4-Dinitrophenol	U	54.7	550	*	µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,4-Dinitrotoluene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2,6-Dinitrotoluene	U	54.7	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2-Chloronaphthalene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2-Chlorophenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2-Methylnaphthalene	430	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2-Methylphenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2-Nitroaniline	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
2-Nitrophenol	U	54.7	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
3,3´-Dichlorobenzidine	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
3+4-Methylphenol	36	27.4	270	J	µg/Kg-dry	1	2/3/2014 1:12:00 PM
3-Nitroaniline	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
4,6-Dinitro-2-methylphenol	U	54.7	550	*	µg/Kg-dry	1	2/3/2014 1:12:00 PM
4-Bromophenyl phenyl ether	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
4-Chloro-3-methylphenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
4-Chloroaniline	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
4-Chlorophenyl phenyl ether	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
4-Nitroaniline	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
4-Nitrophenol	U	54.7	550		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Acenaphthene	1600	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Acenaphthylene	140	27.4	270	J	µg/Kg-dry	1	2/3/2014 1:12:00 PM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **MH**
Acetophenone	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Aniline	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Anthracene	2700	27.4	270	m	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Atrazine	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Azobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzaldehyde	U	54.7	550		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzidine	U	54.7	550	*	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzo(a)anthracene	5000	27.4	270	m	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzo(a)pyrene	3900	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzo(b)fluoranthene	3600	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzo(g,h,i)perylene	2200	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzo(k)fluoranthene	2800	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzoic acid	U	54.7	550	*	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Benzyl alcohol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Biphenyl	110	27.4	270	J	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Bis(2-chloroethoxy)methane	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Bis(2-chloroethyl)ether	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Bis(2-chloroisopropyl)ether	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Bis(2-ethylhexyl)phthalate	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Butyl benzyl phthalate	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Caprolactam	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Carbazole	1400	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Chrysene	4800	27.4	270	m	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Dibenzo(a,h)anthracene	550	27.4	270	m	µg/Kg-dry	1	2/3/2014 1:12:00 PM
Dibenzofuran	1200	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Diethyl phthalate	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Dimethyl phthalate	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Di-n-butyl phthalate	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Di-n-octyl phthalate	U	54.7	550		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Fluoranthene	14000	274	2700		µg/Kg-dry	10	2/4/2014 10:07:00 AM
Fluorene	1200	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Hexachlorobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Hexachlorobutadiene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM

American Analytical Laboratories, LLC.

Date: *04-Feb-14*

ELAP ID : 11418

CLIENT:	CA Rich Consultants Inc.	**Client Sample ID:**	MW-1 (4-6')
Lab Order:	1401098	**Collection Date:**	1/20/2014 11:10:00 AM
Project:	Orange/ 882 Fulton, Brooklyn, NY	**Matrix:**	SOIL
Lab ID:	1401098-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **MH**
Hexachlorocyclopentadiene	U	54.7	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Hexachloroethane	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Indeno(1,2,3-c,d)pyrene	2600	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Isophorone	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Naphthalene	650	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Nitrobenzene	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
N-Nitrosodimethylamine	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
N-Nitrosodi-n-propylamine	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
N-Nitrosodiphenylamine	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Parathion	U	54.7	550		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Pentachlorophenol	U	54.7	550		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Phenanthrene	15000	274	2700		µg/Kg-dry	10	2/4/2014 10:07:00 AM
Phenol	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Pyrene	11000	274	2700		µg/Kg-dry	10	2/4/2014 10:07:00 AM
Pyridine	U	27.4	270		µg/Kg-dry	1	2/3/2014 1:12:00 PM
Surr: 2,4,6-Tribromophenol	90.0	0	11-135		%REC	1	2/3/2014 1:12:00 PM
Surr: 2-Fluorobiphenyl	71.8	0	21-143		%REC	1	2/3/2014 1:12:00 PM
Surr: 2-Fluorophenol	86.3	0	14-122		%REC	1	2/3/2014 1:12:00 PM
Surr: 4-Terphenyl-d14	77.1	0	15-137		%REC	1	2/3/2014 1:12:00 PM
Surr: Nitrobenzene-d5	74.1	0	17-136		%REC	1	2/3/2014 1:12:00 PM
Surr: Phenol-d6	90.3	0	10-116		%REC	1	2/3/2014 1:12:00 PM

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8081_S**

Sample ID	**MB-202**	SampType:	**MBLK**	TestCode:	**8081_S**	Units:	**µg/Kg**	Prep Date:	**1/30/2014**	RunNo:	**305**
Client ID:	**PBS**	Batch ID:	**202**	TestNo:	**SW8081B**	**SW3546**		Analysis Date:	**2/1/2014**	SeqNo:	**5717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	U	2.5									
4,4´-DDE	U	2.5									
4,4´-DDT	U	2.5									
Aldrin	U	2.5									
alpha-BHC	U	2.5									
beta-BHC	U	2.5									
Chlordane	U	20									
Chlorobenzilate	U	2.5									
DBCP	U	2.5									
delta-BHC	U	2.5									
Dieldrin	U	2.5									
Endosulfan I	U	2.5									
Endosulfan II	U	2.5									
Endosulfan sulfate	U	2.5									
Endrin	U	2.5									
Endrin aldehyde	U	2.5									
Endrin ketone	U	2.5									
gamma-BHC	U	2.5									
Heptachlor	U	2.5									
Heptachlor epoxide	U	2.5									
Hexachlorobenzene	U	2.5									
Hexachlorocyclopentadiene	U	2.5									
Methoxychlor	U	2.5									
Toxaphene	U	25									
Surr: DCB	18		24.81		72.0	16	148				
Surr: TCX	15		24.81		62.3	19	145				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

American Analytical Laboratories, LLC.
56 Toledo Street
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TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8081_S**

Sample ID	**MB-202**	SampType:	**MBLK**	TestCode:	**8081_S**	Units:	**µg/Kg**	Prep Date:	**1/30/2014**	RunNo:	**305**
Client ID:	**PBS**	Batch ID:	**202**	TestNo:	**SW8081B**	**SW3546**		Analysis Date:	**2/1/2014**	SeqNo:	**5717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	**LCS-202**	SampType:	**LCS**	TestCode:	**8081_S**	Units:	**µg/Kg**	Prep Date:	**1/30/2014**	RunNo:	**305**
Client ID:	**LCSS**	Batch ID:	**202**	TestNo:	**SW8081B**	**SW3546**		Analysis Date:	**2/1/2014**	SeqNo:	**5718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	3.4	2.4	9.671	0	35.6	23	144				
4,4´-DDE	5.0	2.4	9.671	0	51.9	27	146				
4,4´-DDT	6.2	2.4	9.671	0	64.5	24	148				
Aldrin	6.1	2.4	9.671	0	63.6	28	144				
alpha-BHC	6.0	2.4	9.671	0	61.9	28	142				
beta-BHC	8.4	2.4	9.671	0	86.7	27	147				
delta-BHC	6.2	2.4	9.671	0	63.9	20	138				
Dieldrin	5.5	2.4	9.671	0	57.3	30	141				
Endosulfan I	5.4	2.4	9.671	0	56.2	23	137				
Endosulfan II	5.1	2.4	9.671	0	52.4	20	139				
Endosulfan sulfate	7.2	2.4	9.671	0	74.4	27	146				
Endrin	5.8	2.4	9.671	0	59.5	24	148				
Endrin aldehyde	5.8	2.4	9.671	0	59.6	24	147				
Endrin ketone	4.8	2.4	9.671	0	50.1	21	145				
gamma-BHC	5.3	2.4	9.671	0	55.0	21	149				
Heptachlor	6.4	2.4	9.671	0	65.8	20	149				
Heptachlor epoxide	7.5	2.4	9.671	0	77.4	21	149				
Methoxychlor	6.4	2.4	9.671	0	66.3	29	147				
Surr: DCB	11		24.18		45.4	16	148				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8081_S**

Sample ID	**LCS-202**	SampType:	**LCS**	TestCode:	**8081_S**	Units:	**µg/Kg**		Prep Date:	**1/30/2014**		RunNo:	**305**		
Client ID:	**LCSS**	Batch ID:	**202**	TestNo:	**SW8081B**	**SW3546**			Analysis Date:	**2/1/2014**		SeqNo:	**5718**		
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Surr: TCX			9.6		24.18			39.7	19	145					

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8082_S**

Sample ID **MB-201** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **1/30/2014** RunNo: **304**

Client ID: **PBS** Batch ID: **201** TestNo: **SW8082A** **SW3546** Analysis Date: **2/1/2014** SeqNo: **5703**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	U	19									
Aroclor 1221	U	19									
Aroclor 1232	U	19									
Aroclor 1242	U	19									
Aroclor 1248	U	19									
Aroclor 1254	U	19									
Aroclor 1260	U	19									
Aroclor 1262	U	19									
Aroclor 1268	U	19									
Surr: DCB	16		24.18		65.3	12	144				
Surr: TCX	16		24.18		68.1	13	145				

Sample ID **LCS-201** SampType: **LCS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **1/30/2014** RunNo: **304**

Client ID: **LCSS** Batch ID: **201** TestNo: **SW8082A** **SW3546** Analysis Date: **2/1/2014** SeqNo: **5704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1248	170	20	248.8	0	70.0	35	135				
Surr: DCB	17		24.88		67.2	12	144				
Surr: TCX	17		24.88		69.9	13	145				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8260_S**

Sample ID **LCS-162** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **1/27/2014** RunNo: **313**

Client ID: **LCSS** Batch ID: **162a** TestNo: **SW8260C** Analysis Date: **1/28/2014** SeqNo: **5818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	37	5.0	50.00	0	73.8	40	125				
1,1,2,2-Tetrachloroethane	33	5.0	50.00	0	66.2	35	139				
1,1,2-Trichloroethane	38	5.0	50.00	0	76.6	40	124				
1,1-Dichloroethane	38	5.0	50.00	0	75.5	33	134				
1,1-Dichloroethene	41	5.0	50.00	0	81.9	30	141				
1,2-Dichlorobenzene	35	5.0	50.00	0	70.9	33	126				
1,2-Dichloroethane	35	5.0	50.00	0	69.0	36	131				
1,2-Dichloropropane	39	5.0	50.00	0	77.7	38	131				
1,3-Dichlorobenzene	35	5.0	50.00	0	70.9	31	130				
1,4-Dichlorobenzene	35	5.0	50.00	0	69.4	33	121				
2-Chloroethyl vinyl ether	37	5.0	50.00	0	73.7	36	138				
Benzene	38	5.0	50.00	0	76.0	36	126				
Bromodichloromethane	36	5.0	50.00	0	72.4	38	125				
Bromoform	38	5.0	50.00	0	75.6	36	131				
Bromomethane	39	5.0	50.00	0	77.7	23	135				
Carbon tetrachloride	38	5.0	50.00	0	75.9	37	130				
Chlorobenzene	37	5.0	50.00	0	74.7	41	123				
Chloroethane	50	5.0	50.00	0	99.7	20	128				
Chloroform	38	5.0	50.00	0	76.7	39	125				
Chloromethane	60	5.0	50.00	0	120	33	143				
cis-1,3-Dichloropropene	36	5.0	50.00	0	71.9	34	125				
Dibromochloromethane	39	5.0	50.00	0	78.6	36	125				
Ethylbenzene	38	5.0	50.00	0	75.9	42	124				
Methylene chloride	18	5.0	50.00	0	35.2	33	135				B*
Tetrachloroethene	30	5.0	50.00	0	60.4	30	121				
Toluene	38	5.0	50.00	0	76.7	43	121				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8260_S**

Sample ID **LCS-162** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **1/27/2014** RunNo: **313**

Client ID: **LCSS** Batch ID: **162a** TestNo: **SW8260C** Analysis Date: **1/28/2014** SeqNo: **5818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	39	5.0	50.00	0	77.8	32	124				
trans-1,3-Dichloropropene	37	5.0	50.00	0	75.0	33	120				
Trichloroethene	41	5.0	50.00	0	82.9	40	124				
Trichlorofluoromethane	55	5.0	50.00	0	109	35	140				
Vinyl chloride	62	5.0	50.00	0	124	40	146				
Surr: 4-Bromofluorobenzene	51		50.00		101	56	133				
Surr: Dibromofluoromethane	48		50.00		96.3	60	132				
Surr: Toluene-d8	50		50.00		100	69	125				

Sample ID **MB-162** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **1/27/2014** RunNo: **313**

Client ID: **PBS** Batch ID: **162a** TestNo: **SW8260C** Analysis Date: **1/28/2014** SeqNo: **5819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	5.0									
1,1,1-Trichloroethane	U	5.0									
1,1,2,2-Tetrachloroethane	U	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	5.0									
1,1,2-Trichloroethane	U	5.0									
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,1-Dichloropropene	U	5.0									
1,2,3-Trichlorobenzene	U	5.0									
1,2,3-Trichloropropane	U	5.0									
1,2,4,5-Tetramethylbenzene	U	5.0									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8260_S**

Sample ID **MB-162** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **1/27/2014** RunNo: **313**

Client ID: **PBS** Batch ID: **162a** TestNo: **SW8260C** Analysis Date: **1/28/2014** SeqNo: **5819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	U	5.0									
1,2,4-Trimethylbenzene	U	5.0									
1,2-Dibromo-3-chloropropane	U	5.0									
1,2-Dibromoethane	U	5.0									
1,2-Dichlorobenzene	U	5.0									
1,2-Dichloroethane	U	5.0									
1,2-Dichloropropane	U	5.0									
1,3,5-Trimethylbenzene	U	5.0									
1,3-Dichlorobenzene	U	5.0									
1,3-dichloropropane	U	5.0									
1,4-Dichlorobenzene	U	5.0									
1,4-Dioxane	U	5.0									
2,2-Dichloropropane	U	5.0									
2-Butanone	U	10									
2-Chloroethyl vinyl ether	U	5.0									
2-Chlorotoluene	U	5.0									
2-Hexanone	U	10									
2-Propanol	U	5.0									
4-Chlorotoluene	U	5.0									
4-Isopropyltoluene	U	5.0									
4-Methyl-2-pentanone	U	10									
Acetone	8.0	10									J*
Benzene	U	5.0									
Bromobenzene	U	5.0									
Bromochloromethane	U	5.0									
Bromodichloromethane	U	5.0									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8260_S**

Sample ID **MB-162** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **1/27/2014** RunNo: **313**

Client ID: **PBS** Batch ID: **162a** TestNo: **SW8260C** Analysis Date: **1/28/2014** SeqNo: **5819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	U	5.0									
Bromomethane	U	5.0									
Carbon disulfide	U	5.0									
Carbon tetrachloride	U	5.0									
Chlorobenzene	U	5.0									
Chlorodifluoromethane	U	5.0									
Chloroethane	U	5.0									
Chloroform	U	5.0									
Chloromethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
cis-1,3-Dichloropropene	U	5.0									
Cyclohexane	U	5.0									
Dibromochloromethane	U	5.0									
Dibromomethane	U	5.0									
Dichlorodifluoromethane	U	5.0									*
Diisopropyl ether	U	5.0									
Ethanol	U	20									
Ethylbenzene	U	5.0									
Freon-114	U	5.0									
Hexachlorobutadiene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl Acetate	U	5.0									
Methyl tert-butyl ether	U	5.0									
Methylene chloride	4.1	5.0									J*
Naphthalene	U	5.0									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8260_S**

Sample ID **MB-162** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **1/27/2014** RunNo: **313**

Client ID: **PBS** Batch ID: **162a** TestNo: **SW8260C** Analysis Date: **1/28/2014** SeqNo: **5819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
p-Diethylbenzene	U	5.0									
p-Ethyltoluene	U	5.0									
sec-Butylbenzene	U	5.0									
Styrene	U	5.0									
t-Butyl alcohol	U	5.0									
tert-Butylbenzene	U	5.0									
Tetrachloroethene	U	5.0									
Toluene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
trans-1,3-Dichloropropene	U	5.0									
Trichloroethene	U	5.0									
Trichlorofluoromethane	U	5.0									
Vinyl acetate	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		101	56	133				
Surr: Dibromofluoromethane	48		50.00		96.0	60	132				
Surr: Toluene-d8	49		50.00		97.6	69	125				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID	**MB-207**	SampType:	**MBLK**	TestCode:	**8270_S**	Units:	**µg/Kg**	Prep Date:	**1/31/2014**	RunNo:	**315**
Client ID:	**PBS**	Batch ID:	**207**	TestNo:	**SW8270D**	**SW3546**		Analysis Date:	**2/3/2014**	SeqNo:	**5831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	U	240									
1,2-Dichlorobenzene	U	240									
1,3-Dichlorobenzene	U	240									
1,4-Dichlorobenzene	U	240									
2,3,4,6-Tetrachlorophenol	U	240									
2,4,5-Trichlorophenol	U	240									
2,4,6-Trichlorophenol	U	240									
2,4-Dichlorophenol	U	240									
2,4-Dimethylphenol	U	240									
2,4-Dinitrophenol	U	490									*
2,4-Dinitrotoluene	U	240									
2,6-Dinitrotoluene	U	240									
2-Chloronaphthalene	U	240									
2-Chlorophenol	U	240									
2-Methylnaphthalene	U	240									
2-Methylphenol	U	240									
2-Nitroaniline	U	240									
2-Nitrophenol	U	240									
3,3´-Dichlorobenzidine	U	240									
3+4-Methylphenol	U	240									
3-Nitroaniline	U	240									
4,6-Dinitro-2-methylphenol	U	490									*
4-Bromophenyl phenyl ether	U	240									
4-Chloro-3-methylphenol	U	240									
4-Chloroaniline	U	240									
4-Chlorophenyl phenyl ether	U	240									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **MB-207** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **315**

Client ID: **PBS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitroaniline	U	240									
4-Nitrophenol	U	490									
Acenaphthene	U	240									
Acenaphthylene	U	240									
Acetophenone	U	240									
Aniline	U	240									
Anthracene	U	240									
Atrazine	U	240									
Azobenzene	U	240									
Benzaldehyde	U	490									
Benzidine	U	490									*
Benzo(a)anthracene	U	240									
Benzo(a)pyrene	U	240									
Benzo(b)fluoranthene	U	240									
Benzo(g,h,i)perylene	U	240									
Benzo(k)fluoranthene	U	240									
Benzoic acid	U	490									*
Benzyl alcohol	U	240									
Biphenyl	U	240									
Bis(2-chloroethoxy)methane	U	240									
Bis(2-chloroethyl)ether	U	240									
Bis(2-chloroisopropyl)ether	U	240									
Bis(2-ethylhexyl)phthalate	U	240									
Butyl benzyl phthalate	U	240									
Caprolactam	U	240									
Carbazole	U	240									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **MB-207** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **315**

Client ID: **PBS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	U	240									
Dibenzo(a,h)anthracene	U	240									
Dibenzofuran	U	240									
Diethyl phthalate	U	240									
Dimethyl phthalate	U	240									
Di-n-butyl phthalate	U	240									
Di-n-octyl phthalate	U	490									
Fluoranthene	U	240									
Fluorene	U	240									
Hexachlorobenzene	U	240									
Hexachlorobutadiene	U	240									
Hexachlorocyclopentadiene	U	240									
Hexachloroethane	U	240									
Indeno(1,2,3-c,d)pyrene	U	240									
Isophorone	U	240									
Naphthalene	U	240									
Nitrobenzene	U	240									
N-Nitrosodimethylamine	U	240									
N-Nitrosodi-n-propylamine	U	240									
N-Nitrosodiphenylamine	U	240									
Parathion	U	490									
Pentachlorophenol	U	490									
Phenanthrene	U	240									
Phenol	U	240									
Pyrene	U	240									
Pyridine	U	240									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **MB-207** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **315**

Client ID: **PBS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1700		1946		87.0	11	135				
Surr: 2-Fluorobiphenyl	820		972.8		84.4	21	143				
Surr: 2-Fluorophenol	2000		1946		105	14	122				
Surr: 4-Terphenyl-d14	880		972.8		90.8	15	137				
Surr: Nitrobenzene-d5	860		972.8		88.2	17	136				
Surr: Phenol-d6	2100		1946		110	10	116				

Sample ID **LCS-207** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **315**

Client ID: **LCSS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	810	250	1987	0	40.9	30	125				
1,2-Dichlorobenzene	890	250	1987	0	44.6	24	122				
1,3-Dichlorobenzene	870	250	1987	0	43.9	25	125				
1,4-Dichlorobenzene	870	250	1987	0	44.0	23	121				
2,4,6-Trichlorophenol	820	250	1987	0	41.2	25	130				
2,4-Dichlorophenol	840	250	1987	0	42.1	31	125				
2,4-Dimethylphenol	210	250	1987	0	10.8	17	132				JS
2,4-Dinitrophenol	600	500	1987	0	30.1	1	116				*
2,4-Dinitrotoluene	840	250	1987	0	42.1	30	134				
2,6-Dinitrotoluene	780	250	1987	0	39.3	35	125				
2-Chloronaphthalene	850	250	1987	0	42.6	30	130				
2-Chlorophenol	900	250	1987	0	45.5	32	134				
2-Nitrophenol	850	250	1987	0	42.6	16	146				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **LCS-207** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **315**

Client ID: **LCSS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	780	500	1987	0	39.1	11	141				*
4-Bromophenyl phenyl ether	850	250	1987	0	42.6	35	135				
4-Chloro-3-methylphenol	900	250	1987	0	45.2	19	139				
4-Chlorophenyl phenyl ether	890	250	1987	0	44.8	30	128				
4-Nitrophenol	900	500	1987	0	45.5	17	140				
Acenaphthene	850	250	1987	0	42.6	25	137				
Acenaphthylene	840	250	1987	0	42.3	23	136				
Anthracene	850	250	1987	0	42.8	23	150				
Benzo(a)anthracene	870	250	1987	0	43.9	31	140				
Benzo(a)pyrene	830	250	1987	0	41.7	36	136				
Benzo(b)fluoranthene	890	250	1987	0	45.0	30	140				m
Benzo(g,h,i)perylene	860	250	1987	0	43.4	21	143				
Benzo(k)fluoranthene	810	250	1987	0	40.9	30	140				
Bis(2-chloroethoxy)methane	790	250	1987	0	39.6	18	110				
Bis(2-chloroethyl)ether	870	250	1987	0	43.9	30	131				
Bis(2-chloroisopropyl)ether	840	250	1987	0	42.2	34	124				
Bis(2-ethylhexyl)phthalate	810	250	1987	0	40.8	35	137				
Butyl benzyl phthalate	850	250	1987	0	42.6	34	140				
Chrysene	870	250	1987	0	44.0	31	133				
Dibenzo(a,h)anthracene	840	250	1987	0	42.5	24	145				
Diethyl phthalate	870	250	1987	0	43.9	35	130				
Dimethyl phthalate	850	250	1987	0	42.9	32	130				
Di-n-butyl phthalate	850	250	1987	0	43.0	35	131				
Di-n-octyl phthalate	820	500	1987	0	41.2	37	143				
Fluoranthene	920	250	1987	0	46.2	21	139				
Fluorene	890	250	1987	0	44.8	30	130				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **LCS-207** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **315**

Client ID: **LCSS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	890	250	1987	0	44.6	30	130				
Hexachlorobutadiene	880	250	1987	0	44.3	30	125				
Hexachlorocyclopentadiene	700	250	1987	0	35.3	12	126				
Hexachloroethane	950	250	1987	0	47.6	30	125				
Indeno(1,2,3-c,d)pyrene	880	250	1987	0	44.3	28	141				
Isophorone	830	250	1987	0	41.6	30	125				
Naphthalene	820	250	1987	0	41.5	27	131				
Nitrobenzene	820	250	1987	0	41.1	35	125				
N-Nitrosodimethylamine	760	250	1987	0	38.4	10	123				
N-Nitrosodi-n-propylamine	890	250	1987	0	44.6	39	125				
N-Nitrosodiphenylamine	390	250	1987	0	19.7	21	103				S
Pentachlorophenol	940	500	1987	0	47.5	10	132				
Phenanthrene	850	250	1987	0	42.9	35	130				
Phenol	870	250	1987	0	43.7	20	135				
Pyrene	860	250	1987	0	43.2	30	152				
Surr: 2,4,6-Tribromophenol	1700		1987		83.6	11	135				
Surr: 2-Fluorobiphenyl	830		993.5		83.2	21	143				
Surr: 2-Fluorophenol	1700		1987		85.5	14	122				
Surr: 4-Terphenyl-d14	840		993.5		84.7	15	137				
Surr: Nitrobenzene-d5	850		993.5		85.2	17	136				
Surr: Phenol-d6	1800		1987		89.8	10	116				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **MB-207** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **320**

Client ID: **PBS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	U	240									
1,2-Dichlorobenzene	U	240									
1,3-Dichlorobenzene	U	240									
1,4-Dichlorobenzene	U	240									
2,3,4,6-Tetrachlorophenol	U	240									
2,4,5-Trichlorophenol	U	240									
2,4,6-Trichlorophenol	U	240									
2,4-Dichlorophenol	U	240									
2,4-Dimethylphenol	U	240									
2,4-Dinitrophenol	U	490									*
2,4-Dinitrotoluene	U	240									
2,6-Dinitrotoluene	U	240									
2-Chloronaphthalene	U	240									
2-Chlorophenol	U	240									
2-Methylnaphthalene	U	240									
2-Methylphenol	U	240									
2-Nitroaniline	U	240									
2-Nitrophenol	U	240									
3,3´-Dichlorobenzidine	U	240									
3+4-Methylphenol	U	240									
3-Nitroaniline	U	240									
4,6-Dinitro-2-methylphenol	U	490									*
4-Bromophenyl phenyl ether	U	240									
4-Chloro-3-methylphenol	U	240									
4-Chloroaniline	U	240									
4-Chlorophenyl phenyl ether	U	240									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID	**MB-207**	SampType:	**MBLK**	TestCode:	**8270_S**	Units:	**µg/Kg**		Prep Date:	**1/31/2014**		RunNo:	**320**		
Client ID:	**PBS**	Batch ID:	**207**	TestNo:	**SW8270D**	**SW3546**			Analysis Date:	**2/3/2014**		SeqNo:	**5890**		
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
4-Nitroaniline			U	240											
4-Nitrophenol			U	490											
Acenaphthene			U	240											
Acenaphthylene			U	240											
Acetophenone			U	240											
Aniline			U	240											
Anthracene			U	240											
Atrazine			U	240											
Azobenzene			U	240											
Benzaldehyde			U	490											
Benzidine			U	490											*
Benzo(a)anthracene			U	240											
Benzo(a)pyrene			U	240											
Benzo(b)fluoranthene			U	240											
Benzo(g,h,i)perylene			U	240											
Benzo(k)fluoranthene			U	240											
Benzoic acid			U	490											*
Benzyl alcohol			U	240											
Biphenyl			U	240											
Bis(2-chloroethoxy)methane			U	240											
Bis(2-chloroethyl)ether			U	240											
Bis(2-chloroisopropyl)ether			U	240											
Bis(2-ethylhexyl)phthalate			U	240											
Butyl benzyl phthalate			U	240											
Caprolactam			U	240											
Carbazole			U	240											

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID	**MB-207**	SampType:	**MBLK**	TestCode:	**8270_S**	Units:	**µg/Kg**	Prep Date:	**1/31/2014**	RunNo:	**320**				
Client ID:	**PBS**	Batch ID:	**207**	TestNo:	**SW8270D**	**SW3546**		Analysis Date:	**2/3/2014**	SeqNo:	**5890**				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	U	240									
Dibenzo(a,h)anthracene	U	240									
Dibenzofuran	U	240									
Diethyl phthalate	U	240									
Dimethyl phthalate	U	240									
Di-n-butyl phthalate	U	240									
Di-n-octyl phthalate	U	490									
Fluoranthene	U	240									
Fluorene	U	240									
Hexachlorobenzene	U	240									
Hexachlorobutadiene	U	240									
Hexachlorocyclopentadiene	U	240									
Hexachloroethane	U	240									
Indeno(1,2,3-c,d)pyrene	U	240									
Isophorone	U	240									
Naphthalene	U	240									
Nitrobenzene	U	240									
N-Nitrosodimethylamine	U	240									
N-Nitrosodi-n-propylamine	U	240									
N-Nitrosodiphenylamine	U	240									
Parathion	U	490									
Pentachlorophenol	U	490									
Phenanthrene	U	240									
Phenol	U	240									
Pyrene	U	240									
Pyridine	U	240									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **MB-207** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **320**

Client ID: **PBS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1700		1946		87.0	11	135				
Surr: 2-Fluorobiphenyl	820		972.8		84.4	21	143				
Surr: 2-Fluorophenol	2000		1946		105	14	122				
Surr: 4-Terphenyl-d14	880		972.8		90.8	15	137				
Surr: Nitrobenzene-d5	860		972.8		88.2	17	136				
Surr: Phenol-d6	2100		1946		110	10	116				

Sample ID **LCS-207** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **320**

Client ID: **LCSS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	810	250	1987	0	40.9	30	125				
1,2-Dichlorobenzene	890	250	1987	0	44.6	24	122				
1,3-Dichlorobenzene	870	250	1987	0	43.9	25	125				
1,4-Dichlorobenzene	870	250	1987	0	44.0	23	121				
2,4,6-Trichlorophenol	820	250	1987	0	41.2	25	130				
2,4-Dichlorophenol	840	250	1987	0	42.1	31	125				
2,4-Dimethylphenol	210	250	1987	0	10.8	17	132				JS
2,4-Dinitrophenol	600	500	1987	0	30.1	1	116				*
2,4-Dinitrotoluene	840	250	1987	0	42.1	30	134				
2,6-Dinitrotoluene	780	250	1987	0	39.3	35	125				
2-Chloronaphthalene	850	250	1987	0	42.6	30	130				
2-Chlorophenol	900	250	1987	0	45.5	32	134				
2-Nitrophenol	850	250	1987	0	42.6	16	146				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **LCS-207** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **320**

Client ID: **LCSS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	780	500	1987	0	39.1	11	141				*
4-Bromophenyl phenyl ether	850	250	1987	0	42.6	35	135				
4-Chloro-3-methylphenol	900	250	1987	0	45.2	19	139				
4-Chlorophenyl phenyl ether	890	250	1987	0	44.8	30	128				
4-Nitrophenol	900	500	1987	0	45.5	17	140				
Acenaphthene	850	250	1987	0	42.6	25	137				
Acenaphthylene	840	250	1987	0	42.3	23	136				
Anthracene	850	250	1987	0	42.8	23	150				
Benzo(a)anthracene	870	250	1987	0	43.9	31	140				
Benzo(a)pyrene	830	250	1987	0	41.7	36	136				
Benzo(b)fluoranthene	890	250	1987	0	45.0	30	140				m
Benzo(g,h,i)perylene	860	250	1987	0	43.4	21	143				
Benzo(k)fluoranthene	810	250	1987	0	40.9	30	140				
Bis(2-chloroethoxy)methane	790	250	1987	0	39.6	18	110				
Bis(2-chloroethyl)ether	870	250	1987	0	43.9	30	131				
Bis(2-chloroisopropyl)ether	840	250	1987	0	42.2	34	124				
Bis(2-ethylhexyl)phthalate	810	250	1987	0	40.8	35	137				
Butyl benzyl phthalate	850	250	1987	0	42.6	34	140				
Chrysene	870	250	1987	0	44.0	31	133				
Dibenzo(a,h)anthracene	840	250	1987	0	42.5	24	145				
Diethyl phthalate	870	250	1987	0	43.9	35	130				
Dimethyl phthalate	850	250	1987	0	42.9	32	130				
Di-n-butyl phthalate	850	250	1987	0	43.0	35	131				
Di-n-octyl phthalate	820	500	1987	0	41.2	37	143				
Fluoranthene	920	250	1987	0	46.2	21	139				
Fluorene	890	250	1987	0	44.8	30	130				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **8270_S**

Sample ID **LCS-207** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **1/31/2014** RunNo: **320**

Client ID: **LCSS** Batch ID: **207** TestNo: **SW8270D** **SW3546** Analysis Date: **2/3/2014** SeqNo: **5891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	890	250	1987	0	44.6	30	130				
Hexachlorobutadiene	880	250	1987	0	44.3	30	125				
Hexachlorocyclopentadiene	700	250	1987	0	35.3	12	126				
Hexachloroethane	950	250	1987	0	47.6	30	125				
Indeno(1,2,3-c,d)pyrene	880	250	1987	0	44.3	28	141				
Isophorone	830	250	1987	0	41.6	30	125				
Naphthalene	820	250	1987	0	41.5	27	131				
Nitrobenzene	820	250	1987	0	41.1	35	125				
N-Nitrosodimethylamine	760	250	1987	0	38.4	10	123				
N-Nitrosodi-n-propylamine	890	250	1987	0	44.6	39	125				
N-Nitrosodiphenylamine	390	250	1987	0	19.7	21	103				S
Pentachlorophenol	940	500	1987	0	47.5	10	132				
Phenanthrene	850	250	1987	0	42.9	35	130				
Phenol	870	250	1987	0	43.7	20	135				
Pyrene	860	250	1987	0	43.2	30	152				
Surr: 2,4,6-Tribromophenol	1700		1987		83.6	11	135				
Surr: 2-Fluorobiphenyl	830		993.5		83.2	21	143				
Surr: 2-Fluorophenol	1700		1987		85.5	14	122				
Surr: 4-Terphenyl-d14	840		993.5		84.7	15	137				
Surr: Nitrobenzene-d5	850		993.5		85.2	17	136				
Surr: Phenol-d6	1800		1987		89.8	10	116				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **HG_S**

Sample ID **1401098-002BMS** SampType: **MS** TestCode: **HG_S** Units: **mg/Kg-dry** Prep Date: **1/29/2014** RunNo: **261**
Client ID: **MW-1 (4-6')** Batch ID: **190** TestNo: **SW7471B** **SW7471B** Analysis Date: **1/29/2014** SeqNo: **5080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.254	0.0133	0.2220	0.04836	92.5	80	120				

Sample ID **1401098-002BMSD** SampType: **MSD** TestCode: **HG_S** Units: **mg/Kg-dry** Prep Date: **1/29/2014** RunNo: **261**
Client ID: **MW-1 (4-6')** Batch ID: **190** TestNo: **SW7471B** **SW7471B** Analysis Date: **1/29/2014** SeqNo: **5081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.266	0.0133	0.2220	0.04836	98.0	80	120	0.2536	4.70	20	

Sample ID **MBS012914B** SampType: **MBLK** TestCode: **HG_S** Units: **mg/Kg** Prep Date: **1/29/2014** RunNo: **261**
Client ID: **PBS** Batch ID: **190** TestNo: **SW7471B** **SW7471B** Analysis Date: **1/29/2014** SeqNo: **5086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	U	0.0120									

Sample ID **LCSS012914B** SampType: **LCS** TestCode: **HG_S** Units: **mg/Kg** Prep Date: **1/29/2014** RunNo: **261**
Client ID: **LCSS** Batch ID: **190** TestNo: **SW7471B** **SW7471B** Analysis Date: **1/29/2014** SeqNo: **5087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.202	0.0120	0.2000	0	101	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **ICPSCAN_S**

Sample ID	**MBS012714A**	SampType:	**MBLK**	TestCode:	**ICPSCAN_S**	Units:	**mg/Kg**	Prep Date:	**1/27/2014**	RunNo:	**259**		
Client ID:	**PBS**	Batch ID:	**158**	TestNo:	**SW6010C**	**SW3050B**		Analysis Date:	**1/28/2014**	SeqNo:	**4755**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	U	0.400									
Antimony	U	0.500									
Arsenic	U	0.500									
Barium	U	0.400									
Beryllium	U	0.400									
Cadmium	U	0.400									
Calcium	U	0.500									
Chromium	U	0.400									
Cobalt	U	0.400									
Copper	U	0.400									
Iron	U	0.400									
Lead	U	0.400									
Magnesium	U	0.400									
Manganese	U	0.400									
Nickel	U	0.400									
Potassium	U	0.500									
Selenium	U	0.500									
Silver	U	0.400									
Sodium	U	0.500									
Thallium	U	0.500									
Vanadium	U	0.400									
Zinc	U	0.400									

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **ICPSCAN_S**

Sample ID **LCSS012714A** SampType: **LCS** TestCode: **ICPSCAN_S** Units: **mg/Kg** Prep Date: **1/27/2014** RunNo: **259**

Client ID: **LCSS** Batch ID: **158** TestNo: **SW6010C** **SW3050B** Analysis Date: **1/28/2014** SeqNo: **4756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	38.2	0.400	40.00	0	95.4	80	120				
Antimony	40.7	0.500	40.00	0	102	80	120				
Arsenic	40.5	0.500	40.00	0	101	80	120				
Barium	37.6	0.400	40.00	0	94.0	80	120				
Beryllium	35.9	0.400	40.00	0	89.6	80	120				
Cadmium	37.7	0.400	40.00	0	94.2	80	120				
Calcium	36.7	0.500	40.00	0	91.8	80	120				
Chromium	38.9	0.400	40.00	0	97.4	80	120				
Cobalt	40.5	0.400	40.00	0	101	80	120				
Copper	38.3	0.400	40.00	0	95.8	80	120				
Iron	37.1	0.400	40.00	0	92.8	80	120				
Lead	37.3	0.400	40.00	0	93.2	80	120				
Magnesium	36.2	0.400	40.00	0	90.6	80	120				
Manganese	36.4	0.400	40.00	0	91.0	80	120				
Nickel	36.4	0.400	40.00	0	90.9	80	120				
Potassium	377	0.500	400.0	0	94.3	80	120				
Selenium	38.0	0.500	40.00	0	95.1	80	120				
Silver	38.7	0.400	40.00	0	96.7	80	120				
Sodium	44.2	0.500	40.00	0	110	80	120				
Thallium	38.2	0.500	40.00	0	95.4	80	120				
Vanadium	37.1	0.400	40.00	0	92.7	80	120				
Zinc	37.6	0.400	40.00	0	94.0	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **ICPSCAN_S**

Sample ID **1401098-002BMS** SampType: **MS** TestCode: **ICPSCAN_S** Units: **mg/Kg-dry** Prep Date: **1/27/2014** RunNo: **259**

Client ID: **MW-1 (4-6')** Batch ID: **158a** TestNo: **SW6010C** Analysis Date: **1/28/2014** SeqNo: **4784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	19.6	0.548	21.94	0	89.6	75	125				
Arsenic	21.5	0.548	21.94	2.919	84.7	75	125				
Barium	44.7	0.439	21.94	29.91	67.2	75	125				S
Beryllium	15.0	0.439	21.94	0	68.2	75	125				S
Cadmium	17.4	0.439	21.94	0	79.4	75	125				
Calcium	779	0.548	21.94	802.7	-107	75	125				S
Chromium	32.9	0.439	21.94	15.88	77.4	75	125				
Cobalt	9.17	0.439	21.94	0	41.8	75	125				S
Copper	31.3	0.439	21.94	13.38	81.8	75	125				
Lead	33.7	0.439	21.94	18.95	67.0	75	125				S
Magnesium	1960	0.439	21.94	2049	-399	75	125				S
Manganese	240	0.439	21.94	236.2	16.3	75	125				S
Nickel	29.1	0.439	21.94	14.45	67.0	75	125				S
Potassium	1320	0.548	219.4	1184	62.8	75	125				S
Selenium	16.4	0.548	21.94	0	74.8	75	125				S
Silver	17.4	0.439	21.94	0	79.5	75	125				
Sodium	70.5	0.548	21.94	50.05	93.1	75	125				
Thallium	14.4	0.548	21.94	0	65.5	75	125				S
Vanadium	34.8	0.439	21.94	18.69	73.6	75	125				S
Zinc	50.0	0.439	21.94	34.14	72.4	75	125				S

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1401098**

04-Feb-14

Client: CA Rich Consultants Inc.

Project: Orange/ 882 Fulton, Brooklyn, NY

TestCode: **ICPSCAN_S**

Sample ID **1401098-002BMSD** SampType: **MSD** TestCode: **ICPSCAN_S** Units: **mg/Kg-dry** Prep Date: **1/27/2014** RunNo: **259**

Client ID: **MW-1 (4-6')** Batch ID: **158a** TestNo: **SW6010C** Analysis Date: **1/28/2014** SeqNo: **4785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	20.0	0.551	22.02	0	90.6	75	125	19.65	1.56	20	
Arsenic	21.8	0.551	22.02	2.919	85.9	75	125	21.49	1.60	20	
Barium	45.0	0.440	22.02	29.91	68.3	75	125	44.66	0.681	20	S
Beryllium	15.2	0.440	22.02	0	69.2	75	125	14.96	1.85	20	S
Cadmium	17.7	0.440	22.02	0	80.3	75	125	17.41	1.61	20	
Calcium	790	0.551	22.02	802.7	-55.9	75	125	779.1	1.43	20	S
Chromium	33.3	0.440	22.02	15.88	79.3	75	125	32.86	1.46	20	
Cobalt	11.7	0.440	22.02	0	53.0	75	125	9.166	24.0	20	RS
Copper	31.9	0.440	22.02	13.38	84.0	75	125	31.33	1.74	20	
Lead	34.0	0.440	22.02	18.95	68.5	75	125	33.65	1.14	20	S
Magnesium	1990	0.440	22.02	2049	-285	75	125	1961	1.25	20	S
Manganese	242	0.440	22.02	236.2	28.3	75	125	239.7	1.11	20	S
Nickel	29.6	0.440	22.02	14.45	68.9	75	125	29.14	1.62	20	S
Potassium	1350	0.551	220.2	1184	73.9	75	125	1322	1.86	20	S
Selenium	16.8	0.551	22.02	0	76.4	75	125	16.42	2.51	20	
Silver	17.8	0.440	22.02	0	80.8	75	125	17.44	2.05	20	
Sodium	71.6	0.551	22.02	50.05	97.7	75	125	70.48	1.52	20	
Thallium	14.7	0.551	22.02	0	66.8	75	125	14.38	2.28	20	S
Vanadium	35.4	0.440	22.02	18.69	75.8	75	125	34.83	1.59	20	
Zinc	50.7	0.440	22.02	34.14	75.1	75	125	50.02	1.30	20	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

American Analytical Laboratories, LLC.
56 Toledo Street
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TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **CA RICH** Work Order Number: **1401098** RcptNo: **1**

Logged by:	**Cate Ferrara**	**1/24/2014 10:00:00 AM**	C Ferrara
Completed By:	**Cate Ferrara**	**1/24/2014**	C Ferrara
Reviewed By:	**Lori Beyer**	**1/24/2014**	Lori Beyer

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? AAL Lab Courier

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☐ No ☑
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☐ No ☑
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

    Samples were not collected according to Method 5035A.

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consier anything <10x the blank value as artifact.

E - The value is above the quantitation range

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accurary.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

CHAIN OF CUSTODY

AMERICAN ANALYTICAL LABORATORIES
56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

Company Name: CA Rich
Address: 17 Dupont Street
City: Plainview NY 11803 State: Zip:
Project Contact: Eric Weinstock
Phone #: 516-576-8844
E-mail: eweinstock@carichinc.com

Project Information

Project Name: Orange / 882 Fulton
Street: Fulton
City: Brooklyn State: Zip:
Project #:
Sampler's Name / Company:
Sampler's Signature:

Analytical Information

LAB SAMPLE # (LAB USE ONLY)	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	NONE	HCl	NaOH	HNO_3	H_2SO_4	$NaHSO_4$	MeOH	OTHER	VOCs	SVOCs	Pest	PCB	TAL Metals
1401098-001	MW-1 (2-4')	G	S	1/20/14	1050	2	2	2								X	X	X	X	X
002	MW-1 (4-6')	G	S	1/20/14	1110	2	2	2								X	X	X	X	X

Sample Containers: Number of Each Preserved Bottle

Turnaround Time (Business Days)

Standard
- [X] 7-10 Business Days
- [ ] 3 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 1 Day *RUSH*

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODES

L = Liquid
S = Soil
O = Oil
W = Wipe
PC = Paint Chip
SL = Sludge
SD = Solid
M = Miscellaneous

Comments / Remarks

Cooler Temp: 2.1

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	1/24/14 1000	Jason T Cox	[signature]	1/24/14 1000	Cait Ferrara
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

APPENDIX G
Laboratory Data for Soil Vapor Points

New Jersey
ACCUTEST LABORATORIES

10/24/13

Technical Report for

C. A. Rich Consultants

Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Accutest Job Number: JB50276

Sampling Date: 10/14/13

Report to:

C. A. Rich Consultants
17 Dupont Street
Plainview, NY 11803
JCooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **482**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Accutest Laboratories

Sample Summary

C. A. Rich Consultants

Job No: JB50276

Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB50276-1	10/14/13	10:42	TB	10/15/13	AIR	Soil Vapor Comp.	SVP-1
JB50276-2	10/14/13	11:02	TB	10/15/13	AIR	Soil Vapor Comp.	SVP-2
JB50276-3	10/14/13	11:10	TB	10/15/13	AIR	Soil Vapor Comp.	SVP-3
JB50276-4	10/14/13	10:58	TB	10/15/13	AIR	Soil Vapor Comp.	SVP-4
JB50276-5	10/14/13	10:48	TB	10/15/13	AIR	Soil Vapor Comp.	SVP-5
JB50276-6	10/14/13	08:35	TB	10/15/13	AIR	Soil Vapor Comp.	SVP-XX

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB50276
Site:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY	**Report Date**	10/23/2013 12:45:42 P

On 10/15/2013, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories . Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB50276 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** VW1767

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50050-1DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** VW1768

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB49460-1DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** VW1771

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50614-4DUP were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB50276
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/14/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB50276-2	**SVP-2**					
Acetone		12.6	0.80	0.14	ppbv	TO-15
1,3-Butadiene		1.7	0.80	0.078	ppbv	TO-15
Benzene		1.8	0.80	0.084	ppbv	TO-15
Carbon disulfide		43.0	0.80	0.069	ppbv	TO-15
Ethanol		2.6	2.0	0.74	ppbv	TO-15
Ethylbenzene		0.62 J	0.80	0.081	ppbv	TO-15
Heptane		2.3	0.80	0.078	ppbv	TO-15
Hexane		5.0	0.80	0.064	ppbv	TO-15
Methylene chloride		5.8	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone		1.6	0.80	0.23	ppbv	TO-15
Propylene		99.7	2.0	0.13	ppbv	TO-15
Styrene		1.0	0.80	0.079	ppbv	TO-15
2,2,4-Trimethylpentane		1.2	0.80	0.084	ppbv	TO-15
Tetrachloroethylene		2.4	0.16	0.12	ppbv	TO-15
Toluene		7.6	0.80	0.081	ppbv	TO-15
m,p-Xylene		1.8	0.80	0.13	ppbv	TO-15
o-Xylene		0.56 J	0.80	0.077	ppbv	TO-15
Xylenes (total)		2.3	0.80	0.077	ppbv	TO-15
Acetone		29.9	1.9	0.33	ug/m3	TO-15
1,3-Butadiene		3.8	1.8	0.17	ug/m3	TO-15
Benzene		5.8	2.6	0.27	ug/m3	TO-15
Carbon disulfide		134	2.5	0.21	ug/m3	TO-15
Ethanol		4.9	3.8	1.4	ug/m3	TO-15
Ethylbenzene		2.7 J	3.5	0.35	ug/m3	TO-15
Heptane		9.4	3.3	0.32	ug/m3	TO-15
Hexane		18	2.8	0.23	ug/m3	TO-15
Methylene chloride		20	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		4.7	2.4	0.68	ug/m3	TO-15
Propylene		171	3.4	0.22	ug/m3	TO-15
Styrene		4.3	3.4	0.34	ug/m3	TO-15
2,2,4-Trimethylpentane		5.6	3.7	0.39	ug/m3	TO-15
Tetrachloroethylene		16	1.1	0.81	ug/m3	TO-15
Toluene		29	3.0	0.31	ug/m3	TO-15
m,p-Xylene		7.8	3.5	0.56	ug/m3	TO-15
o-Xylene		2.4 J	3.5	0.33	ug/m3	TO-15
Xylenes (total)		10	3.5	0.33	ug/m3	TO-15
JB50276-3	**SVP-3**					
Acetone		16.1	0.80	0.14	ppbv	TO-15
1,3-Butadiene		9.3	0.80	0.078	ppbv	TO-15
Benzene		4.5	0.80	0.084	ppbv	TO-15
Carbon disulfide		10.8	0.80	0.069	ppbv	TO-15

Summary of Hits

Job Number: JB50276
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/14/13

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Cyclohexane	1.1	0.80	0.23	ppbv	TO-15
Dichlorodifluoromethane	0.56 J	0.80	0.062	ppbv	TO-15
Ethanol	6.9	2.0	0.74	ppbv	TO-15
Ethylbenzene	1.1	0.80	0.081	ppbv	TO-15
Freon 114	0.54 J	0.80	0.085	ppbv	TO-15
Heptane	0.92	0.80	0.078	ppbv	TO-15
Hexane	9.9	0.80	0.064	ppbv	TO-15
Isopropyl Alcohol	2.3	0.80	0.15	ppbv	TO-15
Methylene chloride	23.8	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone	2.7	0.80	0.23	ppbv	TO-15
Propylene	342	10	0.63	ppbv	TO-15
Styrene	2.2	0.80	0.079	ppbv	TO-15
1,1,1-Trichloroethane	0.98	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene	0.51 J	0.80	0.066	ppbv	TO-15
Tetrachloroethylene	1.5	0.16	0.12	ppbv	TO-15
Toluene	23.2	0.80	0.081	ppbv	TO-15
Trichloroethylene	0.42	0.16	0.078	ppbv	TO-15
Trichlorofluoromethane	0.46 J	0.80	0.055	ppbv	TO-15
m,p-Xylene	2.9	0.80	0.13	ppbv	TO-15
o-Xylene	1.0	0.80	0.077	ppbv	TO-15
Xylenes (total)	3.9	0.80	0.077	ppbv	TO-15
Acetone	38.2	1.9	0.33	ug/m3	TO-15
1,3-Butadiene	21	1.8	0.17	ug/m3	TO-15
Benzene	14	2.6	0.27	ug/m3	TO-15
Carbon disulfide	33.6	2.5	0.21	ug/m3	TO-15
Cyclohexane	3.8	2.8	0.79	ug/m3	TO-15
Dichlorodifluoromethane	2.8 J	4.0	0.31	ug/m3	TO-15
Ethanol	13	3.8	1.4	ug/m3	TO-15
Ethylbenzene	4.8	3.5	0.35	ug/m3	TO-15
Freon 114	3.8 J	5.6	0.59	ug/m3	TO-15
Heptane	3.8	3.3	0.32	ug/m3	TO-15
Hexane	35	2.8	0.23	ug/m3	TO-15
Isopropyl Alcohol	5.7	2.0	0.37	ug/m3	TO-15
Methylene chloride	82.7	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone	8.0	2.4	0.68	ug/m3	TO-15
Propylene	587	17	1.1	ug/m3	TO-15
Styrene	9.4	3.4	0.34	ug/m3	TO-15
1,1,1-Trichloroethane	5.3	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene	2.5 J	3.9	0.32	ug/m3	TO-15
Tetrachloroethylene	10	1.1	0.81	ug/m3	TO-15
Toluene	87.4	3.0	0.31	ug/m3	TO-15
Trichloroethylene	2.3	0.86	0.42	ug/m3	TO-15
Trichlorofluoromethane	2.6 J	4.5	0.31	ug/m3	TO-15
m,p-Xylene	13	3.5	0.56	ug/m3	TO-15
o-Xylene	4.3	3.5	0.33	ug/m3	TO-15

Summary of Hits

Job Number: JB50276
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/14/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylenes (total)		17	3.5	0.33	ug/m3	TO-15
JB50276-4	**SVP-4**					
Acetone		95.2	0.80	0.14	ppbv	TO-15
1,3-Butadiene		8.4	0.80	0.078	ppbv	TO-15
Benzene		5.7	0.80	0.084	ppbv	TO-15
Carbon disulfide		12.9	0.80	0.069	ppbv	TO-15
Cyclohexane		1.9	0.80	0.23	ppbv	TO-15
Dichlorodifluoromethane		0.55 J	0.80	0.062	ppbv	TO-15
Ethanol		5.9	2.0	0.74	ppbv	TO-15
Ethylbenzene		1.4	0.80	0.081	ppbv	TO-15
Heptane		3.1	0.80	0.078	ppbv	TO-15
Hexane		15.6	0.80	0.064	ppbv	TO-15
Isopropyl Alcohol		2.2	0.80	0.15	ppbv	TO-15
Methylene chloride		6.2	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone		13.2	0.80	0.23	ppbv	TO-15
Propylene		299	10	0.63	ppbv	TO-15
Styrene		2.5	0.80	0.079	ppbv	TO-15
1,1,1-Trichloroethane		0.89	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene		0.63 J	0.80	0.066	ppbv	TO-15
2,2,4-Trimethylpentane		4.5	0.80	0.084	ppbv	TO-15
Tetrachloroethylene		1.5	0.16	0.12	ppbv	TO-15
Tetrahydrofuran		6.7	0.80	0.18	ppbv	TO-15
Toluene		24.7	0.80	0.081	ppbv	TO-15
Trichloroethylene		0.37	0.16	0.078	ppbv	TO-15
Trichlorofluoromethane		0.41 J	0.80	0.055	ppbv	TO-15
m,p-Xylene		3.7	0.80	0.13	ppbv	TO-15
o-Xylene		1.3	0.80	0.077	ppbv	TO-15
Xylenes (total)		5.0	0.80	0.077	ppbv	TO-15
Acetone		226	1.9	0.33	ug/m3	TO-15
1,3-Butadiene		19	1.8	0.17	ug/m3	TO-15
Benzene		18	2.6	0.27	ug/m3	TO-15
Carbon disulfide		40.2	2.5	0.21	ug/m3	TO-15
Cyclohexane		6.5	2.8	0.79	ug/m3	TO-15
Dichlorodifluoromethane		2.7 J	4.0	0.31	ug/m3	TO-15
Ethanol		11	3.8	1.4	ug/m3	TO-15
Ethylbenzene		6.1	3.5	0.35	ug/m3	TO-15
Heptane		13	3.3	0.32	ug/m3	TO-15
Hexane		55.0	2.8	0.23	ug/m3	TO-15
Isopropyl Alcohol		5.4	2.0	0.37	ug/m3	TO-15
Methylene chloride		22	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		38.9	2.4	0.68	ug/m3	TO-15
Propylene		514	17	1.1	ug/m3	TO-15
Styrene		11	3.4	0.34	ug/m3	TO-15

Summary of Hits

Job Number: JB50276
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/14/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,1,1-Trichloroethane	4.9	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene	3.1 J	3.9	0.32	ug/m3	TO-15
2,2,4-Trimethylpentane	21	3.7	0.39	ug/m3	TO-15
Tetrachloroethylene	10	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran	20	2.4	0.53	ug/m3	TO-15
Toluene	93.1	3.0	0.31	ug/m3	TO-15
Trichloroethylene	2.0	0.86	0.42	ug/m3	TO-15
Trichlorofluoromethane	2.3 J	4.5	0.31	ug/m3	TO-15
m,p-Xylene	16	3.5	0.56	ug/m3	TO-15
o-Xylene	5.6	3.5	0.33	ug/m3	TO-15
Xylenes (total)	22	3.5	0.33	ug/m3	TO-15
JB50276-5 SVP-5					
Acetone	69.7	0.80	0.14	ppbv	TO-15
1,3-Butadiene	14.5	0.80	0.078	ppbv	TO-15
Benzene	13.0	0.80	0.084	ppbv	TO-15
Carbon disulfide	194	4.0	0.35	ppbv	TO-15
Cyclohexane	3.2	0.80	0.23	ppbv	TO-15
Dichlorodifluoromethane	0.56 J	0.80	0.062	ppbv	TO-15
Ethanol	5.5	2.0	0.74	ppbv	TO-15
Ethylbenzene	1.2	0.80	0.081	ppbv	TO-15
Heptane	20.9	0.80	0.078	ppbv	TO-15
Hexane	52.9	0.80	0.064	ppbv	TO-15
Methylene chloride	6.5	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone	16.6	0.80	0.23	ppbv	TO-15
Propylene	1180	20	1.3	ppbv	TO-15
Styrene	2.4	0.80	0.079	ppbv	TO-15
1,2,4-Trimethylbenzene	0.47 J	0.80	0.066	ppbv	TO-15
2,2,4-Trimethylpentane	1.1	0.80	0.084	ppbv	TO-15
Tetrachloroethylene	2.1	0.16	0.12	ppbv	TO-15
Toluene	22.5	0.80	0.081	ppbv	TO-15
Trichloroethylene	0.77	0.16	0.078	ppbv	TO-15
Trichlorofluoromethane	0.51 J	0.80	0.055	ppbv	TO-15
m,p-Xylene	3.2	0.80	0.13	ppbv	TO-15
o-Xylene	1.0	0.80	0.077	ppbv	TO-15
Xylenes (total)	4.2	0.80	0.077	ppbv	TO-15
Acetone	166	1.9	0.33	ug/m3	TO-15
1,3-Butadiene	32.1	1.8	0.17	ug/m3	TO-15
Benzene	41.5	2.6	0.27	ug/m3	TO-15
Carbon disulfide	604	12	1.1	ug/m3	TO-15
Cyclohexane	11	2.8	0.79	ug/m3	TO-15
Dichlorodifluoromethane	2.8 J	4.0	0.31	ug/m3	TO-15
Ethanol	10	3.8	1.4	ug/m3	TO-15
Ethylbenzene	5.2	3.5	0.35	ug/m3	TO-15

Summary of Hits

Job Number: JB50276
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/14/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Heptane	85.7	3.3	0.32	ug/m3	TO-15
Hexane	186	2.8	0.23	ug/m3	TO-15
Methylene chloride	23	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone	49.0	2.4	0.68	ug/m3	TO-15
Propylene	2030	34	2.2	ug/m3	TO-15
Styrene	10	3.4	0.34	ug/m3	TO-15
1,2,4-Trimethylbenzene	2.3 J	3.9	0.32	ug/m3	TO-15
2,2,4-Trimethylpentane	5.1	3.7	0.39	ug/m3	TO-15
Tetrachloroethylene	14	1.1	0.81	ug/m3	TO-15
Toluene	84.8	3.0	0.31	ug/m3	TO-15
Trichloroethylene	4.1	0.86	0.42	ug/m3	TO-15
Trichlorofluoromethane	2.9 J	4.5	0.31	ug/m3	TO-15
m,p-Xylene	14	3.5	0.56	ug/m3	TO-15
o-Xylene	4.3	3.5	0.33	ug/m3	TO-15
Xylenes (total)	18	3.5	0.33	ug/m3	TO-15

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	SVP-2		
Lab Sample ID:	JB50276-2	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A931	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W44141.D	1	10/18/13	DFT	n/a	n/a	VW1767
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	12.6	0.80	0.14	ppbv		29.9	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	1.7	0.80	0.078	ppbv		3.8	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	1.8	0.80	0.084	ppbv		5.8	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	43.0	0.80	0.069	ppbv		134	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.23	ppbv		ND	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.062	ppbv		ND	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-2		
Lab Sample ID:	JB50276-2	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A931	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.6	2.0	0.74	ppbv		4.9	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.62	0.80	0.081	ppbv	J	2.7	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	2.3	0.80	0.078	ppbv		9.4	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	5.0	0.80	0.064	ppbv		18	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	5.8	0.80	0.19	ppbv		20	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.6	0.80	0.23	ppbv		4.7	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	99.7	2.0	0.13	ppbv		171	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	1.0	0.80	0.079	ppbv		4.3	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.066	ppbv		ND	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.80	0.066	ppbv		ND	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.2	0.80	0.084	ppbv		5.6	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.4	0.16	0.12	ppbv		16	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.18	ppbv		ND	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	7.6	0.80	0.081	ppbv		29	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.078	ppbv		ND	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.055	ppbv		ND	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	1.8	0.80	0.13	ppbv		7.8	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	0.56	0.80	0.077	ppbv	J	2.4	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	2.3	0.80	0.077	ppbv		10	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SVP-3		
Lab Sample ID:	JB50276-3	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A943	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W44142.D	1	10/18/13	DFT	n/a	n/a	VW1767
Run #2	W44159.D	1	10/18/13	DFT	n/a	n/a	VW1768

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	16.1	0.80	0.14	ppbv		38.2	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	9.3	0.80	0.078	ppbv		21	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	4.5	0.80	0.084	ppbv		14	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	10.8	0.80	0.069	ppbv		33.6	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	1.1	0.80	0.23	ppbv		3.8	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.80	0.062	ppbv	J	2.8	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-3		
Lab Sample ID:	JB50276-3	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A943	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	6.9	2.0	0.74	ppbv		13	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.1	0.80	0.081	ppbv		4.8	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	0.54	0.80	0.085	ppbv	J	3.8	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	0.92	0.80	0.078	ppbv		3.8	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	9.9	0.80	0.064	ppbv		35	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.3	0.80	0.15	ppbv		5.7	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	23.8	0.80	0.19	ppbv		82.7	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.7	0.80	0.23	ppbv		8.0	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	342 [a]	10	0.63	ppbv		587 [a]	17	1.1	ug/m3
100-42-5	104.1	Styrene	2.2	0.80	0.079	ppbv		9.4	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.98	0.80	0.066	ppbv		5.3	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.51	0.80	0.066	ppbv	J	2.5	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.5	0.16	0.12	ppbv		10	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.18	ppbv		ND	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	23.2	0.80	0.081	ppbv		87.4	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.42	0.16	0.078	ppbv		2.3	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.46	0.80	0.055	ppbv	J	2.6	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	2.9	0.80	0.13	ppbv		13	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.80	0.077	ppbv		4.3	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	3.9	0.80	0.077	ppbv		17	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	93%	65-128%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-3		
Lab Sample ID:	JB50276-3	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A943	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SVP-4		
Lab Sample ID:	JB50276-4	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A930	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W44143.D	1	10/18/13	DFT	n/a	n/a	VW1767
Run #2	W44160.D	1	10/18/13	DFT	n/a	n/a	VW1768

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	95.2	0.80	0.14	ppbv		226	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	8.4	0.80	0.078	ppbv		19	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	5.7	0.80	0.084	ppbv		18	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	12.9	0.80	0.069	ppbv		40.2	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	1.9	0.80	0.23	ppbv		6.5	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.80	0.062	ppbv	J	2.7	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-4		
Lab Sample ID:	JB50276-4	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A930	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	5.9	2.0	0.74	ppbv		11	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.4	0.80	0.081	ppbv		6.1	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	3.1	0.80	0.078	ppbv		13	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	15.6	0.80	0.064	ppbv		55.0	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.2	0.80	0.15	ppbv		5.4	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	6.2	0.80	0.19	ppbv		22	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	13.2	0.80	0.23	ppbv		38.9	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	299 [a]	10	0.63	ppbv		514 [a]	17	1.1	ug/m3
100-42-5	104.1	Styrene	2.5	0.80	0.079	ppbv		11	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.89	0.80	0.066	ppbv		4.9	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.63	0.80	0.066	ppbv	J	3.1	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	4.5	0.80	0.084	ppbv		21	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.5	0.16	0.12	ppbv		10	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	6.7	0.80	0.18	ppbv		20	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	24.7	0.80	0.081	ppbv		93.1	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.37	0.16	0.078	ppbv		2.0	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.41	0.80	0.055	ppbv	J	2.3	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	3.7	0.80	0.13	ppbv		16	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	1.3	0.80	0.077	ppbv		5.6	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	5.0	0.80	0.077	ppbv		22	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%	95%	65-128%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-4		
Lab Sample ID:	JB50276-4	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A930	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SVP-5
Lab Sample ID: JB50276-5 **Date Sampled:** 10/14/13
Matrix: AIR - Soil Vapor Comp. Summa ID: A938 **Date Received:** 10/15/13
Method: TO-15 **Percent Solids:** n/a
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W44144.D	1	10/18/13	DFT	n/a	n/a	VW1767
Run #2	W44171.D	1	10/19/13	DFT	n/a	n/a	VW1768
Run #3	W44228.D	1	10/22/13	DFT	n/a	n/a	VW1771

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml
Run #3	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	69.7	0.80	0.14	ppbv		166	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	14.5	0.80	0.078	ppbv		32.1	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	13.0	0.80	0.084	ppbv		41.5	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	194 [a]	4.0	0.35	ppbv		604 [a]	12	1.1	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	3.2	0.80	0.23	ppbv		11	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.80	0.062	ppbv	J	2.8	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-5		
Lab Sample ID:	JB50276-5	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A938	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3
64-17-5	46.07	Ethanol	5.5	2.0	0.74	ppbv		10	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.80	0.081	ppbv		5.2	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	20.9	0.80	0.078	ppbv		85.7	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	52.9	0.80	0.064	ppbv		186	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	6.5	0.80	0.19	ppbv		23	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	16.6	0.80	0.23	ppbv		49.0	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	1180 [b]	20	1.3	ppbv		2030 [b]	34	2.2	ug/m3
100-42-5	104.1	Styrene	2.4	0.80	0.079	ppbv		10	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.066	ppbv		ND	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.47	0.80	0.066	ppbv	J	2.3	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.1	0.80	0.084	ppbv		5.1	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.18	ppbv		ND	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.1	0.16	0.12	ppbv		14	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.18	ppbv		ND	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	22.5	0.80	0.081	ppbv		84.8	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.77	0.16	0.078	ppbv		4.1	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.51	0.80	0.055	ppbv	J	2.9	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	3.2	0.80	0.13	ppbv		14	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.80	0.077	ppbv		4.3	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	4.2	0.80	0.077	ppbv		18	3.5	0.33	ug/m3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-5		
Lab Sample ID:	JB50276-5	**Date Sampled:**	10/14/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A938	**Date Received:**	10/15/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	100%	96%	102%	65-128%

(a) Result is from Run# 2
(b) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2013 MDL Study - Method: TO-15

AIR

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking #:

Lab Quote #:

Bottle Order Control #: KP-10/14/2013-16

Lab Job #: JB50276

PAGE 1 OF 1

Client / Reporting Information

Company Name: CA Rich Consultants

Address: 17 Dupont St.

City: Plainview State: NY Zip: 11803

Project Contact: Jason Cooper E-mail: Jcooper@carichinc.com

Phone #: (516) 576-8844 Fax #:

Project Name: Fulton Avenue

Street: 882 Fulton Ave.

City: Brooklyn State: NY

Project #:

Client Purchase Order #:

Sampler(s) Name(s):

Weather Parameters

Temperature (Fahrenheit)
Start: Maximum:
Stop: Minimum:

Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:

Other weather comment:

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #		Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List		
1	SVP-1	SV	A928	3.2L	F286	1	10/14/13	0834	30		TB	10/14/13	1042	5		TB	X		
2	SVP-2	SV	A931	3.2L	F335	1	10/14/13	0900	30		TB	10/14/13	1102	5		TB	X		
3	SVP-3	SV	A943	3.2L	F136	1	10/14/13	0910	30		TB	10/14/13	1110	5		TB	X		
4	SVP-4	SV	A930	3.2L	F433	1	10/14/13	0851	30		TB	10/14/13	1058	4		TB	X		
5	SVP-5	SV	A938	3.2L	F549	1	10/14/13	0844	30		TB	10/14/13	1048	4		TB	X		
6	SVP-XX	SV	A915	3.2L	F397	1	10/14/13	0834	30		TB	10/14/13	0835	3		TB	X		

Turnaround Time (Business days)

Standard - 15 Days: X
10 Day
5 Day
3 Day
2 Day
1 Day
Other

Approved By:

Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A
Comm B
Reduced T2
Full T1
Other:

Comments / Remarks

SUMMA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by/Laboratory	Date Time	Received By	Relinquished By	Date Time	Received By
1 Ray Maurain	10/8/13 19:25	1	2		2
3 Thomas Bz	10/15/13 1700	3	4		4
5		5			

Custody Seal #

5.1

5

JB50276: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB50276 **Client:** _____ **Project:** _____

Date / Time Received: 10/15/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB50276: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Job Change Order: JB50276

Requested Date:	10/22/2013	**Received Date:**	10/15/2013
Account Name:	C. A. Rich Consultants	**Due Date:**	10/29/2013
Project Description:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY	**Deliverable:**	NYASPB
CSR:	kellyp	**TAT (Days):**	7

==========

Sample #: JB50276-ALL

Dept:

Change:
Please revise to 7 day TAT from date received. Due today 10/22

==========

Above Changes Per: Jason Cooper **Date:** 10/22/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

JB50276: Chain of Custody
Page 3 of 3

Summa Canister and Flow Controller Log

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Received: 10/15/13

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A928	3.2	29.4	10/08/13	DFT	CP6522	3W36346.D	JB50276-1	10/16/13	ML	2			1
A931	3.2	29.4	10/08/13	DFT	CP6522	3W36346.D	JB50276-2	10/16/13	ML	3.5			1
A943	3.2	29.4	10/08/13	DFT	CP6522	3W36346.D	JB50276-3	10/16/13	ML	4.5			1
A930	3.2	29.4	10/08/13	DFT	CP6522	3W36346.D	JB50276-4	10/16/13	ML	2.5			1
A938	3.2	29.4	10/08/13	DFT	CP6522	3W36346.D	JB50276-5	10/16/13	ML	3.5			1
A915	3.2	29.4	10/08/13	DFT	CP6522	3W36346.D	JB50276-6	10/16/13	ML	2			1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC136	10/08/13	DFT	20	2	10/16/13	RC	20.5
FC256	10/08/13	DFT	20	2	10/16/13	RC	20.7
FC335	10/08/13	DFT	20	2	10/16/13	RC	20.8
FC397	10/08/13	DFT	20	2	10/16/13	RC	21.2
FC433	10/08/13	DFT	20	2	10/16/13	RC	20.9
FC549	10/08/13	DFT	20	2	10/16/13	RC	21.8

Accutest Bottle Order(s):
KP-10/4/2013-16

Prep Date	Room Temp(F)	Bar Pres "Hg
10/08/13	70	29.92

Internal Sample Tracking Chronicle

C. A. Rich Consultants

Job No: JB50276

Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB50276-2 SVP-2	Collected: 14-OCT-13 11:02 By: TB		Received: 15-OCT-13 By: AS			
JB50276-2	TO-15	18-OCT-13 01:05	DFT			VTO15STD
JB50276-3 SVP-3	Collected: 14-OCT-13 11:10 By: TB		Received: 15-OCT-13 By: AS			
JB50276-3	TO-15	18-OCT-13 01:45	DFT			VTO15STD
JB50276-3	TO-15	18-OCT-13 18:26	DFT			VTO15STD
JB50276-4 SVP-4	Collected: 14-OCT-13 10:58 By: TB		Received: 15-OCT-13 By: AS			
JB50276-4	TO-15	18-OCT-13 02:25	DFT			VTO15STD
JB50276-4	TO-15	18-OCT-13 19:06	DFT			VTO15STD
JB50276-5 SVP-5	Collected: 14-OCT-13 10:48 By: TB		Received: 15-OCT-13 By: AS			
JB50276-5	TO-15	18-OCT-13 03:05	DFT			VTO15STD
JB50276-5	TO-15	19-OCT-13 02:26	DFT			VTO15STD
JB50276-5	TO-15	22-OCT-13 17:20	DFT			VTO15STD

Accutest Internal Chain of Custody

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Received: 10/15/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB50276-1.1	Andrew Siu	Air Storage	10/15/13 23:45	Return to Storage
JB50276-2.1	Andrew Siu	Air Storage	10/15/13 23:45	Return to Storage
JB50276-3.1	Andrew Siu	Air Storage	10/15/13 23:45	Return to Storage
JB50276-4.1	Andrew Siu	Air Storage	10/15/13 23:45	Return to Storage
JB50276-5.1	Andrew Siu	Air Storage	10/15/13 23:45	Return to Storage
JB50276-6.1	Andrew Siu	Air Storage	10/15/13 23:45	Return to Storage

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS2W, GCMS3W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April,2013

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Acetone	19-Apr-13	0.1	0.09	0.07	0.07	0.08	0.07	0.09	0.10	0.08	83.19	0.011	0.034	2.93
Acrolein	21-Feb-13	0.2	0.28	0.22	0.27	0.27	0.27	0.25	0.27	0.26	130.56	0.021	0.066	3.02
Acrylonitrile	21-Feb-13	0.1	0.12	0.13	0.13	0.09	0.08	0.13	0.12	0.11	113.93	0.023	0.071	1.41
Acetonitrile	18-Apr-13	0.2	0.24	0.24	0.30	0.26	0.30	0.28	0.22	0.26	131.05	0.031	0.096	2.08
1,3-Butadiene	31-Jan-13	0.1	0.10	0.11	0.11	0.10	0.10	0.11	0.11	0.11	106.22	0.006	0.020	5.12
Benzene	21-Feb-13	0.1	0.11	0.11	0.12	0.11	0.12	0.11	0.12	0.11	112.90	0.007	0.021	4.75
Bromobenzene	21-Feb-13	0.1	0.11	0.10	0.11	0.11	0.12	0.10	0.11	0.11	110.24	0.007	0.022	4.64
Bromodichloromethane	21-Feb-13	0.1	0.13	0.11	0.13	0.12	0.13	0.13	0.13	0.13	125.27	0.008	0.025	4.05
Bromoform	18-Apr-13	0.2	0.22	0.23	0.24	0.23	0.24	0.23	0.24	0.23	116.13	0.007	0.022	9.31
Bromomethane	21-Feb-13	0.1	0.12	0.11	0.12	0.11	0.12	0.12	0.12	0.12	117.09	0.006	0.017	5.82
Bromoethene	21-Feb-13	0.1	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.10	100.96	0.005	0.014	6.98
n-Butane	30-Jan-13	0.2	0.19	0.20	0.18	0.23	0.18	0.19	0.18	0.19	96.02	0.018	0.056	3.58
Benzyl Chloride	18-Apr-13	0.2	0.20	0.21	0.19	0.20	0.21	0.20	0.20	0.20	100.79	0.008	0.025	8.10
n-Butylbenzene	18-Apr-13	0.2	0.16	0.16	0.15	0.16	0.15	0.13	0.16	0.15	76.64	0.012	0.036	5.50
sec-Butylbenzene	31-Jan-13	0.1	0.07	0.05	0.06	0.06	0.05	0.06	0.07	0.06	61.01	0.009	0.027	3.69
tert-Butylbenzene	31-Jan-13	0.1	0.08	0.06	0.06	0.07	0.06	0.07	0.08	0.07	68.26	0.008	0.024	4.21
Carbon disulfide	18-Apr-13	0.2	0.29	0.30	0.30	0.29	0.29	0.29	0.29	0.29	146.42	0.006	0.017	11.58
Chlorobenzene	21-Feb-13	0.1	0.14	0.12	0.13	0.13	0.15	0.13	0.14	0.14	135.36	0.008	0.025	3.94
Chlorodifluoromethane	18-Apr-13	0.2	0.31	0.28	0.32	0.30	0.32	0.31	0.31	0.31	153.78	0.013	0.040	4.96
Chloroethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.11	0.11	0.11	109.34	0.007	0.020	4.91
Chloroform	30-Jan-13	0.2	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.21	106.44	0.006	0.019	10.82
Chloromethane	31-Jan-13	0.1	0.08	0.07	0.09	0.07	0.07	0.06	0.06	0.07	72.77	0.011	0.034	2.98
3-Chloropropene	30-Jan-13	0.2	0.21	0.20	0.19	0.21	0.19	0.21	0.20	0.20	100.00	0.009	0.028	7.28
2-Chlorotoluene	19-Apr-13	0.1	0.10	0.09	0.09	0.09	0.10	0.09	0.09	0.09	93.45	0.006	0.020	5.03
Carbon tetrachloride	19-Apr-13	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.11	108.87	0.004	0.011	8.85
Cyclohexane	21-Feb-13	0.2	0.23	0.24	0.24	0.25	0.26	0.25	0.29	0.25	126.23	0.019	0.058	3.43
1,1-Dichloroethane	19-Apr-13	0.1	0.13	0.11	0.13	0.12	0.12	0.13	0.12	0.12	122.22	0.005	0.016	6.09
1,1-Dichloroethylene	19-Apr-13	0.1	0.11	0.12	0.11	0.12	0.12	0.12	0.11	0.12	115.59	0.007	0.021	4.73
1,2-Dibromoethane	21-Feb-13	0.1	0.12	0.10	0.12	0.11	0.13	0.12	0.12	0.12	116.96	0.009	0.027	3.68
1,2-Dichloroethane	30-Jan-13	0.2	0.22	0.22	0.21	0.22	0.22	0.21	0.23	0.22	109.25	0.005	0.016	12.17
1,2-Dichloropropane	21-Feb-13	0.1	0.12	0.11	0.13	0.11	0.15	0.14	0.12	0.13	125.91	0.013	0.040	2.52

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS2W, GCMS3W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April,2013

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
1,4-Dioxane	21-Feb-13	0.1	0.10	0.09	0.08	0.13	0.09	0.07	0.07	0.09	90.98	0.019	0.060	1.66
Dichlorodifluoromethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.11	0.11	0.11	105.96	0.005	0.015	6.51
Dibromochloromethane	21-Feb-13	0.1	0.13	0.11	0.13	0.12	0.13	0.12	0.14	0.13	126.06	0.009	0.029	3.46
Dibromomethane	21-Feb-13	0.1	0.13	0.12	0.13	0.13	0.13	0.12	0.14	0.13	127.38	0.007	0.021	4.80
trans-1,2-Dichloroethylene	21-Feb-13	0.1	0.10	0.10	0.11	0.09	0.10	0.10	0.10	0.10	98.77	0.005	0.015	6.77
cis-1,2-Dichloroethylene	21-Feb-13	0.1	0.10	0.09	0.12	0.10	0.11	0.10	0.11	0.10	103.82	0.009	0.028	3.63
cis-1,3-Dichloropropene	30-Jan-13	0.2	0.19	0.20	0.19	0.21	0.19	0.19	0.20	0.20	97.56	0.006	0.019	10.75
m-Dichlorobenzene	21-Feb-13	0.1	0.10	0.10	0.10	0.09	0.11	0.08	0.11	0.10	98.82	0.008	0.025	4.04
o-Dichlorobenzene	21-Feb-13	0.1	0.11	0.11	0.10	0.10	0.11	0.09	0.11	0.10	102.97	0.009	0.029	3.42
p-Dichlorobenzene	31-Jan-13	0.1	0.09	0.08	0.09	0.08	0.08	0.09	0.10	0.09	85.30	0.007	0.022	4.63
trans-1,3-Dichloropropene	21-Feb-13	0.1	0.09	0.09	0.08	0.08	0.09	0.07	0.08	0.08	84.19	0.007	0.021	4.74
Di-Isopropyl ether	31-Jan-13	0.1	0.10	0.09	0.10	0.10	0.09	0.10	0.10	0.10	95.99	0.005	0.015	6.68
2,3-Dimethylpentane	18-Apr-13	0.2	0.31	0.30	0.32	0.31	0.33	0.33	0.32	0.32	158.05	0.009	0.030	6.79
2,4-Dimethylpentane	21-Feb-13	0.2	0.16	0.17	0.17	0.16	0.15	0.15	0.17	0.16	80.12	0.007	0.021	9.49
Ethanol	30-Jan-13	0.2	0.41	0.35	0.34	0.31	0.27	0.24	0.28	0.31	156.88	0.059	0.186	1.07
Ethylbenzene	21-Feb-13	0.1	0.10	0.09	0.10	0.09	0.11	0.09	0.10	0.10	95.68	0.006	0.020	4.94
Ethyl Acetate	30-Jan-13	0.2	0.19	0.19	0.17	0.20	0.18	0.15	0.20	0.18	91.70	0.018	0.057	3.50
4-Ethyltoluene	21-Feb-13	0.1	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	68.03	0.005	0.015	6.64
Freon 113	18-Apr-13	0.2	0.25	0.26	0.25	0.25	0.27	0.25	0.26	0.26	128.25	0.007	0.021	9.69
Freon 114	18-Apr-13	0.2	0.28	0.30	0.29	0.29	0.30	0.29	0.30	0.29	146.69	0.007	0.021	9.45
Freon 123	21-Feb-13	0.1	0.12	0.11	0.12	0.12	0.13	0.11	0.12	0.12	118.87	0.007	0.021	4.71
Freon 123A	21-Feb-13	0.1	0.12	0.12	0.13	0.12	0.13	0.12	0.13	0.12	122.12	0.005	0.016	6.21
Freon 152A	21-Feb-13	0.2	0.31	0.29	0.29	0.27	0.28	0.28	0.31	0.29	145.63	0.017	0.055	3.66
Heptane	21-Feb-13	0.1	0.10	0.08	0.09	0.08	0.09	0.09	0.09	0.09	86.98	0.006	0.020	5.10
Hexachlorobutadiene	21-Feb-13	0.1	0.15	0.15	0.15	0.15	0.18	0.14	0.19	0.16	159.49	0.020	0.063	1.60
Hexachloroethane	19-Apr-13	0.1	0.14	0.14	0.12	0.14	0.13	0.15	0.12	0.13	132.99	0.012	0.036	2.77
Hexane	30-Jan-13	0.2	0.21	0.21	0.20	0.22	0.20	0.21	0.22	0.21	105.03	0.005	0.016	12.54
2-Hexanone	21-Feb-13	0.1	0.05	0.05	0.05	0.05	0.06	0.04	0.06	0.05	53.43	0.008	0.025	4.07
Iodomethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.11	0.11	0.11	106.85	0.005	0.017	6.05
Isopropylbenzene	19-Apr-13	0.1	0.12	0.11	0.10	0.11	0.11	0.11	0.11	0.11	111.95	0.006	0.019	5.21
Isopropyl Alcohol	21-Feb-13	0.1	0.09	0.11	0.13	0.11	0.12	0.10	0.11	0.11	112.05	0.012	0.039	2.59
p-Isopropyltoluene	21-Feb-13	0.1	0.07	0.07	0.06	0.06	0.07	0.05	0.07	0.07	66.25	0.007	0.023	4.37
Methylene chloride	21-Feb-13	0.2	0.31	0.31	0.33	0.30	0.31	0.30	0.34	0.31	157.29	0.015	0.047	4.30
Methyl ethyl ketone	30-Jan-13	0.2	0.20	0.19	0.17	0.21	0.18	0.16	0.21	0.19	95.01	0.019	0.058	3.42

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS2W, GCMS3W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April,2013

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Methyl Isobutyl Ketone	18-Apr-13	0.2	0.15	0.17	0.17	0.16	0.17	0.15	0.17	0.16	82.08	0.009	0.029	6.83
Methyl Tert Butyl Ether	19-Apr-13	0.1	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	111.45	0.005	0.017	5.85
Methylmethacrylate	30-Jan-13	0.2	0.19	0.19	0.18	0.21	0.19	0.17	0.19	0.19	93.71	0.013	0.040	4.95
Naphthalene	18-Apr-13	0.2	0.19	0.20	0.17	0.17	0.19	0.17	0.18	0.18	90.14	0.012	0.037	5.35
Nonane	19-Apr-13	0.1	0.10	0.09	0.09	0.09	0.09	0.10	0.09	0.09	92.52	0.006	0.018	5.65
Octane	21-Feb-13	0.1	0.09	0.07	0.08	0.07	0.08	0.08	0.08	0.08	78.44	0.007	0.021	4.87
Pentane	31-Jan-13	0.1	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06	56.98	0.006	0.018	5.42
n-Propylbenzene	31-Jan-13	0.1	0.08	0.06	0.07	0.06	0.06	0.07	0.08	0.07	68.74	0.008	0.024	4.17
Propylene	21-Feb-13	0.1	0.14	0.11	0.13	0.14	0.13	0.13	0.14	0.13	129.80	0.010	0.031	3.20
Styrene	19-Apr-13	0.1	0.09	0.08	0.07	0.08	0.09	0.08	0.08	0.08	79.82	0.006	0.020	5.04
1,1,1-Trichloroethane	19-Apr-13	0.1	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	112.95	0.005	0.016	6.09
1,1,1,2-Tetrachloroethane	21-Feb-13	0.1	0.13	0.12	0.14	0.13	0.15	0.13	0.14	0.14	135.01	0.011	0.034	2.94
1,1,2,2-Tetrachloroethane	21-Feb-13	0.1	0.13	0.12	0.12	0.12	0.14	0.12	0.14	0.13	127.92	0.010	0.030	3.30
1,1,2-Trichloroethane	18-Apr-13	0.2	0.26	0.27	0.27	0.27	0.29	0.26	0.27	0.27	134.95	0.010	0.031	6.47
1,2,4-Trichlorobenzene	18-Apr-13	0.2	0.23	0.19	0.18	0.20	0.19	0.19	0.25	0.20	102.38	0.025	0.079	2.54
1,2,3-Trichloropropane	31-Jan-13	0.1	0.12	0.10	0.11	0.10	0.11	0.11	0.13	0.11	112.41	0.010	0.032	3.15
1,2,4-Trimethylbenzene	21-Feb-13	0.1	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	66.52	0.005	0.017	6.02
1,3,5-Trimethylbenzene	21-Feb-13	0.1	0.08	0.08	0.08	0.07	0.08	0.06	0.08	0.07	74.00	0.005	0.015	6.64
2,2,4-Trimethylpentane	21-Feb-13	0.1	0.11	0.09	0.11	0.10	0.11	0.10	0.11	0.10	102.37	0.007	0.021	4.75
Tertiary Butyl Alcohol	18-Apr-13	0.2	0.27	0.27	0.28	0.27	0.24	0.27	0.28	0.27	132.98	0.014	0.044	4.55
Tetrachloroethylene	30-Jan-13	0.2	0.21	0.20	0.21	0.23	0.22	0.20	0.20	0.21	104.72	0.009	0.029	6.94
Tetrahydrofuran	18-Apr-13	0.2	0.17	0.21	0.21	0.20	0.20	0.21	0.22	0.20	101.17	0.014	0.045	4.46
Toluene	21-Feb-13	0.1	0.09	0.08	0.09	0.08	0.10	0.08	0.08	0.09	88.29	0.006	0.020	4.95
Trichloroethylene	30-Jan-13	0.2	0.21	0.21	0.20	0.22	0.21	0.20	0.22	0.21	105.13	0.006	0.019	10.31
Trichlorofluoromethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.11	105.60	0.004	0.014	7.28
Vinyl chloride	19-Apr-13	0.1	0.14	0.13	0.12	0.13	0.12	0.13	0.13	0.13	128.97	0.006	0.017	5.83
Vinyl Acetate	30-Jan-13	0.2	0.16	0.14	0.14	0.13	0.13	0.10	0.13	0.13	66.64	0.019	0.058	3.43
m,p-Xylene	21-Feb-13	0.2	0.18	0.16	0.18	0.17	0.20	0.17	0.18	0.18	88.85	0.010	0.032	6.18
o-Xylene	21-Feb-13	0.1	0.09	0.08	0.09	0.08	0.10	0.08	0.08	0.09	85.72	0.006	0.019	5.17
TVHC As Equiv Pentane	21-Feb-13	0.1	0.11	0.11	0.10	0.09	0.10	0.10	0.12	0.10	104.94	0.012	0.038	2.65
TVHC As Equiv Heptane	21-Feb-13	0.1	0.10	0.10	0.09	0.08	0.09	0.09	0.10	0.09	93.44	0.008	0.023	4.27
4-Bromofluorobenzene	21-Feb-13	0.2	9.16	9.64	9.49	9.49	9.35	9.54	8.80	9.35	4675.80	0.286	0.899	0.22

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1767-MB	W44123.D	1	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1767-MB	W44123.D	1	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1767-MB	W44123.D	1	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	65-128%

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1768-MB	W44150.D	1	10/18/13	DFT	n/a	n/a	VW1768

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	65-128%

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1771-MB	W44222.D	1	10/22/13	DFT	n/a	n/a	VW1771

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-MB	3W36337.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-MB	3W36337.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-MB	3W36337.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	84%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1767-BS	W44120.D	1	10/17/13	DFT	n/a	n/a	VW1767
VW1767-BSD	W44121.D	1	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	7.9	79	7.3	73	8	70-130/30
106-99-0	1,3-Butadiene	10	9.2	92	9.1	91	1	70-130/30
71-43-2	Benzene	10	9.4	94	9.3	93	1	70-130/30
75-27-4	Bromodichloromethane	10	10.3	103	10	100	3	70-130/30
75-25-2	Bromoform	10	11.6	116	11.2	112	4	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.6	96	1	70-130/30
593-60-2	Bromoethene	10	9.8	98	9.9	99	1	70-130/30
100-44-7	Benzyl Chloride	10	11.7	117	11.1	111	5	70-130/30
75-15-0	Carbon disulfide	10	8.7	87	8.7	87	0	70-130/30
108-90-7	Chlorobenzene	10	10.0	100	9.7	97	3	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.5	95	0	70-130/30
67-66-3	Chloroform	10	9.2	92	9.1	91	1	70-130/30
74-87-3	Chloromethane	10	9.1	91	9.2	92	1	70-130/30
107-05-1	3-Chloropropene	10	9.5	95	9.6	96	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.3	103	9.9	99	4	70-130/30
56-23-5	Carbon tetrachloride	10	9.9	99	9.9	99	0	70-130/30
110-82-7	Cyclohexane	10	9.7	97	9.7	97	0	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	9.2	92	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.4	94	9.5	95	1	70-130/30
106-93-4	1,2-Dibromoethane	10	10.5	105	10.1	101	4	70-130/30
107-06-2	1,2-Dichloroethane	10	9.2	92	9.0	90	2	70-130/30
78-87-5	1,2-Dichloropropane	10	9.3	93	9.0	90	3	70-130/30
123-91-1	1,4-Dioxane	10	10.3	103	10.3	103	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.6	96	9.5	95	1	70-130/30
124-48-1	Dibromochloromethane	10	11.0	110	10.6	106	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.4	94	9.4	94	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.8	98	9.9	99	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.4	94	9.0	90	4	70-130/30
541-73-1	m-Dichlorobenzene	10	11.2	112	10.7	107	5	70-130/30
95-50-1	o-Dichlorobenzene	10	10.9	109	10.5	105	4	70-130/30
106-46-7	p-Dichlorobenzene	10	11.0	110	10.6	106	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.6	106	10.3	103	3	70-130/30
64-17-5	Ethanol	10	8.4	84	8.8	88	5	70-130/30
100-41-4	Ethylbenzene	10	9.8	98	9.5	95	3	70-130/30
141-78-6	Ethyl Acetate	10	8.6	86	8.3	83	4	70-130/30
622-96-8	4-Ethyltoluene	10	10.7	107	10.3	103	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1767-BS	W44120.D	1	10/17/13	DFT	n/a	n/a	VW1767
VW1767-BSD	W44121.D	1	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.3	93	9.3	93	0	70-130/30
76-14-2	Freon 114	10	9.6	96	9.5	95	1	70-130/30
142-82-5	Heptane	10	9.6	96	9.5	95	1	70-130/30
87-68-3	Hexachlorobutadiene	10	9.1	91	9.0	90	1	70-130/30
110-54-3	Hexane	10	9.0	90	9.1	91	1	70-130/30
591-78-6	2-Hexanone	10	11.2	112	10.8	108	4	70-130/30
67-63-0	Isopropyl Alcohol	10	9.0	90	9.4	94	4	70-130/30
75-09-2	Methylene chloride	10	8.9	89	8.9	89	0	70-130/30
78-93-3	Methyl ethyl ketone	10	9.1	91	8.6	86	6	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.2	102	9.7	97	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.9	89	8.6	86	3	70-130/30
80-62-6	Methylmethacrylate	10	9.9	99	9.2	92	7	70-130/30
115-07-1	Propylene	10	9.0	90	8.8	88	2	70-130/30
100-42-5	Styrene	10	10.3	103	9.9	99	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	9.3	93	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.2	102	9.9	99	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.5	95	9.3	93	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.9	109	9.9	99	10	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	10.1	101	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.2	102	9.9	99	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.6	96	9.5	95	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.5	105	11.1	111	6	70-130/30
127-18-4	Tetrachloroethylene	10	10.0	100	9.9	99	1	70-130/30
109-99-9	Tetrahydrofuran	10	8.6	86	8.3	83	4	70-130/30
108-88-3	Toluene	10	9.8	98	9.5	95	3	70-130/30
79-01-6	Trichloroethylene	10	9.4	94	9.3	93	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.7	97	9.7	97	0	70-130/30
75-01-4	Vinyl chloride	10	9.6	96	9.5	95	1	70-130/30
108-05-4	Vinyl Acetate	10	9.6	96	9.2	92	4	70-130/30
	m,p-Xylene	20	20.2	101	19.5	98	4	70-130/30
95-47-6	o-Xylene	10	10.3	103	9.9	99	4	70-130/30
1330-20-7	Xylenes (total)	30	30.5	102	29.4	98	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1767-BS	W44120.D	1	10/17/13	DFT	n/a	n/a	VW1767
VW1767-BSD	W44121.D	1	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	110%	109%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1768-BS	W44147.D	1	10/18/13	DFT	n/a	n/a	VW1768
VW1768-BSD	W44148.D	1	10/18/13	DFT	n/a	n/a	VW1768

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
75-15-0	Carbon disulfide	10	8.5	85	8.3	83	2	70-130/30
115-07-1	Propylene	10	8.8	88	8.6	86	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	105%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1771-BS	W44219.D	1	10/22/13	DFT	n/a	n/a	VW1771
VW1771-BSD	W44220.D	1	10/22/13	DFT	n/a	n/a	VW1771

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
115-07-1	Propylene	10	9.0	90	9.2	92	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	109%	109%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-BS	3W36334.D	1	10/07/13	YMH	n/a	n/a	V3W1397
V3W1397-BSD	3W36335.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	11.9	119	11.2	112	6	70-130/30
106-99-0	1,3-Butadiene	10	9.7	97	8.9	89	9	70-130/30
71-43-2	Benzene	10	8.7	87	8.5	85	2	70-130/30
75-27-4	Bromodichloromethane	10	8.3	83	8.2	82	1	70-130/30
75-25-2	Bromoform	10	9.4	94	9.1	91	3	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.4	94	4	70-130/30
593-60-2	Bromoethene	10	9.6	96	9.2	92	4	70-130/30
100-44-7	Benzyl Chloride	10	8.8	88	8.4	84	5	70-130/30
75-15-0	Carbon disulfide	10	10.6	106	10.1	101	5	70-130/30
108-90-7	Chlorobenzene	10	10.3	103	10	100	3	70-130/30
75-00-3	Chloroethane	10	10.2	102	9.5	95	7	70-130/30
67-66-3	Chloroform	10	8.9	89	8.6	86	3	70-130/30
74-87-3	Chloromethane	10	9.9	99	8.8	88	12	70-130/30
107-05-1	3-Chloropropene	10	10.4	104	10	100	4	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	9.7	97	4	70-130/30
56-23-5	Carbon tetrachloride	10	8.4	84	8.2	82	2	70-130/30
110-82-7	Cyclohexane	10	8.9	89	8.7	87	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	8.9	89	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	9.6	96	5	70-130/30
106-93-4	1,2-Dibromoethane	10	10.7	107	10.3	103	4	70-130/30
107-06-2	1,2-Dichloroethane	10	8.3	83	8.1	81	2	70-130/30
78-87-5	1,2-Dichloropropane	10	9.3	93	9.0	90	3	70-130/30
123-91-1	1,4-Dioxane	10	8.9	89	8.6	86	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.0	90	8.6	86	5	70-130/30
124-48-1	Dibromochloromethane	10	10.4	104	10.1	101	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	9.9	99	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.5	95	9.1	91	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.1	101	9.9	99	2	70-130/30
541-73-1	m-Dichlorobenzene	10	9.1	91	9.1	91	0	70-130/30
95-50-1	o-Dichlorobenzene	10	8.9	89	8.5	85	5	70-130/30
106-46-7	p-Dichlorobenzene	10	9.1	91	8.5	85	7	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.2	82	8.0	80	2	70-130/30
64-17-5	Ethanol	10	9.9	99	9.2	92	7	70-130/30
100-41-4	Ethylbenzene	10	10.2	102	10	100	2	70-130/30
141-78-6	Ethyl Acetate	10	10.8	108	10.1	101	7	70-130/30
622-96-8	4-Ethyltoluene	10	8.4	84	8.1	81	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-BS	3W36334.D	1	10/07/13	YMH	n/a	n/a	V3W1397
V3W1397-BSD	3W36335.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.9	99	9.6	96	3	70-130/30
76-14-2	Freon 114	10	9.8	98	9.0	90	9	70-130/30
142-82-5	Heptane	10	9.1	91	9.0	90	1	70-130/30
87-68-3	Hexachlorobutadiene	10	9.9	99	10.2	102	3	70-130/30
110-54-3	Hexane	10	10.1	101	9.8	98	3	70-130/30
591-78-6	2-Hexanone	10	12.8	128	12.2	122	5	70-130/30
67-63-0	Isopropyl Alcohol	10	10.9	109	10.2	102	7	70-130/30
75-09-2	Methylene chloride	10	9.5	95	9.1	91	4	70-130/30
78-93-3	Methyl ethyl ketone	10	11.0	110	10.6	106	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.4	104	10.2	102	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.9	99	9.5	95	4	70-130/30
80-62-6	Methylmethacrylate	10	9.9	99	9.7	97	2	70-130/30
115-07-1	Propylene	10	10.6	106	9.9	99	7	70-130/30
100-42-5	Styrene	10	9.1	91	8.9	89	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.5	85	8.2	82	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.9	99	9.7	97	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.0	90	8.9	89	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.7	87	8.7	87	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.7	97	9.4	94	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.5	95	9.2	92	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.4	94	9.2	92	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.5	105	9.9	99	6	70-130/30
127-18-4	Tetrachloroethylene	10	10.0	100	9.8	98	2	70-130/30
109-99-9	Tetrahydrofuran	10	11.0	110	10.8	108	2	70-130/30
108-88-3	Toluene	10	9.0	90	9.0	90	0	70-130/30
79-01-6	Trichloroethylene	10	8.6	86	8.6	86	0	70-130/30
75-69-4	Trichlorofluoromethane	10	8.5	85	8.2	82	4	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	9.2	92	10	70-130/30
108-05-4	Vinyl Acetate	10	10.5	105	10.0	100	5	70-130/30
	m,p-Xylene	20	20.7	104	20.1	101	3	70-130/30
95-47-6	o-Xylene	10	10.6	106	10.3	103	3	70-130/30
1330-20-7	Xylenes (total)	30	31.3	104	30.4	101	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-BS	3W36334.D	1	10/07/13	YMH	n/a	n/a	V3W1397
V3W1397-BSD	3W36335.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	95%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50050-1DUP	W44125.D	1.55	10/17/13	DFT	n/a	n/a	VW1767
JB50050-1	W44124.D	1.55	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	JB50050-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	363		383		5	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	42.0		43.6		4	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	2.4	J	2.5	J	4	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	ND		ND		nc	12
74-87-3	Chloromethane	ND		ND		nc	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	41.8		43.5		4	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	ND		ND		nc	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	658	E	643	E	2	33
100-41-4	Ethylbenzene	16.1		17.1		6	15
141-78-6	Ethyl Acetate	ND		ND		nc	20
622-96-8	4-Ethyltoluene	3.6		3.8		5	13

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50050-1DUP	W44125.D	1.55	10/17/13	DFT	n/a	n/a	VW1767
JB50050-1	W44124.D	1.55	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	JB50050-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	138		141		2	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	50.0		51.0		2	17
591-78-6	2-Hexanone	ND		ND		nc	20
67-63-0	Isopropyl Alcohol	46.1		46.9		2	26
75-09-2	Methylene chloride	16.1		17.9		11	26
78-93-3	Methyl ethyl ketone	44.3		47.5		7	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	31.8		32.4		2	16
100-42-5	Styrene	ND		ND		nc	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	6.8		7.5		10	19
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	13
540-84-1	2,2,4-Trimethylpentane	7.8		8.0		3	18
75-65-0	Tertiary Butyl Alcohol	12.7		12.7		0	21
127-18-4	Tetrachloroethylene	ND		ND		nc	17
109-99-9	Tetrahydrofuran	ND		ND		nc	20
108-88-3	Toluene	429		453		5	20
79-01-6	Trichloroethylene	ND		ND		nc	13
75-69-4	Trichlorofluoromethane	ND		ND		nc	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	62.1		66.7		7	26
95-47-6	o-Xylene	13.7		14.2		4	20
1330-20-7	Xylenes (total)	75.8		80.9		7	26

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50050-1DUP	W44125.D	1.55	10/17/13	DFT	n/a	n/a	VW1767
JB50050-1	W44124.D	1.55	10/17/13	DFT	n/a	n/a	VW1767

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-2, JB50276-3, JB50276-4, JB50276-5

CAS No.	Surrogate Recoveries	DUP	JB50050-1	Limits
460-00-4	4-Bromofluorobenzene	102%	102%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB49460-1DUP	W44152.D	1	10/18/13	DFT	n/a	n/a	VW1768
JB49460-1 [a]	W44151.D	1	10/18/13	DFT	n/a	n/a	VW1768

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-3, JB50276-4, JB50276-5

CAS No.	Compound	JB49460-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
75-15-0	Carbon disulfide	ND		ND		nc	11
115-07-1	Propylene	ND		ND		nc	16

CAS No.	Surrogate Recoveries	DUP	JB49460-1	Limits
460-00-4	4-Bromofluorobenzene	97%	90%	65-128%

(a) Diluted due to high concentration of non-target compound.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50614-4DUP	W44227.D	1	10/22/13	DFT	n/a	n/a	VW1771
JB50614-4	W44226.D	1	10/22/13	DFT	n/a	n/a	VW1771

The QC reported here applies to the following samples: **Method:** TO-15

JB50276-5

CAS No.	Compound	JB50614-4 ppbv	Q	DUP ppbv	Q	RPD	Limits
115-07-1	Propylene	ND		ND		nc	16

CAS No.	Surrogate Recoveries	DUP	JB50614-4	Limits
460-00-4	4-Bromofluorobenzene	97%	96%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-SCC	3W36346.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here (Summa A936) applies to the following samples: **Method:** TO-15

Batch CP6522 cleaned 10/05/13: JB50276-2(A931), JB50276-3(A943), JB50276-4(A930), JB50276-5(A938)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-SCC	3W36346.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here (Summa A936) applies to the following samples: **Method:** TO-15

Batch CP6522 cleaned 10/05/13: JB50276-2(A931), JB50276-3(A943), JB50276-4(A930), JB50276-5(A938)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-SCC	3W36346.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here (Summa A936) applies to the following samples: **Method:** TO-15

Batch CP6522 cleaned 10/05/13: JB50276-2(A931), JB50276-3(A943), JB50276-4(A930), JB50276-5(A938)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	85%	65-128%

Instrument Performance Check (BFB)

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: V3W1350-BFB
Lab File ID: 3W35037.D
Instrument ID: GCMS3W
Injection Date: 07/23/13
Injection Time: 08:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13945	17.1		Pass
75	30.0 - 66.0% of mass 95	36632	44.8		Pass
95	Base peak, 100% relative abundance	81770	100.0		Pass
96	5.0 - 9.0% of mass 95	5579	6.82		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	81373	99.5		Pass
175	4.0 - 9.01% of mass 174	6376	7.80	(7.84) [a]	Pass
176	93.0 - 101.0% of mass 174	79640	97.4	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	5381	6.58	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1350-ICC1350	3W35039.D	07/23/13	10:20	02:11	Initial cal 10
V3W1350-IC1350	3W35040.D	07/23/13	11:05	02:56	Initial cal 5
V3W1350-IC1350	3W35042.D	07/23/13	12:23	04:14	Initial cal 0.2
ZZZZZZ	3W35042.D	07/23/13	12:23	04:14	(unrelated sample)
V3W1350-IC1350	3W35043.D	07/23/13	13:03	04:54	Initial cal 30
V3W1350-IC1350	3W35044.D	07/23/13	13:43	05:34	Initial cal 20
V3W1350-IC1350	3W35045.D	07/23/13	14:22	06:13	Initial cal 15
V3W1350-IC1350	3W35047.D	07/23/13	17:03	08:54	Initial cal 0.5
V3W1350-IC1350	3W35048.D	07/23/13	17:45	09:36	Initial cal 0.1
ZZZZZZ	3W35048.D	07/23/13	17:45	09:36	(unrelated sample)
V3W1350-IC1350	3W35049.D	07/23/13	18:23	10:14	Initial cal 0.04
ZZZZZZ	3W35049.D	07/23/13	18:23	10:14	(unrelated sample)
V3W1350-IC1350	3W35050.D	07/23/13	19:05	10:56	Initial cal 40
V3W1350-ICV1350	3W35053.D	07/23/13	21:02	12:53	Initial cal verification 10
V3W1350-SCC	3W35055.D	07/23/13	22:21	14:12	Summa Cleaning Certification
V3W1350-SCC	3W35056.D	07/23/13	23:02	14:53	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: V3W1397-BFB
Lab File ID: 3W36332.D
Instrument ID: GCMS3W
Injection Date: 10/07/13
Injection Time: 08:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11858	15.0		Pass
75	30.0 - 66.0% of mass 95	33482	42.5		Pass
95	Base peak, 100% relative abundance	78797	100.0		Pass
96	5.0 - 9.0% of mass 95	5343	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	78016	99.0		Pass
175	4.0 - 9.01% of mass 174	5787	7.34	(7.42) [a]	Pass
176	93.0 - 101.0% of mass 174	76461	97.0	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	5283	6.70	(6.91) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1397-CC1350	3W36333.D	10/07/13	10:15	01:45	Continuing cal 10
V3W1397-BS	3W36334.D	10/07/13	10:57	02:27	Blank Spike
V3W1397-BSD	3W36335.D	10/07/13	11:36	03:06	Blank Spike Duplicate
V3W1397-MB	3W36337.D	10/07/13	12:59	04:29	Method Blank
V3W1397-SCC	3W36338.D	10/07/13	13:40	05:10	Summa Cleaning Certification
ZZZZZZ	3W36340.D	10/07/13	15:23	06:53	(unrelated sample)
ZZZZZZ	3W36341.D	10/07/13	16:02	07:32	(unrelated sample)
ZZZZZZ	3W36343.D	10/07/13	18:06	09:36	(unrelated sample)
ZZZZZZ	3W36344.D	10/07/13	18:46	10:16	(unrelated sample)
ZZZZZZ	3W36345.D	10/07/13	19:24	10:54	(unrelated sample)
V3W1397-SCC	3W36346.D	10/07/13	20:05	11:35	Summa Cleaning Certification
ZZZZZZ	3W36347.D	10/07/13	20:43	12:13	(unrelated sample)
JB49227-2	3W36348.D	10/07/13	21:22	12:52	(used for QC only; not part of job JB50276)
JB49227-2DUP	3W36349.D	10/07/13	22:01	13:31	Duplicate
ZZZZZZ	3W36350.D	10/07/13	22:39	14:09	(unrelated sample)
ZZZZZZ	3W36351.D	10/07/13	23:17	14:47	(unrelated sample)
ZZZZZZ	3W36352.D	10/07/13	23:57	15:27	(unrelated sample)
ZZZZZZ	3W36353.D	10/08/13	00:36	16:06	(unrelated sample)
ZZZZZZ	3W36354.D	10/08/13	01:14	16:44	(unrelated sample)
ZZZZZZ	3W36355.D	10/08/13	01:53	17:23	(unrelated sample)
ZZZZZZ	3W36356.D	10/08/13	02:32	18:02	(unrelated sample)
ZZZZZZ	3W36357.D	10/08/13	03:10	18:40	(unrelated sample)
ZZZZZZ	3W36358.D	10/08/13	03:49	19:19	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1765-BFB
Lab File ID: W44074.D
Instrument ID: GCMSW
Injection Date: 10/14/13
Injection Time: 18:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	28394	14.8		Pass
75	30.0 - 66.0% of mass 95	83464	43.6		Pass
95	Base peak, 100% relative abundance	191446	100.0		Pass
96	5.0 - 9.0% of mass 95	12705	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	189418	98.9		Pass
175	4.0 - 9.01% of mass 174	15253	7.97	(8.05) [a]	Pass
176	93.0 - 101.0% of mass 174	183530	95.9	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	12030	6.28	(6.55) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1765-IC1765	W44075.D	10/14/13	19:02	00:40	Initial cal 0.04
VW1765-IC1765	W44076.D	10/14/13	19:42	01:20	Initial cal 0.1
VW1765-IC1765	W44077.D	10/15/13	08:51	14:29	Initial cal 0.2
VW1765-IC1765	W44078.D	10/15/13	09:30	15:08	Initial cal 0.5
VW1765-IC1765	W44079.D	10/15/13	10:10	15:48	Initial cal 5
VW1765-ICC1765	W44080.D	10/15/13	10:50	16:28	Initial cal 10
VW1765-IC1765	W44084.D	10/15/13	13:28	19:06	Initial cal 40
VW1765-IC1765	W44086.D	10/15/13	14:48	20:26	Initial cal 30
VW1765-IC1765	W44087.D	10/15/13	15:27	21:05	Initial cal 20
VW1765-IC1765	W44088.D	10/15/13	16:15	21:53	Initial cal 15
VW1765-ICV1765	W44089.D	10/15/13	17:11	22:49	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1767-BFB
Lab File ID: W44118.D
Instrument ID: GCMSW
Injection Date: 10/17/13
Injection Time: 08:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	27032	14.5		Pass
75	30.0 - 66.0% of mass 95	80817	43.2		Pass
95	Base peak, 100% relative abundance	187050	100.0		Pass
96	5.0 - 9.0% of mass 95	12026	6.43		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	196437	105.0		Pass
175	4.0 - 9.01% of mass 174	15391	8.23	(7.84) [a]	Pass
176	93.0 - 101.0% of mass 174	190826	102.0	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	12262	6.56	(6.43) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1767-CC1765	W44119.D	10/17/13	09:26	00:40	Continuing cal 10
VW1767-BS	W44120.D	10/17/13	10:06	01:20	Blank Spike
VW1767-BSD	W44121.D	10/17/13	10:46	02:00	Blank Spike Duplicate
VW1767-MB	W44123.D	10/17/13	12:30	03:44	Method Blank
JB50050-1	W44124.D	10/17/13	13:45	04:59	(used for QC only; not part of job JB50276)
JB50050-1DUP	W44125.D	10/17/13	14:25	05:39	Duplicate
ZZZZZZ	W44126.D	10/17/13	15:05	06:19	(unrelated sample)
ZZZZZZ	W44127.D	10/17/13	15:45	06:59	(unrelated sample)
ZZZZZZ	W44128.D	10/17/13	16:25	07:39	(unrelated sample)
ZZZZZZ	W44129.D	10/17/13	17:05	08:19	(unrelated sample)
ZZZZZZ	W44130.D	10/17/13	17:45	08:59	(unrelated sample)
ZZZZZZ	W44131.D	10/17/13	18:25	09:39	(unrelated sample)
ZZZZZZ	W44132.D	10/17/13	19:05	10:19	(unrelated sample)
ZZZZZZ	W44133.D	10/17/13	19:45	10:59	(unrelated sample)
ZZZZZZ	W44134.D	10/17/13	20:25	11:39	(unrelated sample)
ZZZZZZ	W44135.D	10/17/13	21:05	12:19	(unrelated sample)
ZZZZZZ	W44136.D	10/17/13	21:45	12:59	(unrelated sample)
ZZZZZZ	W44137.D	10/17/13	22:25	13:39	(unrelated sample)
ZZZZZZ	W44138.D	10/17/13	23:05	14:19	(unrelated sample)
ZZZZZZ	W44139.D	10/17/13	23:45	14:59	(unrelated sample)
JB50276-2	W44141.D	10/18/13	01:05	16:19	SVP-2
JB50276-3	W44142.D	10/18/13	01:45	16:59	SVP-3
JB50276-4	W44143.D	10/18/13	02:25	17:39	SVP-4
JB50276-5	W44144.D	10/18/13	03:05	18:19	SVP-5

Instrument Performance Check (BFB)

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1768-BFB
Lab File ID: W44145.D
Instrument ID: GCMSW
Injection Date: 10/18/13
Injection Time: 09:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	25074	14.9		Pass
75	30.0 - 66.0% of mass 95	73594	43.8		Pass
95	Base peak, 100% relative abundance	167936	100.0		Pass
96	5.0 - 9.0% of mass 95	11045	6.58		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	170240	101.4		Pass
175	4.0 - 9.01% of mass 174	13039	7.76	(7.66) [a]	Pass
176	93.0 - 101.0% of mass 174	167786	99.9	(98.6) [a]	Pass
177	5.0 - 9.0% of mass 176	10839	6.45	(6.46) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1768-CC1765	W44146.D	10/18/13	09:40	00:40	Continuing cal 10
VW1768-BS	W44147.D	10/18/13	10:20	01:20	Blank Spike
VW1768-BSD	W44148.D	10/18/13	10:59	01:59	Blank Spike Duplicate
VW1768-MB	W44150.D	10/18/13	12:19	03:19	Method Blank
JB49460-1	W44151.D	10/18/13	13:03	04:03	(used for QC only; not part of job JB50276)
JB49460-1DUP	W44152.D	10/18/13	13:43	04:43	Duplicate
ZZZZZZ	W44153.D	10/18/13	14:29	05:29	(unrelated sample)
ZZZZZZ	W44154.D	10/18/13	15:09	06:09	(unrelated sample)
ZZZZZZ	W44155.D	10/18/13	15:48	06:48	(unrelated sample)
ZZZZZZ	W44157.D	10/18/13	17:07	08:07	(unrelated sample)
JB50276-3	W44159.D	10/18/13	18:26	09:26	SVP-3
JB50276-4	W44160.D	10/18/13	19:06	10:06	SVP-4
ZZZZZZ	W44161.D	10/18/13	19:46	10:46	(unrelated sample)
ZZZZZZ	W44162.D	10/18/13	20:26	11:26	(unrelated sample)
ZZZZZZ	W44163.D	10/18/13	21:06	12:06	(unrelated sample)
ZZZZZZ	W44164.D	10/18/13	21:46	12:46	(unrelated sample)
ZZZZZZ	W44165.D	10/18/13	22:26	13:26	(unrelated sample)
ZZZZZZ	W44166.D	10/18/13	23:06	14:06	(unrelated sample)
ZZZZZZ	W44167.D	10/18/13	23:46	14:46	(unrelated sample)
ZZZZZZ	W44168.D	10/19/13	00:26	15:26	(unrelated sample)
ZZZZZZ	W44169.D	10/19/13	01:06	16:06	(unrelated sample)
ZZZZZZ	W44170.D	10/19/13	01:46	16:46	(unrelated sample)
JB50276-5	W44171.D	10/19/13	02:26	17:26	SVP-5

Instrument Performance Check (BFB)

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1771-BFB
Lab File ID: W44217.D
Instrument ID: GCMSW
Injection Date: 10/22/13
Injection Time: 09:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	21754	14.3		Pass
75	30.0 - 66.0% of mass 95	66997	44.2		Pass
95	Base peak, 100% relative abundance	151664	100.0		Pass
96	5.0 - 9.0% of mass 95	9924	6.54		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	164480	108.5		Pass
175	4.0 - 9.01% of mass 174	12813	8.45	(7.79) [a]	Pass
176	93.0 - 101.0% of mass 174	159104	104.9	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	10293	6.79	(6.47) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1771-CC1765	W44218.D	10/22/13	10:25	00:47	Continuing cal 10
VW1771-BS	W44219.D	10/22/13	11:06	01:28	Blank Spike
VW1771-BSD	W44220.D	10/22/13	11:46	02:08	Blank Spike Duplicate
VW1771-MB	W44222.D	10/22/13	13:07	03:29	Method Blank
ZZZZZZ	W44225.D	10/22/13	15:17	05:39	(unrelated sample)
JB50614-4	W44226.D	10/22/13	15:59	06:21	(used for QC only; not part of job JB50276)
JB50614-4DUP	W44227.D	10/22/13	16:40	07:02	Duplicate
JB50276-5	W44228.D	10/22/13	17:20	07:42	SVP-5
ZZZZZZ	W44229.D	10/22/13	18:09	08:31	(unrelated sample)
ZZZZZZ	W44230.D	10/22/13	18:49	09:11	(unrelated sample)
ZZZZZZ	W44231.D	10/22/13	19:28	09:50	(unrelated sample)
ZZZZZZ	W44232.D	10/22/13	20:08	10:30	(unrelated sample)
ZZZZZZ	W44233.D	10/22/13	20:48	11:10	(unrelated sample)
ZZZZZZ	W44234.D	10/22/13	21:29	11:51	(unrelated sample)
ZZZZZZ	W44235.D	10/22/13	22:09	12:31	(unrelated sample)
ZZZZZZ	W44236.D	10/22/13	22:49	13:11	(unrelated sample)
ZZZZZZ	W44237.D	10/22/13	23:29	13:51	(unrelated sample)
ZZZZZZ	W44238.D	10/23/13	00:09	14:31	(unrelated sample)
ZZZZZZ	W44239.D	10/23/13	00:49	15:11	(unrelated sample)
ZZZZZZ	W44240.D	10/23/13	01:29	15:51	(unrelated sample)
VW1771-SCC	W44242.D	10/23/13	02:50	17:12	Summa Cleaning Certification
VW1771-SCC	W44243.D	10/23/13	03:30	17:52	Summa Cleaning Certification

Volatile Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	V3W1397-CC1350	**Injection Date:**	10/07/13
Lab File ID:	3W36333.D	**Injection Time:**	10:15
Instrument ID:	GCMS3W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	110889	7.29	513599	8.88	225012	13.03
Upper Limit [a]	155245	7.62	719039	9.21	315017	13.36
Lower Limit [b]	66533	6.96	308159	8.55	135007	12.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3W1397-BS	142513	7.30	655162	8.89	274630	13.03
V3W1397-BSD	132974	7.30	607823	8.89	259901	13.03
V3W1397-MB	131285	7.30	607940	8.88	227800	13.03
V3W1397-SCC	121048	7.29	557534	8.88	206426	13.03
ZZZZZZ	106083	7.31	598768	8.91	256270	13.04
ZZZZZZ	125148	7.30	605743	8.89	274324	13.03
ZZZZZZ	128358	7.30	599890	8.89	235255	13.03
ZZZZZZ	127511	7.30	604519	8.89	227335	13.03
ZZZZZZ	128894	7.29	602643	8.89	240059	13.03
V3W1397-SCC	123170	7.30	566574	8.89	208260	13.03
ZZZZZZ	124835	7.30	631831	8.90	328388[c]	13.04
JB49227-2	140900	7.29	652020	8.89	252369	13.03
JB49227-2DUP	138329	7.30	645223	8.88	239271	13.03
ZZZZZZ	143371	7.29	658707	8.89	250676	13.03
ZZZZZZ	138965	7.29	634623	8.88	240908	13.03
ZZZZZZ	136721	7.29	619186	8.88	234672	13.03
ZZZZZZ	128449	7.29	592439	8.88	232194	13.03
ZZZZZZ	124555	7.29	580610	8.88	227304	13.03
ZZZZZZ	122749	7.29	572787	8.88	229305	13.03
ZZZZZZ	127439	7.30	570779	8.89	223607	13.03
ZZZZZZ	139992	7.30	641721	8.89	252262	13.03
ZZZZZZ	149318	7.29	671711	8.89	262869	13.03

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.
(c) Outside control limits due to matrix interference.

Volatile Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	VW1767-CC1765	**Injection Date:**	10/17/13
Lab File ID:	W44119.D	**Injection Time:**	09:26
Instrument ID:	GCMSW	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	176136	8.74	885536	10.52	381039	14.88
Upper Limit [a]	246590	9.07	1239750	10.85	533455	15.21
Lower Limit [b]	105682	8.41	531322	10.19	228623	14.55

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1767-BS	177164	8.75	876095	10.52	383931	14.88
VW1767-BSD	178505	8.74	887649	10.52	388104	14.87
VW1767-MB	171073	8.74	829405	10.52	338586	14.87
JB50050-1	182698	8.75	898667	10.52	409881	14.88
JB50050-1DUP	175276	8.74	862468	10.52	394163	14.88
ZZZZZZ	172020	8.74	836575	10.52	340736	14.87
ZZZZZZ	170629	8.74	825330	10.52	339237	14.87
ZZZZZZ	171909	8.74	833417	10.52	337168	14.87
ZZZZZZ	172511	8.74	838173	10.52	342416	14.87
ZZZZZZ	185727	8.74	928797	10.52	362187	14.87
ZZZZZZ	186490	8.74	946057	10.52	378235	14.87
ZZZZZZ	187572	8.75	954296	10.52	394955	14.87
ZZZZZZ	201819	8.74	1004044	10.52	389021	14.87
ZZZZZZ	184943	8.74	920562	10.52	388821	14.87
ZZZZZZ	182866	8.74	905065	10.52	382463	14.87
ZZZZZZ	181559	8.74	905254	10.52	383986	14.87
ZZZZZZ	178593	8.74	896665	10.52	371697	14.87
ZZZZZZ	174681	8.74	879820	10.52	361788	14.87
ZZZZZZ	174337	8.75	887619	10.52	413974	14.88
JB50276-2	193567	8.74	984538	10.52	376610	14.87
JB50276-3	174874	8.74	891226	10.52	380839	14.87
JB50276-4	189711	8.74	963640	10.52	366058	14.87
JB50276-5	192723	8.74	980908	10.52	376473	14.87

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	VW1768-CC1765	**Injection Date:**	10/18/13
Lab File ID:	W44146.D	**Injection Time:**	09:40
Instrument ID:	GCMSW	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	165046	8.74	841466	10.52	355128	14.87
Upper Limit [a]	231064	9.07	1178052	10.85	497179	15.20
Lower Limit [b]	99028	8.41	504880	10.19	213077	14.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1768-BS	165551	8.74	861327	10.52	369568	14.87
VW1768-BSD	170723	8.74	893754	10.52	388294	14.87
VW1768-MB	162914	8.74	837023	10.52	338258	14.87
JB49460-1	180563	8.75	911701	10.52	348411	14.87
JB49460-1DUP	169157	8.74	859658	10.52	332602	14.87
ZZZZZZ	175235	8.75	876219	10.52	345051	14.87
ZZZZZZ	158317	8.74	803551	10.52	315056	14.87
ZZZZZZ	161193	8.74	822059	10.52	335554	14.87
ZZZZZZ	159928	8.74	822781	10.52	391596	14.87
JB50276-3	161243	8.74	823352	10.52	343637	14.87
JB50276-4	175647	8.74	882767	10.52	343181	14.87
ZZZZZZ	163565	8.74	834263	10.52	342019	14.87
ZZZZZZ	161494	8.74	821674	10.52	342049	14.87
ZZZZZZ	161640	8.74	817502	10.52	333734	14.87
ZZZZZZ	160928	8.74	816940	10.51	335532	14.87
ZZZZZZ	163984	8.74	828576	10.52	327485	14.87
ZZZZZZ	158389	8.74	810625	10.52	337690	14.87
ZZZZZZ	157684	8.74	812381	10.51	332037	14.87
ZZZZZZ	161205	8.74	815528	10.52	336004	14.87
ZZZZZZ	161545	8.74	826778	10.51	344567	14.87
ZZZZZZ	176293	8.74	883198	10.52	335514	14.87
JB50276-5	172988	8.74	875887	10.52	344833	14.87

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	VW1771-CC1765	**Injection Date:**	10/22/13
Lab File ID:	W44218.D	**Injection Time:**	10:25
Instrument ID:	GCMSW	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	182447	8.74	892971	10.52	381673	14.87
Upper Limit [a]	255426	9.07	1250159	10.85	534342	15.20
Lower Limit [b]	109468	8.41	535783	10.19	229004	14.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1771-BS	172572	8.73	861871	10.51	367342	14.86
VW1771-BSD	165805	8.73	860695	10.51	366018	14.87
VW1771-MB	166941	8.72	817979	10.50	325687	14.86
ZZZZZZ	162449	8.73	787781	10.50	313921	14.86
JB50614-4	154780	8.73	746803	10.50	291212	14.86
JB50614-4DUP	164237	8.72	784812	10.50	309146	14.86
JB50276-5	173455	8.73	829990	10.51	313290	14.86
ZZZZZZ	168122	8.73	810783	10.51	323900	14.86
ZZZZZZ	166785	8.73	817023	10.50	329591	14.86
ZZZZZZ	164514	8.73	802537	10.51	317642	14.86
ZZZZZZ	164376	8.72	797126	10.50	316908	14.86
ZZZZZZ	162499	8.72	797205	10.50	317196	14.86
ZZZZZZ	165250	8.73	801811	10.50	320352	14.86
ZZZZZZ	164371	8.72	810540	10.50	322102	14.86
ZZZZZZ	165308	8.72	803577	10.50	329033	14.86
ZZZZZZ	166660	8.72	821405	10.50	326772	14.86
ZZZZZZ	167032	8.72	806277	10.50	321913	14.86
ZZZZZZ	167269	8.72	810651	10.50	317450	14.86
ZZZZZZ	165883	8.72	806063	10.50	320860	14.86
VW1771-SCC	160211	8.72	779353	10.50	309265	14.86
VW1771-SCC	157209	8.72	744764	10.50	293675	14.86

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.36	0.719	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.36	0.760	ok	0.759	0.699-0.819
Acetonitrile	5.17	7.36	0.702	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.65	8.96	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.97	13.10	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.55	8.96	1.066	ok	1.065	1.005-1.125
Bromoform	13.81	13.10	1.054	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
n-Butane	4.72	7.36	0.641	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.26	13.10	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.55	13.10	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.21	13.10	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.15	13.10	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.35	7.36	0.591	ok	0.589	0.529-0.649
Chloroethane	4.94	7.36	0.671	ok	0.671	0.611-0.731
Chloroform	7.45	7.36	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.42	13.10	1.177	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.36	1.192	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.96	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.04	7.36	1.092	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.96	1.041	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.96	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.36	0.599	ok	0.598	0.538-0.658
Dibromochloromethane	11.74	13.10	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.96	1.045	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.25	7.36	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.39	8.96	1.160	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.41	13.10	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.50	13.10	1.260	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.89	8.96	1.215	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.36	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.99	8.96	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.36	1.086	ok	1.084	1.024-1.144
Ethanol	5.05	7.36	0.686	ok	0.687	0.627-0.747
Ethylbenzene	13.52	13.10	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.37	7.36	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.32	7.36	0.587	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.10	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.74	13.10	1.354	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.58	13.10	0.884	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.45	7.36	0.740	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.10	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.36	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.88	7.36	0.935	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.39	8.96	1.160	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.36	0.898	ok	0.900	0.840-0.960
Methylmethacrylate	9.77	8.96	1.090	ok	1.091	1.031-1.151
Naphthalene	19.13	13.10	1.460	ok	1.461	1.401-1.521
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.45	13.10	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.36	1.120	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.24	13.10	1.087	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.10	1.450	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.22	13.10	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.72	13.10	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.96	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.80	7.36	0.788	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.36	1.056	ok	1.057	0.997-1.117
Toluene	11.30	8.96	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.56	8.96	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.69	7.36	0.909	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.10	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.10	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.36	0.755	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	113224	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	514163	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	253225	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.36	0.719	ok	0.721	0.661-0.781
Acrylonitrile	5.58	7.36	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.17	7.36	0.702	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.64	8.96	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.97	13.10	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.54	8.96	1.065	ok	1.065	1.005-1.125
Bromoform	13.80	13.10	1.053	ok	1.054	0.994-1.114
Bromomethane	4.85	7.36	0.659	ok	0.659	0.599-0.719
Bromoethene	5.14	7.36	0.698	ok	0.699	0.639-0.759
n-Butane	4.71	7.36	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.26	13.10	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.54	13.10	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.20	13.10	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.10	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.36	0.590	ok	0.589	0.529-0.649
Chloroethane	4.94	7.36	0.671	ok	0.671	0.611-0.731
Chloroform	7.44	7.36	1.011	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.41	13.10	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.36	1.192	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.96	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.59	7.36	0.895	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.76	7.36	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.32	8.96	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.96	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.40	7.36	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.74	13.10	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.96	1.044	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.96	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.40	13.10	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.49	13.10	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.88	8.96	1.214	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.36	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.99	8.96	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.98	7.36	1.084	ok	1.084	1.024-1.144
Ethanol	5.04	7.36	0.685	ok	0.687	0.627-0.747
Ethylbenzene	13.51	13.10	1.031	ok	1.032	0.972-1.092
Ethyl Acetate	7.38	7.36	1.003	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.20	7.36	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.31	7.36	0.586	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.10	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.73	13.10	1.353	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.57	13.10	0.883	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.45	7.36	0.740	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.10	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.36	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.88	7.36	0.935	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.39	8.96	1.160	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.36	0.898	ok	0.900	0.840-0.960
Methylmethacrylate	9.77	8.96	1.090	ok	1.091	1.031-1.151
Naphthalene	19.13	13.10	1.460	ok	1.461	1.401-1.521
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.44	13.10	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.36	1.120	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.23	13.10	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	18.99	13.10	1.450	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.10	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.10	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.96	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.82	7.36	0.791	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.36	1.056	ok	1.057	0.997-1.117
Toluene	11.30	8.96	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.56	8.96	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.70	7.36	0.910	ok	0.911	0.851-0.971
m,p-Xylene	13.70	13.10	1.046	ok	1.046	0.986-1.106
o-Xylene	14.21	13.10	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	115384	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	516654	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	253999	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.35	7.36	0.727	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.36	0.760	ok	0.759	0.699-0.819
Acetonitrile	5.20	7.36	0.707	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.64	8.95	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.96	13.09	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.53	8.95	1.065	ok	1.065	1.005-1.125
Bromoform	13.79	13.09	1.053	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
n-Butane	4.71	7.36	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.09	1.254	ok	1.253	1.193-1.313
n-Butylbenzene	17.25	13.09	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.54	13.09	1.264	ok	1.263	1.203-1.323
tert-Butylbenzene	16.20	13.09	1.238	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.09	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.36	0.590	ok	0.589	0.529-0.649
Chloroethane	4.93	7.36	0.670	ok	0.671	0.611-0.731
Chloroform	7.43	7.36	1.010	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.40	13.09	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.76	7.36	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.95	0.984	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.76	7.36	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.09	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.95	1.042	ok	1.041	0.981-1.101
1,4-Dioxane	9.80	8.95	1.095	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.36	0.599	ok	0.598	0.538-0.658
Dibromochloromethane	11.73	13.09	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.95	1.045	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.95	1.160	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.40	13.09	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.09	1.293	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.49	13.09	1.260	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.88	8.95	1.216	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.34	7.36	0.997	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.98	8.95	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.98	7.36	1.084	ok	1.084	1.024-1.144
Ethanol	5.10	7.36	0.693	ok	0.687	0.627-0.747
Ethylbenzene	13.51	13.09	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.42	7.36	1.008	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.09	1.193	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.32	7.36	0.587	ok	0.586	0.526-0.646
Heptane	9.75	8.95	1.089	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.56	13.09	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.74	13.09	1.355	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.64	13.09	0.889	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.09	1.135	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.51	7.36	0.749	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.09	1.279	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.36	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.94	7.36	0.943	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.46	8.95	1.169	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.65	7.36	0.904	ok	0.900	0.840-0.960
Methylmethacrylate	9.80	8.95	1.095	ok	1.091	1.031-1.151
Naphthalene	19.15	13.09	1.463	ok	1.461	1.401-1.521
Nonane	14.40	13.09	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.09	0.934	ok	0.933	0.873-0.993
Pentane	5.54	7.36	0.753	ok	0.754	0.694-0.814
n-Propylbenzene	15.45	13.09	1.180	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.09	1.078	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.23	7.36	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.09	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.22	13.09	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.95	1.234	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.09	1.451	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.35	13.09	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.09	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.09	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.95	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.89	7.36	0.800	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.09	0.949	ok	0.948	0.888-1.008
Tetrahydrofuran	7.85	7.36	1.067	ok	1.057	0.997-1.117
Toluene	11.30	8.95	1.263	ok	1.261	1.201-1.321
Trichloroethylene	9.55	8.95	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.72	7.36	0.913	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.09	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.09	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.95	1.089	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	110932	ok	109144	65486-152802
1,4-Difluorobenzene	8.95	ok	8.96	8.63-9.29	471475	ok	491685	295011-688359
Chlorobenzene-D5	13.09	ok	13.11	12.78-13.44	211383	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.38	0.717	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.38	0.757	ok	0.759	0.699-0.819
Acetonitrile	5.18	7.38	0.702	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.38	0.636	ok	0.636	0.576-0.696
Benzene	8.66	8.97	0.965	ok	0.964	0.904-1.024
Bromobenzene	15.00	13.12	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.56	8.97	1.066	ok	1.065	1.005-1.125
Bromoform	13.84	13.12	1.055	ok	1.054	0.994-1.114
Bromomethane	4.86	7.38	0.659	ok	0.659	0.599-0.719
Bromoethene	5.15	7.38	0.698	ok	0.699	0.639-0.759
n-Butane	4.72	7.38	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.44	13.12	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.28	13.12	1.317	ok	1.317	1.257-1.377
sec-Butylbenzene	16.57	13.12	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.23	13.12	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.05	7.38	0.820	ok	0.820	0.760-0.880
Chlorobenzene	13.17	13.12	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.38	0.588	ok	0.589	0.529-0.649
Chloroethane	4.95	7.38	0.671	ok	0.671	0.611-0.731
Chloroform	7.47	7.38	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.38	0.610	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.38	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	15.43	13.12	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.78	7.38	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.97	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.61	7.38	0.896	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.38	0.782	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.97	13.12	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.05	7.38	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.35	8.97	1.042	ok	1.041	0.981-1.101
1,4-Dioxane	9.64	8.97	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.38	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.77	13.12	0.897	ok	0.896	0.836-0.956
Dibromomethane	9.38	8.97	1.046	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.45	7.38	0.874	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.26	7.38	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.40	8.97	1.159	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.43	13.12	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.95	13.12	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.52	13.12	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.91	8.97	1.216	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.32	7.38	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.00	8.97	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	8.00	7.38	1.084	ok	1.084	1.024-1.144
Ethanol	5.06	7.38	0.686	ok	0.687	0.627-0.747
Ethylbenzene	13.54	13.12	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.39	7.38	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.65	13.12	1.193	ok	1.193	1.133-1.253
Freon 113	5.99	7.38	0.812	ok	0.813	0.753-0.873
Freon 114	4.55	7.38	0.617	ok	0.618	0.558-0.678
Freon 123	5.21	7.38	0.706	ok	0.707	0.647-0.767
Freon 123A	5.25	7.38	0.711	ok	0.712	0.652-0.772
Freon 152A	4.32	7.38	0.585	ok	0.586	0.526-0.646
Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.12	1.492	ok	1.493	1.433-1.553
Hexachloroethane	17.75	13.12	1.353	ok	1.354	1.294-1.414
Hexane	7.29	7.38	0.988	ok	0.990	0.930-1.050
2-Hexanone	11.60	13.12	0.884	ok	0.885	0.825-0.945
Iodomethane	5.73	7.38	0.776	ok	0.778	0.718-0.838
Isopropylbenzene	14.88	13.12	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.48	7.38	0.743	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.76	13.12	1.277	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.38	0.794	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.89	7.38	0.934	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.41	8.97	1.161	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.38	0.896	ok	0.900	0.840-0.960
Methylmethacrylate	9.79	8.97	1.091	ok	1.091	1.031-1.151
Naphthalene	19.15	13.12	1.460	ok	1.461	1.401-1.521
Nonane	14.42	13.12	1.099	ok	1.100	1.040-1.160
Octane	12.23	13.12	0.932	ok	0.933	0.873-0.993
Pentane	5.56	7.38	0.753	ok	0.754	0.694-0.814
n-Propylbenzene	15.47	13.12	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.38	0.591	ok	0.592	0.532-0.652
Styrene	14.14	13.12	1.078	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.38	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.15	13.12	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.27	13.12	1.088	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.07	8.97	1.234	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.01	13.12	1.449	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.39	13.12	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.24	13.12	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.75	13.12	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.51	8.97	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.83	7.38	0.790	ok	0.793	0.733-0.853
Tetrachloroethylene	12.44	13.12	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.38	1.053	ok	1.057	0.997-1.117
Toluene	11.32	8.97	1.262	ok	1.261	1.201-1.321
Trichloroethylene	9.58	8.97	1.068	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.38	0.729	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.38	0.626	ok	0.627	0.567-0.687
Vinyl Acetate	6.71	7.38	0.909	ok	0.911	0.851-0.971
m,p-Xylene	13.73	13.12	1.046	ok	1.046	0.986-1.106
o-Xylene	14.24	13.12	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.38	0.753	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.38	ok	7.37	7.04-7.70	109141	ok	109144	65486-152802
1,4-Difluorobenzene	8.97	ok	8.96	8.63-9.29	508144	ok	491685	295011-688359
Chlorobenzene-D5	13.12	ok	13.11	12.78-13.44	275918	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.37	0.718	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.37	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.18	7.37	0.703	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.37	0.636	ok	0.636	0.576-0.696
Benzene	8.65	8.97	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.98	13.11	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.56	8.97	1.066	ok	1.065	1.005-1.125
Bromoform	13.83	13.11	1.055	ok	1.054	0.994-1.114
Bromomethane	4.86	7.37	0.659	ok	0.659	0.599-0.719
Bromoethene	5.15	7.37	0.699	ok	0.699	0.639-0.759
n-Butane	4.72	7.37	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.43	13.11	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.27	13.11	1.317	ok	1.317	1.257-1.377
sec-Butylbenzene	16.55	13.11	1.262	ok	1.263	1.203-1.323
tert-Butylbenzene	16.22	13.11	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.37	0.820	ok	0.820	0.760-0.880
Chlorobenzene	13.16	13.11	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.37	0.589	ok	0.589	0.529-0.649
Chloroethane	4.94	7.37	0.670	ok	0.671	0.611-0.731
Chloroform	7.46	7.37	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.37	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.37	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	15.43	13.11	1.177	ok	1.176	1.116-1.236
Carbon tetrachloride	8.78	7.37	1.191	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.97	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.37	0.896	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.37	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.96	13.11	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.05	7.37	1.092	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.34	8.97	1.041	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.97	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.37	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.75	13.11	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.97	1.043	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.37	0.874	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.26	7.37	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.40	8.97	1.159	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.43	13.11	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.94	13.11	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.51	13.11	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.90	8.97	1.215	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.37	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.00	8.97	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.37	1.084	ok	1.084	1.024-1.144
Ethanol	5.04	7.37	0.684	ok	0.687	0.627-0.747
Ethylbenzene	13.53	13.11	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.39	7.37	1.003	ok	1.003	0.943-1.063
4-Ethyltoluene	15.64	13.11	1.193	ok	1.193	1.133-1.253
Freon 113	5.99	7.37	0.813	ok	0.813	0.753-0.873
Freon 114	4.55	7.37	0.617	ok	0.618	0.558-0.678
Freon 123	5.21	7.37	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.37	0.711	ok	0.712	0.652-0.772
Freon 152A	4.32	7.37	0.586	ok	0.586	0.526-0.646
Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.11	1.493	ok	1.493	1.433-1.553
Hexachloroethane	17.75	13.11	1.354	ok	1.354	1.294-1.414
Hexane	7.30	7.37	0.991	ok	0.990	0.930-1.050
2-Hexanone	11.58	13.11	0.883	ok	0.885	0.825-0.945
Iodomethane	5.73	7.37	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.88	13.11	1.135	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.46	7.37	0.741	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.76	13.11	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.37	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.89	7.37	0.935	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.40	8.97	1.159	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.37	0.897	ok	0.900	0.840-0.960
Methylmethacrylate	9.78	8.97	1.090	ok	1.091	1.031-1.151
Naphthalene	19.14	13.11	1.460	ok	1.461	1.401-1.521
Nonane	14.42	13.11	1.100	ok	1.100	1.040-1.160
Octane	12.23	13.11	0.933	ok	0.933	0.873-0.993
Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.47	13.11	1.180	ok	1.179	1.119-1.239
Propylene	4.36	7.37	0.592	ok	0.592	0.532-0.652
Styrene	14.13	13.11	1.078	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.37	1.119	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.14	13.11	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.25	13.11	1.087	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.06	8.97	1.233	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.11	1.449	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.38	13.11	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.23	13.11	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.74	13.11	1.201	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.97	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.82	7.37	0.790	ok	0.793	0.733-0.853
Tetrachloroethylene	12.43	13.11	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.37	1.054	ok	1.057	0.997-1.117
Toluene	11.31	8.97	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.57	8.97	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.37	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.37	0.627	ok	0.627	0.567-0.687
Vinyl Acetate	6.71	7.37	0.910	ok	0.911	0.851-0.971
m,p-Xylene	13.72	13.11	1.047	ok	1.046	0.986-1.106
o-Xylene	14.22	13.11	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.77	8.97	1.089	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.37	7.04-7.70	114945	ok	109144	65486-152802
1,4-Difluorobenzene	8.97	ok	8.96	8.63-9.29	542685	ok	491685	295011-688359
Chlorobenzene-D5	13.11	ok	13.11	12.78-13.44	276531	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.37	0.718	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.37	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.17	7.37	0.701	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.37	0.636	ok	0.636	0.576-0.696
Benzene	8.65	8.97	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.98	13.11	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.55	8.97	1.065	ok	1.065	1.005-1.125
Bromoform	13.82	13.11	1.054	ok	1.054	0.994-1.114
Bromomethane	4.86	7.37	0.659	ok	0.659	0.599-0.719
Bromoethene	5.15	7.37	0.699	ok	0.699	0.639-0.759
n-Butane	4.72	7.37	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.43	13.11	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.27	13.11	1.317	ok	1.317	1.257-1.377
sec-Butylbenzene	16.55	13.11	1.262	ok	1.263	1.203-1.323
tert-Butylbenzene	16.21	13.11	1.236	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.37	0.820	ok	0.820	0.760-0.880
Chlorobenzene	13.15	13.11	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.37	0.589	ok	0.589	0.529-0.649
Chloroethane	4.94	7.37	0.670	ok	0.671	0.611-0.731
Chloroform	7.46	7.37	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.37	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.37	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	15.42	13.11	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.37	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.97	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.37	0.896	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.37	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.95	13.11	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.04	7.37	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.97	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.97	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.37	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.75	13.11	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.97	1.043	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.37	0.874	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.25	7.37	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.39	8.97	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.42	13.11	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.94	13.11	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.51	13.11	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.90	8.97	1.215	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.37	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.00	8.97	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.37	1.084	ok	1.084	1.024-1.144
Ethanol	5.05	7.37	0.685	ok	0.687	0.627-0.747
Ethylbenzene	13.52	13.11	1.031	ok	1.032	0.972-1.092
Ethyl Acetate	7.38	7.37	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.63	13.11	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.37	0.813	ok	0.813	0.753-0.873
Freon 114	4.55	7.37	0.617	ok	0.618	0.558-0.678
Freon 123	5.21	7.37	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.37	0.711	ok	0.712	0.652-0.772
Freon 152A	4.32	7.37	0.586	ok	0.586	0.526-0.646
Heptane	9.75	8.97	1.087	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.11	1.493	ok	1.493	1.433-1.553
Hexachloroethane	17.75	13.11	1.354	ok	1.354	1.294-1.414
Hexane	7.30	7.37	0.991	ok	0.990	0.930-1.050
2-Hexanone	11.58	13.11	0.883	ok	0.885	0.825-0.945
Iodomethane	5.73	7.37	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.87	13.11	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.46	7.37	0.741	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.75	13.11	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.37	0.794	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.88	7.37	0.934	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.39	8.97	1.158	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.37	0.897	ok	0.900	0.840-0.960
Methylmethacrylate	9.78	8.97	1.090	ok	1.091	1.031-1.151
Naphthalene	19.14	13.11	1.460	ok	1.461	1.401-1.521
Nonane	14.41	13.11	1.099	ok	1.100	1.040-1.160
Octane	12.22	13.11	0.932	ok	0.933	0.873-0.993
Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.46	13.11	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.37	0.592	ok	0.592	0.532-0.652
Styrene	14.12	13.11	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.37	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.14	13.11	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.25	13.11	1.087	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.05	8.97	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.11	1.449	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.38	13.11	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.23	13.11	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.73	13.11	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.97	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.82	7.37	0.790	ok	0.793	0.733-0.853
Tetrachloroethylene	12.43	13.11	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.37	1.054	ok	1.057	0.997-1.117
Toluene	11.30	8.97	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.57	8.97	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.37	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.37	0.627	ok	0.627	0.567-0.687
Vinyl Acetate	6.71	7.37	0.910	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.11	1.046	ok	1.046	0.986-1.106
o-Xylene	14.22	13.11	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.37	7.04-7.70	116094	ok	109144	65486-152802
1,4-Difluorobenzene	8.97	ok	8.96	8.63-9.29	544592	ok	491685	295011-688359
Chlorobenzene-D5	13.11	ok	13.11	12.78-13.44	277708	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.34	7.36	0.726	ok	0.721	0.661-0.781
Acrylonitrile	5.60	7.36	0.761	ok	0.759	0.699-0.819
Acetonitrile	5.20	7.36	0.707	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.64	8.96	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.97	13.10	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.54	8.96	1.065	ok	1.065	1.005-1.125
Bromoform	13.80	13.10	1.053	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
n-Butane	4.72	7.36	0.641	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.27	13.10	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.54	13.10	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.21	13.10	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.10	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.36	0.590	ok	0.589	0.529-0.649
Chloroethane	4.95	7.36	0.673	ok	0.671	0.611-0.731
Chloroform	7.44	7.36	1.011	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.42	13.10	1.177	ok	1.176	1.116-1.236
Carbon tetrachloride	8.76	7.36	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.80	8.96	0.982	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.32	8.96	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.75	8.96	1.088	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.40	7.36	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.73	13.10	0.895	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.96	1.044	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.96	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.41	13.10	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.50	13.10	1.260	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.88	8.96	1.214	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.33	7.36	0.996	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.99	8.96	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.36	1.086	ok	1.084	1.024-1.144
Ethanol	5.10	7.36	0.693	ok	0.687	0.627-0.747
Ethylbenzene	13.52	13.10	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.42	7.36	1.008	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.31	7.36	0.586	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.10	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.74	13.10	1.354	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.63	13.10	0.888	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.51	7.36	0.749	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.10	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.36	0.796	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.92	7.36	0.940	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.44	8.96	1.165	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.64	7.36	0.902	ok	0.900	0.840-0.960
Methylmethacrylate	9.79	8.96	1.093	ok	1.091	1.031-1.151
Naphthalene	19.15	13.10	1.462	ok	1.461	1.401-1.521
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.45	13.10	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.36	1.120	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.23	13.10	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.10	1.450	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.10	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.10	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.96	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.88	7.36	0.799	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.85	7.36	1.067	ok	1.057	0.997-1.117
Toluene	11.29	8.96	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.56	8.96	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.37	7.36	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.72	7.36	0.913	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.10	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.10	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	106171	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	466196	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	200492	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.34	7.36	0.726	ok	0.721	0.661-0.781
Benzene	8.63	8.96	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.96	13.09	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.53	8.96	1.064	ok	1.065	1.005-1.125
Bromoform	13.80	13.09	1.054	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.15	13.09	1.005	ok	1.004	0.944-1.064
Chloroethane	4.94	7.36	0.671	ok	0.671	0.611-0.731
Chloroform	7.44	7.36	1.011	ok	1.011	0.951-1.071
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.40	13.09	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.36	1.192	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.96	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.09	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.96	1.041	ok	1.041	0.981-1.101
Dichlorodifluoromethane	4.40	7.36	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.74	13.09	0.897	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.96	1.044	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.45	7.36	0.876	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.39	8.96	1.160	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.41	13.09	1.254	ok	1.253	1.193-1.313
o-Dichlorobenzene	16.93	13.09	1.293	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.51	13.09	1.261	ok	1.259	1.199-1.319
2,4-Dimethylpentane	7.99	7.36	1.086	ok	1.084	1.024-1.144
Ethylbenzene	13.51	13.09	1.032	ok	1.032	0.972-1.092
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.33	7.36	0.588	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.09	1.495	ok	1.493	1.433-1.553

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
Iodomethane	5.72	7.36	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.85	13.09	1.134	ok	1.134	1.074-1.194
Methyl Tert Butyl Ether	6.67	7.36	0.906	ok	0.900	0.840-0.960
Nonane	14.41	13.09	1.101	ok	1.100	1.040-1.160
Octane	12.22	13.09	0.934	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.43	13.09	1.179	ok	1.179	1.119-1.239
1,1,1-Trichloroethane	8.23	7.36	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.09	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.24	13.09	1.088	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	18.99	13.09	1.451	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.09	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.09	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.72	13.09	1.201	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.96	1.059	ok	1.060	1.000-1.120
Tetrachloroethylene	12.42	13.09	0.949	ok	0.948	0.888-1.008
Toluene	11.30	8.96	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.55	8.96	1.066	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
m,p-Xylene	13.70	13.09	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.09	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	100679	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	430193	ok	491685	295011-688359
Chlorobenzene-D5	13.09	ok	13.11	12.78-13.44	192761	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Benzene	8.64	8.96	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.96	13.10	1.142	ok	1.143	1.083-1.203
Bromodichloromethane	9.54	8.96	1.065	ok	1.065	1.005-1.125
Bromoform	13.80	13.10	1.053	ok	1.054	0.994-1.114
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.10	1.003	ok	1.004	0.944-1.064
Chloroform	7.43	7.36	1.010	ok	1.011	0.951-1.071
2-Chlorotoluene	15.41	13.10	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.76	7.36	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.80	8.96	0.982	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.58	7.36	0.894	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.93	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.04	7.36	1.092	ok	1.091	1.031-1.151
Dibromochloromethane	11.73	13.10	0.895	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.96	1.045	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.96	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.40	13.10	1.252	ok	1.253	1.193-1.313
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.50	13.10	1.260	ok	1.259	1.199-1.319
Ethylbenzene	13.52	13.10	1.032	ok	1.032	0.972-1.092
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.20	7.36	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Heptane	9.74	8.96	1.087	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.55	13.10	1.492	ok	1.493	1.433-1.553
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Methyl Tert Butyl Ether	6.69	7.36	0.909	ok	0.900	0.840-0.960
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.45	13.10	1.179	ok	1.179	1.119-1.239
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.23	7.36	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.23	13.10	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.10	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.10	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.96	1.059	ok	1.060	1.000-1.120
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Toluene	11.29	8.96	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.55	8.96	1.066	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
m,p-Xylene	13.71	13.10	1.047	ok	1.046	0.986-1.106
o-Xylene	14.20	13.10	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.36	0.755	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	102105	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	435104	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	192155	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.30	7.39	0.717	ok	0.721	0.661-0.781
Acrylonitrile	5.60	7.39	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.18	7.39	0.701	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.39	0.635	ok	0.636	0.576-0.696
Benzene	8.66	8.99	0.963	ok	0.964	0.904-1.024
Bromobenzene	15.01	13.14	1.142	ok	1.143	1.083-1.203
Bromodichloromethane	9.58	8.99	1.066	ok	1.065	1.005-1.125
Bromoform	13.86	13.14	1.055	ok	1.054	0.994-1.114
Bromomethane	4.86	7.39	0.658	ok	0.659	0.599-0.719
Bromoethene	5.15	7.39	0.697	ok	0.699	0.639-0.759
n-Butane	4.72	7.39	0.639	ok	0.640	0.580-0.700
Benzyl Chloride	16.46	13.14	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.29	13.14	1.316	ok	1.317	1.257-1.377
sec-Butylbenzene	16.58	13.14	1.262	ok	1.263	1.203-1.323
tert-Butylbenzene	16.24	13.14	1.236	ok	1.237	1.177-1.297
Carbon disulfide	6.05	7.39	0.819	ok	0.820	0.760-0.880
Chlorobenzene	13.18	13.14	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.39	0.587	ok	0.589	0.529-0.649
Chloroethane	4.95	7.39	0.670	ok	0.671	0.611-0.731
Chloroform	7.48	7.39	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.39	0.609	ok	0.611	0.551-0.671
3-Chloropropene	5.92	7.39	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	15.45	13.14	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.79	7.39	1.189	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.99	0.981	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.61	7.39	0.894	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.39	0.781	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.99	13.14	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.06	7.39	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.35	8.99	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.66	8.99	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.40	7.39	0.595	ok	0.598	0.538-0.658
Dibromochloromethane	11.78	13.14	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.38	8.99	1.043	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.45	7.39	0.873	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.26	7.39	0.982	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.41	8.99	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.45	13.14	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.96	13.14	1.291	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.54	13.14	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.93	8.99	1.216	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.33	7.39	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.01	8.99	1.002	ok	1.003	0.943-1.063
2,4-Dimethylpentane	8.00	7.39	1.083	ok	1.084	1.024-1.144
Ethanol	5.07	7.39	0.686	ok	0.687	0.627-0.747
Ethylbenzene	13.55	13.14	1.031	ok	1.032	0.972-1.092
Ethyl Acetate	7.40	7.39	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.66	13.14	1.192	ok	1.193	1.133-1.253
Freon 113	6.00	7.39	0.812	ok	0.813	0.753-0.873
Freon 114	4.55	7.39	0.616	ok	0.618	0.558-0.678
Freon 123	5.21	7.39	0.705	ok	0.707	0.647-0.767
Freon 123A	5.25	7.39	0.710	ok	0.712	0.652-0.772
Freon 152A	4.31	7.39	0.583	ok	0.586	0.526-0.646
Heptane	9.77	8.99	1.087	ok	1.088	1.028-1.148
Hexachloroethane	17.76	13.14	1.352	ok	1.354	1.294-1.414
Hexane	7.30	7.39	0.988	ok	0.990	0.930-1.050
2-Hexanone	11.61	13.14	0.884	ok	0.885	0.825-0.945
Iodomethane	5.74	7.39	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.89	13.14	1.133	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.49	7.39	0.743	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.77	13.14	1.276	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.39	0.793	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.90	7.39	0.934	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.43	8.99	1.160	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.39	0.894	ok	0.900	0.840-0.960
Methylmethacrylate	9.81	8.99	1.091	ok	1.091	1.031-1.151
Nonane	14.43	13.14	1.098	ok	1.100	1.040-1.160
Octane	12.24	13.14	0.932	ok	0.933	0.873-0.993
Pentane	5.56	7.39	0.752	ok	0.754	0.694-0.814
n-Propylbenzene	15.48	13.14	1.178	ok	1.179	1.119-1.239
Propylene	4.36	7.39	0.590	ok	0.592	0.532-0.652
Styrene	14.15	13.14	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.26	7.39	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.16	13.14	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.29	13.14	1.088	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.09	8.99	1.234	ok	1.233	1.173-1.293

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,2,3-Trichloropropane	14.41	13.14	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.26	13.14	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.76	13.14	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.52	8.99	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.86	7.39	0.793	ok	0.793	0.733-0.853
Tetrachloroethylene	12.45	13.14	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.78	7.39	1.053	ok	1.057	0.997-1.117
Toluene	11.33	8.99	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.59	8.99	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.39	0.728	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.39	0.625	ok	0.627	0.567-0.687
Vinyl Acetate	6.72	7.39	0.909	ok	0.911	0.851-0.971
m,p-Xylene	13.74	13.14	1.046	ok	1.046	0.986-1.106
o-Xylene	14.25	13.14	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.39	0.752	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.77	8.99	1.087	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.39	ok	7.37	7.04-7.70	102769	ok	109144	65486-152802
1,4-Difluorobenzene	8.99	ok	8.96	8.63-9.29	487642	ok	491685	295011-688359
Chlorobenzene-D5	13.14	ok	13.11	12.78-13.44	270229	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Trichloroethylene	11.22	10.52	1.067	ok	1.066	1.006-1.126

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	208494	ok	212828	127697-297959
1,4-Difluorobenzene	10.52	ok	10.53	10.20-10.86	1033789	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	422361	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3-Butadiene	5.22	8.75	0.597	ok	0.596	0.536-0.656
Benzene	10.23	10.52	0.972	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.18	10.52	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.46	8.75	0.624	ok	0.624	0.564-0.684
Bromoethene	5.89	8.75	0.673	ok	0.674	0.614-0.734
Benzyl Chloride	18.11	14.88	1.217	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.75	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chloroethane	5.59	8.75	0.639	ok	0.640	0.580-0.700
Chloroform	8.85	8.75	1.011	ok	1.013	0.953-1.073
3-Chloropropene	6.96	8.75	0.795	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.75	1.184	ok	1.183	1.123-1.243
1,1-Dichloroethane	7.85	8.75	0.897	ok	0.898	0.838-0.958
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.75	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	10.99	10.52	1.045	ok	1.045	0.985-1.105
Dichlorodifluoromethane	4.76	8.75	0.544	ok	0.544	0.484-0.604
Dibromomethane	10.97	10.52	1.043	ok	1.043	0.983-1.103
cis-1,3-Dichloropropene	12.05	10.52	1.145	ok	1.145	1.085-1.205
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.57	10.52	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.77	8.75	1.002	ok	1.001	0.941-1.061
2,4-Dimethylpentane	9.57	8.75	1.094	ok	1.093	1.033-1.153
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.75	1.006	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.75	0.809	ok	0.809	0.749-0.869
Freon 114	4.99	8.75	0.570	ok	0.570	0.510-0.630
Freon 123	5.99	8.75	0.685	ok	0.685	0.625-0.745
Freon 123A	6.04	8.75	0.690	ok	0.691	0.631-0.751

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Iodomethane	6.72	8.75	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
p-Isopropyltoluene	18.41	14.88	1.237	ok	1.238	1.178-1.298
Methyl ethyl ketone	8.25	8.75	0.943	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.14	10.52	1.154	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.94	8.75	0.907	ok	0.905	0.845-0.965
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.01	14.88	0.942	ok	0.942	0.882-1.002
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Styrene	15.90	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.78	8.75	1.118	ok	1.117	1.057-1.177
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.52	1.214	ok	1.212	1.152-1.272
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.88	1.174	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.22	10.52	1.067	ok	1.067	1.007-1.127
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.35	8.75	1.069	ok	1.062	1.002-1.122
Toluene	13.03	10.52	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.21	10.52	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.23	8.75	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.75	0.584	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.75	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.49	14.88	1.041	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	206945	ok	212828	127697-297959
1,4-Difluorobenzene	10.52	ok	10.53	10.20-10.86	1035480	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	424821	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.19	8.80	0.703	ok	0.698	0.638-0.758
Acrolein	6.08	8.80	0.691	ok	0.685	0.625-0.745
Acrylonitrile	6.57	8.80	0.747	ok	0.741	0.681-0.801
Acetonitrile	5.97	8.80	0.678	ok	0.673	0.613-0.733
1,3-Butadiene	5.30	8.80	0.602	ok	0.596	0.536-0.656
Benzene	10.25	10.56	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.79	14.89	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.21	10.56	1.062	ok	1.062	1.002-1.122
Bromoform	15.62	14.89	1.049	ok	1.049	0.989-1.109
Bromomethane	5.54	8.80	0.630	ok	0.624	0.564-0.684
Bromoethene	5.97	8.80	0.678	ok	0.674	0.614-0.734
n-Butane	5.35	8.80	0.608	ok	0.602	0.542-0.662
Benzyl Chloride	18.11	14.89	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.89	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.89	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.94	14.89	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.22	8.80	0.820	ok	0.819	0.759-0.879
Chlorobenzene	14.94	14.89	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.76	8.80	0.541	ok	0.534	0.474-0.594
Chloroethane	5.68	8.80	0.645	ok	0.640	0.580-0.700
Chloroform	8.91	8.80	1.012	ok	1.013	0.953-1.073
Chloromethane	4.98	8.80	0.566	ok	0.561	0.501-0.621
3-Chloropropene	7.04	8.80	0.800	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.89	1.155	ok	1.156	1.096-1.216
Carbon tetrachloride	10.39	8.80	1.181	ok	1.183	1.123-1.243
Cyclohexane	10.51	10.56	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.91	8.80	0.899	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.84	8.80	0.777	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.76	14.89	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.59	8.80	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.03	10.56	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.49	10.56	1.088	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.80	0.550	ok	0.544	0.484-0.604
Dibromochloromethane	13.50	14.89	0.907	ok	0.907	0.847-0.967
Dibromomethane	11.01	10.56	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.73	8.80	0.878	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.65	8.80	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.08	10.56	1.144	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.89	1.217	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.59	14.89	1.248	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.89	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.60	10.56	1.193	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.82	8.80	1.002	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.71	10.56	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.61	8.80	1.092	ok	1.093	1.033-1.153
Ethanol	5.86	8.80	0.666	ok	0.654	0.594-0.714
Ethylbenzene	15.32	14.89	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.84	8.80	1.005	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.89	1.168	ok	1.169	1.109-1.229
Freon 113	7.14	8.80	0.811	ok	0.809	0.749-0.869
Freon 114	5.07	8.80	0.576	ok	0.570	0.510-0.630
Freon 123	6.07	8.80	0.690	ok	0.685	0.625-0.745
Freon 123A	6.12	8.80	0.695	ok	0.691	0.631-0.751
Freon 152A	4.71	8.80	0.535	ok	0.529	0.469-0.589
Heptane	11.49	10.56	1.088	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.89	1.412	ok	1.413	1.353-1.473
Hexachloroethane	19.35	14.89	1.300	ok	1.300	1.240-1.360
Hexane	8.81	8.80	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.40	14.89	0.900	ok	0.896	0.836-0.956
Iodomethane	6.80	8.80	0.773	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.89	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.49	8.80	0.738	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.41	14.89	1.236	ok	1.238	1.178-1.298
Methylene chloride	6.93	8.80	0.787	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.28	8.80	0.941	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.19	10.56	1.154	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.98	8.80	0.907	ok	0.905	0.845-0.965
Methylmethacrylate	11.45	10.56	1.084	ok	1.082	1.022-1.142
Naphthalene	20.65	14.89	1.387	ok	1.388	1.328-1.448
Nonane	16.23	14.89	1.090	ok	1.091	1.031-1.151
Octane	14.03	14.89	0.942	ok	0.942	0.882-1.002
Pentane	6.58	8.80	0.748	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.89	1.157	ok	1.158	1.098-1.218
Propylene	4.79	8.80	0.544	ok	0.538	0.478-0.598
Styrene	15.91	14.89	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.82	8.80	1.116	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.92	14.89	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.89	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.78	10.56	1.210	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.89	1.379	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.89	1.086	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.89	1.205	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.89	1.173	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.25	10.56	1.065	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	7.04	8.80	0.800	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.89	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.39	8.80	1.067	ok	1.062	1.002-1.122
Toluene	13.06	10.56	1.237	ok	1.239	1.179-1.299
Trichloroethylene	11.24	10.56	1.064	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.30	8.80	0.716	ok	0.712	0.652-0.772
Vinyl chloride	5.19	8.80	0.590	ok	0.583	0.523-0.643
Vinyl Acetate	8.03	8.80	0.912	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.89	1.042	ok	1.042	0.982-1.102
o-Xylene	16.03	14.89	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.80	ok	8.76	8.43-9.09	257782	ok	212828	127697-297959
1,4-Difluorobenzene	10.56	ok	10.53	10.20-10.86	1332577	ok	1090708	654425-1526991
Chlorobenzene-D5	14.89	ok	14.88	14.55-15.21	565963	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.15	8.77	0.701	ok	0.698	0.638-0.758
Acrolein	6.03	8.77	0.688	ok	0.685	0.625-0.745
Acrylonitrile	6.52	8.77	0.743	ok	0.741	0.681-0.801
Acetonitrile	5.92	8.77	0.675	ok	0.673	0.613-0.733
1,3-Butadiene	5.23	8.77	0.596	ok	0.596	0.536-0.656
Benzene	10.23	10.53	0.972	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.47	8.77	0.624	ok	0.624	0.564-0.684
Bromoethene	5.92	8.77	0.675	ok	0.674	0.614-0.734
n-Butane	5.28	8.77	0.602	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.88	1.270	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.18	8.77	0.819	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.68	8.77	0.534	ok	0.534	0.474-0.594
Chloroethane	5.62	8.77	0.641	ok	0.640	0.580-0.700
Chloroform	8.87	8.77	1.011	ok	1.013	0.953-1.073
Chloromethane	4.93	8.77	0.562	ok	0.561	0.501-0.621
3-Chloropropene	6.98	8.77	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.77	1.181	ok	1.183	1.123-1.243
Cyclohexane	10.49	10.53	0.996	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.77	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.79	8.77	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.75	14.88	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.56	8.77	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.38	10.53	1.081	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.78	8.77	0.545	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.53	1.044	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.69	8.77	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.61	8.77	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.78	8.77	1.001	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.77	1.092	ok	1.093	1.033-1.153
Ethanol	5.77	8.77	0.658	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.82	8.77	1.006	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.10	8.77	0.810	ok	0.809	0.749-0.869
Freon 114	5.00	8.77	0.570	ok	0.570	0.510-0.630
Freon 123	6.01	8.77	0.685	ok	0.685	0.625-0.745
Freon 123A	6.05	8.77	0.690	ok	0.691	0.631-0.751
Freon 152A	4.65	8.77	0.530	ok	0.529	0.469-0.589
Heptane	11.48	10.53	1.090	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.77	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.37	14.88	0.899	ok	0.896	0.836-0.956
Iodomethane	6.74	8.77	0.769	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.41	8.77	0.731	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.89	8.77	0.786	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.25	8.77	0.941	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.16	10.53	1.155	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.94	8.77	0.905	ok	0.905	0.845-0.965
Methylmethacrylate	11.41	10.53	1.084	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.54	8.77	0.746	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.71	8.77	0.537	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.77	1.116	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.53	1.067	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.96	8.77	0.794	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.34	8.77	1.065	ok	1.062	1.002-1.122
Toluene	13.05	10.53	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.23	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.25	8.77	0.713	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.77	0.583	ok	0.583	0.523-0.643
Vinyl Acetate	7.99	8.77	0.911	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77	ok	8.76	8.43-9.09	205578	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1013788	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	416406	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	Reporting this level
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.12	8.76	0.699	ok	0.698	0.638-0.758
Acrolein	6.00	8.76	0.685	ok	0.685	0.625-0.745
Acrylonitrile	6.49	8.76	0.741	ok	0.741	0.681-0.801
Acetonitrile	5.90	8.76	0.674	ok	0.673	0.613-0.733
1,3-Butadiene	5.22	8.76	0.596	ok	0.596	0.536-0.656
Benzene	10.23	10.53	0.972	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.47	8.76	0.624	ok	0.624	0.564-0.684
Bromoethene	5.90	8.76	0.674	ok	0.674	0.614-0.734
n-Butane	5.27	8.76	0.602	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.18	8.76	0.820	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.68	8.76	0.534	ok	0.534	0.474-0.594
Chloroethane	5.61	8.76	0.640	ok	0.640	0.580-0.700
Chloroform	8.88	8.76	1.014	ok	1.013	0.953-1.073
Chloromethane	4.92	8.76	0.562	ok	0.561	0.501-0.621
3-Chloropropene	6.98	8.76	0.797	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.37	8.76	1.184	ok	1.183	1.123-1.243
Cyclohexane	10.48	10.53	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.76	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.79	8.76	0.775	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.56	8.76	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.28	10.53	1.071	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.77	8.76	0.545	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.53	1.044	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.76	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.61	8.76	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	Reporting this level
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.77	8.76	1.001	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.76	1.094	ok	1.093	1.033-1.153
Ethanol	5.73	8.76	0.654	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.76	1.005	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.09	8.76	0.809	ok	0.809	0.749-0.869
Freon 114	5.00	8.76	0.571	ok	0.570	0.510-0.630
Freon 123	6.00	8.76	0.685	ok	0.685	0.625-0.745
Freon 123A	6.05	8.76	0.691	ok	0.691	0.631-0.751
Freon 152A	4.63	8.76	0.529	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.76	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.33	14.88	0.896	ok	0.896	0.836-0.956
Iodomethane	6.74	8.76	0.769	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.33	8.76	0.723	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.88	8.76	0.785	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.22	8.76	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.11	10.53	1.150	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.93	8.76	0.905	ok	0.905	0.845-0.965
Methylmethacrylate	11.40	10.53	1.083	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.53	8.76	0.745	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.71	8.76	0.538	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.76	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	Reporting this level
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.02	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.88	1.174	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.53	1.067	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.84	8.76	0.781	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.29	8.76	1.061	ok	1.062	1.002-1.122
Toluene	13.05	10.53	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.24	8.76	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.76	0.583	ok	0.583	0.523-0.643
Vinyl Acetate	7.97	8.76	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.76	ok	8.76	8.43-9.09	202911	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1043942	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	454183	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.12	8.77	0.698	ok	0.698	0.638-0.758
Acrolein	6.00	8.77	0.684	ok	0.685	0.625-0.745
Acrylonitrile	6.49	8.77	0.740	ok	0.741	0.681-0.801
Acetonitrile	5.90	8.77	0.673	ok	0.673	0.613-0.733
1,3-Butadiene	5.22	8.77	0.595	ok	0.596	0.536-0.656
Benzene	10.23	10.54	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.54	1.062	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.47	8.77	0.624	ok	0.624	0.564-0.684
Bromoethene	5.90	8.77	0.673	ok	0.674	0.614-0.734
n-Butane	5.27	8.77	0.601	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.88	1.270	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.88	1.226	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.18	8.77	0.819	ok	0.819	0.759-0.879
Chlorobenzene	14.93	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.68	8.77	0.534	ok	0.534	0.474-0.594
Chloroethane	5.60	8.77	0.639	ok	0.640	0.580-0.700
Chloroform	8.88	8.77	1.013	ok	1.013	0.953-1.073
Chloromethane	4.92	8.77	0.561	ok	0.561	0.501-0.621
3-Chloropropene	6.98	8.77	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.37	8.77	1.182	ok	1.183	1.123-1.243
Cyclohexane	10.49	10.54	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.77	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.79	8.77	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.75	14.88	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.57	8.77	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.54	1.044	ok	1.045	0.985-1.105
1,4-Dioxane	11.27	10.54	1.069	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.77	8.77	0.544	ok	0.544	0.484-0.604
Dibromochloromethane	13.50	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.54	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.69	8.77	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.61	8.77	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.54	1.144	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.59	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.54	1.194	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.77	8.77	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.69	10.54	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.77	1.092	ok	1.093	1.033-1.153
Ethanol	5.73	8.77	0.653	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.79	8.77	1.002	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.09	8.77	0.808	ok	0.809	0.749-0.869
Freon 114	5.00	8.77	0.570	ok	0.570	0.510-0.630
Freon 123	6.00	8.77	0.684	ok	0.685	0.625-0.745
Freon 123A	6.05	8.77	0.690	ok	0.691	0.631-0.751
Freon 152A	4.64	8.77	0.529	ok	0.529	0.469-0.589
Heptane	11.48	10.54	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.77	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.32	14.88	0.895	ok	0.896	0.836-0.956
Iodomethane	6.74	8.77	0.769	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.33	8.77	0.722	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.88	8.77	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.23	8.77	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.11	10.54	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.93	8.77	0.904	ok	0.905	0.845-0.965
Methylmethacrylate	11.40	10.54	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.53	8.77	0.745	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.71	8.77	0.537	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.80	8.77	1.117	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.54	1.212	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.54	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.84	8.77	0.780	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.29	8.77	1.059	ok	1.062	1.002-1.122
Toluene	13.05	10.54	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.23	10.54	1.065	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.24	8.77	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.77	0.583	ok	0.583	0.523-0.643
Vinyl Acetate	7.97	8.77	0.909	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.03	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77	ok	8.76	8.43-9.09	204139	ok	212828	127697-297959
1,4-Difluorobenzene	10.54	ok	10.53	10.20-10.86	1068301	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	472723	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.09	8.76	0.695	ok	0.698	0.638-0.758
Acrolein	5.98	8.76	0.683	ok	0.685	0.625-0.745
Acrylonitrile	6.47	8.76	0.739	ok	0.741	0.681-0.801
Acetonitrile	5.88	8.76	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.21	8.76	0.595	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.45	8.76	0.622	ok	0.624	0.564-0.684
Bromoethene	5.89	8.76	0.672	ok	0.674	0.614-0.734
n-Butane	5.26	8.76	0.600	ok	0.602	0.542-0.662
Benzyl Chloride	18.11	14.88	1.217	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.88	1.270	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.88	1.226	ok	1.225	1.165-1.285
tert-Butylbenzene	17.94	14.88	1.206	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.76	0.817	ok	0.819	0.759-0.879
Chlorobenzene	14.93	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.66	8.76	0.532	ok	0.534	0.474-0.594
Chloroethane	5.59	8.76	0.638	ok	0.640	0.580-0.700
Chloroform	8.87	8.76	1.013	ok	1.013	0.953-1.073
Chloromethane	4.90	8.76	0.559	ok	0.561	0.501-0.621
3-Chloropropene	6.97	8.76	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.76	1.183	ok	1.183	1.123-1.243
Cyclohexane	10.48	10.53	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.76	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.77	8.76	0.773	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.75	14.88	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.76	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.25	10.53	1.068	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.75	8.76	0.542	ok	0.544	0.484-0.604
Dibromochloromethane	13.50	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.53	1.044	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.76	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.76	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.59	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.75	8.76	0.999	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.57	8.76	1.092	ok	1.093	1.033-1.153
Ethanol	5.69	8.76	0.650	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.76	1.002	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.76	0.808	ok	0.809	0.749-0.869
Freon 114	4.98	8.76	0.568	ok	0.570	0.510-0.630
Freon 123	5.99	8.76	0.684	ok	0.685	0.625-0.745
Freon 123A	6.04	8.76	0.689	ok	0.691	0.631-0.751
Freon 152A	4.62	8.76	0.527	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.76	8.76	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.72	8.76	0.767	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.29	8.76	0.718	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.86	8.76	0.783	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.21	8.76	0.937	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.91	8.76	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.52	8.76	0.744	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.69	8.76	0.535	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.76	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.53	1.067	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.80	8.76	0.776	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.76	1.058	ok	1.062	1.002-1.122
Toluene	13.05	10.53	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.23	8.76	0.711	ok	0.712	0.652-0.772
Vinyl chloride	5.09	8.76	0.581	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.76	0.909	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.03	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.76	ok	8.76	8.43-9.09	212686	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1110669	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	542807	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.09	8.75	0.696	ok	0.698	0.638-0.758
Acrolein	5.98	8.75	0.683	ok	0.685	0.625-0.745
Acrylonitrile	6.47	8.75	0.739	ok	0.741	0.681-0.801
Acetonitrile	5.87	8.75	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.21	8.75	0.595	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.45	8.75	0.623	ok	0.624	0.564-0.684
Bromoethene	5.88	8.75	0.672	ok	0.674	0.614-0.734
n-Butane	5.26	8.75	0.601	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.88	1.226	ok	1.225	1.165-1.285
tert-Butylbenzene	17.94	14.88	1.206	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.75	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.66	8.75	0.533	ok	0.534	0.474-0.594
Chloroethane	5.59	8.75	0.639	ok	0.640	0.580-0.700
Chloroform	8.87	8.75	1.014	ok	1.013	0.953-1.073
Chloromethane	4.90	8.75	0.560	ok	0.561	0.501-0.621
3-Chloropropene	6.97	8.75	0.797	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.75	1.184	ok	1.183	1.123-1.243
Cyclohexane	10.47	10.53	0.994	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.75	0.898	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.77	8.75	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.75	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.24	10.53	1.067	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.75	8.75	0.543	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.98	10.53	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.75	0.878	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.75	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.75	8.75	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.67	10.53	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.57	8.75	1.094	ok	1.093	1.033-1.153
Ethanol	5.68	8.75	0.649	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.75	1.003	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.75	0.809	ok	0.809	0.749-0.869
Freon 114	4.98	8.75	0.569	ok	0.570	0.510-0.630
Freon 123	5.99	8.75	0.685	ok	0.685	0.625-0.745
Freon 123A	6.04	8.75	0.690	ok	0.691	0.631-0.751
Freon 152A	4.61	8.75	0.527	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.02	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.76	8.75	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.72	8.75	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.29	8.75	0.719	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.86	8.75	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.21	8.75	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.90	8.75	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.64	14.88	1.387	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.52	8.75	0.745	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.69	8.75	0.536	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.78	8.75	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.51	14.88	1.378	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.23	10.53	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.80	8.75	0.777	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.75	1.059	ok	1.062	1.002-1.122
Toluene	13.04	10.53	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.23	8.75	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.09	8.75	0.582	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.75	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	213113	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1101949	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	524440	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.09	8.75	0.696	ok	0.698	0.638-0.758
Acrolein	5.98	8.75	0.683	ok	0.685	0.625-0.745
Acrylonitrile	6.47	8.75	0.739	ok	0.741	0.681-0.801
Acetonitrile	5.87	8.75	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.21	8.75	0.595	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.44	8.75	0.622	ok	0.624	0.564-0.684
Bromoethene	5.88	8.75	0.672	ok	0.674	0.614-0.734
n-Butane	5.25	8.75	0.600	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.75	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.66	8.75	0.533	ok	0.534	0.474-0.594
Chloroethane	5.58	8.75	0.638	ok	0.640	0.580-0.700
Chloroform	8.86	8.75	1.013	ok	1.013	0.953-1.073
Chloromethane	4.90	8.75	0.560	ok	0.561	0.501-0.621
3-Chloropropene	6.96	8.75	0.795	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.75	1.184	ok	1.183	1.123-1.243
Cyclohexane	10.47	10.53	0.994	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.85	8.75	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.77	8.75	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.75	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.24	10.53	1.067	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.75	8.75	0.543	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.98	10.53	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.67	8.75	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.75	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.75	8.75	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.67	10.53	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.57	8.75	1.094	ok	1.093	1.033-1.153
Ethanol	5.69	8.75	0.650	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.75	1.003	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.07	8.75	0.808	ok	0.809	0.749-0.869
Freon 114	4.98	8.75	0.569	ok	0.570	0.510-0.630
Freon 123	5.99	8.75	0.685	ok	0.685	0.625-0.745
Freon 123A	6.03	8.75	0.689	ok	0.691	0.631-0.751
Freon 152A	4.61	8.75	0.527	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.76	8.75	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.72	8.75	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.29	8.75	0.719	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.86	8.75	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.21	8.75	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.90	8.75	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.51	8.75	0.744	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.69	8.75	0.536	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.78	8.75	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.02	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.23	10.53	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.80	8.75	0.777	ok	0.783	0.723-0.843
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.75	1.059	ok	1.062	1.002-1.122
Toluene	13.04	10.53	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.22	8.75	0.711	ok	0.712	0.652-0.772
Vinyl chloride	5.09	8.75	0.582	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.75	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	202608	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1056604	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	491086	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.10	8.76	0.696	ok	0.698	0.638-0.758
Acrolein	5.99	8.76	0.684	ok	0.685	0.625-0.745
Acrylonitrile	6.48	8.76	0.740	ok	0.741	0.681-0.801
Acetonitrile	5.88	8.76	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.22	8.76	0.596	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.46	8.76	0.623	ok	0.624	0.564-0.684
Bromoethene	5.90	8.76	0.674	ok	0.674	0.614-0.734
n-Butane	5.26	8.76	0.600	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.17	8.76	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.67	8.76	0.533	ok	0.534	0.474-0.594
Chloroethane	5.60	8.76	0.639	ok	0.640	0.580-0.700
Chloroform	8.87	8.76	1.013	ok	1.013	0.953-1.073
Chloromethane	4.91	8.76	0.561	ok	0.561	0.501-0.621
3-Chloropropene	6.97	8.76	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.76	1.183	ok	1.183	1.123-1.243
Cyclohexane	10.48	10.53	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.76	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.78	8.76	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.76	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.25	10.53	1.068	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.77	8.76	0.545	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.98	10.53	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.76	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.76	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.76	8.76	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.76	1.094	ok	1.093	1.033-1.153
Ethanol	5.70	8.76	0.651	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.76	1.002	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.76	0.808	ok	0.809	0.749-0.869
Freon 114	4.99	8.76	0.570	ok	0.570	0.510-0.630
Freon 123	6.00	8.76	0.685	ok	0.685	0.625-0.745
Freon 123A	6.04	8.76	0.689	ok	0.691	0.631-0.751
Freon 152A	4.63	8.76	0.529	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.76	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.73	8.76	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.30	8.76	0.719	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.87	8.76	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.22	8.76	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.91	8.76	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.52	8.76	0.744	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.70	8.76	0.537	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.76	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.02	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.52	14.88	1.379	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.88	1.174	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.23	10.53	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.81	8.76	0.777	ok	0.783	0.723-0.843
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.28	8.76	1.059	ok	1.062	1.002-1.122
Toluene	13.04	10.53	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.24	8.76	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.10	8.76	0.582	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.76	0.909	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.76	ok	8.76	8.43-9.09	214023	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1109984	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	497356	ok	481215	288729-673701

Volatile Surrogate Recovery Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JB50276-2	W44141.D	101.0
JB50276-3	W44159.D	93.0
JB50276-3	W44142.D	99.0
JB50276-4	W44160.D	95.0
JB50276-4	W44143.D	94.0
JB50276-5	W44228.D	102.0
JB50276-5	W44171.D	96.0
JB50276-5	W44144.D	100.0
JB49460-1DUP	W44152.D	97.0
JB50050-1DUP	W44125.D	102.0
JB50614-4DUP	W44227.D	97.0
V3W1397-SCC	3W36346.D	85.0
VW1767-BS	W44120.D	110.0
VW1767-BSD	W44121.D	109.0
VW1767-MB	W44123.D	102.0
VW1768-BS	W44147.D	103.0
VW1768-BSD	W44148.D	105.0
VW1768-MB	W44150.D	93.0
VW1771-BS	W44219.D	109.0
VW1771-BSD	W44220.D	109.0
VW1771-MB	W44222.D	100.0
V3W1397-BS	3W36334.D	98.0
V3W1397-BSD	3W36335.D	95.0
V3W1397-MB	3W36337.D	84.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: V3W1350-ICC1350
Lab FileID: 3W35039.D

Response Factor Report MS3W

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration

Calibration Files
0.04=3W35049.D 0.1 =3W35048.D 0.2 =3W35042.D 0.5 =3W35047.D
5 =3W35040.D 10 =3W35039.D 20 =3W35044.D 40 =3W35050.D
15 =3W35045.D 30 =3W35043.D = =

Compound

	0.04	0.1	0.2	0.5	5	10	20	40	15	30	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115											0.000	-1.00
3) FREON 152A	0.903	0.897	0.979	0.920	0.941	0.908	0.850	0.942	0.896		0.915	3.99
4) CHLORODIFLUOROMETHANE		0.316	0.370	0.336	0.345	0.328	0.319	0.334	0.332		0.335	4.99
5) DICHLORODIFLUOROMETHANE	3.832	3.882	3.906	3.559	3.569	3.371	3.303	3.496	3.336		3.584	6.61
6) PROPYLENE		1.284	1.236	1.166	1.152	1.094	0.972	1.155	1.035		1.137	8.93
7) FREON 114	3.604	4.052	4.075	4.197	3.717	3.839	3.602	3.464	3.676	3.642	3.787	6.43
8) CHLOROMETHANE		1.851	1.725	1.599	1.681	1.570	1.452	1.620	1.594		1.637	7.23
9) VINYL CHLORIDE	1.621	1.577	1.649	1.759	1.619	1.661	1.552	1.465	1.607	1.596	1.611	4.73
10) 1,3-BUTADIENE		1.156	1.179	1.162	1.207	1.157	1.092	1.173	1.161		1.161	2.81
11) n-BUTANE		2.592	2.535	2.260	2.270	2.220	2.008	2.307	2.092		2.286	8.69
12) BROMOMETHANE	1.523	1.506	1.622	1.500	1.542	1.471	1.464	1.491	1.502		1.513	3.10
13) CHLOROETHANE	0.790	0.782	0.865	0.816	0.887	0.841	0.797	0.847	0.831		0.828	4.29
14) DICHLOROFLUOROMETHANE	2.982	3.000	3.176	3.293	3.132	3.309	3.172	3.004	3.256	3.095	3.142	3.87
15) ACETONITRILE		0.593	0.725	0.840	0.950	1.016	0.937	1.027	0.973		0.883	17.39
16) FREON 123	3.626	3.459	3.440	3.597	3.460	3.626	3.466	3.255	3.542	3.371	3.484	3.38
17) FREON 123A	1.986	2.187	2.051	2.126	1.995	2.116	2.072	2.029	2.060	2.063	2.069	2.96
18) TRICHLOROFLUOROMETHANE	3.631	3.529	3.608	3.731	3.439	3.523	3.381	3.309	3.432	3.378	3.496	3.78
19) ISOPROPYL ALCOHOL		1.829	2.007	2.013	2.216	2.446	2.274	2.419	2.372		2.197	10.23
20) ACETONE		0.430	0.556	0.563	0.623	0.660	0.626	0.657	0.655		0.596	13.19
21) PENTANE	1.626	1.593	1.608	1.419	1.470	1.428	1.329	1.468	1.362		1.478	7.33
22) TVHC as EQUIV PENTANE											0.000	-1.00
23) IODOMETHANE												

Initial Calibration Summary

Job Number: JB50276 **Sample:** V3W1350-ICC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35039.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
      3.788 3.881 3.915 4.156 3.937 4.126 3.976 3.982 4.021 4.032  3.981    2.77
24)  1,1-DICHLOROETHYLENE
      1.418 1.385 1.277 1.504 1.420 1.479 1.432 1.408 1.441 1.460  1.422    4.35
25)  CARBON DISULFIDE
      3.944 4.309 4.180 4.220 3.975 4.034 3.855 3.628 3.956 3.888  3.999    4.97
26)  ETHANOL
                  0.405 0.492 0.498 0.551 0.630 0.585 0.634 0.608  0.550   14.59
27)  BROMOETHENE
      1.464 1.628 1.471 1.648 1.532 1.603 1.531 1.535 1.540 1.584  1.554    3.95
28)  ACRYLONITRILE
                  0.357 0.542 0.695 0.809 0.895 0.845 0.885 0.862  0.736   26.36
29)  METHYLENE CHLORIDE
                  1.995 1.690 1.237 1.291 1.237 1.205 1.257 1.262  1.397   20.61
30)  3-CHLOROPROPENE
            0.576 0.517 0.611 0.618 0.674 0.660 0.644 0.671 0.659  0.626    8.31
31)  FREON 113
      2.018 2.492 2.387 2.573 2.428 2.538 2.442 2.431 2.453 2.494  2.425    6.33
32)  TRANS-1,2-DICHLOROETHYLENE
      1.134 1.198 1.130 1.333 1.405 1.510 1.449 1.452 1.443 1.502  1.356   10.96
33)  TERTIARY BUTYL ALCOHOL
                  2.250 2.591 2.550 2.927 2.953 2.787 2.975 2.971  2.750    9.61
34)  METHYL TERTIARY BUTYL ETHER
      3.036 2.849 3.052 3.198 3.451 3.819 3.927 3.739 3.968 3.879  3.492   12.22
35)  TETRAHYDROFURAN
                  0.323 0.439 0.600 0.677 0.713 0.700 0.710 0.732  0.612   24.73
36)  HEXANE
      1.829 1.952 1.989 2.064 2.158 2.314 2.137 1.981 2.194 2.164  2.078    6.84
37)  VINYL ACETATE
                  0.080 0.215 0.281 0.316 0.328 0.334 0.320 0.348  0.278   32.52
38)  1,1-DICHLOROETHANE
      2.287 2.524 2.543 2.724 2.624 2.815 2.623 2.476 2.711 2.627  2.595    5.72
39)  METHYL ETHYL KETONE
                  0.334 0.429 0.558 0.657 0.736 0.728 0.728 0.745  0.614   25.81
40)  cis-1,2-DICHLOROETHYLENE
      1.484 1.229 1.295 1.418 1.496 1.632 1.573 1.565 1.558 1.621  1.487    9.13
41)  DIISOPROPYL ETHER
                  3.851 4.056 4.477 4.894 5.072 4.568 5.168 4.799  4.610   10.19
42)  ETHYL ACETATE
                  0.264 0.365 0.412 0.464 0.503 0.479 0.496 0.505  0.436   19.54
43)  METHYL ACRYLATE
                  1.189 1.443 1.936 2.244 2.466 2.356 2.433 2.413  2.060   23.94
44)  CHLOROFORM
      2.512 2.729 2.657 2.893 2.761 3.005 2.915 2.880 2.947 2.962  2.826    5.55
45)  2,4-DIMETHYLPENTANE
            2.546 2.615 2.738 2.743 2.901 2.882 2.687 2.979 2.755  2.761    5.06
46)  1,1,1-TRICHLOROETHANE
      2.669 2.755 2.772 2.922 2.848 3.014 2.925 2.901 2.981 2.929  2.872    3.79
47)  CARBON TETRACHLORIDE
      2.725 3.162 2.930 3.048 2.890 3.067 2.961 2.955 2.992 2.993  2.972    3.91
48)  1,2-DICHLOROETHANE
      1.170 1.309 1.313 1.511 1.521 1.701 1.699 1.708 1.697 1.739  1.537   13.48

49) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
50)  BENZENE
      1.281 1.048 1.002 0.990 0.975 1.038 0.978 0.955 0.991 1.001  1.026    9.16
51)  CYCLOHEXANE
      0.541 0.562 0.554 0.556 0.525 0.549 0.513 0.502 0.520 0.522  0.535    3.87
52)  2,3-DIMETHYLPENTANE
                  0.294 0.246 0.224 0.233 0.227 0.221 0.228 0.225  0.237   10.15
53)  TRICHLOROETHYLENE
```

Initial Calibration Summary

Job Number: JB50276 **Sample:** V3W1350-ICC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35039.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
      0.432 0.411 0.407 0.412 0.379 0.412 0.382 0.386 0.382 0.410  0.401    4.40
54)  1,2-DICHLOROPROPANE
            0.359 0.453 0.353 0.350 0.377 0.369 0.350 0.371 0.371  0.372    8.53
55)  DIBROMOMETHANE
      0.440 0.374 0.374 0.396 0.381 0.418 0.398 0.423 0.397 0.426  0.403    5.70
56)  ETHYL ACRYLATE
                  0.441 0.502 0.509 0.592 0.662 0.643 0.667 0.663  0.585   15.25
57)  BROMODICHLOROMETHANE
      0.658 0.632 0.641 0.677 0.656 0.702 0.656 0.646 0.667 0.677  0.661    3.08
58)  2,2,4-TRIMETHYLPENTANE
      1.677 1.594 1.614 1.598 1.592 1.637 1.534 1.398 1.585 1.471  1.570    5.24
59)  1,4-DIOXANE
                  0.132 0.162 0.169 0.200 0.225 0.237 0.218 0.236  0.197   19.69
60)  HEPTANE
      0.567 0.527 0.570 0.609 0.547 0.590 0.563 0.526 0.584 0.554  0.564    4.69
61)  TVHC as EQUIV HEPTANE
                                                                    0.000   -1.00
62)  METHYL METHACRYLATE
                  0.212 0.244 0.280 0.322 0.344 0.344 0.348 0.350  0.305   17.63
63)  METHYL ISOBUTYL KETONE
                  0.093 0.165 0.209 0.245 0.272 0.274 0.264 0.284  0.226   29.69
64)  cis-1,3-DICHLOROPROPENE
      0.348 0.383 0.417 0.421 0.472 0.524 0.507 0.515 0.510 0.534  0.463   14.28
65)  TOLUENE
      0.540 0.548 0.561 0.585 0.646 0.698 0.671 0.683 0.679 0.704  0.631   10.42
66)  trans-1,3-DICHLOROPROPENE
                  0.326 0.339 0.430 0.488 0.476 0.496 0.472 0.521  0.444   16.51
67)  1,1,2-TRICHLOROETHANE
      0.283 0.279 0.277 0.294 0.320 0.348 0.334 0.339 0.337 0.349  0.316    9.39

68) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
69)  2-HEXANONE
                  0.232 0.471 0.551 0.661 0.722 0.681 0.703 0.715  0.592   28.76
70)  ETHYL METHACRYLATE
                  0.534 0.790 0.832 0.967 1.101 1.027 1.089 1.071  0.926   21.24
71)  TETRACHLOROETHYLENE
      0.995 0.943 0.949 1.093 0.896 0.958 0.882 0.849 0.884 0.883  0.933    7.68
72)  DIBROMOCHLOROMETHANE
      1.339 1.280 1.274 1.461 1.307 1.405 1.305 1.263 1.316 1.306  1.326    4.68
73)  1,2-DIBROMOETHANE
      0.805 0.876 0.927 1.050 1.021 1.139 1.057 1.040 1.050 1.101  1.007   10.35
74)  OCTANE
      1.374 1.399 1.424 1.545 1.489 1.569 1.466 1.257 1.528 1.361  1.441    6.73
75)  1,1,1,2-TETRACHLOROETHANE
      1.003 0.926 0.952 0.991 0.952 1.015 0.959 0.911 0.965 0.937  0.961    3.49
76)  CHLOROBENZENE
      1.486 1.557 1.501 1.620 1.543 1.672 1.539 1.464 1.539 1.566  1.549    3.98
77)  ETHYLBENZENE
      2.303 2.280 2.291 2.479 2.546 2.771 2.634 2.461 2.664 2.565  2.499    6.77
78)  m,p-XYLENE
      0.812 0.841 0.881 0.897 0.986 1.064 0.997 0.944 1.008 1.009  0.944    8.75
79)  o-XYLENE
      0.706 0.757 0.817 0.931 0.969 1.028 0.991 0.954 0.997 1.001  0.915   12.38
80)  STYRENE
                  1.015 1.078 1.418 1.606 1.449 1.433 1.444 1.582  1.378   15.74
81)  NONANE
      0.886 1.158 1.197 1.190 1.452 1.536 1.420 1.211 1.488 1.326  1.286   15.32
82)  BROMOFORM
      1.019 1.169 1.104 1.255 1.227 1.354 1.267 1.264 1.267 1.312  1.224    8.19
83)  4-BROMOFLUOROBENZENE
```

Initial Calibration Summary

Job Number: JB50276 **Sample:** V3W1350-ICC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35039.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
      1.040 1.039 1.085 1.070 1.199 1.196 1.156 1.131 1.177 1.145  1.124    5.46
 84)  1,1,2,2-TETRACHLOROETHANE
      1.101 1.275 1.326 1.301 1.377 1.495 1.396 1.330 1.418 1.423  1.344    8.01
 85)  1,2,3-TRICHLOROPROPANE
      0.844 0.884 0.877 0.942 0.967 1.067 1.051 0.977 1.059 1.030  0.970    8.43
 86)  ISOPROPYLBENZENE
      2.424 2.675 2.524 2.538 2.772 2.976 2.819 2.658 2.860 2.795  2.704    6.36
 87)  BROMOBENZENE
      1.262 0.998 1.004 1.189 1.134 1.261 1.223 1.179 1.220 1.216  1.168    8.23
 88)  2-CHLOROTOLUENE
      0.582 0.515 0.549 0.629 0.649 0.711 0.684 0.673 0.681 0.696  0.637   10.49
 89)  n-PROPYLBENZENE
      0.436 0.501 0.494 0.607 0.680 0.744 0.736 0.720 0.731 0.742  0.639   18.81
 90)  4-ETHYLTOLUENE
                  1.709 1.776 2.232 2.531 2.477 2.385 2.481 2.495  2.261   14.76
 91)  1,3,5-TRIMETHYLBENZENE
      1.641 1.550 1.862 1.741 2.050 2.234 2.078 1.975 2.086 2.105  1.932   11.63
 92)  ALPHA-METHYLSTYRENE
                  0.530 0.657 0.882 1.031 1.016 1.019 0.997 1.054  0.898   22.03
 93)  tert-BUTYLBENZENE
                  0.397 0.426 0.461 0.512 0.501 0.494 0.499 0.506  0.475    8.94
 94)  1,2,4-TRIMETHYLBENZENE
      1.135 1.332 1.455 1.491 1.783 1.986 1.925 1.836 1.920 1.917  1.678   17.85
 95)  m-DICHLOROBENZENE
      0.826 0.959 0.894 0.861 1.068 1.254 1.238 1.259 1.210 1.277  1.085   16.96
 96)  BENZYL CHLORIDE
                  0.996 0.904 1.172 1.424 1.471 1.481 1.429 1.515  1.299   18.53
 97)  p-DICHLOROBENZENE
      0.904 0.949 0.950 0.826 1.071 1.230 1.160 1.202 1.138 1.253  1.068   14.14
 98)  sec-BUTYLBENZENE
                  0.445 0.445 0.536 0.596 0.586 0.591 0.580 0.604  0.548   12.15
 99)  p-ISOPROPYLTOLUENE
                  0.390 0.457 0.554 0.625 0.614 0.609 0.602 0.638  0.561   16.07
100)  o-DICHLOROBENZENE
      0.874 0.872 0.935 0.936 1.024 1.163 1.130 1.142 1.108 1.173  1.036   11.76
101)  n-BUTYLBENZENE
                  0.269 0.307 0.413 0.503 0.505 0.508 0.485 0.528  0.440   22.79
102)  HEXACHLOROETHANE
                  0.838 0.828 0.813 0.891 0.849 0.832 0.843 0.856  0.844    2.77
103)  HEXACHLOROBUTADIENE
      0.362 0.408 0.435 0.454 0.498 0.659 0.626       0.626 0.648  0.524   22.16
104)  1,2,4-TRICHLOROBENZENE
            0.259 0.265 0.291 0.270 0.405 0.453       0.431 0.507  0.360   27.67

105) I   CHLOROBENZENE-D5 (a)  ----------------ISTD---------------------
106)  NAPHTHALENE
                  0.386 0.526 0.446 0.671 0.803       0.752 0.929  0.644   30.93
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3W1350.M         Thu Jul 25 10:30:01 2013   MS3W
```

Initial Calibration Verification

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: V3W1350-ICV1350
Lab FileID: 3W35053.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	100	0.00	7.37
2		FREON 115		----------NA----------				
3		FREON 152A	0.915	0.877	4.2	93	0.00	4.31
4		CHLORODIFLUOROMETHANE	0.335	0.324	3.3	94	-0.01	4.34
5		DICHLORODIFLUOROMETHANE	3.584	3.399	5.2	95	0.00	4.40
6		PROPYLENE	1.137	1.089	4.2	95	0.00	4.36
7		FREON 114	3.787	3.594	5.1	94	0.00	4.55
8		CHLOROMETHANE	1.637	1.537	6.1	92	0.00	4.50
9		VINYL CHLORIDE	1.611	1.531	5.0	92	0.00	4.62
10		1,3-BUTADIENE	1.161	1.105	4.8	92	0.00	4.69
11		n-BUTANE	2.286	2.175	4.9	96	0.00	4.71
12		BROMOMETHANE	1.513	1.432	5.4	93	0.00	4.86
13		CHLOROETHANE	0.828	0.797	3.7	90	0.00	4.94
14		DICHLOROFLUOROMETHANE	3.142	3.065	2.5	93	0.00	4.99
15		ACETONITRILE	0.883	0.831	5.9	88	0.00	5.18
16		FREON 123	3.484	3.357	3.6	93	0.00	5.21
17		FREON 123A	2.069	1.966	5.0	93	0.00	5.25
18		TRICHLOROFLUOROMETHANE	3.496	3.303	5.5	94	0.00	5.38
19		ISOPROPYL ALCOHOL	2.197	2.026	7.8	92	0.00	5.46
20		ACETONE	0.596	0.572	4.0	92	0.00	5.29
21		PENTANE	1.478	1.373	7.1	94	0.00	5.55
22	H	TVHC as EQUIV PENTANE		----------NA----------				
23		IODOMETHANE	3.981	3.864	2.9	94	0.00	5.73
24		1,1-DICHLOROETHYLENE	1.422	1.381	2.9	94	0.00	5.77
25		CARBON DISULFIDE	3.999	3.693	7.7	92	0.00	6.04
26		ETHANOL	0.550	0.489	11.1	89	0.00	5.05
27		BROMOETHENE	1.554	1.482	4.6	93	0.00	5.15
28		ACRYLONITRILE	0.736	0.740	-0.5	92	0.00	5.59
29		METHYLENE CHLORIDE	1.397	1.228	12.1	95	0.00	5.85
30		3-CHLOROPROPENE	0.626	0.624	0.3	93	0.00	5.91
31		FREON 113	2.425	2.381	1.8	94	0.00	5.99
32		TRANS-1,2-DICHLOROETHYLEN	1.356	1.346	0.7	89	0.00	6.44
33		TERTIARY BUTYL ALCOHOL	2.750	2.598	5.5	89	0.01	5.82
34		METHYL TERTIARY BUTYL ETH	3.492	3.510	-0.5	92	0.00	6.61
35		TETRAHYDROFURAN	0.612	0.614	-0.3	91	0.00	7.78
36		HEXANE	2.078	2.042	1.7	88	0.00	7.30
37		VINYL ACETATE	0.278	0.277	0.4	88	0.00	6.70
38		1,1-DICHLOROETHANE	2.595	2.502	3.6	89	0.00	6.60
39		METHYL ETHYL KETONE	0.614	0.612	0.3	93	0.00	6.88
40		cis-1,2-DICHLOROETHYLENE	1.487	1.451	2.4	89	0.00	7.25
41		DIISOPROPYL ETHER	4.610	4.525	1.8	93	0.00	7.31
42		ETHYL ACETATE	0.436	0.420	3.7	91	0.00	7.38

Initial Calibration Verification

Job Number: JB50276 **Sample:** V3W1350-ICV1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35053.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		METHYL ACRYLATE	2.060	2.062	-0.1	92	0.00	7.39
44		CHLOROFORM	2.826	2.727	3.5	91	0.00	7.45
45		2,4-DIMETHYLPENTANE	2.761	2.690	2.6	93	0.00	7.99
46		1,1,1-TRICHLOROETHANE	2.872	2.766	3.7	92	0.00	8.24
47		CARBON TETRACHLORIDE	2.972	2.832	4.7	93	0.00	8.77
48		1,2-DICHLOROETHANE	1.537	1.517	1.3	89	0.00	8.04
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	8.96
50		BENZENE	1.026	0.927	9.6	90	0.00	8.65
51		CYCLOHEXANE	0.535	0.498	6.9	91	0.00	8.81
52		2,3-DIMETHYLPENTANE	0.237	0.216	8.9	94	0.00	9.00
53		TRICHLOROETHYLENE	0.401	0.357	11.0	87	0.00	9.57
54		1,2-DICHLOROPROPANE	0.372	0.339	8.9	91	0.00	9.33
55		DIBROMOMETHANE	0.403	0.375	6.9	90	0.00	9.36
56		ETHYL ACRYLATE	0.585	0.549	6.2	93	0.01	9.38
57		BROMODICHLOROMETHANE	0.661	0.623	5.7	90	0.00	9.55
58		2,2,4-TRIMETHYLPENTANE	1.570	1.507	4.0	93	0.00	9.50
59		1,4-DIOXANE	0.197	0.184	6.6	93	0.00	9.64
60		HEPTANE	0.564	0.531	5.9	91	0.00	9.75
61	H	TVHC as EQUIV HEPTANE		----------NA----------				
62		METHYL METHACRYLATE	0.305	0.298	2.3	93	0.00	9.78
63		METHYL ISOBUTYL KETONE	0.226	0.214	5.3	88	0.01	10.40
64		cis-1,3-DICHLOROPROPENE	0.463	0.462	0.2	89	0.00	10.39
65		TOLUENE	0.631	0.618	2.1	89	0.00	11.30
66		trans-1,3-DICHLOROPROPENE	0.444	0.415	6.5	86	0.00	10.90
67		1,1,2-TRICHLOROETHANE	0.316	0.304	3.8	88	0.00	11.05
68	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.10
69		2-HEXANONE	0.592	0.577	2.5	88	0.00	11.58
70		ETHYL METHACRYLATE	0.926	0.903	2.5	94	0.00	11.60
71		TETRACHLOROETHYLENE	0.933	0.850	8.9	89	0.00	12.43
72		DIBROMOCHLOROMETHANE	1.326	1.242	6.3	89	0.00	11.74
73		1,2-DIBROMOETHANE	1.007	0.981	2.6	87	0.00	11.95
74		OCTANE	1.441	1.417	1.7	91	0.00	12.22
75		1,1,1,2-TETRACHLOROETHANE	0.961	0.911	5.2	90	0.00	13.13
76		CHLOROBENZENE	1.549	1.453	6.2	88	0.00	13.15
77		ETHYLBENZENE	2.499	2.483	0.6	90	0.00	13.52
78		m,p-XYLENE	0.944	0.928	1.7	88	0.00	13.71
79		o-XYLENE	0.915	0.921	-0.7	90	0.00	14.22
80		STYRENE	1.378	1.300	5.7	82	0.00	14.12
81		NONANE	1.286	1.366	-6.2	90	0.00	14.41
82		BROMOFORM	1.224	1.179	3.7	88	0.00	13.82
83	S	4-BROMOFLUOROBENZENE	1.124	1.183	-5.2	100	0.00	14.74
84		1,1,2,2-TETRACHLOROETHANE	1.344	1.284	4.5	86	0.00	14.24
85		1,2,3-TRICHLOROPROPANE	0.970	0.951	2.0	90	0.00	14.37
86		ISOPROPYLBENZENE	2.704	2.657	1.7	90	0.00	14.86
87		BROMOBENZENE	1.168	1.110	5.0	89	0.00	14.98
88		2-CHLOROTOLUENE	0.637	0.637	0.0	90	0.00	15.42
89		n-PROPYLBENZENE	0.639	0.672	-5.2	91	0.00	15.45
90		4-ETHYLTOLUENE	2.261	2.265	-0.2	90	0.00	15.63
91		1,3,5-TRIMETHYLBENZENE	1.932	1.892	2.1	85	0.00	15.73
92		ALPHA-METHYLSTYRENE	0.898	0.889	1.0	87	0.00	15.94
93		tert-BUTYLBENZENE	0.475	0.460	3.2	90	0.00	16.21
94		1,2,4-TRIMETHYLBENZENE	1.678	1.752	-4.4	89	0.00	16.23
95		m-DICHLOROBENZENE	1.085	1.093	-0.7	88	0.00	16.41
96		BENZYL CHLORIDE	1.299	1.241	4.5	88	0.00	16.42
97		p-DICHLOROBENZENE	1.068	1.033	3.3	85	0.00	16.51
98		sec-BUTYLBENZENE	0.548	0.532	2.9	90	0.00	16.55
99		p-ISOPROPYLTOLUENE	0.561	0.546	2.7	88	0.00	16.74
100		o-DICHLOROBENZENE	1.036	1.001	3.4	87	0.00	16.93

Initial Calibration Verification

Job Number: JB50276 **Sample:** V3W1350-ICV1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35053.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101		n-BUTYLBENZENE	0.440	0.425	3.4	85	0.00	17.27
102		HEXACHLOROETHANE	0.844	0.765	9.4	86	0.00	17.74
103		HEXACHLOROBUTADIENE	0.524	0.476	9.2	73	0.00	19.57
104		1,2,4-TRICHLOROBENZENE	0.360	0.285	20.8	71	0.00	19.00
105	I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	101	0.00	13.10
106		NAPHTHALENE	0.644	0.458	28.9	69	0.00	19.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W35039.D M3W1350.M Thu Jul 25 10:29:38 2013 MS3W

6.9.2

6

Continuing Calibration Summary

Job Number: JB50276 **Sample:** V3W1397-CC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W36333.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	-0.07	7.29
2		FREON 115		----------NA----------				
3		FREON 152A	0.915	0.977	-6.8	102	-0.04	4.28
4		CHLORODIFLUOROMETHANE	0.335	0.311	7.2	88	-0.04	4.31
5		DICHLORODIFLUOROMETHANE	3.584	3.374	5.9	93	-0.04	4.36
6		PROPYLENE	1.137	1.381	-21.5	117	-0.04	4.32
7		FREON 114	3.787	3.856	-1.8	98	-0.04	4.50
8		CHLOROMETHANE	1.637	1.839	-12.3	107	-0.04	4.46
9		VINYL CHLORIDE	1.611	1.810	-12.4	107	-0.05	4.58
10		1,3-BUTADIENE	1.161	1.278	-10.1	104	-0.05	4.64
11		n-BUTANE	2.286	2.600	-13.7	112	-0.05	4.67
12		BROMOMETHANE	1.513	1.537	-1.6	98	-0.05	4.81
13		CHLOROETHANE	0.828	0.904	-9.2	100	-0.05	4.89
14		DICHLOROFLUOROMETHANE	3.142	3.331	-6.0	99	-0.05	4.94
15		ACETONITRILE	0.883	1.129	-27.9	116	-0.06	5.11
16		FREON 123	3.484	3.509	-0.7	95	-0.05	5.15
17		FREON 123A	2.069	1.959	5.3	91	-0.05	5.19
18		TRICHLOROFLUOROMETHANE	3.496	3.074	12.1	85	-0.05	5.32
19		ISOPROPYL ALCOHOL	2.197	2.630	-19.7	116	-0.09	5.36
20		ACETONE	0.596	0.771	-29.4	121	-0.06	5.23
21		PENTANE	1.478	1.652	-11.8	110	-0.05	5.49
22	H	TVHC as EQUIV PENTANE		----------NA----------				
23		IODOMETHANE	3.981	3.882	2.5	92	-0.06	5.66
24		1,1-DICHLOROETHYLENE	1.422	1.448	-1.8	96	-0.06	5.71
25		CARBON DISULFIDE	3.999	4.367	-9.2	106	-0.06	5.98
26		ETHANOL	0.550	0.612	-11.3	109	-0.09	4.96
27		BROMOETHENE	1.554	1.510	2.8	92	-0.05	5.09
28		ACRYLONITRILE	0.736	0.899	-22.1	109	-0.07	5.52
29		METHYLENE CHLORIDE	1.397	1.329	4.9	101	-0.06	5.79
30		3-CHLOROPROPENE	0.626	0.675	-7.8	98	-0.07	5.85
31		FREON 113	2.425	2.347	3.2	91	-0.07	5.93
32		TRANS-1,2-DICHLOROETHYLEN	1.356	1.415	-4.4	92	-0.07	6.38
33		TERTIARY BUTYL ALCOHOL	2.750	3.037	-10.4	102	-0.09	5.71
34		METHYL TERTIARY BUTYL ETH	3.492	3.594	-2.9	92	-0.08	6.53
35		TETRAHYDROFURAN	0.612	0.707	-15.5	102	-0.09	7.68
36		HEXANE	2.078	2.270	-9.2	96	-0.07	7.22
37		VINYL ACETATE	0.278	0.305	-9.7	94	-0.07	6.62
38		1,1-DICHLOROETHANE	2.595	2.573	0.8	90	-0.07	6.53
39		METHYL ETHYL KETONE	0.614	0.699	-13.8	104	-0.09	6.80
40		cis-1,2-DICHLOROETHYLENE	1.487	1.430	3.8	86	-0.08	7.17
41		DIISOPROPYL ETHER	4.610	5.102	-10.7	102	-0.08	7.23
42		ETHYL ACETATE	0.436	0.506	-16.1	107	-0.09	7.29

Continuing Calibration Summary

Job Number: JB50276 **Sample:** V3W1397-CC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W36333.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		METHYL ACRYLATE	2.060	2.260	-9.7	99	-0.08	7.31
44		CHLOROFORM	2.826	2.591	8.3	84	-0.07	7.37
45		2,4-DIMETHYLPENTANE	2.761	2.888	-4.6	97	-0.07	7.92
46		1,1,1-TRICHLOROETHANE	2.872	2.491	13.3	81	-0.07	8.16
47		CARBON TETRACHLORIDE	2.972	2.525	15.0	81	-0.07	8.70
48		1,2-DICHLOROETHANE	1.537	1.372	10.7	79	-0.08	7.96
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	-0.08	8.88
50		BENZENE	1.026	0.928	9.6	89	-0.08	8.57
51		CYCLOHEXANE	0.535	0.489	8.6	89	-0.07	8.74
52		2,3-DIMETHYLPENTANE	0.237	0.227	4.2	97	-0.07	8.92
53		TRICHLOROETHYLENE	0.401	0.350	12.7	85	-0.07	9.49
54		1,2-DICHLOROPROPANE	0.372	0.367	1.3	97	-0.08	9.25
55		DIBROMOMETHANE	0.403	0.357	11.4	85	-0.08	9.28
56		ETHYL ACRYLATE	0.585	0.610	-4.3	103	-0.09	9.28
57		BROMODICHLOROMETHANE	0.661	0.566	14.4	81	-0.08	9.47
58		2,2,4-TRIMETHYLPENTANE	1.570	1.636	-4.2	100	-0.07	9.42
59		1,4-DIOXANE	0.197	0.175	11.2	87	-0.10	9.53
60		HEPTANE	0.564	0.580	-2.8	98	-0.07	9.68
61	H	TVHC as EQUIV HEPTANE		----------NA----------				
62		METHYL METHACRYLATE	0.305	0.311	-2.0	97	-0.08	9.69
63		METHYL ISOBUTYL KETONE	0.226	0.247	-9.3	101	-0.09	10.29
64		cis-1,3-DICHLOROPROPENE	0.463	0.488	-5.4	93	-0.07	10.31
65		TOLUENE	0.631	0.582	7.8	83	-0.08	11.22
66		trans-1,3-DICHLOROPROPENE	0.444	0.377	15.1	77	-0.07	10.82
67		1,1,2-TRICHLOROETHANE	0.316	0.295	6.6	85	-0.07	10.97
68	I	CHLOROBENZENE-D5	1.000	1.000	0.0	89	-0.07	13.03
69		2-HEXANONE	0.592	0.766	-29.4	103	-0.10	11.48
70		ETHYL METHACRYLATE	0.926	1.149	-24.1	106	-0.09	11.52
71		TETRACHLOROETHYLENE	0.933	0.879	5.8	82	-0.07	12.36
72		DIBROMOCHLOROMETHANE	1.326	1.310	1.2	83	-0.08	11.66
73		1,2-DIBROMOETHANE	1.007	1.032	-2.5	81	-0.07	11.87
74		OCTANE	1.441	1.770	-22.8	100	-0.07	12.16
75		1,1,1,2-TETRACHLOROETHANE	0.961	0.945	1.7	83	-0.07	13.05
76		CHLOROBENZENE	1.549	1.537	0.8	82	-0.07	13.07
77		ETHYLBENZENE	2.499	2.511	-0.5	81	-0.07	13.45
78		m,p-XYLENE	0.944	0.933	1.2	78	-0.07	13.63
79		o-XYLENE	0.915	0.939	-2.6	81	-0.07	14.14
80		STYRENE	1.378	1.223	11.2	68	-0.07	14.04
81		NONANE	1.286	1.640	-27.5	95	-0.06	14.35
82		BROMOFORM	1.224	1.080	11.8	71	-0.08	13.73
83	S	4-BROMOFLUOROBENZENE	1.124	1.075	4.4	80	-0.07	14.66
84		1,1,2,2-TETRACHLOROETHANE	1.344	1.328	1.2	79	-0.07	14.16
85		1,2,3-TRICHLOROPROPANE	0.970	0.989	-2.0	82	-0.08	14.29
86		ISOPROPYLBENZENE	2.704	2.590	4.2	77	-0.07	14.79
87		BROMOBENZENE	1.168	1.113	4.7	78	-0.07	14.90
88		2-CHLOROTOLUENE	0.637	0.611	4.1	76	-0.07	15.34
89		n-PROPYLBENZENE	0.639	0.653	-2.2	78	-0.07	15.38
90		4-ETHYLTOLUENE	2.261	1.858	17.8	65	-0.07	15.55
91		1,3,5-TRIMETHYLBENZENE	1.932	1.792	7.2	71	-0.07	15.65
92		ALPHA-METHYLSTYRENE	0.898	0.779	13.3	67	-0.07	15.87
93		tert-BUTYLBENZENE	0.475	0.437	8.0	76	-0.07	16.14
94		1,2,4-TRIMETHYLBENZENE	1.678	1.586	5.5	71	-0.07	16.15
95		m-DICHLOROBENZENE	1.085	0.957	11.8	68	-0.07	16.34
96		BENZYL CHLORIDE	1.299	1.119	13.9	70	-0.07	16.35
97		p-DICHLOROBENZENE	1.068	0.913	14.5	66	-0.07	16.43
98		sec-BUTYLBENZENE	0.548	0.478	12.8	71	-0.07	16.48
99		p-ISOPROPYLTOLUENE	0.561	0.483	13.9	69	-0.07	16.68
100		o-DICHLOROBENZENE	1.036	0.866	16.4	66	-0.07	16.86

Continuing Calibration Summary

Job Number: JB50276 **Sample:** V3W1397-CC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W36333.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101		n-BUTYLBENZENE	0.440	0.376	14.5	66	-0.06	17.20
102		HEXACHLOROETHANE	0.844	0.821	2.7	82	-0.06	17.68
103		HEXACHLOROBUTADIENE	0.524	0.526	-0.4	71	-0.05	19.51
104		1,2,4-TRICHLOROBENZENE	0.360	0.309	14.2	68	-0.06	18.94
105	I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	91	-0.07	13.03
106		NAPHTHALENE	0.644	0.526	18.3	71	-0.05	19.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W35039.D M3W1350.M Tue Oct 08 10:24:54 2013 MS3W

6.9.3

6

Initial Calibration Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1765-ICC1765
Lab FileID: W44080.D

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

Calibration Files
0.04=W44075.D 0.1 =W44076.D 0.2 =W44077.D 0.5 =W44078.D
5 =W44079.D 10 =W44080.D 20 =W44087.D 40 =W44084.D
15 =W44088.D 30 =W44086.D = =

Compound

	0.04	0.1	0.2	0.5	5	10	20	40	15	30	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115											0.000	-1.00
3) FREON 152A	0.950	0.723	0.805	0.738	0.610	0.614	0.691	0.591			0.715	16.79
4) CHLORODIFLUOROMETHANE	0.360	0.310	0.293	0.271	0.244	0.241	0.246	0.233			0.275	15.99
5) DICHLORODIFLUOROMETHANE	3.269	2.873	2.750	3.149	2.839	2.613	2.583	2.639	2.504		2.802	9.33
6) PROPYLENE	1.389	0.964	1.000	0.904	0.824	0.808	0.834	0.791			0.939	20.96
7) FREON 114	3.434	2.990	2.810	3.191	2.933	2.703	2.671	2.746	2.621		2.900	9.28
8) CHLOROMETHANE	0.422	0.344	0.364	0.331	0.301	0.296	0.302	0.289			0.331	13.60
9) VINYL CHLORIDE	1.288	1.223	1.160	1.350	1.240	1.140	1.128	1.147	1.094		1.197	7.03
10) 1,3-BUTADIENE	1.178	1.059	0.904	1.020	0.933	0.856	0.837	0.859	0.823		0.941	12.82
11) n-BUTANE	0.286	0.251	0.284	0.261	0.238	0.235	0.240	0.230			0.253	8.65
12) BROMOMETHANE	1.256	1.111	1.135	1.235	1.131	1.042	1.041	1.048	1.010		1.112	7.88
13) CHLOROETHANE	0.692	0.692	0.655	0.740	0.689	0.631	0.636	0.644	0.616		0.666	5.95
14) DICHLOROFLUOROMETHANE	2.601	2.395	2.731	2.529	2.310	2.288	2.321	2.215			2.424	7.37
15) ACROLEIN	0.698	0.469	0.517	0.488	0.440	0.441	0.454	0.428			0.492	17.92
16) FREON 123	3.102	2.775	2.649	2.956	2.724	2.475	2.489	2.517	2.412		2.678	8.78
17) FREON 123A	2.001	1.749	1.732	1.936	1.779	1.641	1.650	1.654	1.601		1.749	7.89
18) TRICHLOROFLUOROMETHANE	3.101	2.885	2.699	3.149	2.896	2.690	2.671	2.712	2.588		2.821	7.05
19) ISOPROPYL ALCOHOL	1.816	1.828	1.940	1.757	1.771	1.780	1.520	1.313			1.715	11.71
20) ACETONE	1.124	0.751	0.637	0.580	0.527	0.537	0.533	0.520			0.651	31.69
21) ACRYLONITRILE	1.001	0.837	0.990	0.937	0.851	0.855	0.848	0.834			0.894	7.90
22) PENTANE	0.354	0.372	0.355	0.327	0.301	0.297	0.302	0.290			0.325	9.85
23) TVHC as EQUIV PENTANE												

Initial Calibration Summary

Job Number: JB50276 **Sample:** VW1765-ICC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44080.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
                                                                    0.000   -1.00
24)  IODOMETHANE
            3.356 3.125 3.004 3.483 3.228 3.005 3.045 3.032 2.940  3.135    5.85
25)  1,1-DICHLOROETHYLENE
                  1.233 1.195 1.289 1.203 1.109 1.123 1.121 1.090  1.170    6.00
26)  CARBON DISULFIDE
            3.782 3.474 3.456 3.886 3.530 3.279 3.295 3.327 3.203  3.470    6.70
27)  ETHANOL
                  0.565 0.522 0.485 0.449 0.411 0.409 0.353 0.312  0.438   19.33
28)  ACETONITRILE
                  1.104 0.884 0.957 0.897 0.816 0.814 0.818 0.796  0.886   11.71
29)  BROMOETHENE
            1.329 1.160 1.128 1.295 1.204 1.114 1.125 1.138 1.084  1.175    7.19
30)  METHYLENE CHLORIDE
                  2.217 1.498 1.249 1.121 1.130 1.042 1.192 1.036  1.311   30.12
31)  3-CHLOROPROPENE
            0.645 0.485 0.521 0.606 0.567 0.526 0.533 0.520 0.517  0.547    9.19
32)  FREON 113
            2.556 2.256 2.100 2.478 2.272 2.113 2.153 2.136 2.084  2.239    7.67
33)  TRANS-1,2-DICHLOROETHYLENE
                  1.256 1.292 1.374 1.266 1.202 1.217 1.204 1.165  1.247    5.27
34)  TERTIARY BUTYL ALCOHOL
                  1.521 1.443 2.121 1.845 2.133 2.177 1.905 1.635  1.847   15.63
35)  METHYL TERTIARY BUTYL ETHER
            4.063 3.183 3.328 3.664 3.475 3.141 3.252 3.155 3.094  3.373    9.40
36)  TETRAHYDROFURAN
            0.654 0.612 0.586 0.671 0.628 0.556 0.581 0.560 0.547  0.600    7.39
37)  HEXANE
                  2.281 1.974 2.245 2.060 1.923 1.920 1.944 1.877  2.028    7.63
38)  VINYL ACETATE
            0.374 0.269 0.277 0.343 0.328 0.301 0.318 0.308 0.305  0.314   10.30
39)  1,1-DICHLOROETHANE
            2.384 2.179 2.141 2.404 2.213 2.033 2.038 2.049 1.998  2.160    7.00
40)  METHYL ETHYL KETONE
            0.659 0.596 0.601 0.660 0.628 0.566 0.591 0.566 0.561  0.603    6.36
41)  cis-1,2-DICHLOROETHYLENE
                  1.288 1.223 1.400 1.315 1.220 1.245 1.242 1.202  1.267    5.16
42)  DI-ISOPROPYL ETHER
            4.904 4.059 4.189 4.722 4.402 3.891 3.908 3.903 3.783  4.196    9.50
43)  ETHYL ACETATE
            0.378 0.324 0.371 0.439 0.413 0.373 0.381 0.364 0.363  0.379    8.51
44)  METHYL ACRYLATE
            2.448 1.992 1.995 2.466 2.289 2.079 2.114 2.097 2.047  2.170    8.52
45)  CHLOROFORM
            2.940 2.380 2.401 2.645 2.461 2.235 2.250 2.266 2.190  2.419    9.96
46)  2,4-DIMETHYLPENTANE
            2.912 2.420 2.171 2.590 2.439 2.251 2.253 2.255 2.199  2.388   10.00
47)  1,1,1-TRICHLOROETHANE
            3.024 2.175 2.403 2.699 2.513 2.319 2.344 2.355 2.274  2.456   10.58
48)  CARBON TETRACHLORIDE
            2.793 1.968 2.265 2.700 2.582 2.446 2.457 2.452 2.387  2.450    9.87
49)  1,2-DICHLOROETHANE
            1.628 1.410 1.425 1.619 1.507 1.368 1.376 1.380 1.342  1.451    7.50

50) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
51)  BENZENE
            0.911 0.787 0.791 0.851 0.778 0.703 0.713 0.715 0.699  0.772    9.48
52)  CYCLOHEXANE
                  0.382 0.363 0.380 0.353 0.330 0.333 0.336 0.326  0.350    6.47
53)  2,3-DIMETHYLPENTANE
```

Initial Calibration Summary

Job Number: JB50276 **Sample:** VW1765-ICC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44080.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
                    0.191 0.182 0.194 0.180 0.167 0.170 0.169 0.166  0.177    6.24
54)  TRICHLOROETHYLENE
      0.414 0.384 0.331 0.313 0.352 0.320 0.297 0.302 0.300 0.293  0.331   12.33
55)  DIBROMOMETHANE
            0.369 0.328 0.332 0.374 0.345 0.323 0.332 0.328 0.319  0.339    5.85
56)  1,2-DICHLOROPROPANE
            0.344 0.266 0.294 0.317 0.287 0.257 0.261 0.262 0.257  0.283   10.85
57)  ETHYL ACRYLATE
            0.549 0.481 0.440 0.558 0.524 0.484 0.507 0.476 0.479  0.500    7.63
58)  BROMODICHLOROMETHANE
            0.578 0.449 0.475 0.546 0.505 0.466 0.472 0.472 0.461  0.492    8.81
59)  2,2,4-TRIMETHYLPENTANE
            1.346 1.207 1.182 1.375 1.276 1.179 1.183 1.179 1.161  1.232    6.52
60)  1,4-DIOXANE
                    0.082 0.127 0.154 0.151 0.148 0.158 0.116 0.117  0.132   19.87
61)  METHYL METHACRYLATE
                    0.245 0.252 0.296 0.269 0.246 0.258 0.246 0.245  0.257    6.91
62)  HEPTANE
                    0.445 0.425 0.476 0.442 0.405 0.404 0.408 0.401  0.426    6.26
63)  TVHC as EQUIV HEPTANE
                                                                     0.000   -1.00
64)  METHYL ISOBUTYL KETONE
            0.506 0.340 0.406 0.523 0.483 0.466 0.489 0.445 0.453  0.457   12.21
65)  cis-1,3-DICHLOROPROPENE
            0.505 0.367 0.397 0.473 0.434 0.399 0.412 0.403 0.398  0.421   10.19
66)  TOLUENE
            0.585 0.550 0.544 0.606 0.559 0.503 0.515 0.509 0.497  0.541    7.05
67)  trans-1,3-DICHLOROPROPENE
            0.435 0.281 0.316 0.398 0.376 0.351 0.363 0.355 0.351  0.359   12.36
68)  1,1,2-TRICHLOROETHANE
            0.324 0.250 0.248 0.272 0.250 0.226 0.230 0.229 0.222  0.250   12.69

69) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
70)  ETHYL METHACRYLATE
                    0.807 0.872 1.069 0.985 0.903 0.905 0.909 0.864  0.914    8.79
71)  2-HEXANONE
                    0.744 0.737 1.014 0.959 0.919 0.942 0.929 0.869  0.889   11.29
72)  TETRACHLOROETHYLENE
      1.048 1.084 0.885 0.925 0.974 0.882 0.783 0.755 0.822 0.751  0.891   13.19
73)  DIBROMOCHLOROMETHANE
                    0.991 1.151 1.299 1.185 1.058 1.021 1.105 1.021  1.104    9.41
74)  1,2-DIBROMOETHANE
            1.126 0.803 0.948 1.085 0.994 0.886 0.866 0.929 0.859  0.944   11.38
75)  OCTANE
            1.513 1.281 1.349 1.482 1.327 1.156 1.104 1.201 1.115  1.281   11.77
76)  1,1,1,2-TETRACHLOROETHANE
            1.030 0.722 0.876 0.976 0.893 0.783 0.773 0.820 0.760  0.848   12.26
77)  CHLOROBENZENE
            1.848 1.575 1.589 1.727 1.575 1.389 1.371 1.457 1.351  1.542   10.95
78)  ETHYLBENZENE
            2.923 2.530 2.585 2.790 2.543 2.203 2.163 2.303 2.135  2.464   11.43
79)  m,p-XYLENE
            1.094 0.962 0.985 1.103 1.003 0.872 0.859 0.910 0.848  0.960   10.01
80)  o-XYLENE
            1.048 0.913 0.940 1.041 0.958 0.827 0.811 0.860 0.803  0.911   10.26
81)  STYRENE
            1.639 1.358 1.240 1.556 1.447 1.281 1.281 1.325 1.253  1.376   10.32
82)  1,2,3-TRICHLOROPROPANE
            1.137 0.851 0.867 1.023 0.939 0.820 0.812 0.849 0.795  0.899   12.68
83)  NONANE
```

Initial Calibration Summary

Job Number: JB50276 **Sample:** VW1765-ICC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44080.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
             1.423 1.119 1.145 1.412 1.278 1.124 1.087 1.155 1.097  1.205   11.03
 84)  BROMOFORM
             1.200 0.818 1.014 1.226 1.144 1.049 1.043 1.092 1.024  1.068   11.32
 85)  4-BROMOFLUOROBENZENE
      1.168 1.185 1.198 1.061 1.217 1.209 1.212 1.169 1.229 1.219  1.187    4.12
 86)  1,1,2,2-TETRACHLOROETHANE
             1.422 1.105 1.075 1.286 1.180 1.025 1.017 1.074 1.000  1.132   12.48
 87)  ISOPROPYLBENZENE
             3.146 2.714 2.748 3.062 2.806 2.445 2.411 2.551 2.376  2.695   10.32
 88)  BROMOBENZENE
             0.897 0.798 0.734 0.908 0.845 0.758 0.761 0.791 0.739  0.803    8.17
 89)  2-CHLOROTOLUENE
             0.760 0.617 0.594 0.722 0.662 0.584 0.581 0.611 0.570  0.633   10.63
 90)  n-PROPYLBENZENE
             0.732 0.671 0.636 0.794 0.735 0.656 0.658 0.687 0.640  0.690    7.68
 91)  4-ETHYLTOLUENE
             2.351 2.125 1.897 2.524 2.375 2.136 2.134 2.203 2.091  2.204    8.43
 92)  1,3,5-TRIMETHYLBENZENE
             2.147 1.937 1.684 2.137 2.002 1.772 1.782 1.868 1.734  1.896    9.03
 93)  ALPHA-METHYLSTYRENE
             0.963 0.839 0.688 1.020 0.979 0.897 0.914 0.926 0.884  0.901   10.70
 94)  TERT-BUTYLBENZENE
             0.572 0.518 0.497 0.569 0.537 0.485 0.485 0.515 0.474  0.517    7.01
 95)  1,2,4-TRIMETHYLBENZENE
             1.893 1.710 1.437 1.985 1.870 1.699 1.716 1.821 1.662  1.755    9.15
 96)  m-DICHLOROBENZENE
             1.041 1.015 0.796 1.171 1.155 1.084 1.127 1.122 1.086  1.066   10.64
 97)  BENZYL CHLORIDE
             1.168 0.812 0.629 1.151 1.165 1.194 1.294 1.230 1.200  1.093   20.18
 98)  p-DICHLOROBENZENE
             1.048 0.983 0.762 1.112 1.067 1.043 1.078 1.080 1.022  1.022   10.19
 99)  SEC-BUTYLBENZENE
             0.656 0.565 0.475 0.643 0.615 0.569 0.570 0.585 0.553  0.581    9.28
100)  p-ISOPROPYLTOLUENE
             0.591 0.581 0.429 0.604 0.587 0.565 0.580 0.579 0.561  0.564    9.26
101)  o-DICHLOROBENZENE
             1.046 0.942 0.720 1.051 1.009 0.964 0.996 0.998 0.972  0.966   10.23
102)  n-BUTYLBENZENE
             0.460 0.398 0.268 0.417 0.415 0.438 0.471 0.445 0.448  0.418   14.57
103)  HEXACHLOROETHANE
             0.784 0.487 0.619 0.768 0.740 0.712 0.717 0.731 0.718  0.697   13.11
104)  HEXACHLOROBUTADIENE
                   0.500 0.263 0.321 0.267 0.315 0.369 0.353 0.328  0.339   21.97
105)  1,2,4-TRICHLOROBENZENE
                   0.257 0.123 0.190 0.183 0.240 0.327 0.254 0.258  0.229   27.09
106)  NAPHTHALENE
                   0.592 0.234 0.379 0.377 0.480 0.681 0.547 0.503  0.474   29.68
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MW1765.M          Fri Oct 18 09:20:20 2013   MSW
```

Initial Calibration Verification

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1765-ICV1765
Lab FileID: W44089.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	104	-0.01
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.705	1.4	99	0.00
4		CHLORODIFLUOROMETHANE	0.275	0.253	8.0	97	0.00
5		DICHLORODIFLUOROMETHANE	2.802	2.723	2.8	100	0.00
6		PROPYLENE	0.939	0.874	6.9	101	0.00
7		FREON 114	2.900	2.813	3.0	100	0.00
8		CHLOROMETHANE	0.331	0.315	4.8	99	0.00
9		VINYL CHLORIDE	1.197	1.187	0.8	100	0.00
10		1,3-BUTADIENE	0.941	0.906	3.7	101	0.00
11		n-BUTANE	0.253	0.240	5.1	95	0.00
12		BROMOMETHANE	1.112	1.090	2.0	100	-0.01
13		CHLOROETHANE	0.666	0.660	0.9	100	0.00
14		DICHLOROFLUOROMETHANE	2.424	2.369	2.3	97	0.00
15		ACROLEIN	0.492	0.438	11.0	93	-0.01
16		FREON 123	2.678	2.550	4.8	97	-0.01
17		FREON 123A	1.749	1.661	5.0	97	-0.01
18		TRICHLOROFLUOROMETHANE	2.821	2.782	1.4	100	0.00
19		ISOPROPYL ALCOHOL	1.715	1.441	16.0	85	-0.02
20		ACETONE	0.651	0.517	20.6	93	-0.01
21		ACRYLONITRILE	0.894	0.839	6.2	93	-0.01
22		PENTANE	0.325	0.316	2.8	100	0.00
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	3.161	-0.8	102	0.00
25		1,1-DICHLOROETHYLENE	1.170	1.149	1.8	99	-0.01
26		CARBON DISULFIDE	3.470	3.144	9.4	93	0.00
27		ETHANOL	0.438	0.337	23.1	78	-0.02
28		ACETONITRILE	0.886	0.797	10.0	92	-0.02
29		BROMOETHENE	1.175	1.182	-0.6	102	0.00
30		METHYLENE CHLORIDE	1.311	1.119	14.6	104	-0.01
31		3-CHLOROPROPENE	0.547	0.536	2.0	98	-0.01
32		FREON 113	2.239	2.091	6.6	96	0.00
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.188	4.7	98	-0.01
34		TERTIARY BUTYL ALCOHOL	1.847	1.847	0.0	104	-0.02
35		METHYL TERTIARY BUTYL ETHER	3.373	3.071	9.0	92	-0.01
36		TETRAHYDROFURAN	0.600	0.532	11.3	88	-0.01
37		HEXANE	2.028	1.879	7.3	95	-0.01
38		VINYL ACETATE	0.314	0.300	4.5	95	-0.01
39		1,1-DICHLOROETHANE	2.160	2.045	5.3	96	-0.01
40		METHYL ETHYL KETONE	0.603	0.552	8.5	91	-0.02
41		cis-1,2-DICHLOROETHYLENE	1.267	1.254	1.0	99	-0.01
42		DI-ISOPROPYL ETHER	4.196	3.856	8.1	91	-0.01

Initial Calibration Verification

Job Number: JB50276 **Sample:** VW1765-ICV1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44089.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.333	12.1	84	0.00
44		METHYL ACRYLATE	2.170	2.069	4.7	94	-0.01
45		CHLOROFORM	2.419	2.266	6.3	96	0.00
46		2,4-DIMETHYLPENTANE	2.388	2.276	4.7	97	-0.01
47		1,1,1-TRICHLOROETHANE	2.456	2.298	6.4	95	-0.01
48		CARBON TETRACHLORIDE	2.450	2.442	0.3	98	0.00
49		1,2-DICHLOROETHANE	1.451	1.363	6.1	94	-0.01
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	-0.01
51		BENZENE	0.772	0.717	7.1	93	0.00
52		CYCLOHEXANE	0.350	0.338	3.4	97	0.00
53		2,3-DIMETHYLPENTANE	0.177	0.172	2.8	97	-0.01
54		TRICHLOROETHYLENE	0.331	0.304	8.2	96	-0.01
55		DIBROMOMETHANE	0.339	0.333	1.8	98	-0.01
56		1,2-DICHLOROPROPANE	0.283	0.261	7.8	92	0.00
57		ETHYL ACRYLATE	0.500	0.482	3.6	93	-0.01
58		BROMODICHLOROMETHANE	0.492	0.497	-1.0	99	0.00
59		2,2,4-TRIMETHYLPENTANE	1.232	1.189	3.5	94	0.00
60		1,4-DIOXANE	0.132	0.113	14.4	76	-0.02
61		METHYL METHACRYLATE	0.257	0.252	1.9	95	0.00
62		HEPTANE	0.426	0.411	3.5	94	0.00
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.467	-2.2	98	-0.02
65		cis-1,3-DICHLOROPROPENE	0.421	0.389	7.6	91	0.00
66		TOLUENE	0.541	0.521	3.7	94	0.00
67		trans-1,3-DICHLOROPROPENE	0.359	0.376	-4.7	101	0.00
68		1,1,2-TRICHLOROETHANE	0.250	0.235	6.0	95	-0.01
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	99	0.00
70		ETHYL METHACRYLATE	0.914	0.939	-2.7	94	-0.01
71		2-HEXANONE	0.889	1.025	-15.3	106	-0.01
72		TETRACHLOROETHYLENE	0.891	0.869	2.5	98	0.00
73		DIBROMOCHLOROMETHANE	1.104	1.179	-6.8	98	-0.01
74		1,2-DIBROMOETHANE	0.944	0.976	-3.4	97	0.00
75		OCTANE	1.281	1.246	2.7	93	0.00
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.861	-1.5	95	0.00
77		CHLOROBENZENE	1.542	1.526	1.0	96	0.00
78		ETHYLBENZENE	2.464	2.422	1.7	94	0.00
79		m,p-XYLENE	0.960	0.965	-0.5	95	0.00
80		o-XYLENE	0.911	0.929	-2.0	96	0.00
81		STYRENE	1.376	1.398	-1.6	96	0.00
82		1,2,3-TRICHLOROPROPANE	0.899	0.901	-0.2	95	0.00
83		NONANE	1.205	1.188	1.4	92	0.00
84		BROMOFORM	1.068	1.195	-11.9	103	0.00
85	S	4-BROMOFLUOROBENZENE	1.187	1.248	-5.1	102	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.154	-1.9	97	0.00
87		ISOPROPYLBENZENE	2.695	2.686	0.3	95	0.00
88		BROMOBENZENE	0.803	0.825	-2.7	97	0.00
89		2-CHLOROTOLUENE	0.633	0.636	-0.5	95	0.00
90		n-PROPYLBENZENE	0.690	0.709	-2.8	96	0.00
91		4-ETHYLTOLUENE	2.204	2.334	-5.9	97	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	1.952	-3.0	96	0.00
93		ALPHA-METHYLSTYRENE	0.901	0.941	-4.4	95	0.00
94		TERT-BUTYLBENZENE	0.517	0.529	-2.3	98	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	1.879	-7.1	99	0.00
96		m-DICHLOROBENZENE	1.066	1.134	-6.4	97	0.00
97		BENZYL CHLORIDE	1.093	1.229	-12.4	104	0.00
98		p-DICHLOROBENZENE	1.022	1.095	-7.1	101	0.00
99		SEC-BUTYLBENZENE	0.581	0.591	-1.7	95	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.569	-0.9	96	0.00

Initial Calibration Verification

Job Number: JB50276 **Sample:** VW1765-ICV1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44089.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	1.017	-5.3	100	0.00
102	n-BUTYLBENZENE	0.418	0.419	-0.2	100	0.00
103	HEXACHLOROETHANE	0.697	0.733	-5.2	98	0.00
104	HEXACHLOROBUTADIENE	0.339	0.269	20.6	100	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.187	18.3	101	0.00
106	NAPHTHALENE	0.474	0.441	7.0	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Fri Oct 18 09:21:05 2013 MSW

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1767-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44119.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W44119.D Vial: 2
Acq On : 17 Oct 2013 9:26 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	86	-0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.000	100.0#	0#	-4.64#
4		CHLORODIFLUOROMETHANE	0.275	0.251	8.7	80	-0.03
5		DICHLORODIFLUOROMETHANE	2.802	2.628	6.2	80	-0.04
6		PROPYLENE	0.939	0.826	12.0	79	-0.03
7		FREON 114	2.900	2.685	7.4	79	-0.03
8		CHLOROMETHANE	0.331	0.302	8.8	79	-0.03
9		VINYL CHLORIDE	1.197	1.112	7.1	77	-0.03
10		1,3-BUTADIENE	0.941	0.834	11.4	77	-0.03
11		n-BUTANE	0.253	0.230	9.1	76	-0.02
12		BROMOMETHANE	1.112	1.013	8.9	77	-0.03
13		CHLOROETHANE	0.666	0.614	7.8	77	-0.02
14		DICHLOROFLUOROMETHANE	2.424	2.243	7.5	77	-0.03
15		ACROLEIN	0.492	0.417	15.2	74	-0.04
16		FREON 123	2.678	2.443	8.8	77	-0.03
17		FREON 123A	1.749	1.612	7.8	78	-0.04
18		TRICHLOROFLUOROMETHANE	2.821	2.645	6.2	79	-0.02
19		ISOPROPYL ALCOHOL	1.715	1.455	15.2	71	-0.05
20		ACETONE	0.651	0.495	24.0	74	-0.03
21		ACRYLONITRILE	0.894	0.805	10.0	74	-0.03
22		PENTANE	0.325	0.289	11.1	76	-0.02
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	2.980	4.9	80	-0.03
25		1,1-DICHLOROETHYLENE	1.170	1.058	9.6	76	-0.03
26		CARBON DISULFIDE	3.470	2.945	15.1	72	-0.02
27		ETHANOL	0.438	0.343	21.7	66	-0.05
28		ACETONITRILE	0.886	0.776	12.4	75	-0.04
29		BROMOETHENE	1.175	1.102	6.2	79	-0.03
30		METHYLENE CHLORIDE	1.311	1.141	13.0	88	-0.03
31		3-CHLOROPROPENE	0.547	0.504	7.9	77	-0.02
32		FREON 113	2.239	2.032	9.2	77	-0.02
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.132	9.2	77	-0.02
34		TERTIARY BUTYL ALCOHOL	1.847	1.873	-1.4	88	-0.05
35		METHYL TERTIARY BUTYL ETHER	3.373	2.950	12.5	73	-0.02
36		TETRAHYDROFURAN	0.600	0.507	15.5	70	-0.02
37		HEXANE	2.028	1.788	11.8	75	-0.02
38		VINYL ACETATE	0.314	0.299	4.8	79	-0.02
39		1,1-DICHLOROETHANE	2.160	1.946	9.9	76	-0.02
40		METHYL ETHYL KETONE	0.603	0.535	11.3	73	-0.03
41		cis-1,2-DICHLOROETHYLENE	1.267	1.213	4.3	80	-0.02
42		DI-ISOPROPYL ETHER	4.196	3.634	13.4	71	-0.02

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1767-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44119.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.317	16.4	66	-0.02
44		METHYL ACRYLATE	2.170	1.973	9.1	74	-0.02
45		CHLOROFORM	2.419	2.182	9.8	76	-0.02
46		2,4-DIMETHYLPENTANE	2.388	2.136	10.6	76	-0.02
47		1,1,1-TRICHLOROETHANE	2.456	2.221	9.6	76	-0.02
48		CARBON TETRACHLORIDE	2.450	2.382	2.8	80	-0.02
49		1,2-DICHLOROETHANE	1.451	1.327	8.5	76	-0.02
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	83	-0.02
51		BENZENE	0.772	0.706	8.5	75	-0.02
52		CYCLOHEXANE	0.350	0.330	5.7	77	-0.02
53		2,3-DIMETHYLPENTANE	0.177	0.166	6.2	76	-0.02
54		TRICHLOROETHYLENE	0.331	0.301	9.1	78	-0.02
55		DIBROMOMETHANE	0.339	0.333	1.8	80	-0.02
56		1,2-DICHLOROPROPANE	0.283	0.254	10.2	73	-0.01
57		ETHYL ACRYLATE	0.500	0.459	8.2	73	-0.02
58		BROMODICHLOROMETHANE	0.492	0.487	1.0	80	-0.01
59		2,2,4-TRIMETHYLPENTANE	1.232	1.148	6.8	75	-0.01
60		1,4-DIOXANE	0.132	0.118	10.6	65	-0.02
61		METHYL METHACRYLATE	0.257	0.240	6.6	74	-0.01
62		HEPTANE	0.426	0.397	6.8	74	-0.01
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.446	2.4	77	-0.02
65		cis-1,3-DICHLOROPROPENE	0.421	0.378	10.2	72	-0.01
66		TOLUENE	0.541	0.514	5.0	76	-0.01
67		trans-1,3-DICHLOROPROPENE	0.359	0.367	-2.2	81	-0.01
68		1,1,2-TRICHLOROETHANE	0.250	0.231	7.6	77	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	81	0.00
70		ETHYL METHACRYLATE	0.914	0.916	-0.2	75	-0.01
71		2-HEXANONE	0.889	0.971	-9.2	82	-0.02
72		TETRACHLOROETHYLENE	0.891	0.878	1.5	80	0.00
73		DIBROMOCHLOROMETHANE	1.104	1.190	-7.8	81	-0.01
74		1,2-DIBROMOETHANE	0.944	0.976	-3.4	79	-0.01
75		OCTANE	1.281	1.168	8.8	71	-0.01
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.862	-1.7	78	0.00
77		CHLOROBENZENE	1.542	1.527	1.0	78	-0.01
78		ETHYLBENZENE	2.464	2.380	3.4	75	0.00
79		m,p-XYLENE	0.960	0.956	0.4	77	0.00
80		o-XYLENE	0.911	0.931	-2.2	78	0.00
81		STYRENE	1.376	1.380	-0.3	77	0.00
82		1,2,3-TRICHLOROPROPANE	0.899	0.885	1.6	76	0.00
83		NONANE	1.205	1.120	7.1	71	0.00
84		BROMOFORM	1.068	1.224	-14.6	86	0.00
85	S	4-BROMOFLUOROBENZENE	1.187	1.295	-9.1	86	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.144	-1.1	78	0.00
87		ISOPROPYLBENZENE	2.695	2.673	0.8	77	0.00
88		BROMOBENZENE	0.803	0.845	-5.2	81	0.00
89		2-CHLOROTOLUENE	0.633	0.643	-1.6	78	0.00
90		n-PROPYLBENZENE	0.690	0.709	-2.8	78	0.00
91		4-ETHYLTOLUENE	2.204	2.346	-6.4	80	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	1.938	-2.2	78	0.00
93		ALPHA-METHYLSTYRENE	0.901	0.942	-4.6	78	0.00
94		TERT-BUTYLBENZENE	0.517	0.525	-1.5	79	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	1.818	-3.6	78	0.00
96		m-DICHLOROBENZENE	1.066	1.186	-11.3	83	0.00
97		BENZYL CHLORIDE	1.093	1.252	-14.5	87	0.00
98		p-DICHLOROBENZENE	1.022	1.124	-10.0	85	0.00
99		SEC-BUTYLBENZENE	0.581	0.601	-3.4	79	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.593	-5.1	81	0.00

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1767-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44119.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	1.054	-9.1	84	0.00
102	n-BUTYLBENZENE	0.418	0.440	-5.3	86	0.00
103	HEXACHLOROETHANE	0.697	0.763	-9.5	83	0.00
104	HEXACHLOROBUTADIENE	0.339	0.313	7.7	95	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.226	1.3	100	0.00
106	NAPHTHALENE	0.474	0.462	2.5	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Fri Oct 18 09:46:21 2013 MSW

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1768-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44146.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\W44146.D                    Vial: 2
Acq On    : 18 Oct 2013   9:40 am                     Operator: danat
Sample    : cc1765-10                                 Inst    : MSW
Misc      : MS56739,VW1768,,,,,1                      Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title        : TO15 by GCMS w/Rtx-1, 60m  X 0.32mm ID X 1.0 um
Last Update  : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  60%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 140%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	81	-0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.000	100.0#	0#	-4.64#
4		CHLORODIFLUOROMETHANE	0.275	0.243	11.6	73	-0.03
5		DICHLORODIFLUOROMETHANE	2.802	2.563	8.5	73	-0.04
6		PROPYLENE	0.939	0.821	12.6	73	-0.04
7		FREON 114	2.900	2.624	9.5	72	-0.04
8		CHLOROMETHANE	0.331	0.298	10.0	73	-0.04
9		VINYL CHLORIDE	1.197	1.086	9.3	71	-0.04
10		1,3-BUTADIENE	0.941	0.831	11.7	72	-0.04
11		n-BUTANE	0.253	0.229	9.5	71	-0.04
12		BROMOMETHANE	1.112	0.998	10.3	71	-0.04
13		CHLOROETHANE	0.666	0.609	8.6	71	-0.03
14		DICHLOROFLUOROMETHANE	2.424	2.214	8.7	71	-0.04
15		ACROLEIN	0.492	0.401	18.5	67	-0.04
16		FREON 123	2.678	2.397	10.5	71	-0.04
17		FREON 123A	1.749	1.558	10.9	71	-0.04
18		TRICHLOROFLUOROMETHANE	2.821	2.588	8.3	72	-0.03
19		ISOPROPYL ALCOHOL	1.715	1.553	9.4	71	-0.05
20		ACETONE	0.651	0.562	13.7	78	-0.04
21		ACRYLONITRILE	0.894	0.757	15.3	65	-0.04
22		PENTANE	0.325	0.285	12.3	70	-0.03
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	2.883	8.0	72	-0.03
25		1,1-DICHLOROETHYLENE	1.170	1.054	9.9	71	-0.03
26		CARBON DISULFIDE	3.470	2.905	16.3	67	-0.03
27		ETHANOL	0.438	0.365	16.7	66	-0.05
28		ACETONITRILE	0.886	0.733	17.3	66	-0.04
29		BROMOETHENE	1.175	1.089	7.3	73	-0.03
30		METHYLENE CHLORIDE	1.311	1.161	11.4	84	-0.04
31		3-CHLOROPROPENE	0.547	0.497	9.1	71	-0.03
32		FREON 113	2.239	1.943	13.2	69	-0.03
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.109	11.1	71	-0.03
34		TERTIARY BUTYL ALCOHOL	1.847	2.001	-8.3	88	-0.05
35		METHYL TERTIARY BUTYL ETHER	3.373	2.722	19.3	63	-0.03
36		TETRAHYDROFURAN	0.600	0.584	2.7	75	-0.02
37		HEXANE	2.028	1.753	13.6	69	-0.02
38		VINYL ACETATE	0.314	0.273	13.1	67	-0.03
39		1,1-DICHLOROETHANE	2.160	1.887	12.6	69	-0.03
40		METHYL ETHYL KETONE	0.603	0.553	8.3	71	-0.03
41		cis-1,2-DICHLOROETHYLENE	1.267	1.167	7.9	72	-0.02
42		DI-ISOPROPYL ETHER	4.196	3.373	19.6	62	-0.02

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1768-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44146.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.296	21.9	58#	-0.02
44		METHYL ACRYLATE	2.170	1.841	15.2	65	-0.02
45		CHLOROFORM	2.419	2.081	14.0	68	-0.02
46		2,4-DIMETHYLPENTANE	2.388	2.056	13.9	68	-0.02
47		1,1,1-TRICHLOROETHANE	2.456	2.130	13.3	69	-0.02
48		CARBON TETRACHLORIDE	2.450	2.257	7.9	71	-0.02
49		1,2-DICHLOROETHANE	1.451	1.249	13.9	67	-0.03
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	79	-0.02
51		BENZENE	0.772	0.661	14.4	67	-0.02
52		CYCLOHEXANE	0.350	0.312	10.9	70	-0.02
53		2,3-DIMETHYLPENTANE	0.177	0.157	11.3	69	-0.02
54		TRICHLOROETHYLENE	0.331	0.280	15.4	69	-0.02
55		DIBROMOMETHANE	0.339	0.303	10.6	69	-0.02
56		1,2-DICHLOROPROPANE	0.283	0.236	16.6	65	-0.02
57		ETHYL ACRYLATE	0.500	0.407	18.6	61	-0.02
58		BROMODICHLOROMETHANE	0.492	0.454	7.7	71	-0.02
59		2,2,4-TRIMETHYLPENTANE	1.232	1.090	11.5	67	-0.02
60		1,4-DIOXANE	0.132	0.123	6.8	64	-0.02
61		METHYL METHACRYLATE	0.257	0.218	15.2	64	-0.01
62		HEPTANE	0.426	0.376	11.7	67	-0.02
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.404	11.6	66	-0.02
65		cis-1,3-DICHLOROPROPENE	0.421	0.353	16.2	64	-0.02
66		TOLUENE	0.541	0.469	13.3	66	-0.01
67		trans-1,3-DICHLOROPROPENE	0.359	0.341	5.0	71	-0.01
68		1,1,2-TRICHLOROETHANE	0.250	0.211	15.6	66	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	75	-0.01
70		ETHYL METHACRYLATE	0.914	0.834	8.8	64	-0.01
71		2-HEXANONE	0.889	0.878	1.2	69	-0.01
72		TETRACHLOROETHYLENE	0.891	0.823	7.6	70	-0.01
73		DIBROMOCHLOROMETHANE	1.104	1.111	-0.6	70	-0.02
74		1,2-DIBROMOETHANE	0.944	0.901	4.6	68	-0.01
75		OCTANE	1.281	1.131	11.7	64	-0.01
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.805	5.1	68	0.00
77		CHLOROBENZENE	1.542	1.416	8.2	68	-0.01
78		ETHYLBENZENE	2.464	2.217	10.0	66	0.00
79		m,p-XYLENE	0.960	0.885	7.8	66	-0.01
80		o-XYLENE	0.911	0.851	6.6	67	-0.01
81		STYRENE	1.376	1.273	7.5	66	0.00
82		1,2,3-TRICHLOROPROPANE	0.899	0.811	9.8	65	0.00
83		NONANE	1.205	1.053	12.6	62	0.00
84		BROMOFORM	1.068	1.107	-3.7	73	0.00
85	S	4-BROMOFLUOROBENZENE	1.187	1.232	-3.8	77	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.052	7.1	67	0.00
87		ISOPROPYLBENZENE	2.695	2.443	9.4	65	0.00
88		BROMOBENZENE	0.803	0.767	4.5	68	0.00
89		2-CHLOROTOLUENE	0.633	0.586	7.4	67	0.00
90		n-PROPYLBENZENE	0.690	0.649	5.9	66	0.00
91		4-ETHYLTOLUENE	2.204	2.124	3.6	67	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	1.737	8.4	65	0.00
93		ALPHA-METHYLSTYRENE	0.901	0.847	6.0	65	0.00
94		TERT-BUTYLBENZENE	0.517	0.463	10.4	65	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	1.634	6.9	66	0.00
96		m-DICHLOROBENZENE	1.066	1.061	0.5	69	0.00
97		BENZYL CHLORIDE	1.093	1.118	-2.3	72	0.00
98		p-DICHLOROBENZENE	1.022	0.995	2.6	70	0.00
99		SEC-BUTYLBENZENE	0.581	0.536	7.7	65	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.511	9.4	66	0.00

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1768-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44146.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	0.934	3.3	70	0.00
102	n-BUTYLBENZENE	0.418	0.373	10.8	67	0.00
103	HEXACHLOROETHANE	0.697	0.682	2.2	69	0.00
104	HEXACHLOROBUTADIENE	0.339	0.261	23.0	73	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.187	18.3	77	0.00
106	NAPHTHALENE	0.474	0.391	17.5	78	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Fri Oct 18 16:59:29 2013 MSW

Continuing Calibration Summary

Job Number: JB50276
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1771-CC1765
Lab FileID: W44218.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\W44218.D                    Vial: 2
Acq On    : 22 Oct 2013  10:25 am                    Operator: danat
Sample    : cc1765-10                                Inst    : MSW
Misc      : MS57076,VW1771,,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title        : TO15 by GCMS w/Rtx-1, 60m  X 0.32mm ID X 1.0 um
Last Update  : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  60%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 140%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	89	-0.03
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.000	100.0#	0#	-4.64#
4		CHLORODIFLUOROMETHANE	0.275	0.245	10.9	81	-0.03
5		DICHLORODIFLUOROMETHANE	2.802	2.572	8.2	81	-0.04
6		PROPYLENE	0.939	0.809	13.8	80	-0.03
7		FREON 114	2.900	2.643	8.9	81	-0.04
8		CHLOROMETHANE	0.331	0.295	10.9	80	-0.03
9		VINYL CHLORIDE	1.197	1.099	8.2	79	-0.03
10		1,3-BUTADIENE	0.941	0.815	13.4	78	-0.03
11		n-BUTANE	0.253	0.225	11.1	77	-0.03
12		BROMOMETHANE	1.112	1.019	8.4	81	-0.04
13		CHLOROETHANE	0.666	0.609	8.6	79	-0.03
14		DICHLOROFLUOROMETHANE	2.424	2.214	8.7	78	-0.03
15		ACROLEIN	0.492	0.443	10.0	81	-0.04
16		FREON 123	2.678	2.425	9.4	80	-0.04
17		FREON 123A	1.749	1.622	7.3	81	-0.04
18		TRICHLOROFLUOROMETHANE	2.821	2.604	7.7	80	-0.03
19		ISOPROPYL ALCOHOL	1.715	1.595	7.0	81	-0.05
20		ACETONE	0.651	0.532	18.3	82	-0.04
21		ACRYLONITRILE	0.894	0.847	5.3	81	-0.04
22		PENTANE	0.325	0.285	12.3	78	-0.04
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	2.988	4.7	83	-0.03
25		1,1-DICHLOROETHYLENE	1.170	1.065	9.0	79	-0.03
26		CARBON DISULFIDE	3.470	2.930	15.6	74	-0.03
27		ETHANOL	0.438	0.386	11.9	77	-0.05
28		ACETONITRILE	0.886	0.812	8.4	81	-0.04
29		BROMOETHENE	1.175	1.110	5.5	82	-0.03
30		METHYLENE CHLORIDE	1.311	0.991	24.4	79	-0.04
31		3-CHLOROPROPENE	0.547	0.502	8.2	79	-0.03
32		FREON 113	2.239	2.038	9.0	80	-0.03
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.136	8.9	80	-0.03
34		TERTIARY BUTYL ALCOHOL	1.847	1.987	-7.6	96	-0.04
35		METHYL TERTIARY BUTYL ETHER	3.373	2.813	16.6	72	-0.02
36		TETRAHYDROFURAN	0.600	0.507	15.5	72	-0.02
37		HEXANE	2.028	1.713	15.5	74	-0.03
38		VINYL ACETATE	0.314	0.295	6.1	80	-0.03
39		1,1-DICHLOROETHANE	2.160	1.928	10.7	78	-0.03
40		METHYL ETHYL KETONE	0.603	0.545	9.6	78	-0.03
41		cis-1,2-DICHLOROETHYLENE	1.267	1.202	5.1	82	-0.02
42		DI-ISOPROPYL ETHER	4.196	3.386	19.3	69	-0.03

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1771-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44218.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.315	16.9	68	-0.02
44		METHYL ACRYLATE	2.170	2.009	7.4	78	-0.02
45		CHLOROFORM	2.419	2.137	11.7	78	-0.02
46		2,4-DIMETHYLPENTANE	2.388	2.048	14.2	75	-0.02
47		1,1,1-TRICHLOROETHANE	2.456	2.148	12.5	76	-0.02
48		CARBON TETRACHLORIDE	2.450	2.312	5.6	80	-0.02
49		1,2-DICHLOROETHANE	1.451	1.295	10.8	77	-0.03
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	-0.02
51		BENZENE	0.772	0.713	7.6	77	-0.02
52		CYCLOHEXANE	0.350	0.333	4.9	79	-0.02
53		2,3-DIMETHYLPENTANE	0.177	0.165	6.8	77	-0.02
54		TRICHLOROETHYLENE	0.331	0.301	9.1	79	-0.02
55		DIBROMOMETHANE	0.339	0.344	-1.5	83	-0.02
56		1,2-DICHLOROPROPANE	0.283	0.252	11.0	73	-0.02
57		ETHYL ACRYLATE	0.500	0.459	8.2	73	-0.02
58		BROMODICHLOROMETHANE	0.492	0.486	1.2	80	-0.02
59		2,2,4-TRIMETHYLPENTANE	1.232	1.127	8.5	74	-0.02
60		1,4-DIOXANE	0.132	0.129	2.3	71	-0.02
61		METHYL METHACRYLATE	0.257	0.241	6.2	75	-0.01
62		HEPTANE	0.426	0.382	10.3	72	-0.02
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.432	5.5	75	-0.02
65		cis-1,3-DICHLOROPROPENE	0.421	0.378	10.2	73	-0.02
66		TOLUENE	0.541	0.515	4.8	77	-0.01
67		trans-1,3-DICHLOROPROPENE	0.359	0.375	-4.5	83	-0.02
68		1,1,2-TRICHLOROETHANE	0.250	0.234	6.4	78	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	81	-0.01
70		ETHYL METHACRYLATE	0.914	0.914	0.0	75	-0.01
71		2-HEXANONE	0.889	0.992	-11.6	84	-0.02
72		TETRACHLOROETHYLENE	0.891	0.904	-1.5	83	-0.01
73		DIBROMOCHLOROMETHANE	1.104	1.227	-11.1	84	-0.02
74		1,2-DIBROMOETHANE	0.944	1.014	-7.4	82	-0.02
75		OCTANE	1.281	1.155	9.8	70	-0.02
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.904	-6.6	82	-0.01
77		CHLOROBENZENE	1.542	1.584	-2.7	81	-0.01
78		ETHYLBENZENE	2.464	2.426	1.5	77	-0.01
79		m,p-XYLENE	0.960	0.994	-3.5	80	-0.01
80		o-XYLENE	0.911	0.964	-5.8	81	-0.01
81		STYRENE	1.376	1.447	-5.2	81	-0.01
82		1,2,3-TRICHLOROPROPANE	0.899	0.981	-9.1	84	0.00
83		NONANE	1.205	1.139	5.5	72	0.00
84		BROMOFORM	1.068	1.329	-24.4	94	-0.01
85	S	4-BROMOFLUOROBENZENE	1.187	1.279	-7.8	85	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.299	-14.8	89	-0.01
87		ISOPROPYLBENZENE	2.695	2.802	-4.0	81	-0.01
88		BROMOBENZENE	0.803	0.918	-14.3	88	-0.01
89		2-CHLOROTOLUENE	0.633	0.710	-12.2	87	0.00
90		n-PROPYLBENZENE	0.690	0.780	-13.0	86	0.00
91		4-ETHYLTOLUENE	2.204	2.546	-15.5	87	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	2.139	-12.8	86	-0.01
93		ALPHA-METHYLSTYRENE	0.901	1.075	-19.3	89	0.00
94		TERT-BUTYLBENZENE	0.517	0.590	-14.1	89	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	2.075	-18.2	90	-0.01
96		m-DICHLOROBENZENE	1.066	1.418	-33.0#	99	0.00
97		BENZYL CHLORIDE	1.093	1.525	-39.5#	106	0.00
98		p-DICHLOROBENZENE	1.022	1.345	-31.6#	102	0.00
99		SEC-BUTYLBENZENE	0.581	0.698	-20.1	92	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.702	-24.5	97	0.00

Continuing Calibration Summary

Job Number: JB50276 **Sample:** VW1771-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44218.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	1.318	-36.4#	106	0.00
102	n-BUTYLBENZENE	0.418	0.569	-36.1#	111	0.00
103	HEXACHLOROETHANE	0.697	0.977	-40.2#	107	0.00
104	HEXACHLOROBUTADIENE	0.339	0.606	-78.8#	183#	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.503	-119.7#	222#	0.00
106	NAPHTHALENE	0.474	1.112	-134.6#	238#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Tue Oct 22 12:28:36 2013 MSW

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 16:15

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44141.D Vial: 13
Acq On : 18 Oct 2013 1:05 am Operator: danat
Sample : jb50276-2 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 08:29:06 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

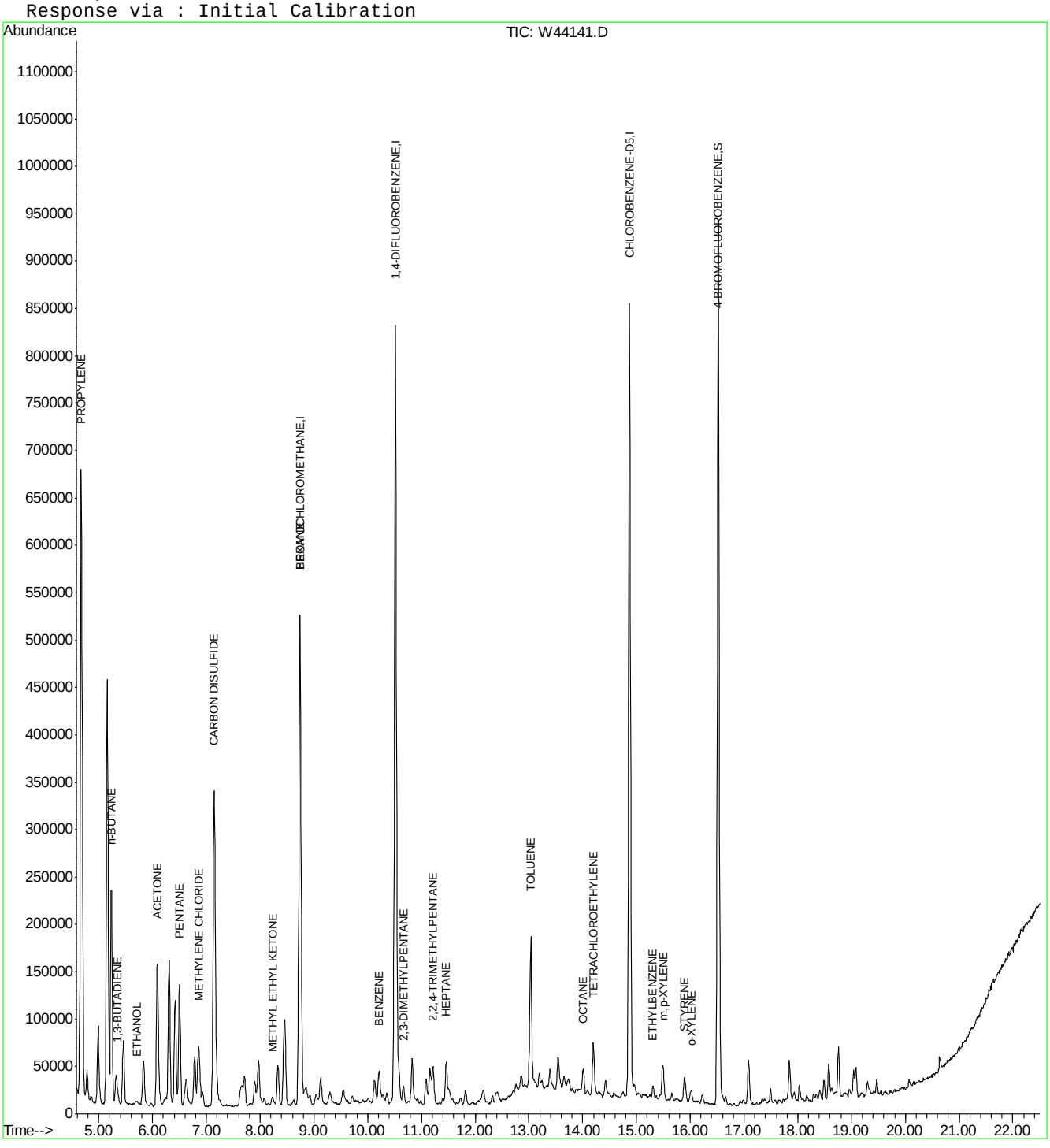
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	193567	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	984538	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	376610	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	450120	10.07	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.70%			
Target Compounds						Qvalue
6) PROPYLENE	4.67	41	453346	24.93	PPBV	97
10) 1,3-BUTADIENE	5.35	54	7849m	0.43	PPBV	
11) n-BUTANE	5.24	58	37891	7.73	PPBV	96
20) ACETONE	6.10	58	39830	3.16	PPBV #	53
22) PENTANE	6.50	57	17842	2.71	PPBV	99
26) CARBON DISULFIDE	7.15	76	721989	10.75	PPBV	99
27) ETHANOL	5.71	45	5527	0.65	PPBV #	44
30) METHYLENE CHLORIDE	6.85	84	36627	1.44	PPBV	99
37) HEXANE	8.75	57	48944	1.25	PPBV	90
40) METHYL ETHYL KETONE	8.24	72	4650	0.40	PPBV #	83
51) BENZENE	10.21	78	34703	0.46	PPBV	97
53) 2,3-DIMETHYLPENTANE	10.66	71	4188	0.24	PPBV	83
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	37000	0.31	PPBV	91
62) HEPTANE	11.46	43	24281	0.58	PPBV	96
66) TOLUENE	13.03	92	101296	1.90	PPBV	99
72) TETRACHLOROETHYLENE	14.20	164	20071	0.60	PPBV	99
75) OCTANE	14.00	43	12456	0.26	PPBV	94
78) ETHYLBENZENE	15.30	91	14383	0.16	PPBV	98
79) m,p-XYLENE	15.49	106	15888	0.44	PPBV	100
80) o-XYLENE	16.02	106	4782	0.14	PPBV	90
81) STYRENE	15.90	104	13122	0.25	PPBV	97

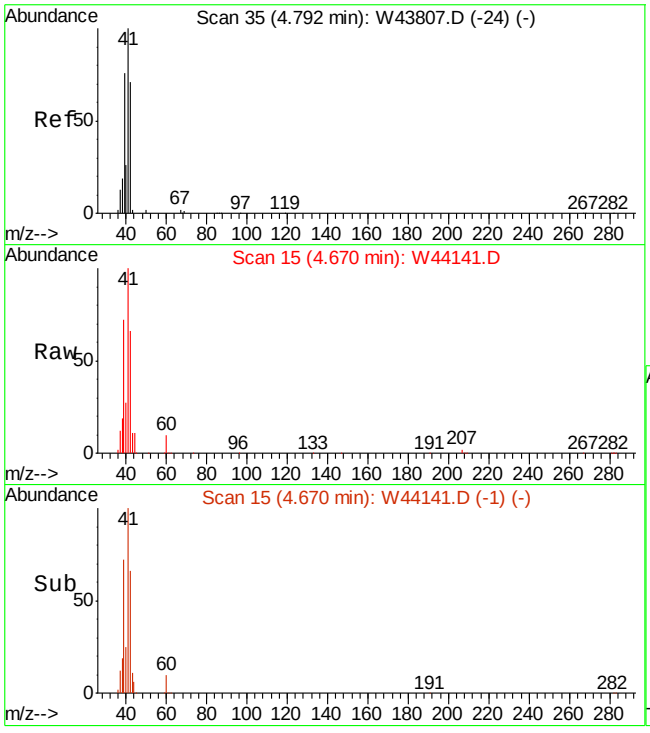
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44141.D Vial: 13
Acq On : 18 Oct 2013 1:05 am Operator: danat
Sample : jb50276-2 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 14:17 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration

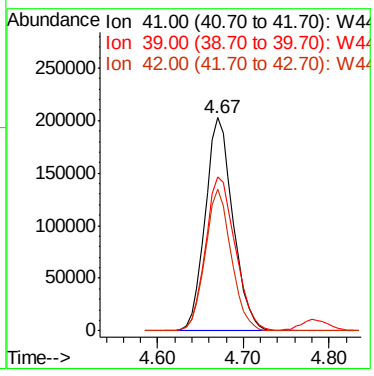


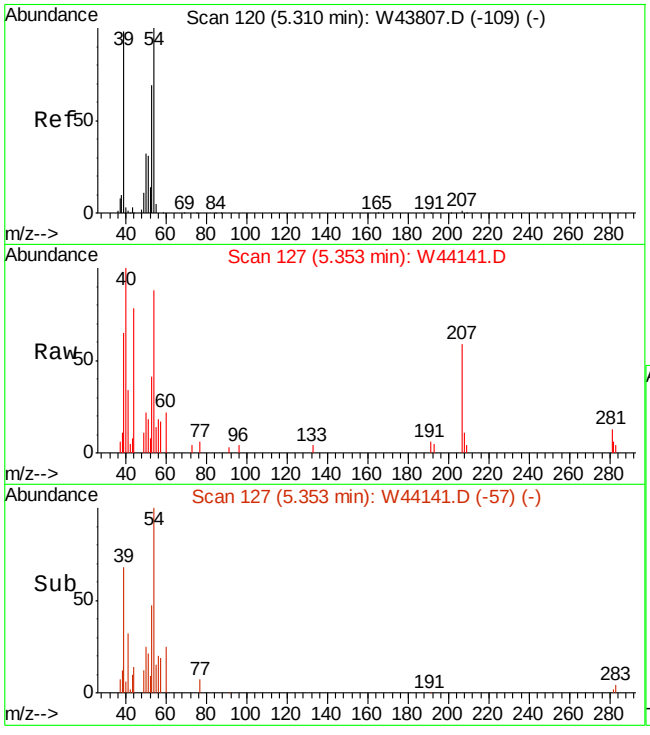


#6
PROPYLENE
Concen: 24.93 PPBV
RT: 4.67 min Scan# 15
Delta R.T. -0.04 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 41 Resp: 453346

Ion	Ratio	Lower	Upper
41	100		
39	72.1	48.7	88.7
42	66.2	44.9	84.9

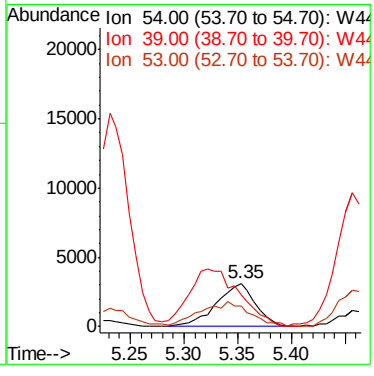


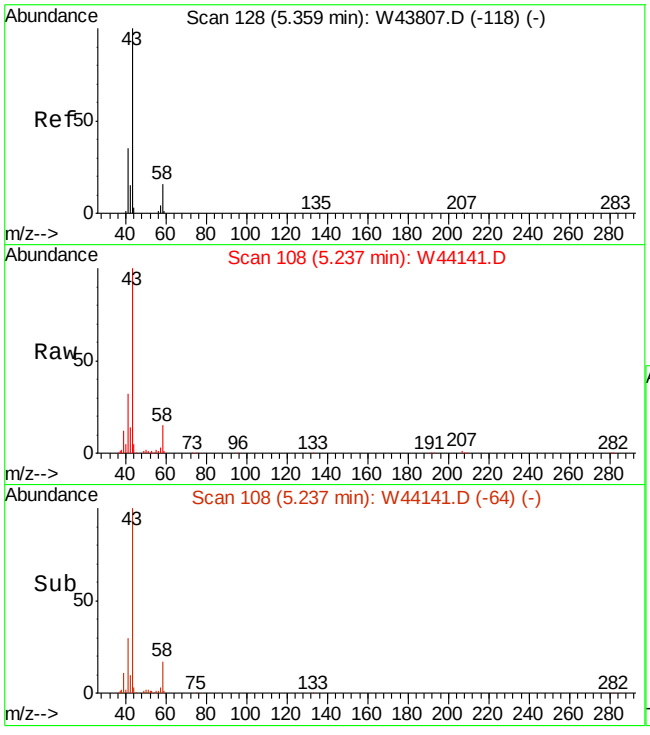


#10
1,3-BUTADIENE
Concen: 0.43 PPBV m
RT: 5.35 min Scan# 127
Delta R.T. 0.13 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 54 Resp: 7849

Ion	Ratio	Lower	Upper
54	100		
39	0.0	100.8	140.8#
53	0.0	51.2	91.2#

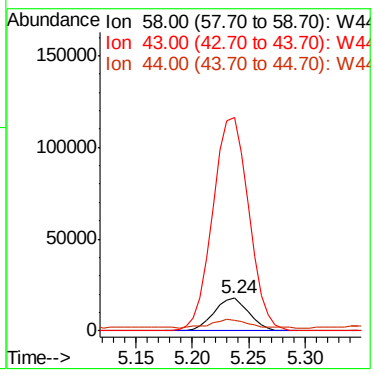


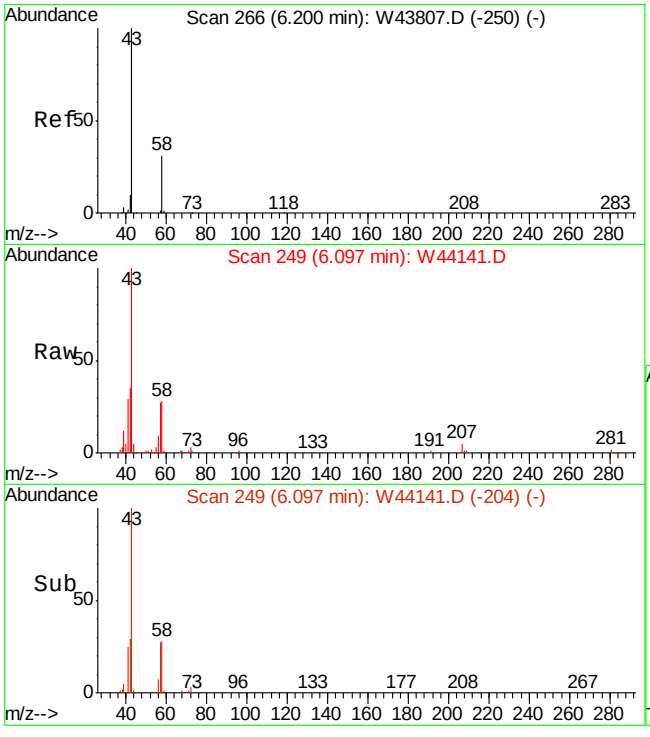


#11
n-BUTANE
Concen: 7.73 PPBV
RT: 5.24 min Scan# 108
Delta R.T. -0.03 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 58 Resp: 37891

Ion	Ratio	Lower	Upper
58	100		
43	677.3	552.0	828.0
44	27.1	20.4	30.6

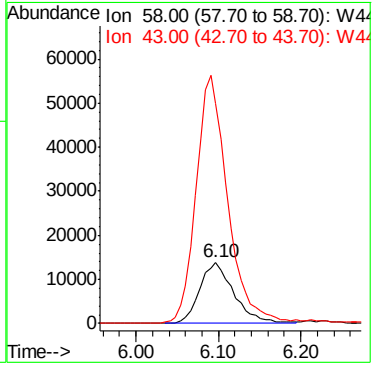


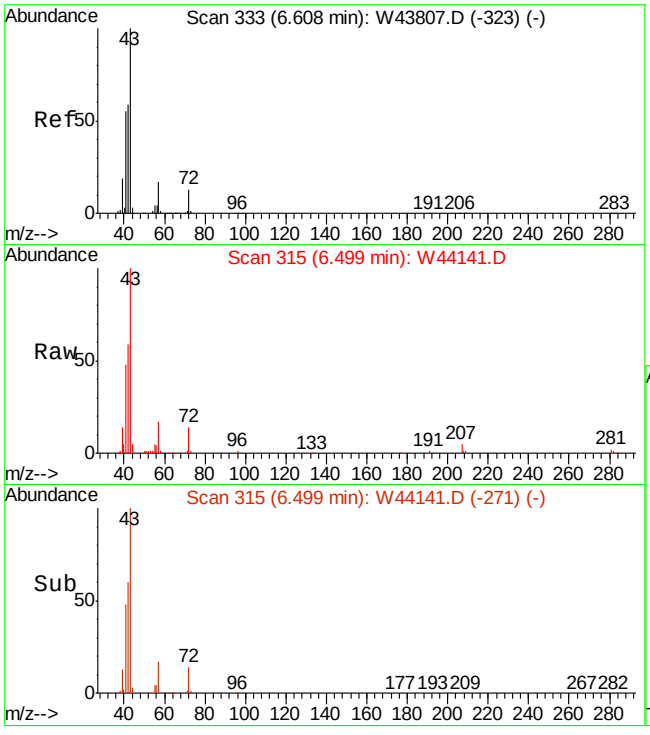


#20
ACETONE
Concen: 3.16 PPBV
RT: 6.10 min Scan# 249
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 58 Resp: 39830

Ion	Ratio	Lower	Upper
58	100		
43	380.6	270.7	310.7#

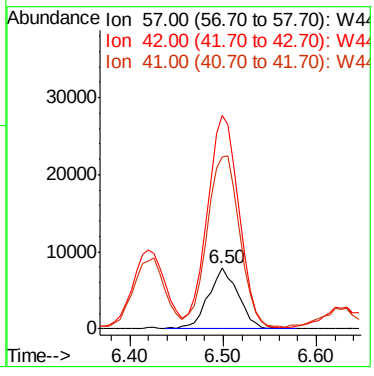


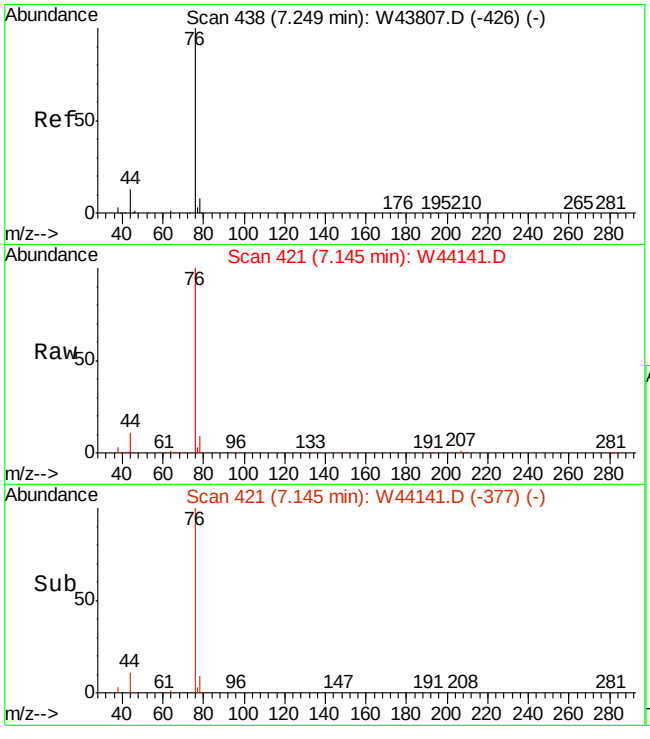


#22
PENTANE
Concen: 2.71 PPBV
RT: 6.50 min Scan# 315
Delta R.T. -0.03 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 57 Resp: 17842

Ion	Ratio	Lower	Upper
57	100		
42	371.7	352.7	392.7
41	303.8	286.0	326.0

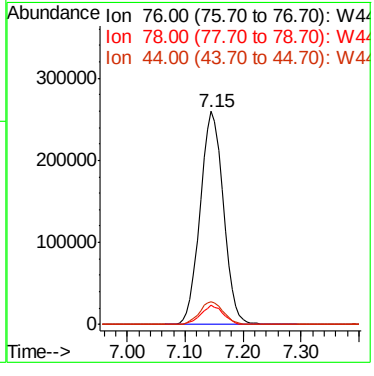


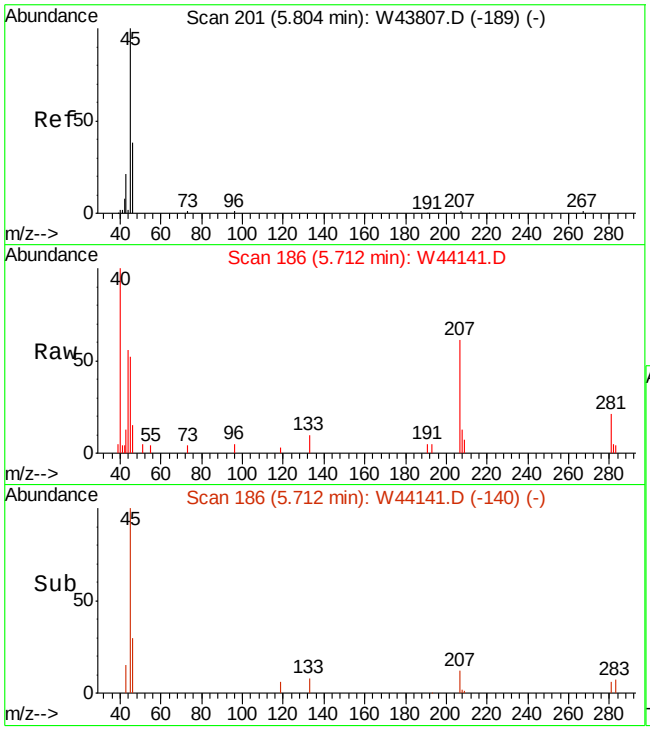


#26
CARBON DISULFIDE
Concen: 10.75 PPBV
RT: 7.15 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 76 Resp: 721989

Ion	Ratio	Lower	Upper
76	100		
78	8.7	0.0	29.0
44	10.7	0.0	31.4

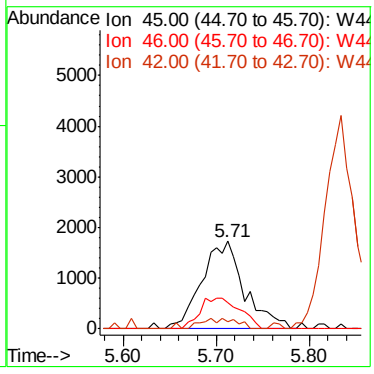


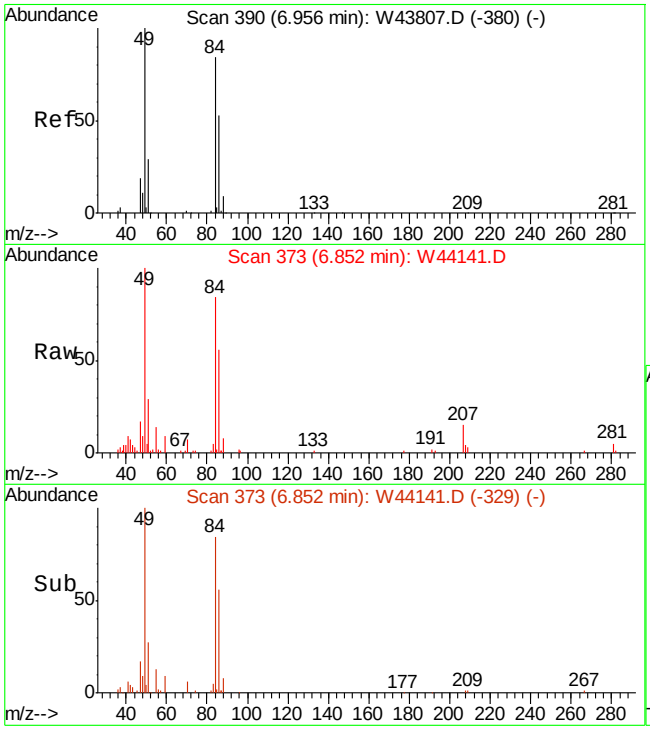


#27
ETHANOL
Concen: 0.65 PPBV
RT: 5.71 min Scan# 186
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 45 Resp: 5527

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.3	58.3#
42	0.0	0.0	27.7

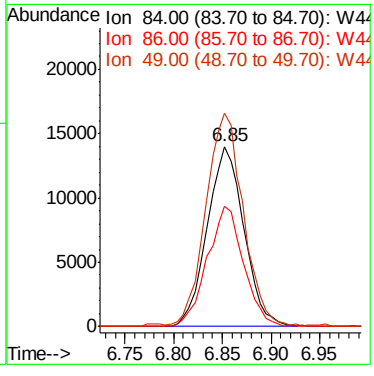


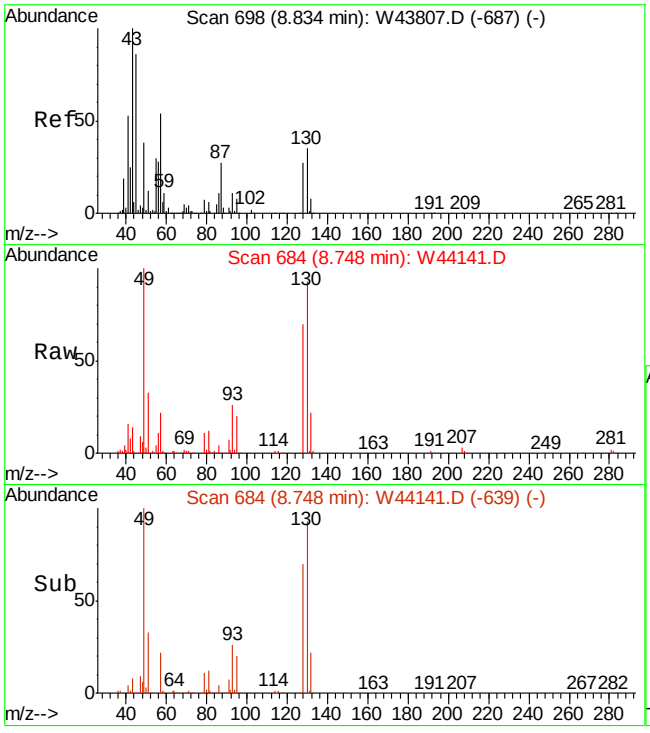


#30
METHYLENE CHLORIDE
Concen: 1.44 PPBV
RT: 6.85 min Scan# 373
Delta R.T. -0.03 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 84 Resp: 36627

Ion	Ratio	Lower	Upper
84	100		
86	65.8	43.2	83.2
49	120.8	0.0	320.8

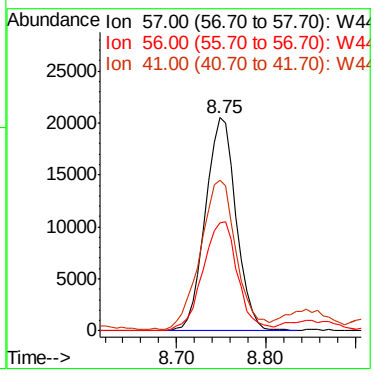


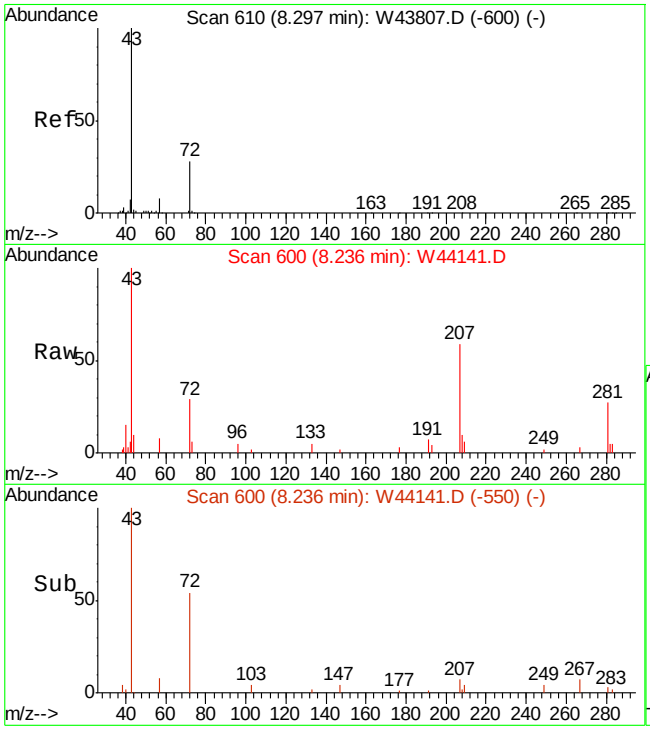


#37
HEXANE
Concen: 1.25 PPBV
RT: 8.75 min Scan# 684
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 57 Resp: 48944

Ion	Ratio	Lower	Upper
57	100		
56	57.7	32.2	72.2
41	84.1	74.7	114.7

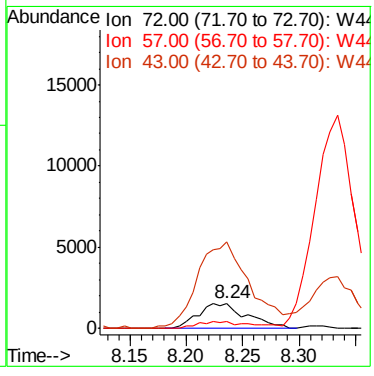


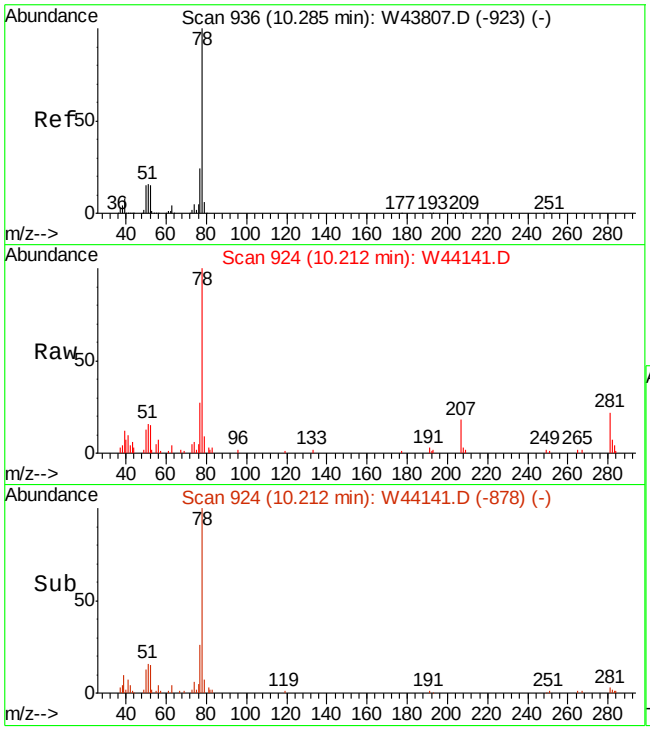


#40
METHYL ETHYL KETONE
Concen: 0.40 PPBV
RT: 8.24 min Scan# 600
Delta R.T. 0.01 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 72 Resp: 4650

Ion	Ratio	Lower	Upper
72	100		
57	28.0	10.3	50.3
43	343.0	364.5	404.5#

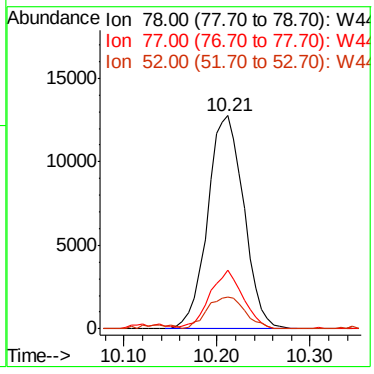


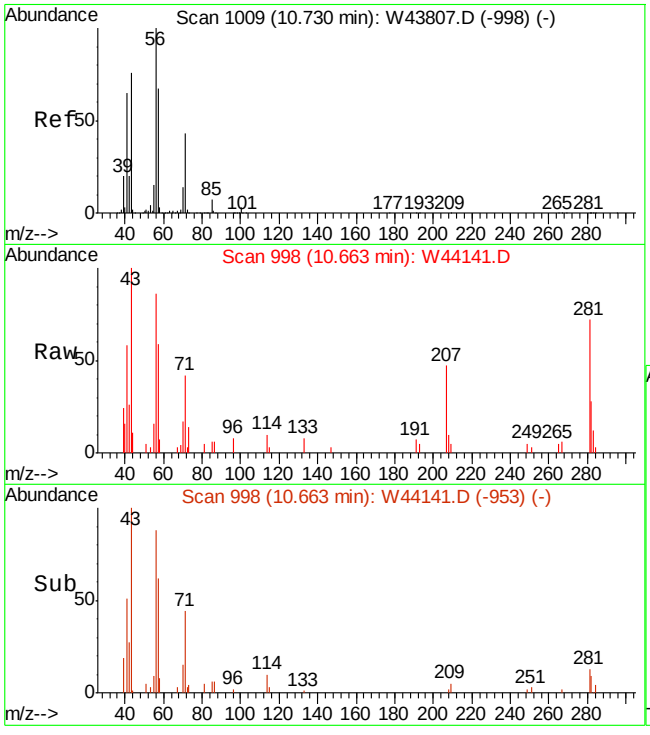


#51
BENZENE
Concen: 0.46 PPBV
RT: 10.21 min Scan# 924
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 78 Resp: 34703

Ion	Ratio	Lower	Upper
78	100		
77	25.4	3.7	43.7
52	15.9	0.0	35.0

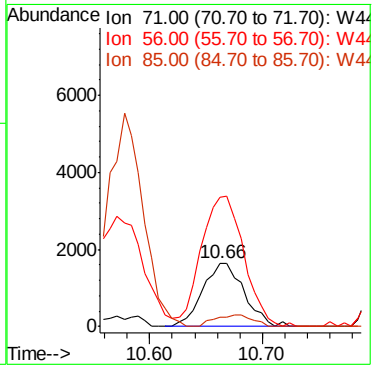


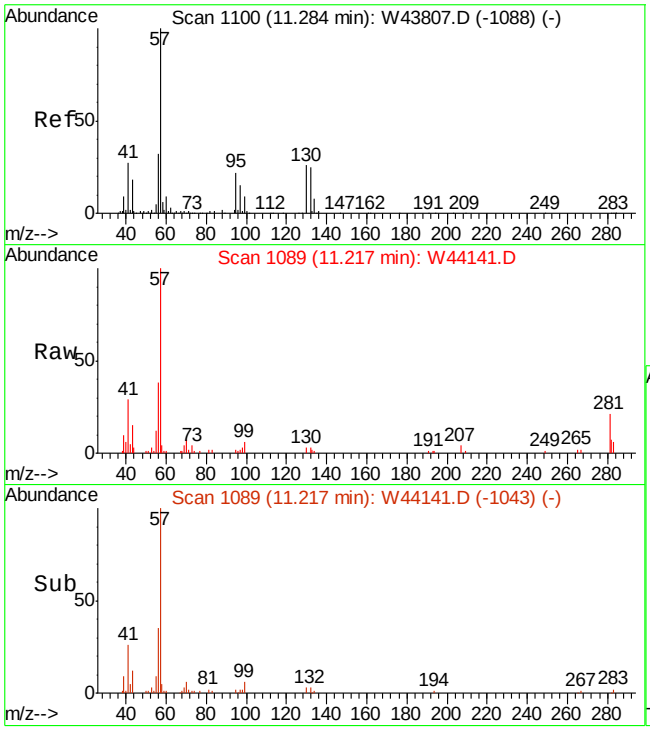


#53
2,3-DIMETHYLPENTANE
Concen: 0.24 PPBV
RT: 10.66 min Scan# 998
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 71 Resp: 4188

Ion	Ratio	Lower	Upper
71	100		
56	213.2	196.2	294.4
85	16.4	13.4	20.0

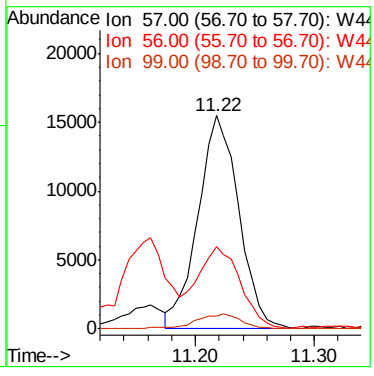


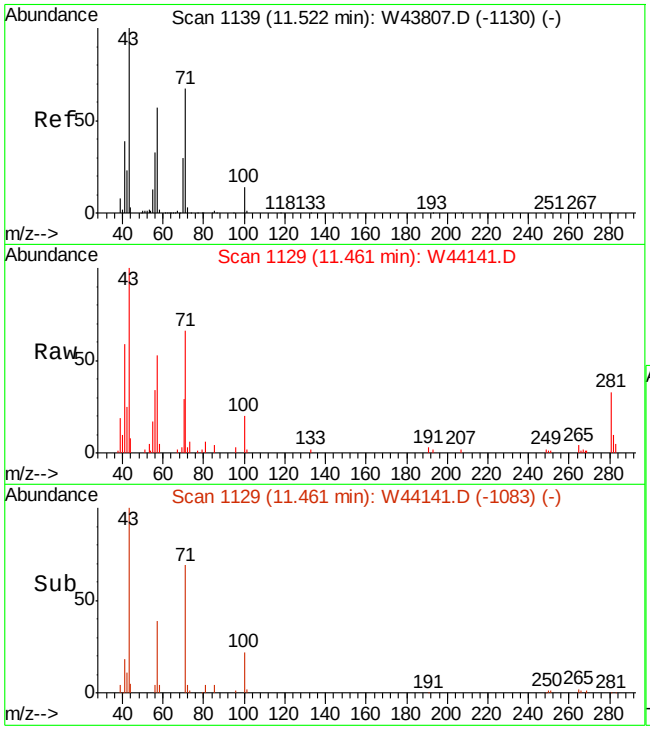


#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.31 PPBV
RT: 11.22 min Scan# 1089
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 57 Resp: 37000

Ion	Ratio	Lower	Upper
57	100		
56	38.4	12.2	52.2
99	7.8	0.0	28.0

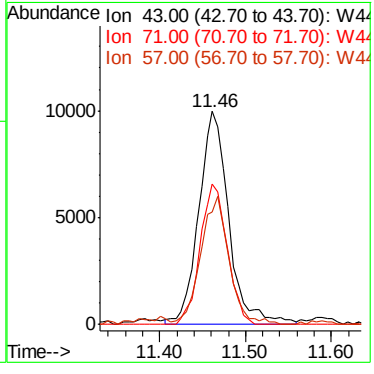


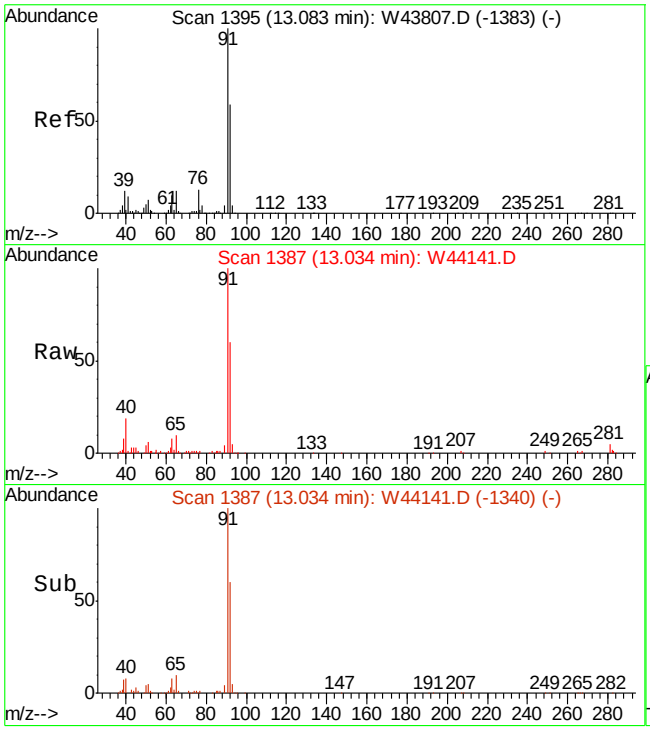


#62
HEPTANE
Concen: 0.58 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 43 Resp: 24281

Ion	Ratio	Lower	Upper
43	100		
71	59.3	43.7	83.7
57	56.6	34.7	74.7

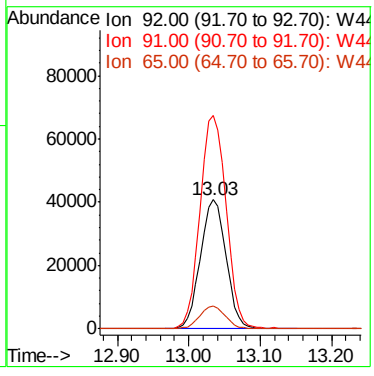


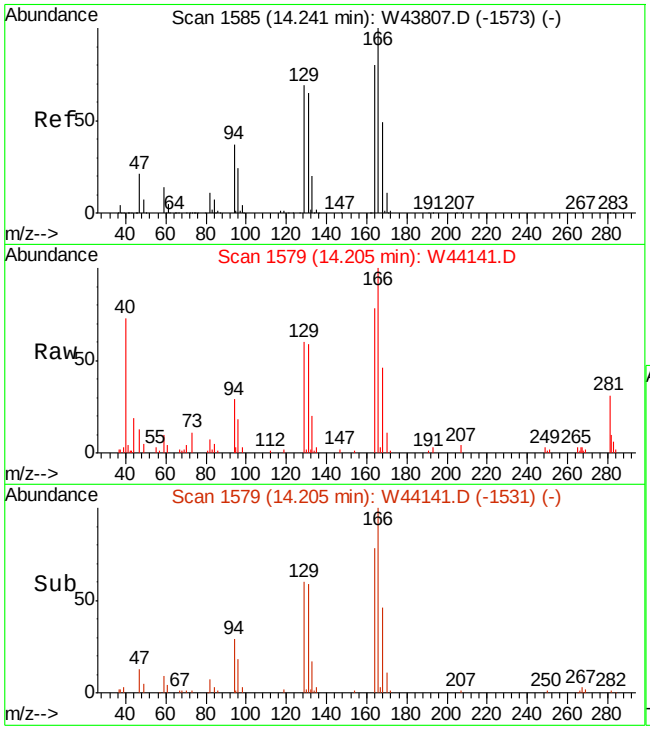


#66
TOLUENE
Concen: 1.90 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 92 Resp: 101296

Ion	Ratio	Lower	Upper
92	100		
91	168.4	148.0	188.0
65	17.6	0.5	40.5

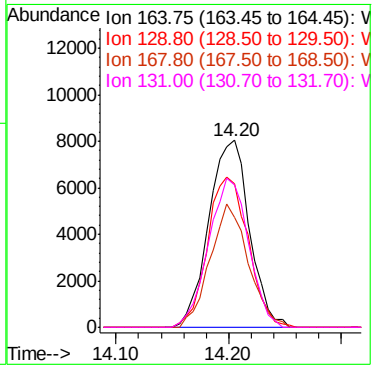


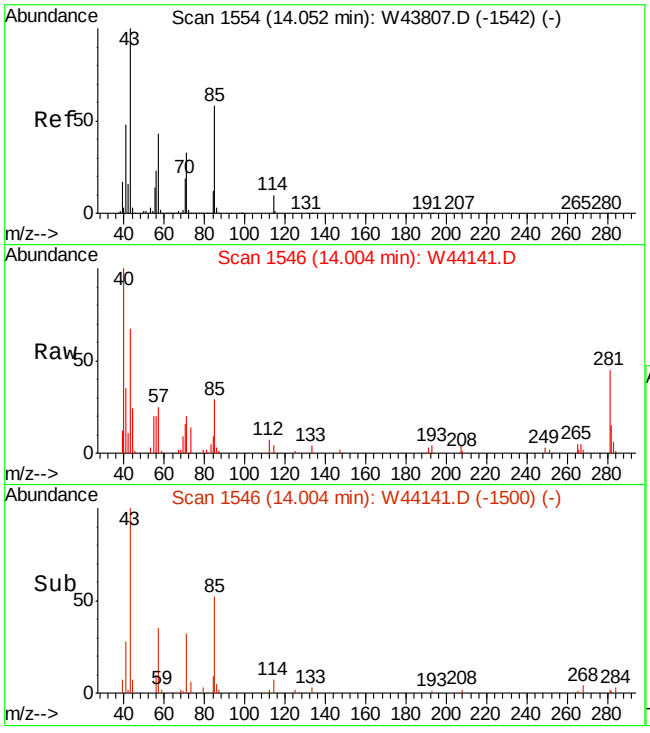


#72
TETRACHLOROETHYLENE
Concen: 0.60 PPBV
RT: 14.20 min Scan# 1579
Delta R.T. -0.01 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion:164 Resp: 20071

Ion	Ratio	Lower	Upper
164	100		
129	80.4	62.5	102.5
168	61.9	41.7	81.7
131	78.4	59.1	99.1

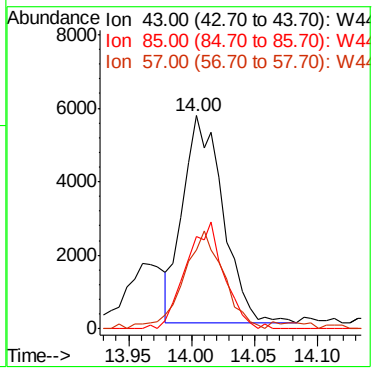


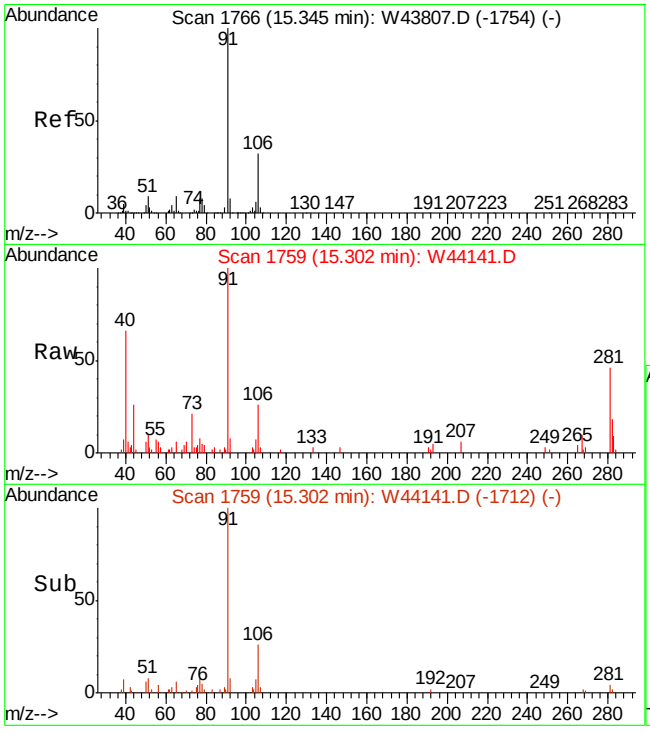


#75
OCTANE
Concen: 0.26 PPBV
RT: 14.00 min Scan# 1546
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 43 Resp: 12456

Ion	Ratio	Lower	Upper
43	100		
85	49.0	41.1	61.7
57	47.8	33.4	50.2

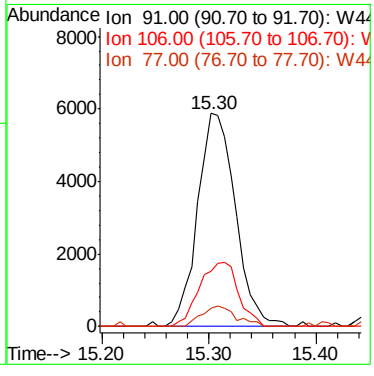


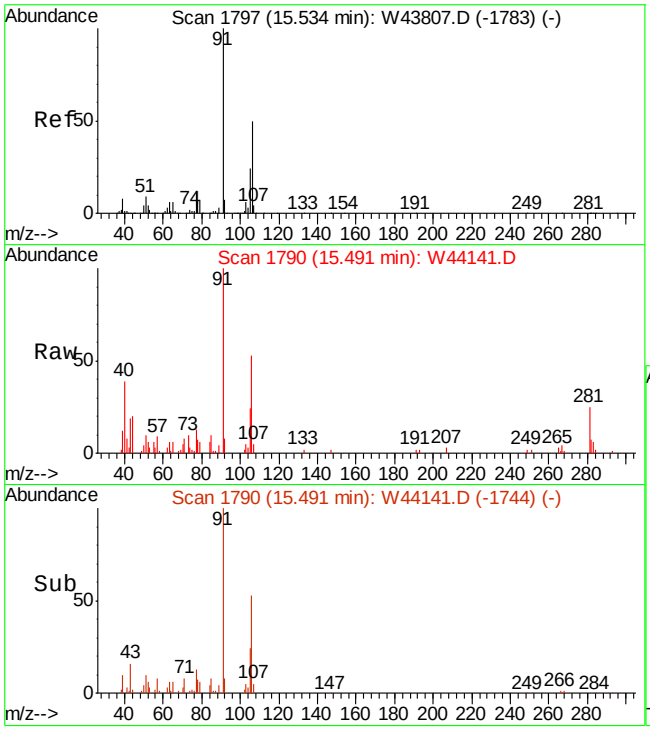


#78
ETHYLBENZENE
Concen: 0.16 PPBV
RT: 15.30 min Scan# 1759
Delta R.T. -0.01 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion: 91 Resp: 14383

Ion	Ratio	Lower	Upper
91	100		
106	31.2	12.3	52.3
77	8.7	0.0	28.1

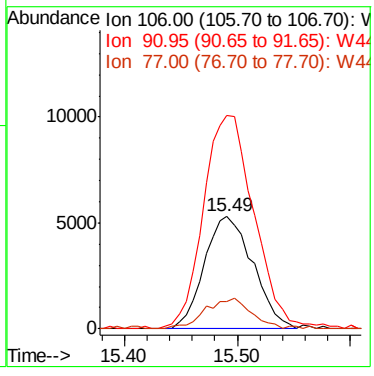


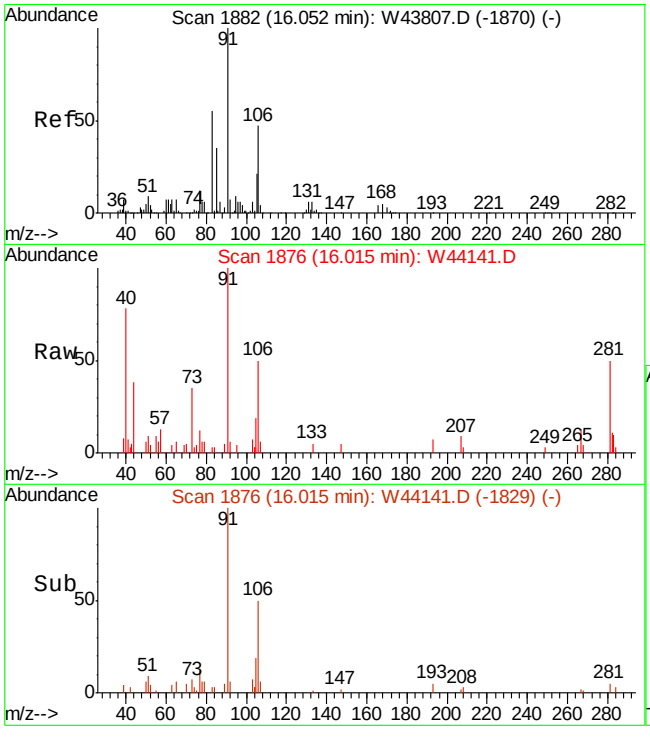


#79
m,p-XYLENE
Concen: 0.44 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion:106 Resp: 15888

Ion	Ratio	Lower	Upper
106	100		
91	189.2	151.2	226.8
77	24.7	18.7	28.1

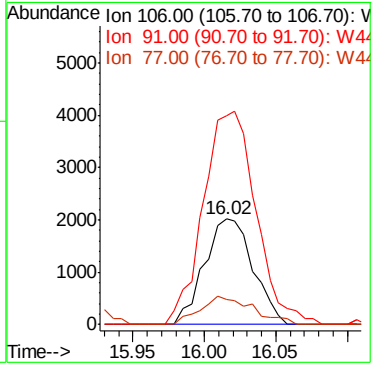


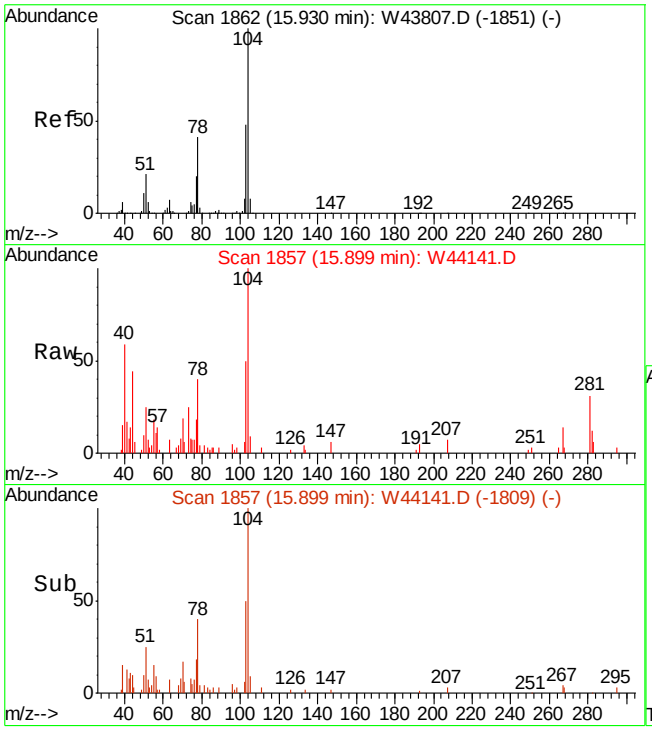


#80
o-XYLENE
Concen: 0.14 PPBV
RT: 16.02 min Scan# 1876
Delta R.T. -0.01 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion:106 Resp: 4782

Ion	Ratio	Lower	Upper
106	100		
91	218.3	182.5	222.5
77	28.8	3.8	43.8

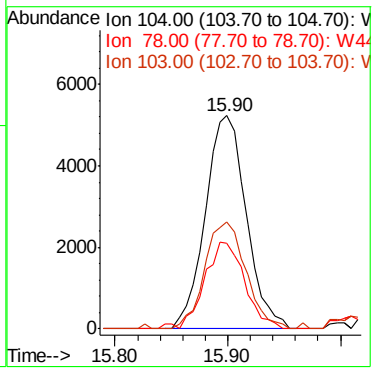




#81
STYRENE
Concen: 0.25 PPBV
RT: 15.90 min Scan# 1857
Delta R.T. -0.01 min
Lab File: W44141.D
Acq: 18 Oct 2013 1:05 am

Tgt Ion:104 Resp: 13122

Ion	Ratio	Lower	Upper
104	100		
78	40.1	18.7	58.7
103	50.3	27.3	67.3



Manual Integration Approval Summary

Sample Number:	JB50276-2	**Method:**	TO-15
Lab FileID:	W44141.D	**Analyst approved:**	10/21/13 14:26 Dana Tryon
Injection Time:	10/18/13 01:05	**Supervisor approved:**	10/22/13 16:15 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		5.35	Missed peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44142.D Vial: 14
Acq On : 18 Oct 2013 1:45 am Operator: danat
Sample : jb50276-3 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 08:29:19 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

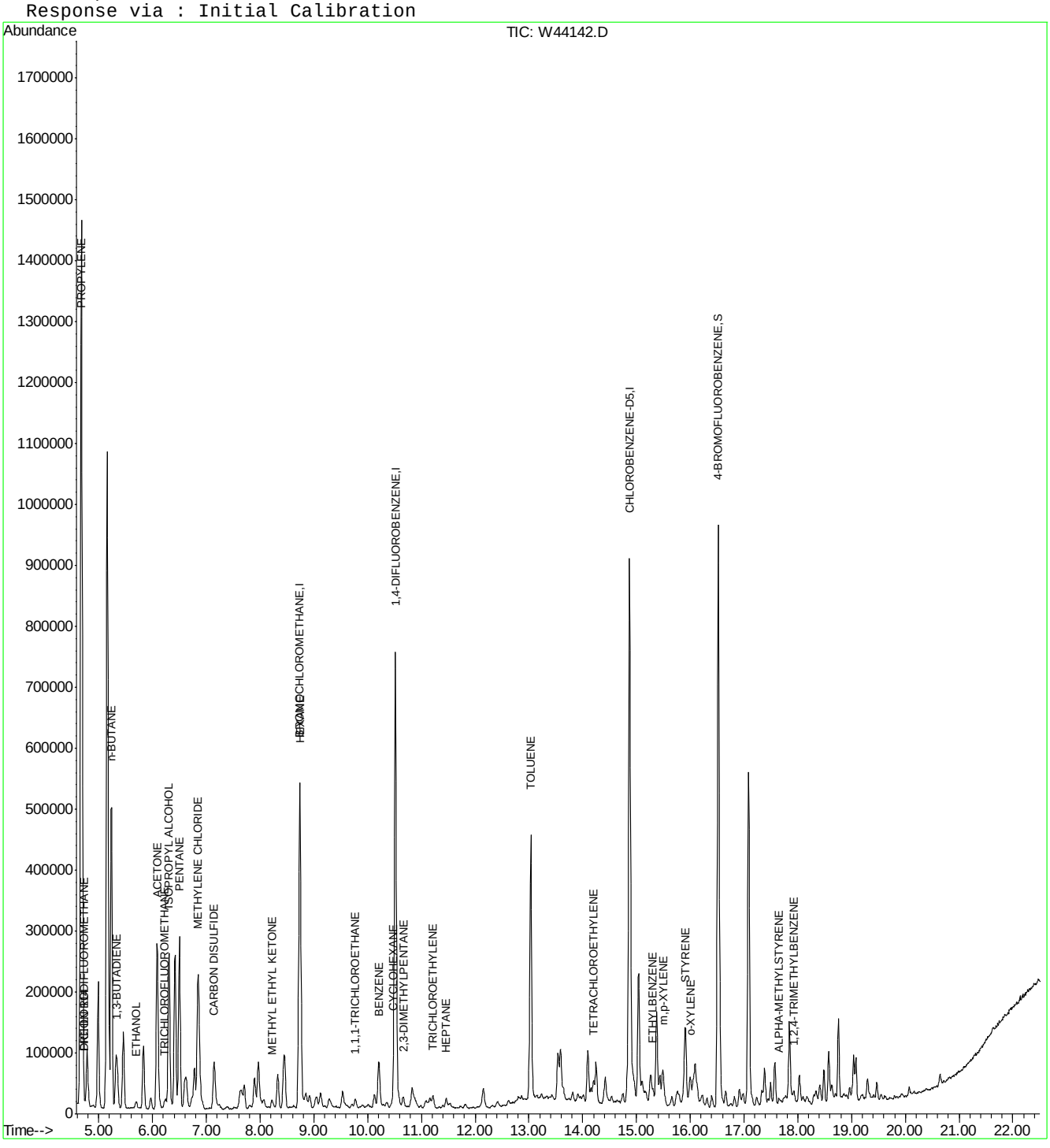
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	174874	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.52	114	891226	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	380839	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	445693	9.86	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.74	85	6866	0.14	PPBV	97
6) PROPYLENE	4.67	41	1066290	64.92	PPBV	98
7) FREON 114	4.74	85	6865	0.14	PPBV #	33
10) 1,3-BUTADIENE	5.35	54	38214	2.32	PPBV	93
11) n-BUTANE	5.24	58	80946	18.28	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.21	101	5624	0.11	PPBV	90
19) ISOPROPYL ALCOHOL	6.31	45	17542	0.58	PPBV #	3
20) ACETONE	6.09	58	45967	4.04	PPBV #	13
22) PENTANE	6.50	57	38195	6.42	PPBV	97
26) CARBON DISULFIDE	7.15	76	164090	2.70	PPBV	100
27) ETHANOL	5.69	45	13318	1.74	PPBV #	95
30) METHYLENE CHLORIDE	6.85	84	136502	5.96	PPBV	98
37) HEXANE	8.75	57	87935	2.48	PPBV	91
40) METHYL ETHYL KETONE	8.22	72	7066	0.67	PPBV #	79
47) 1,1,1-TRICHLOROETHANE	9.77	97	10532	0.25	PPBV	97
51) BENZENE	10.21	78	77638	1.13	PPBV	98
52) CYCLOHEXANE	10.47	84	8408	0.27	PPBV	92
53) 2,3-DIMETHYLPENTANE	10.66	71	3707	0.23	PPBV	96
54) TRICHLOROETHYLENE	11.21	95	3100	0.11	PPBV	91
62) HEPTANE	11.46	43	8684	0.23	PPBV	86
66) TOLUENE	13.03	92	279509	5.80	PPBV	99
72) TETRACHLOROETHYLENE	14.20	164	13108	0.39	PPBV	98
78) ETHYLBENZENE	15.31	91	25743	0.27	PPBV	99
79) m,p-XYLENE	15.48	106	26725	0.73	PPBV	96
80) o-XYLENE	16.02	106	8682	0.25	PPBV #	84
81) STYRENE	15.90	104	29148	0.56	PPBV	98
93) ALPHA-METHYLSTYRENE	17.65	118	4780	0.14	PPBV	85
95) 1,2,4-TRIMETHYLBENZENE	17.94	105	8560	0.13	PPBV #	35

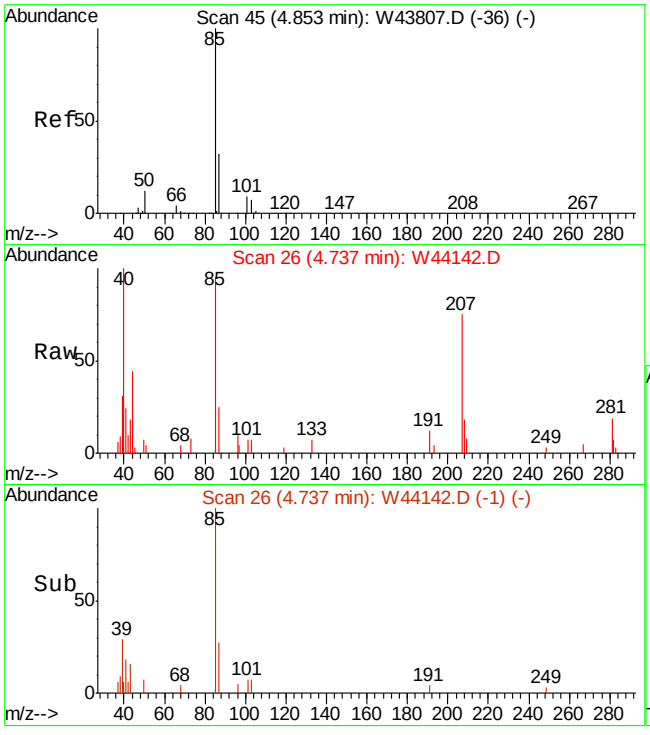
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44142.D Vial: 14
Acq On : 18 Oct 2013 1:45 am Operator: danat
Sample : jb50276-3 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 14:16 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration

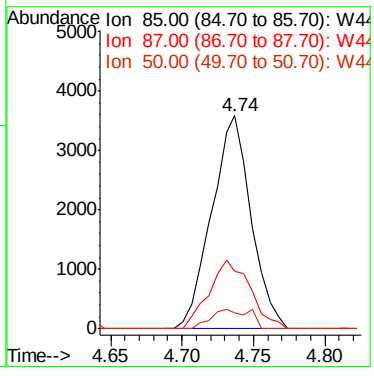


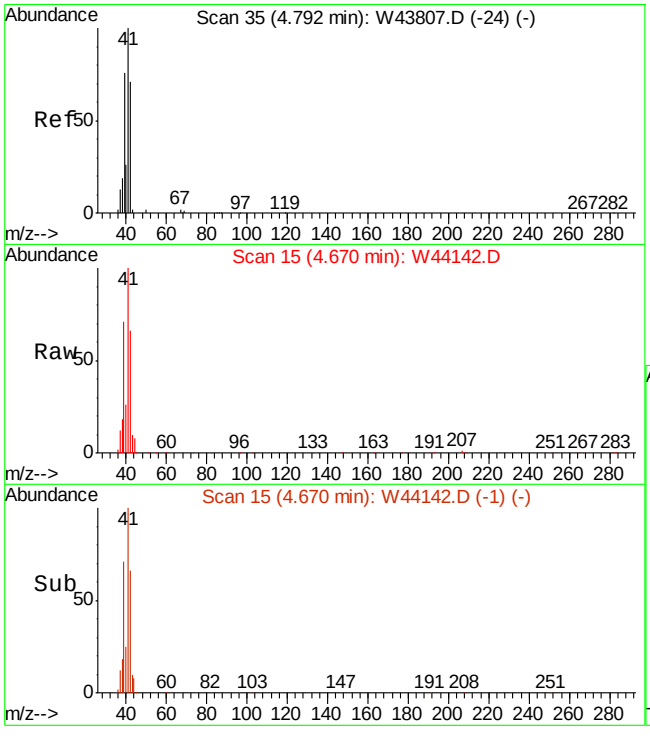


#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.74 min Scan# 26
Delta R.T. -0.04 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 85 Resp: 6866

Ion	Ratio	Lower	Upper
85	100		
87	33.6	12.1	52.1
50	9.0	0.0	30.6

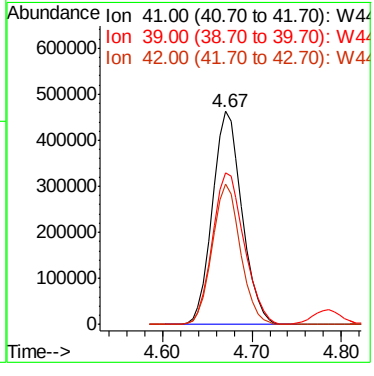


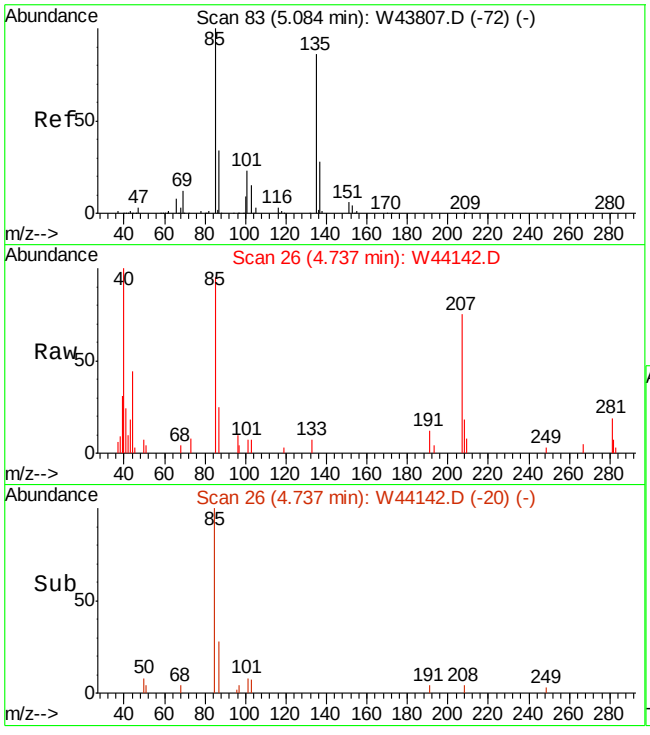


#6
PROPYLENE
Concen: 64.92 PPBV
RT: 4.67 min Scan# 15
Delta R.T. -0.04 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 41 Resp: 1066290

Ion	Ratio	Lower	Upper
41	100		
39	71.3	48.7	88.7
42	65.7	44.9	84.9

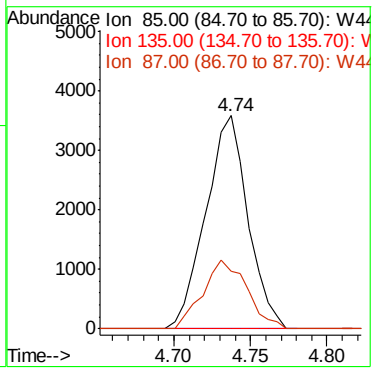


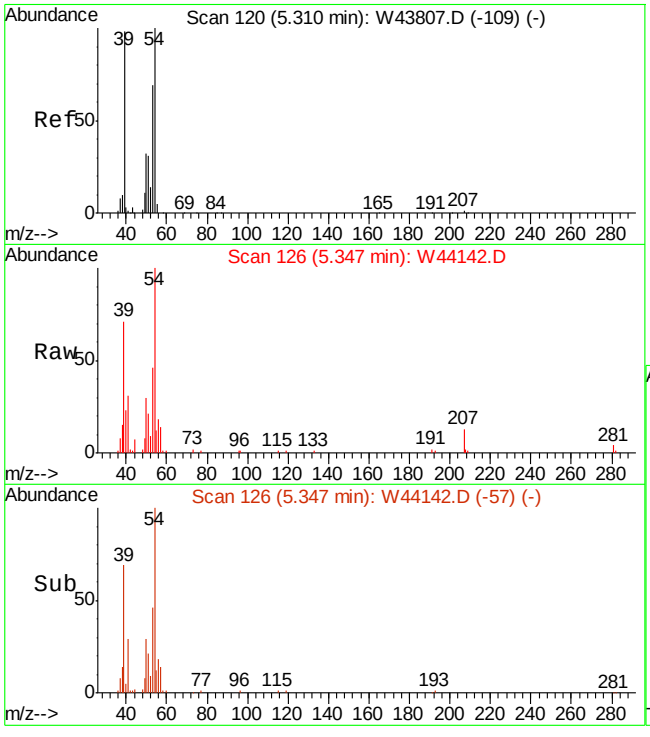


#7
FREON 114
Concen: 0.14 PPBV
RT: 4.74 min Scan# 26
Delta R.T. -0.26 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 85 Resp: 6865

Ion	Ratio	Lower	Upper
85	100		
135	0.0	63.3	103.3#
87	33.6	12.6	52.6

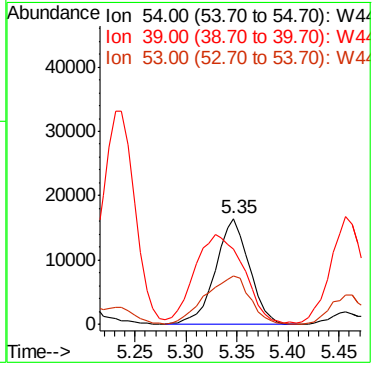


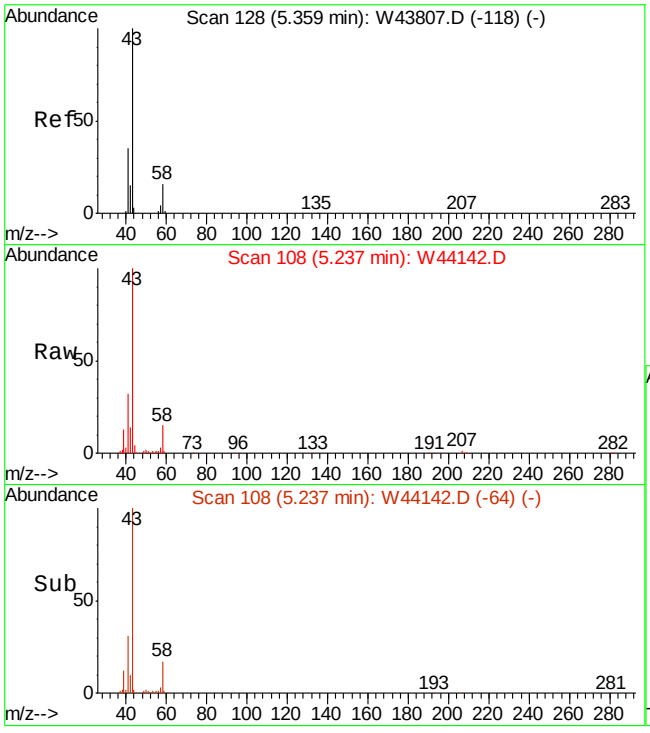


#10
1,3-BUTADIENE
Concen: 2.32 PPBV
RT: 5.35 min Scan# 126
Delta R.T. 0.12 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 54 Resp: 38214

Ion	Ratio	Lower	Upper
54	100		
39	117.6	100.8	140.8
53	60.3	51.2	91.2

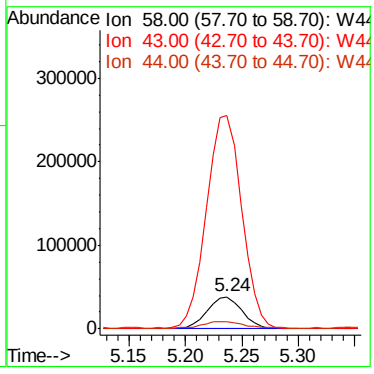


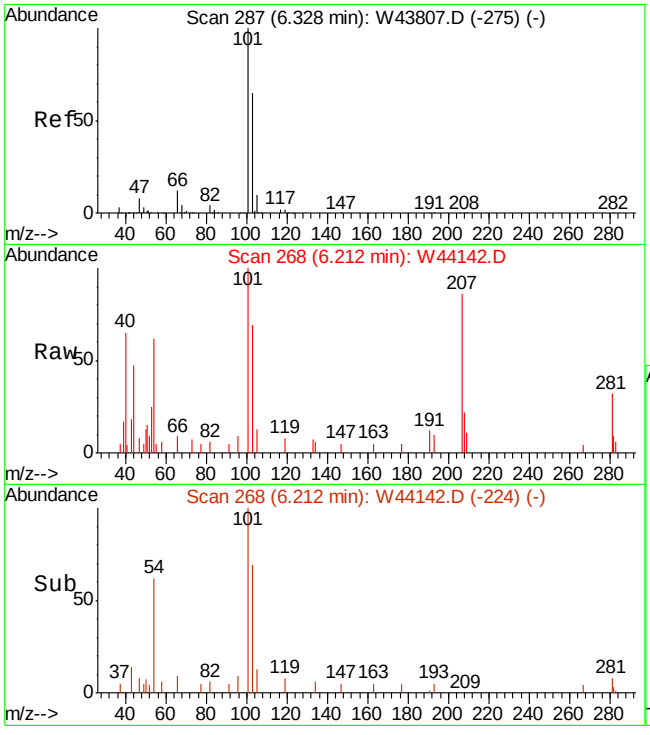


#11
n-BUTANE
Concen: 18.28 PPBV
RT: 5.24 min Scan# 108
Delta R.T. -0.03 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 58 Resp: 80946

Ion	Ratio	Lower	Upper
58	100		
43	686.5	552.0	828.0
44	24.2	20.4	30.6

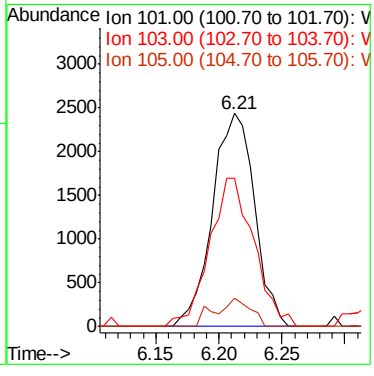


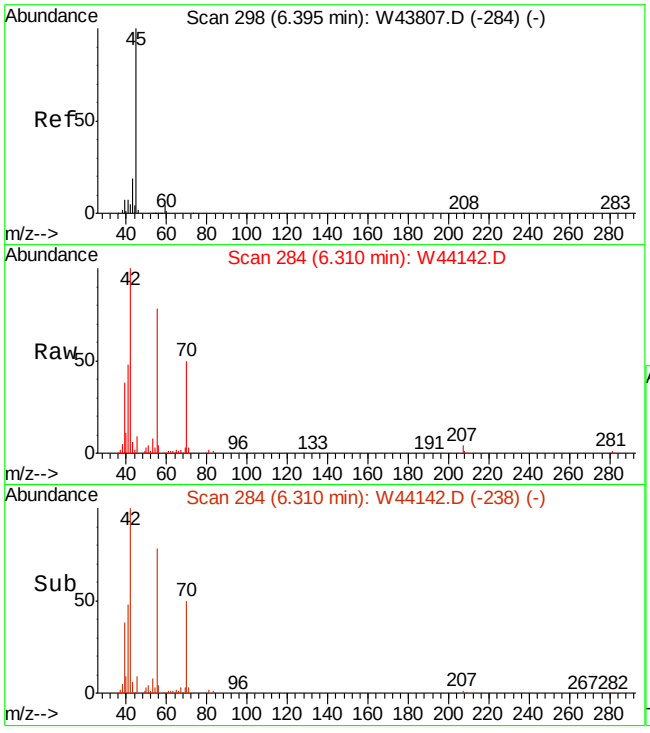


#18
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 6.21 min Scan# 268
Delta R.T. -0.03 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion:101 Resp: 5624

Ion	Ratio	Lower	Upper
101	100		
103	73.8	45.1	85.1
105	11.1	0.0	30.4

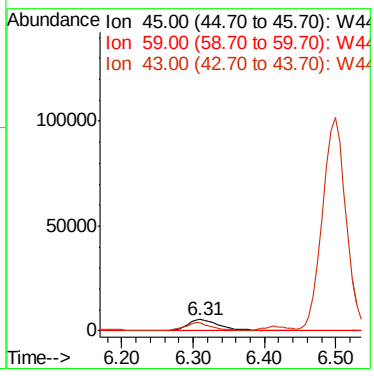


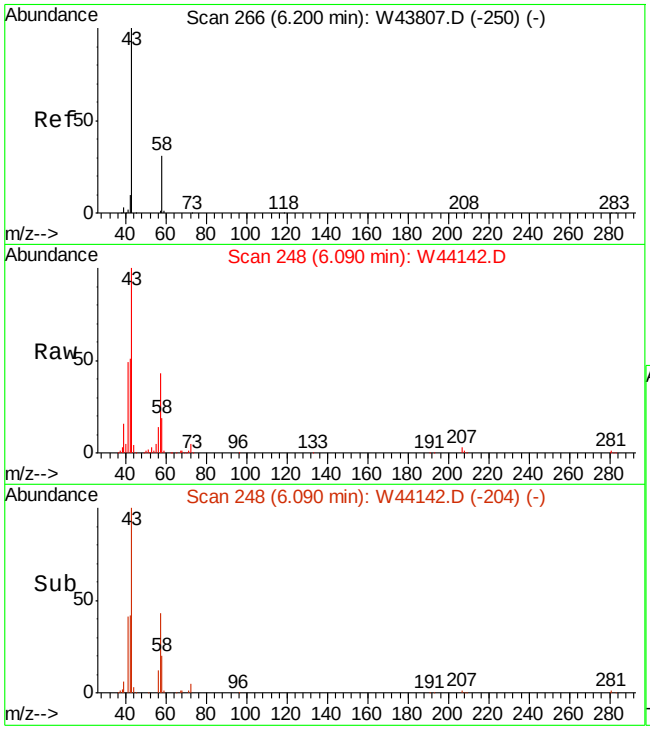


#19
ISOPROPYL ALCOHOL
Concen: 0.58 PPBV
RT: 6.31 min Scan# 284
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 45 Resp: 17542

Ion	Ratio	Lower	Upper
45	100		
59	5.6	0.0	24.3
43	68.5	0.0	36.4#

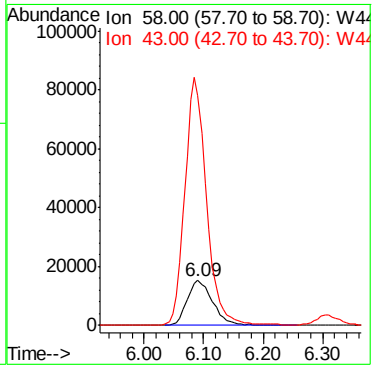


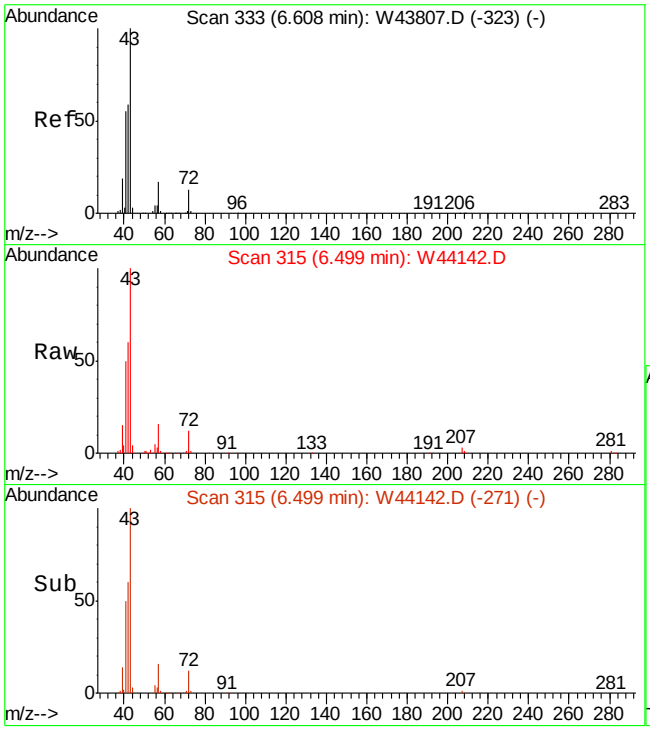


#20
ACETONE
Concen: 4.04 PPBV
RT: 6.09 min Scan# 248
Delta R.T. -0.03 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 58 Resp: 45967

Ion	Ratio	Lower	Upper
58	100		
43	458.7	270.7	310.7#

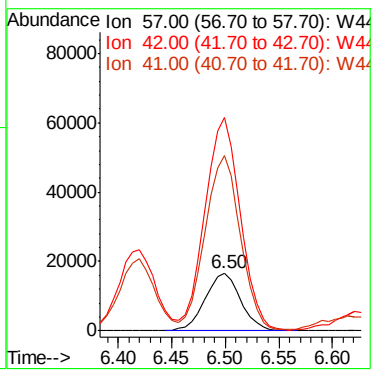


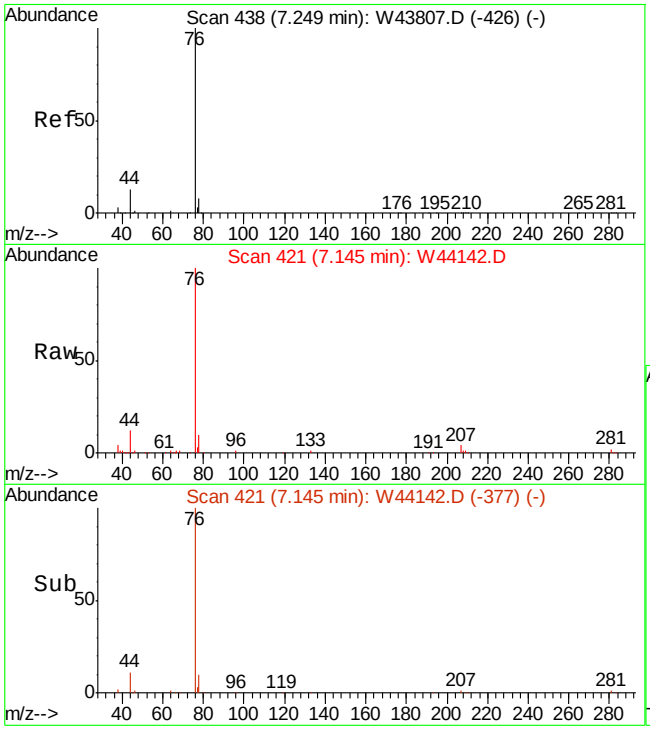


#22
PENTANE
Concen: 6.42 PPBV
RT: 6.50 min Scan# 315
Delta R.T. -0.03 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 57 Resp: 38195

Ion	Ratio	Lower	Upper
57	100		
42	365.5	352.7	392.7
41	301.2	286.0	326.0

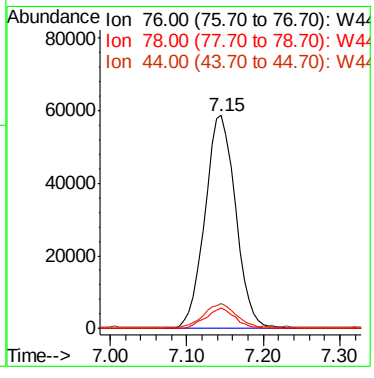


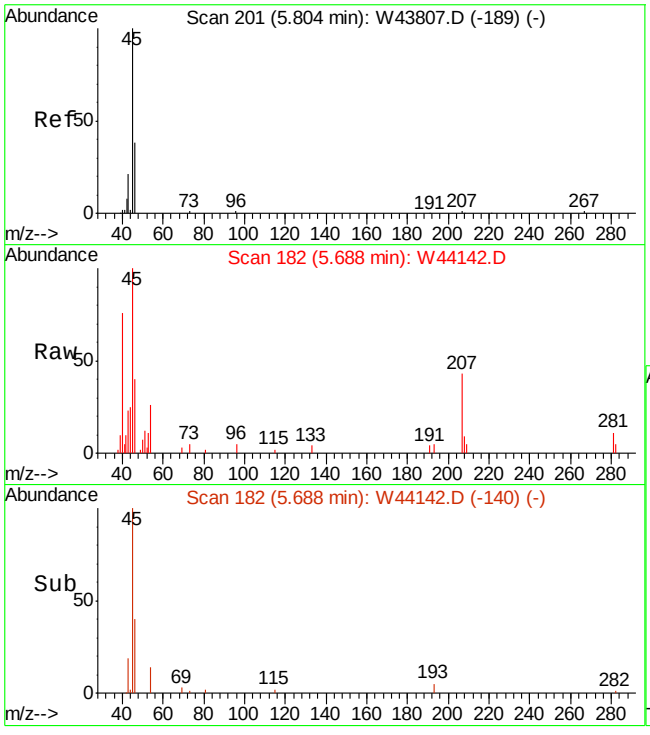


#26
CARBON DISULFIDE
Concen: 2.70 PPBV
RT: 7.15 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 76 Resp: 164090

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.0
44	11.3	0.0	31.4

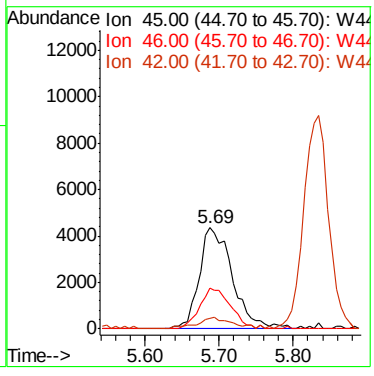


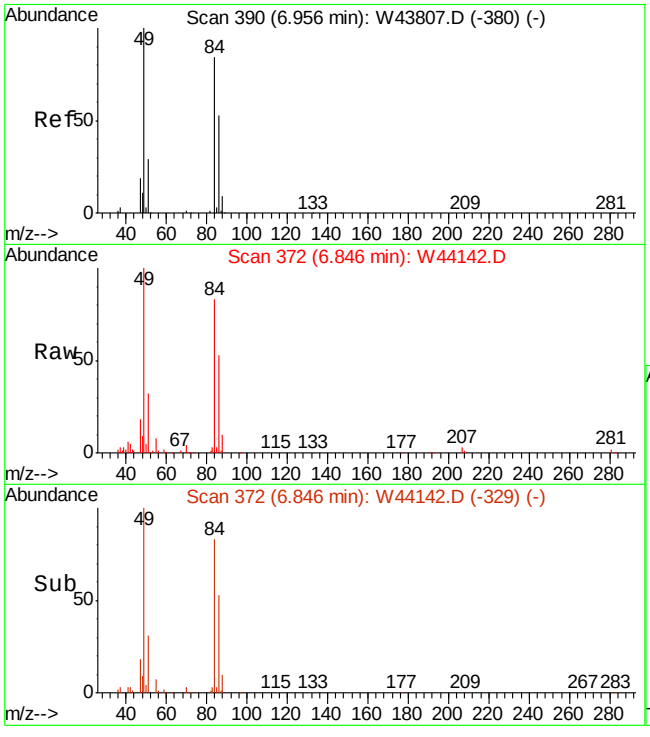


#27
ETHANOL
Concen: 1.74 PPBV
RT: 5.69 min Scan# 182
Delta R.T. -0.04 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 45 Resp: 13318

Ion	Ratio	Lower	Upper
45	100		
46	37.4	18.3	58.3
42	0.0	0.0	27.7

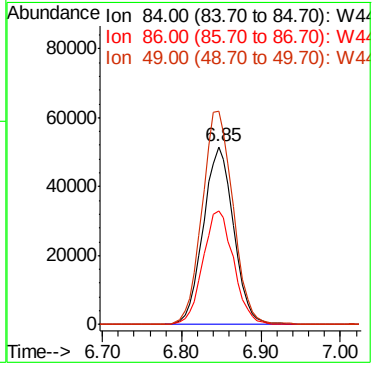


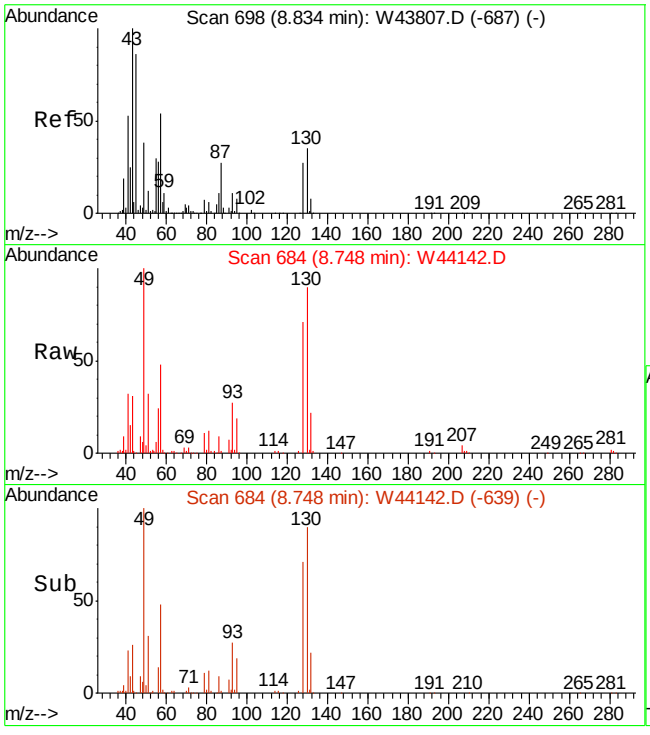


#30
METHYLENE CHLORIDE
Concen: 5.96 PPBV
RT: 6.85 min Scan# 372
Delta R.T. -0.04 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 84 Resp: 136502

Ion	Ratio	Lower	Upper
84	100		
86	64.6	43.2	83.2
49	122.9	0.0	320.8

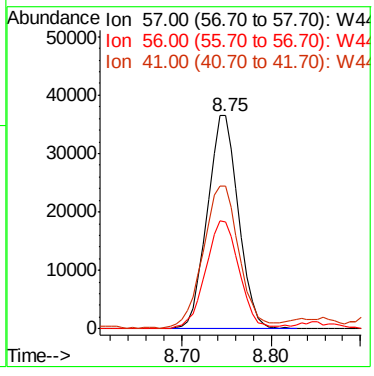


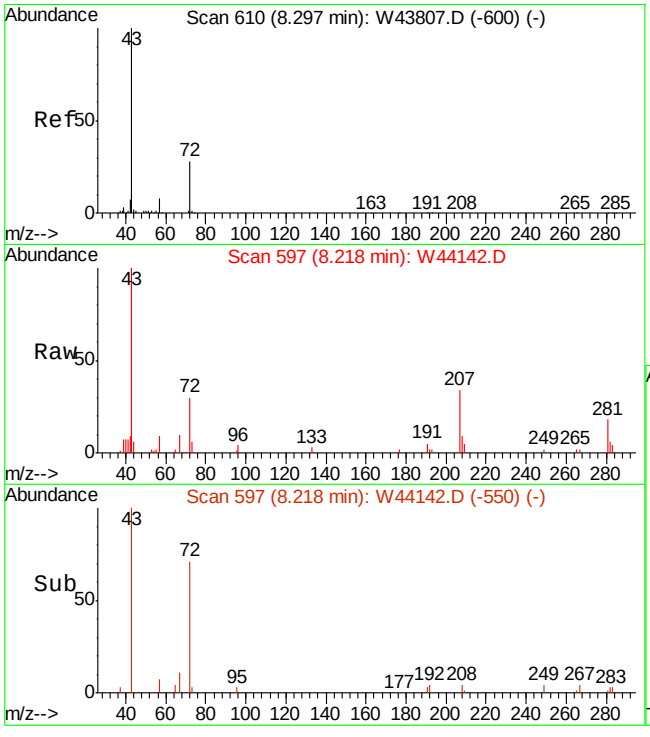


#37
HEXANE
Concen: 2.48 PPBV
RT: 8.75 min Scan# 684
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 57 Resp: 87935

Ion	Ratio	Lower	Upper
57	100		
56	55.1	32.2	72.2
41	83.7	74.7	114.7

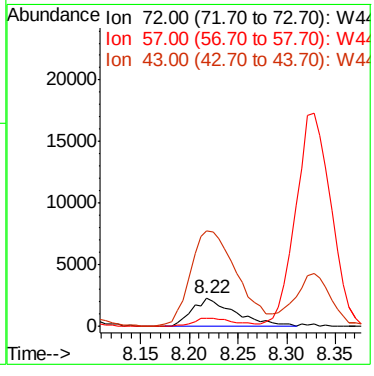




#40
METHYL ETHYL KETONE
Concen: 0.67 PPBV
RT: 8.22 min Scan# 597
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

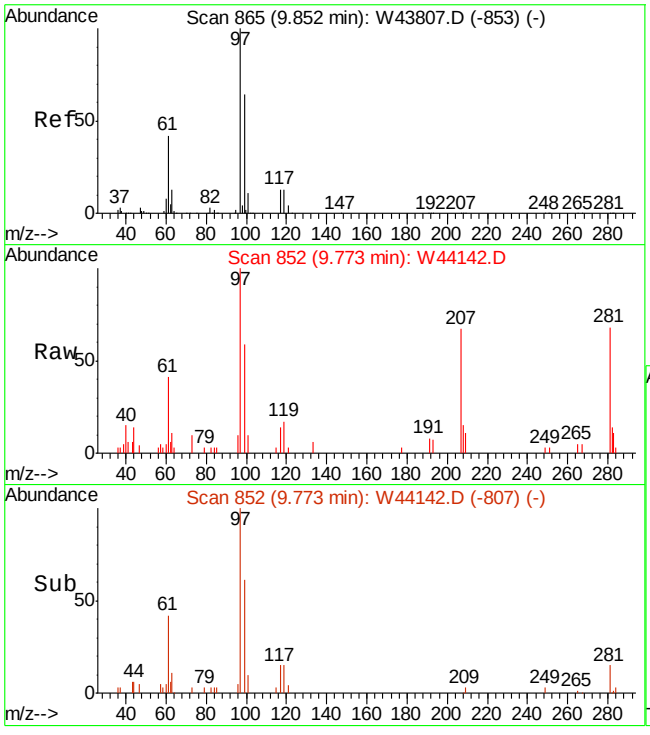
Tgt Ion: 72 Resp: 7066

Ion	Ratio	Lower	Upper
72	100		
57	28.4	10.3	50.3
43	332.1	364.5	404.5#



7.1.2

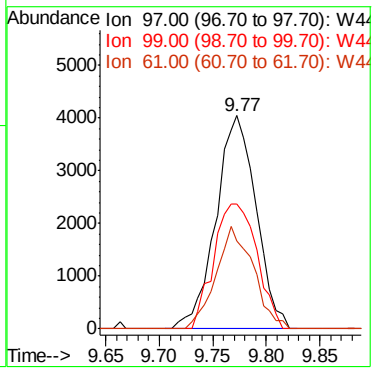
7

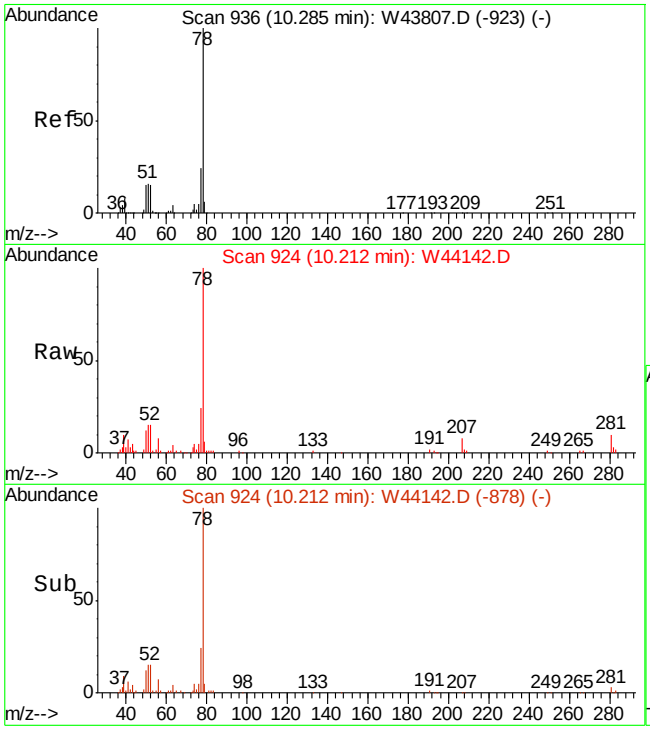


#47
1,1,1-TRICHLOROETHANE
Concen: 0.25 PPBV
RT: 9.77 min Scan# 852
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 97 Resp: 10532

Ion	Ratio	Lower	Upper
97	100		
99	63.2	44.2	84.2
61	44.4	21.3	61.3

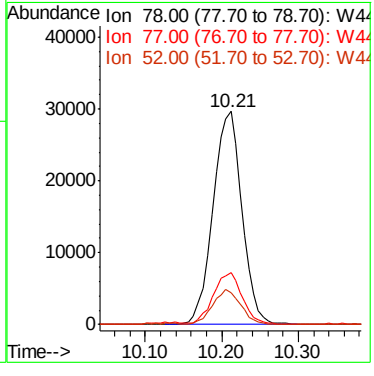


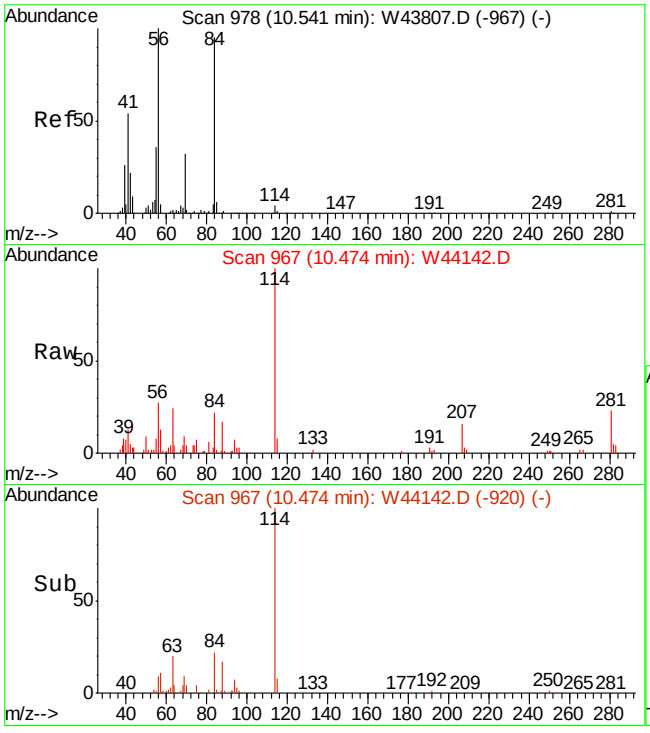


#51
BENZENE
Concen: 1.13 PPBV
RT: 10.21 min Scan# 924
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 78 Resp: 77638

Ion	Ratio	Lower	Upper
78	100		
77	24.4	3.7	43.7
52	16.0	0.0	35.0

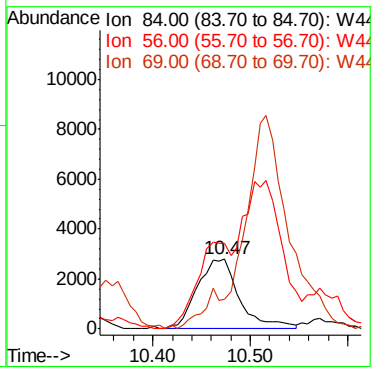


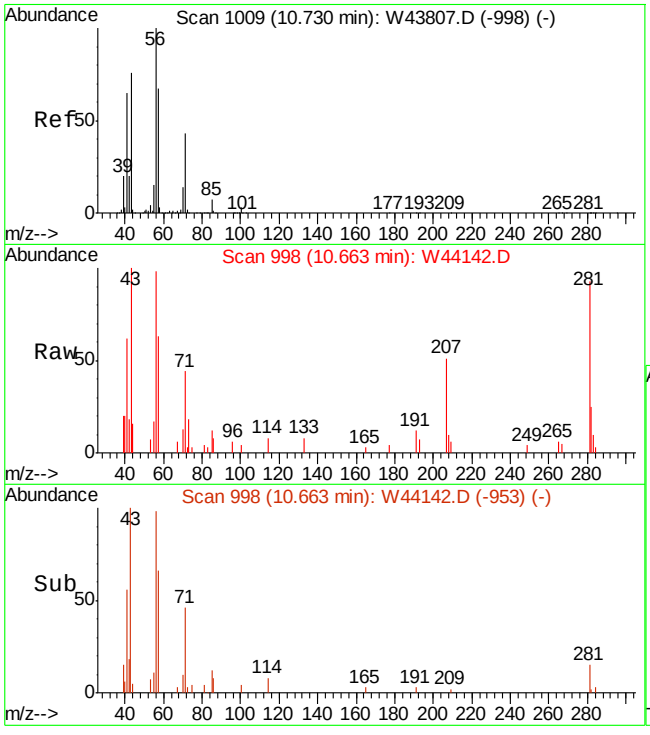


#52
CYCLOHEXANE
Concen: 0.27 PPBV
RT: 10.47 min Scan# 967
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 84 Resp: 8408

Ion	Ratio	Lower	Upper
84	100		
56	112.7	96.7	136.7
69	28.1	20.6	60.6

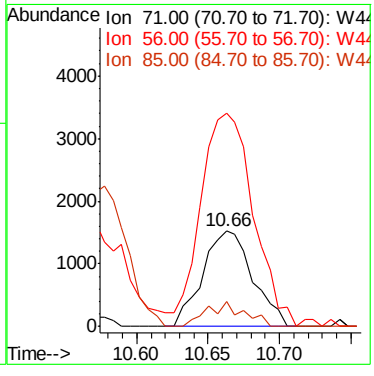


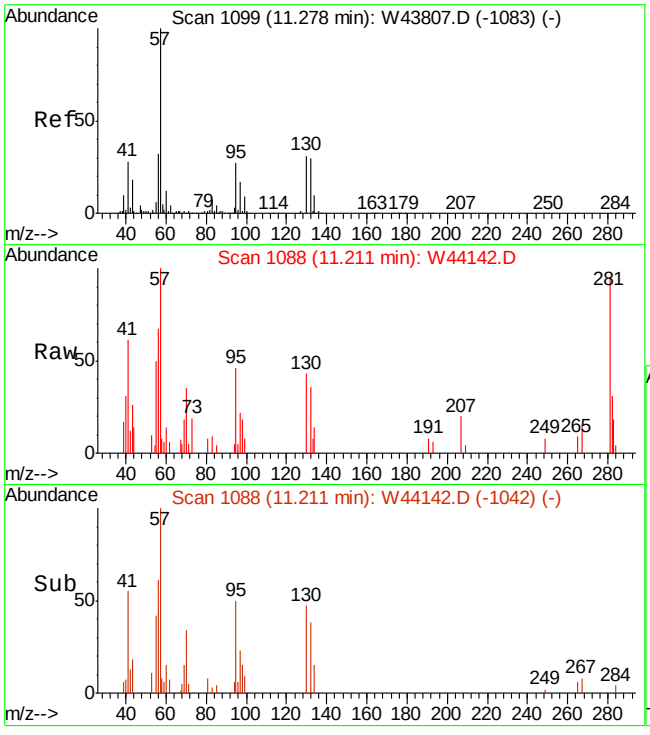


#53
2,3-DIMETHYLPENTANE
Concen: 0.23 PPBV
RT: 10.66 min Scan# 998
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 71 Resp: 3707

Ion	Ratio	Lower	Upper
71	100		
56	239.0	196.2	294.4
85	19.5	13.4	20.0

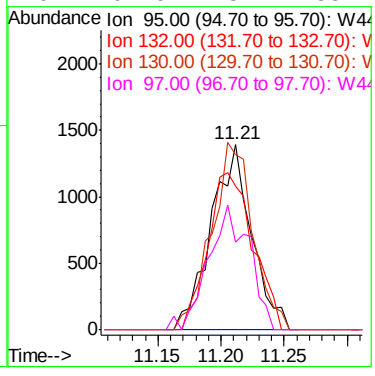


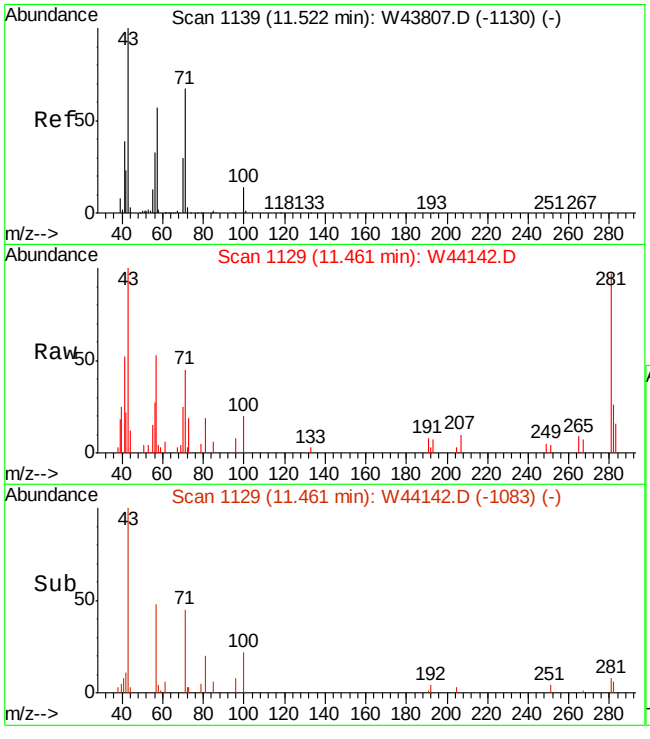


#54
TRICHLOROETHYLENE
Concen: 0.11 PPBV
RT: 11.21 min Scan# 1088
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 95 Resp: 3100

Ion	Ratio	Lower	Upper
95	100		
132	94.4	87.7	127.7
130	102.8	92.0	132.0
97	67.5	45.1	85.1

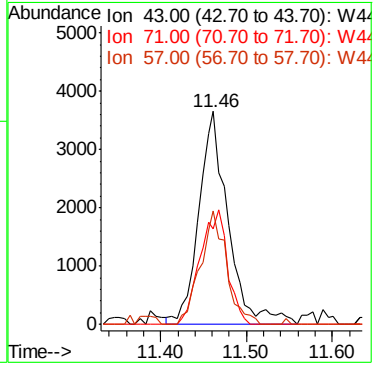


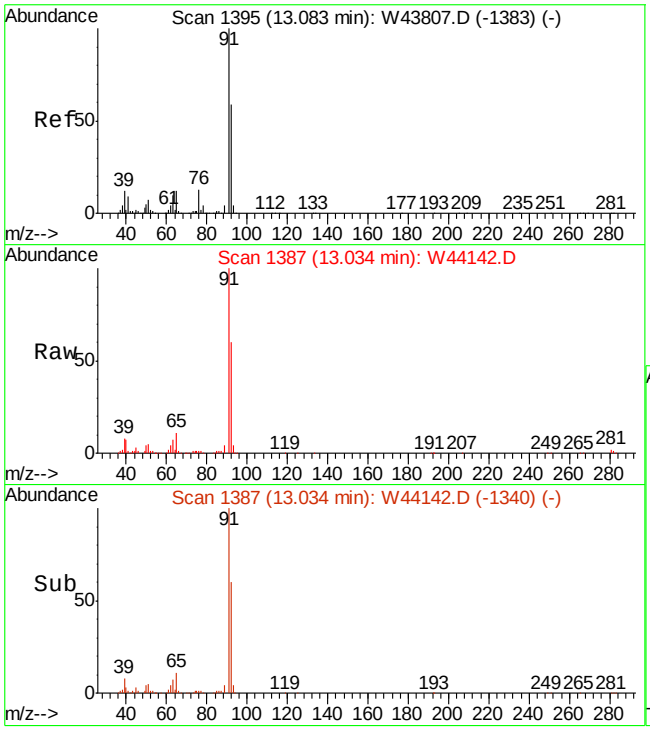


#62
HEPTANE
Concen: 0.23 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 43 Resp: 8684

Ion	Ratio	Lower	Upper
43	100		
71	49.8	43.7	83.7
57	47.6	34.7	74.7

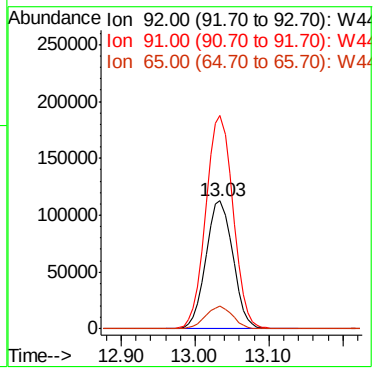


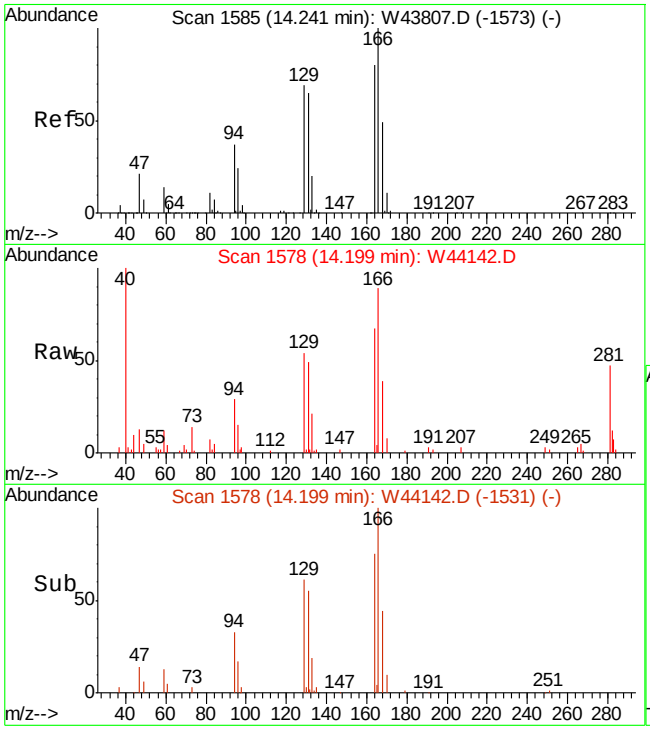


#66
TOLUENE
Concen: 5.80 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 92 Resp: 279509

Ion	Ratio	Lower	Upper
92	100		
91	168.4	148.0	188.0
65	17.6	0.5	40.5

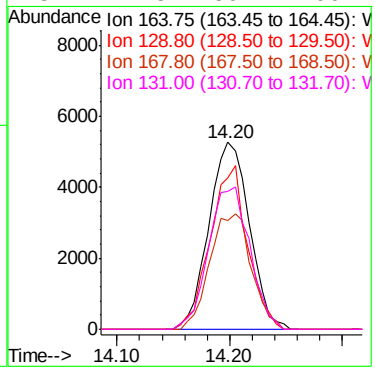


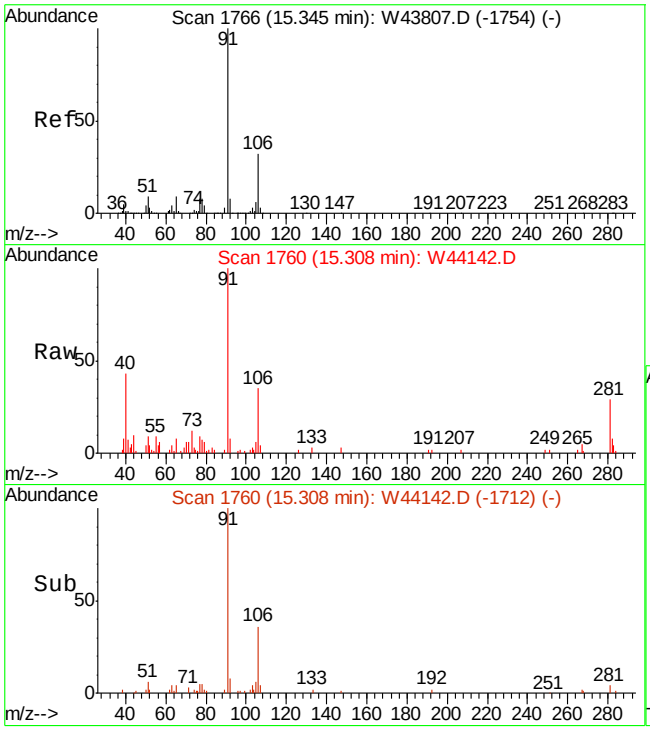


#72
TETRACHLOROETHYLENE
Concen: 0.39 PPBV
RT: 14.20 min Scan# 1578
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion:164 Resp: 13108

Ion	Ratio	Lower	Upper
164	100		
129	80.3	62.5	102.5
168	63.4	41.7	81.7
131	77.3	59.1	99.1

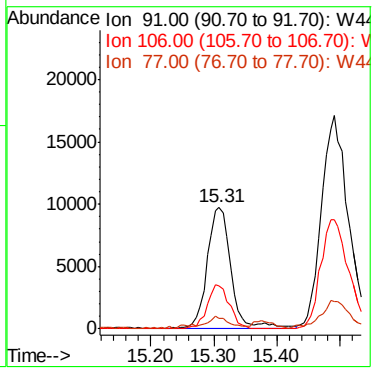


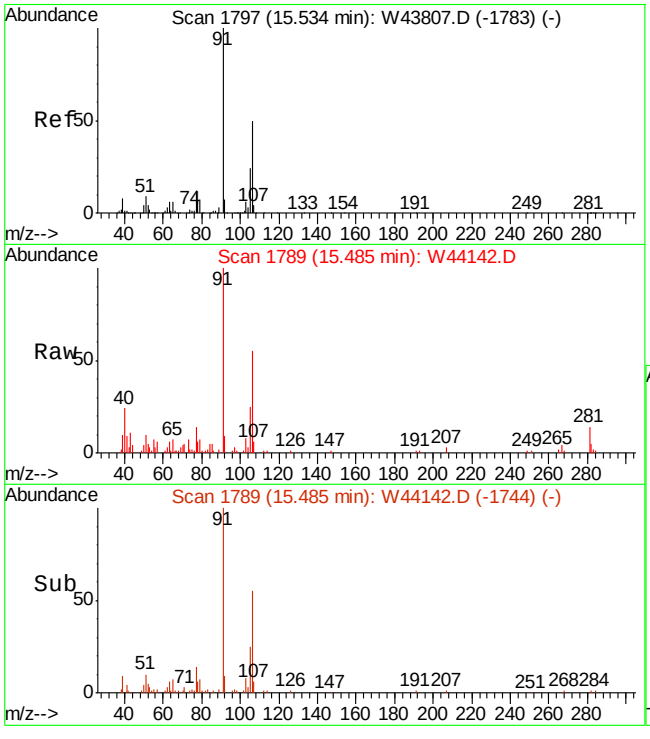


#78
ETHYLBENZENE
Concen: 0.27 PPBV
RT: 15.31 min Scan# 1760
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion: 91 Resp: 25743

Ion	Ratio	Lower	Upper
91	100		
106	33.1	12.3	52.3
77	8.5	0.0	28.1

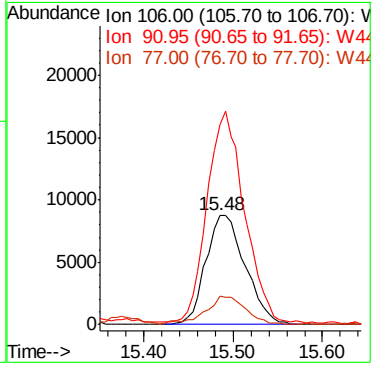




#79
m,p-XYLENE
Concen: 0.73 PPBV
RT: 15.48 min Scan# 1789
Delta R.T. -0.02 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

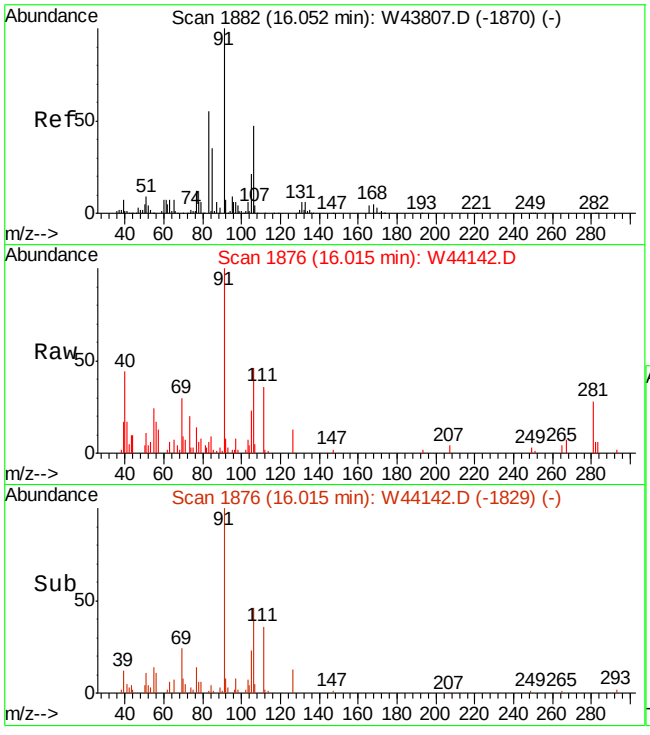
Tgt Ion:106 Resp: 26725

Ion	Ratio	Lower	Upper
106	100		
91	182.9	151.2	226.8
77	25.4	18.7	28.1



7.1.2

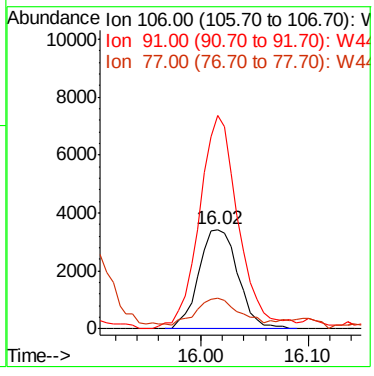
7

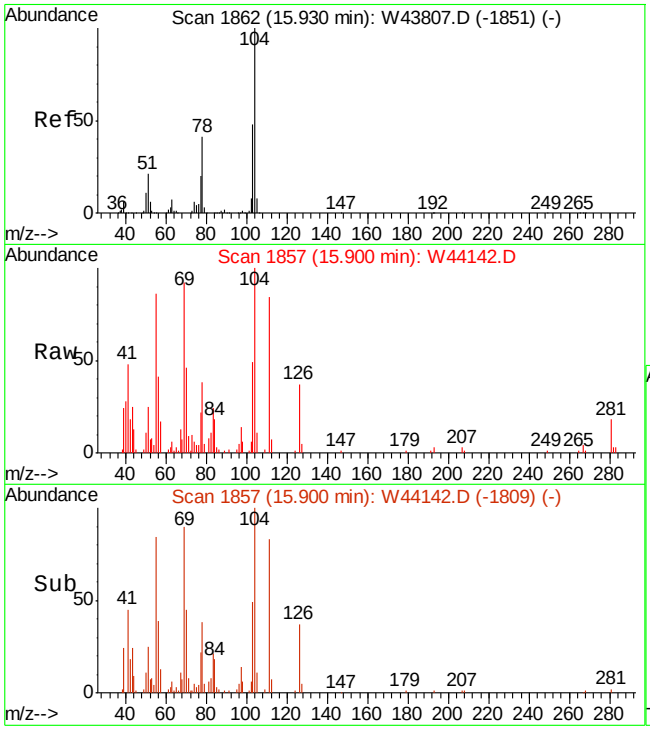


#80
o-XYLENE
Concen: 0.25 PPBV
RT: 16.02 min Scan# 1876
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion:106 Resp: 8682

Ion	Ratio	Lower	Upper
106	100		
91	221.2	182.5	222.5
77	47.4	3.8	43.8#

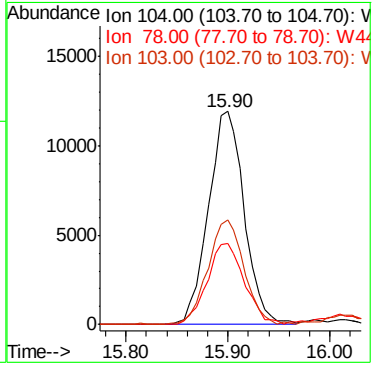


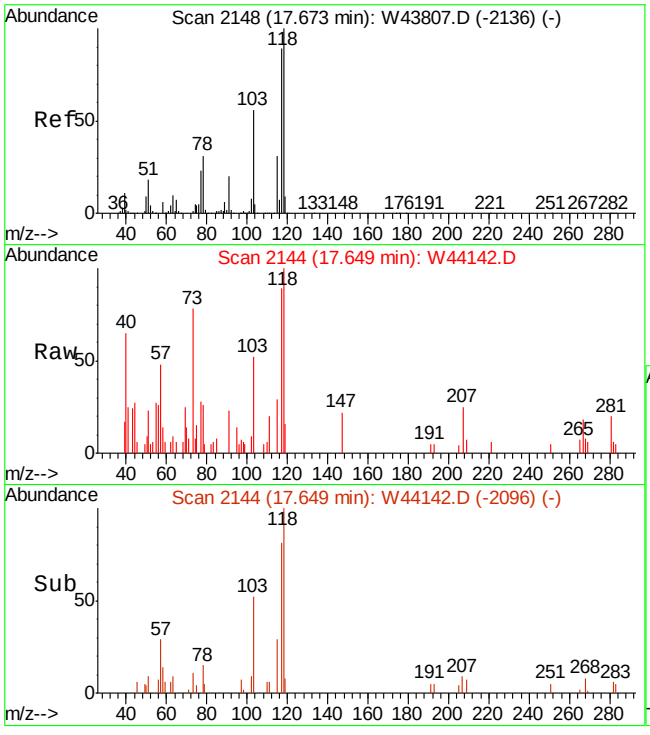


#81
STYRENE
Concen: 0.56 PPBV
RT: 15.90 min Scan# 1857
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion:104 Resp: 29148

Ion	Ratio	Lower	Upper
104	100		
78	39.5	18.7	58.7
103	49.6	27.3	67.3

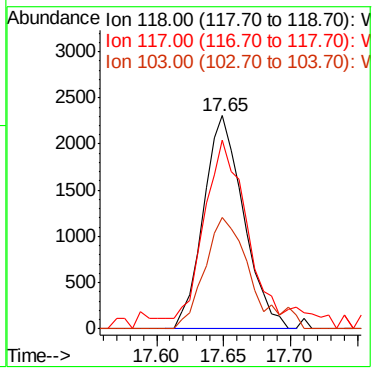


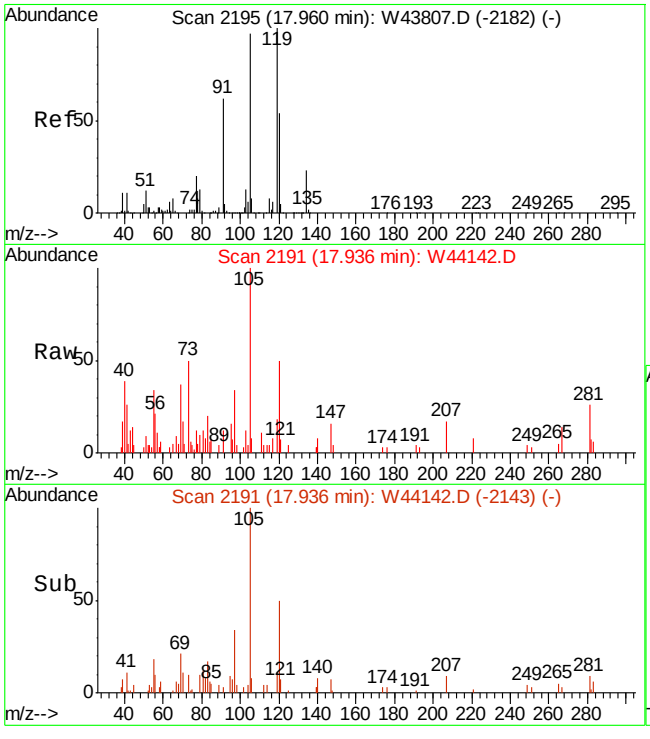


#93
ALPHA-METHYLSTYRENE
Concen: 0.14 PPBV
RT: 17.65 min Scan# 2144
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion:118 Resp: 4780

Ion	Ratio	Lower	Upper
118	100		
117	103.3	69.1	103.7
103	60.1	43.0	64.4

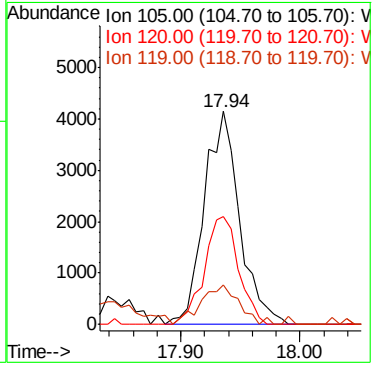




#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 17.94 min Scan# 2191
Delta R.T. -0.01 min
Lab File: W44142.D
Acq: 18 Oct 2013 1:45 am

Tgt Ion:105 Resp: 8560

Ion	Ratio	Lower	Upper
105	100		
120	49.3	39.1	79.1
119	20.1	102.1	142.1#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44159.D Vial: 10
Acq On : 18 Oct 2013 6:26 pm Operator: danat
Sample : jb50276-3 Inst : MSW
Misc : MS56739,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 19 17:30:55 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	161243	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.52	114	823352	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	343637	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	381179	9.35	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 93.50%

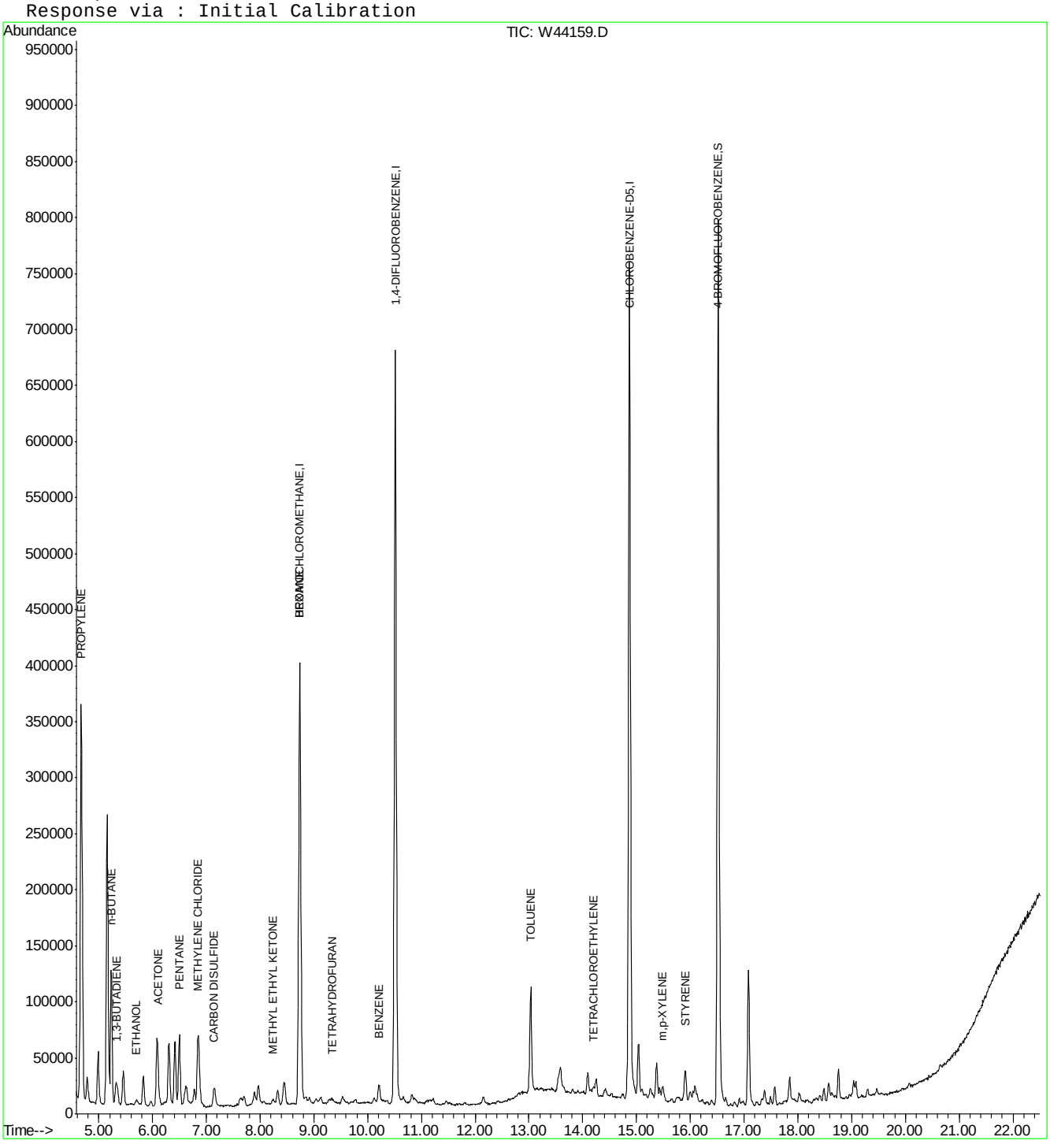
Target Compounds						Qvalue
6) PROPYLENE	4.67	41	259063	17.11	PPBV	97
10) 1,3-BUTADIENE	5.35	54	8659	0.57	PPBV	95
11) n-BUTANE	5.23	58	19311	4.73	PPBV	96
20) ACETONE	6.10	58	13189	1.26	PPBV #	27
22) PENTANE	6.49	57	8911	1.70	PPBV	96
26) CARBON DISULFIDE	7.14	76	37807	0.68	PPBV	98
27) ETHANOL	5.71	45	5014	0.71	PPBV #	93
30) METHYLENE CHLORIDE	6.84	84	41339	1.96	PPBV	100
36) TETRAHYDROFURAN	9.35	72	1999	0.21	PPBV	90
37) HEXANE	8.74	57	21076	0.64	PPBV	88
40) METHYL ETHYL KETONE	8.24	72	2566	0.26	PPBV #	85
51) BENZENE	10.21	78	17811	0.28	PPBV	99
66) TOLUENE	13.03	92	59975	1.35	PPBV	98
72) TETRACHLOROETHYLENE	14.20	164	2742	0.09	PPBV	94
79) m,p-XYLENE	15.48	106	6065	0.18	PPBV	91
81) STYRENE	15.90	104	5497	0.12	PPBV	95

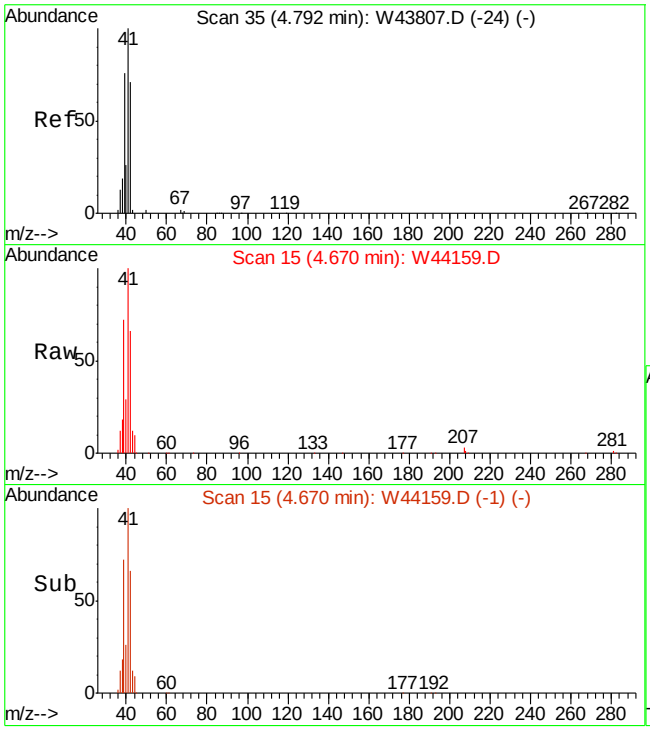
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44159.D Vial: 10
Acq On : 18 Oct 2013 6:26 pm Operator: danat
Sample : jb50276-3 Inst : MSW
Misc : MS56739,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 14:49 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration

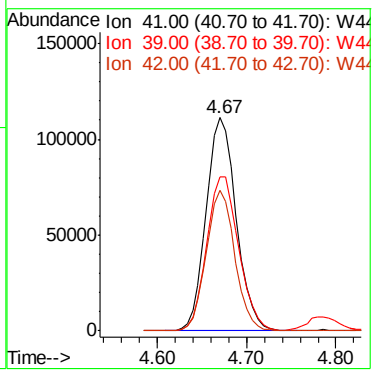


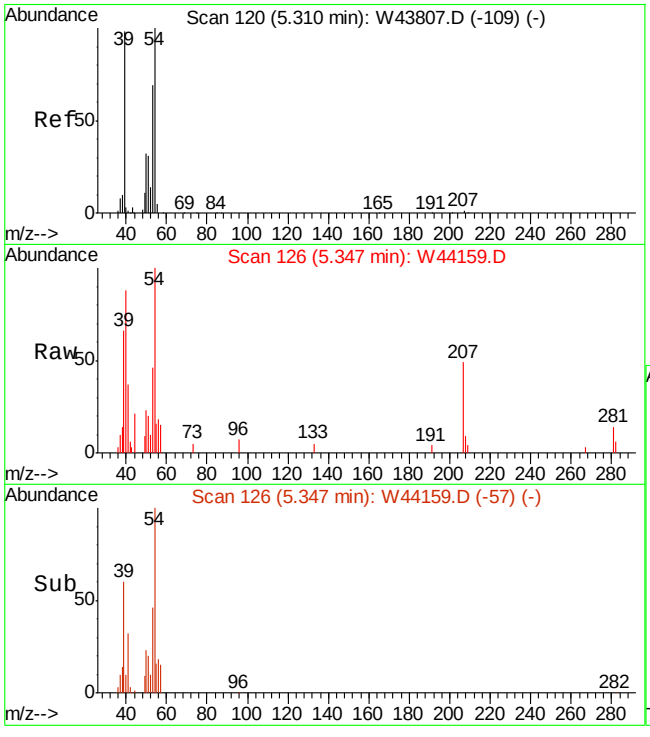


#6
PROPYLENE
Concen: 17.11 PPBV
RT: 4.67 min Scan# 15
Delta R.T. -0.04 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 41 Resp: 259063

Ion	Ratio	Lower	Upper
41	100		
39	72.4	48.7	88.7
42	65.8	44.9	84.9

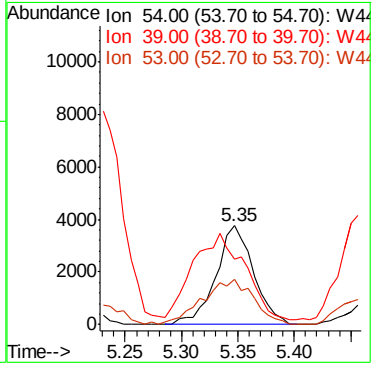


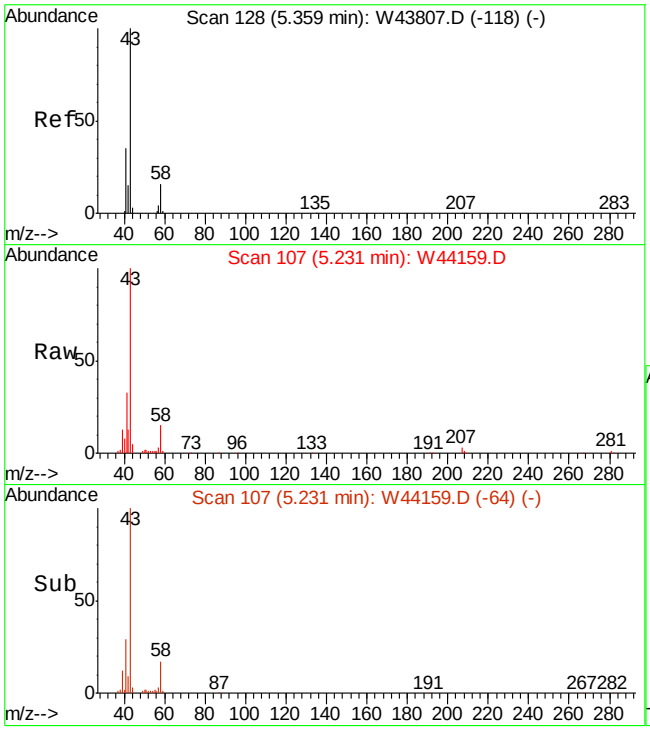


#10
1,3-BUTADIENE
Concen: 0.57 PPBV
RT: 5.35 min Scan# 126
Delta R.T. 0.12 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 54 Resp: 8659

Ion	Ratio	Lower	Upper
54	100		
39	122.6	100.8	140.8
53	62.1	51.2	91.2

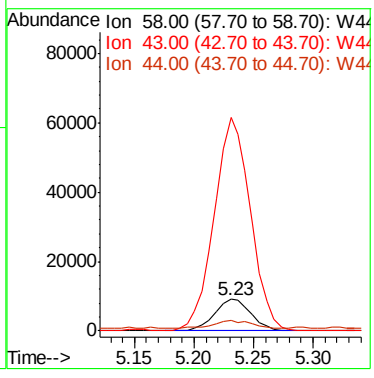


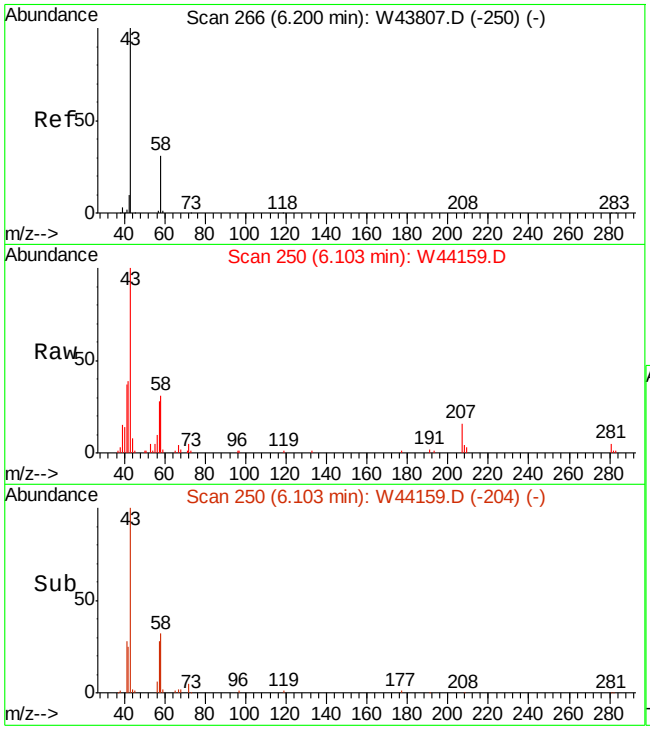


#11
n-BUTANE
Concen: 4.73 PPBV
RT: 5.23 min Scan# 107
Delta R.T. -0.04 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 58 Resp: 19311

Ion	Ratio	Lower	Upper
58	100		
43	675.4	552.0	828.0
44	26.9	20.4	30.6

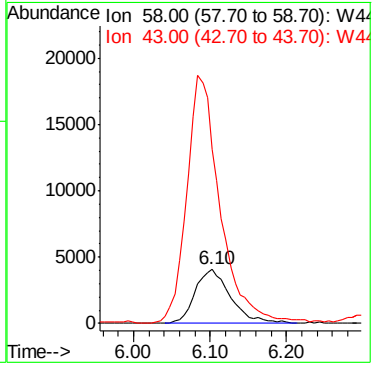


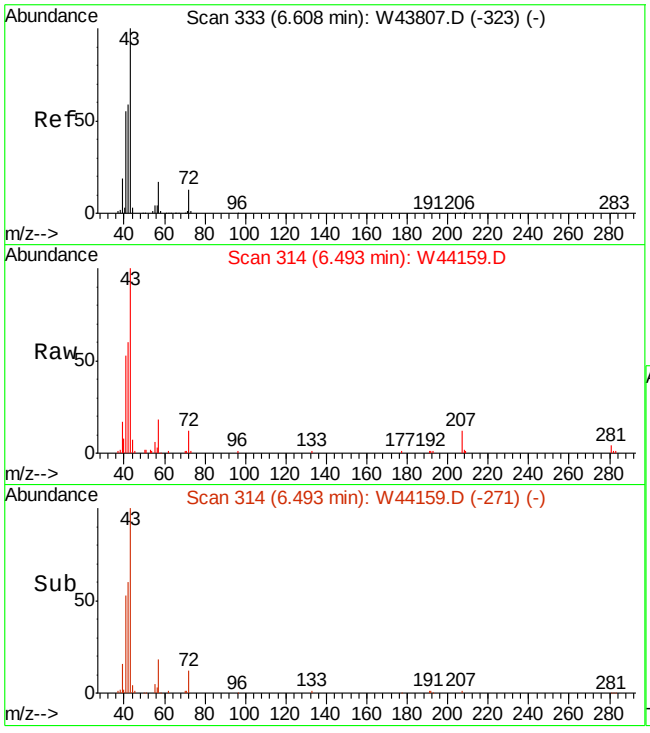


#20
ACETONE
Concen: 1.26 PPBV
RT: 6.10 min Scan# 250
Delta R.T. -0.02 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 58 Resp: 13189

Ion	Ratio	Lower	Upper
58	100		
43	431.7	270.7	310.7#

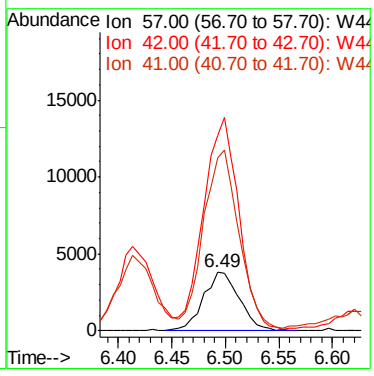


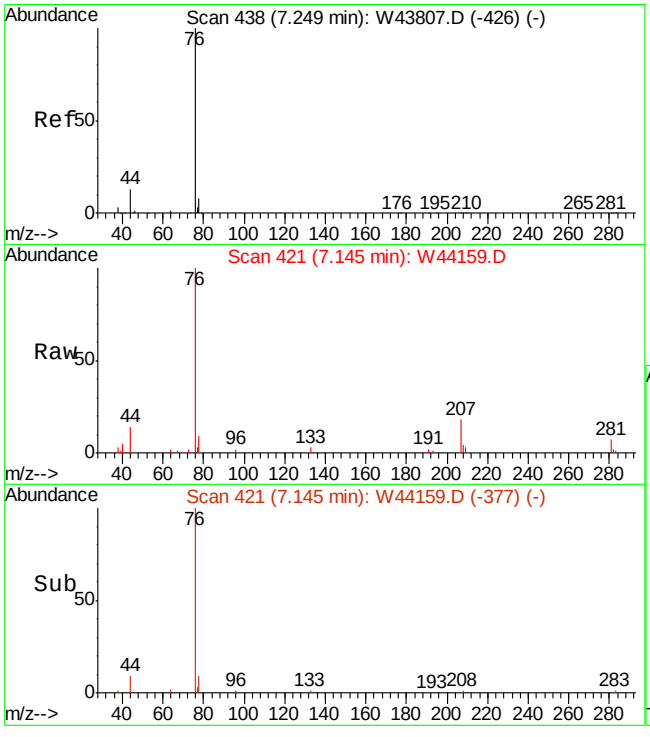


#22
PENTANE
Concen: 1.70 PPBV
RT: 6.49 min Scan# 314
Delta R.T. -0.04 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 57 Resp: 8911

Ion	Ratio	Lower	Upper
57	100		
42	362.2	352.7	392.7
41	298.0	286.0	326.0

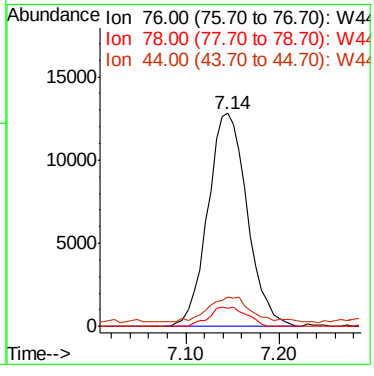


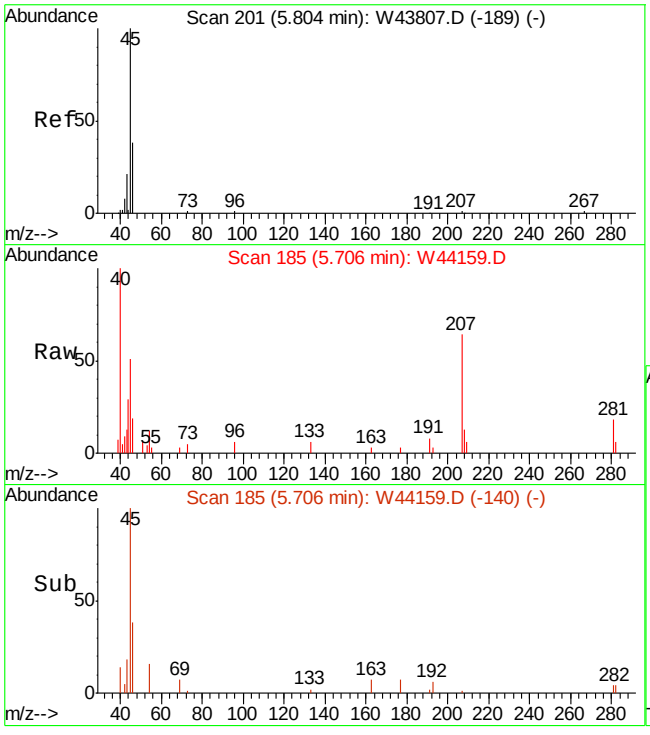


#26
CARBON DISULFIDE
Concen: 0.68 PPBV
RT: 7.14 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 76 Resp: 37807

Ion	Ratio	Lower	Upper
76	100		
78	8.6	0.0	29.0
44	12.4	0.0	31.4

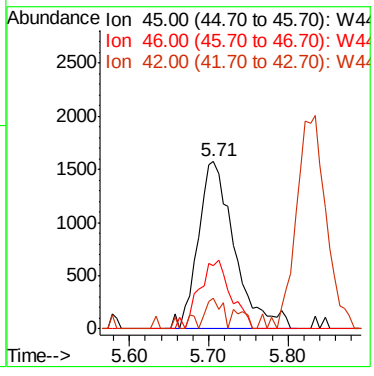


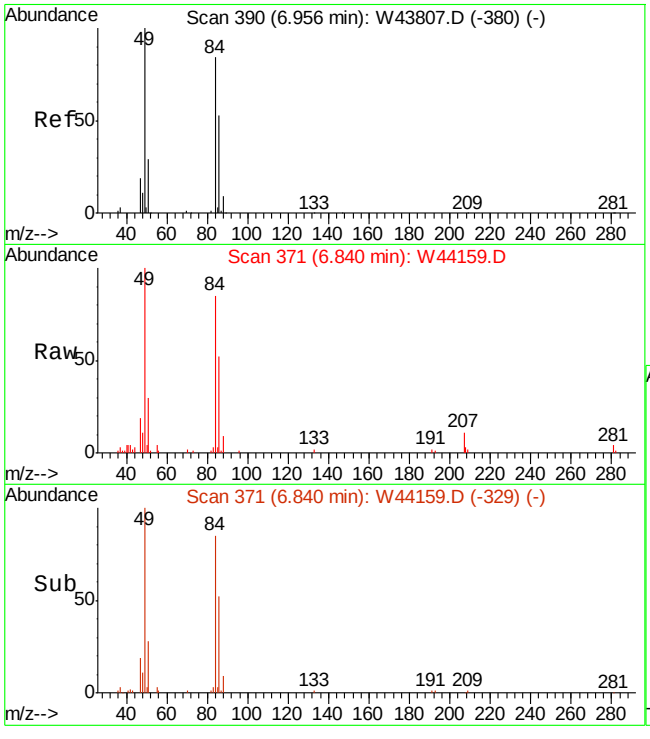


#27
ETHANOL
Concen: 0.71 PPBV
RT: 5.71 min Scan# 185
Delta R.T. -0.02 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 45 Resp: 5014

Ion	Ratio	Lower	Upper
45	100		
46	35.8	18.3	58.3
42	0.0	0.0	27.7

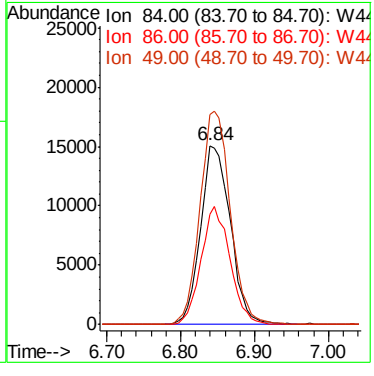


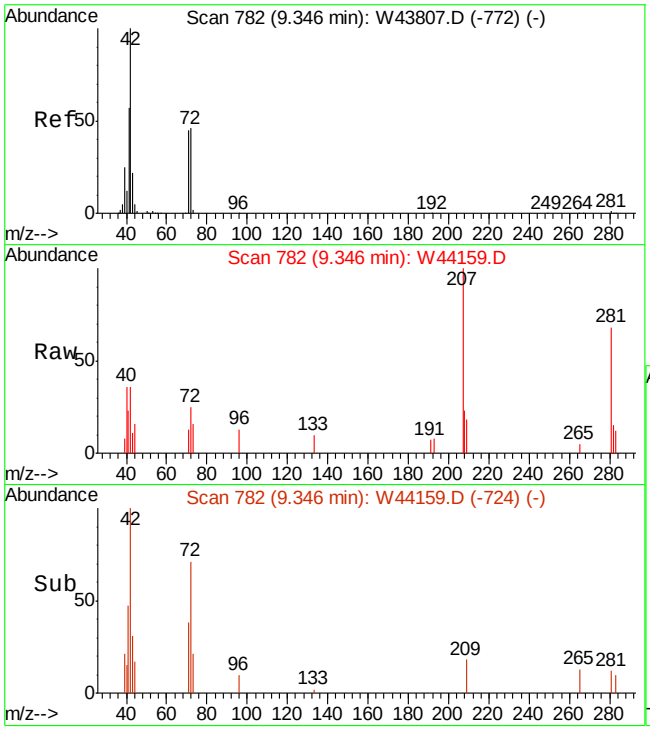


#30
METHYLENE CHLORIDE
Concen: 1.96 PPBV
RT: 6.84 min Scan# 371
Delta R.T. -0.04 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 84 Resp: 41339

Ion	Ratio	Lower	Upper
84	100		
86	63.7	43.2	83.2
49	121.0	0.0	320.8

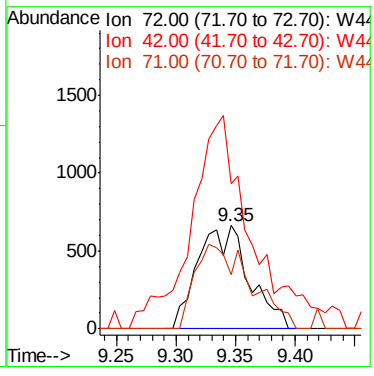


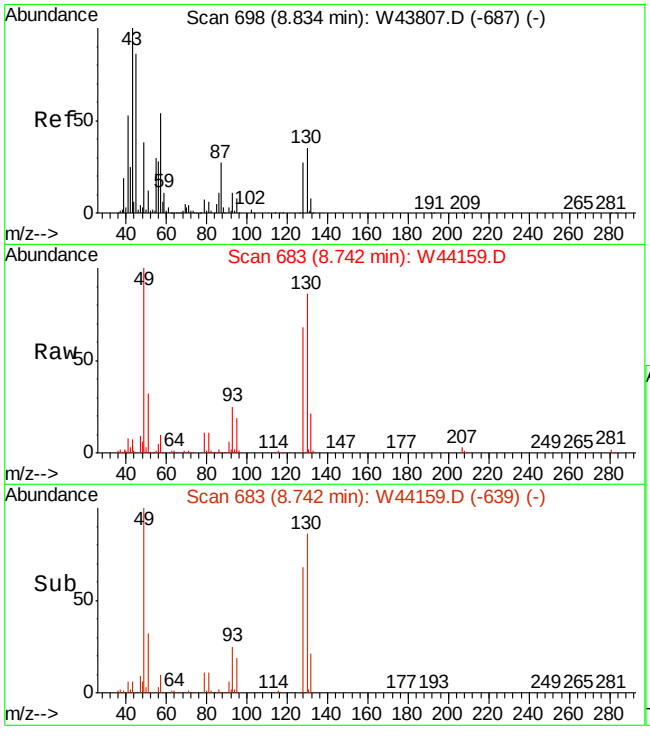


#36
TETRAHYDROFURAN
Concen: 0.21 PPBV
RT: 9.35 min Scan# 782
Delta R.T. 0.05 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 72 Resp: 1999

Ion	Ratio	Lower	Upper
72	100		
42	246.0	206.0	246.0
71	88.1	74.0	114.0

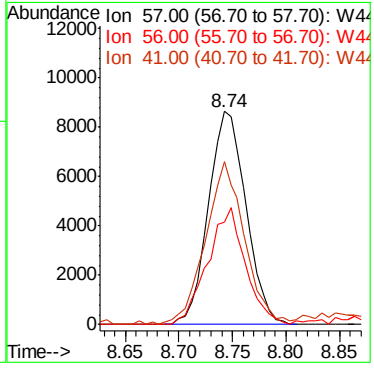


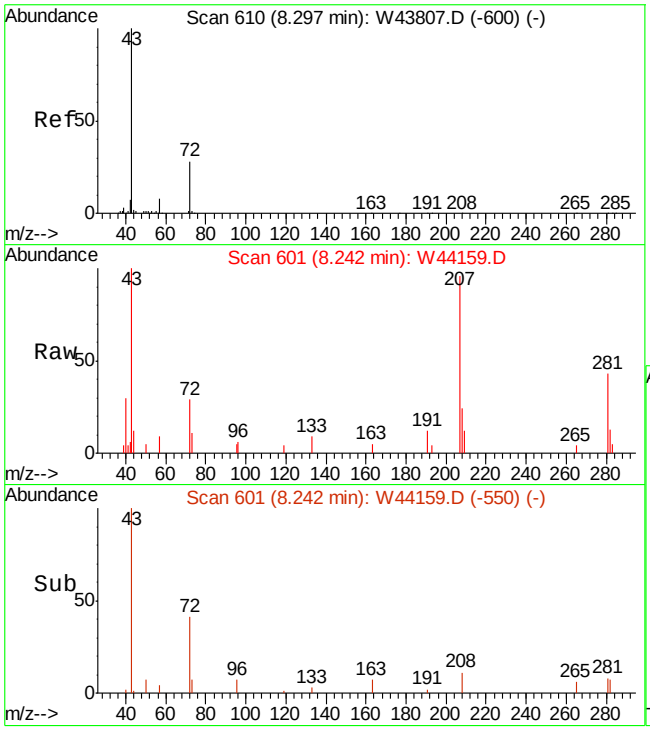


#37
HEXANE
Concen: 0.64 PPBV
RT: 8.74 min Scan# 683
Delta R.T. -0.03 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 57 Resp: 21076

Ion	Ratio	Lower	Upper
57	100		
56	55.1	32.2	72.2
41	79.5	74.7	114.7

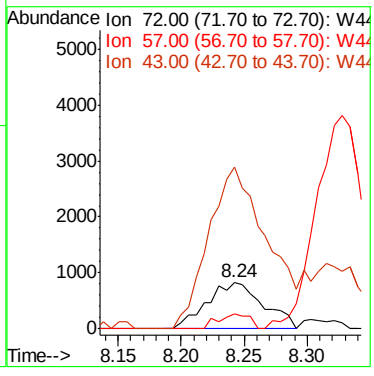


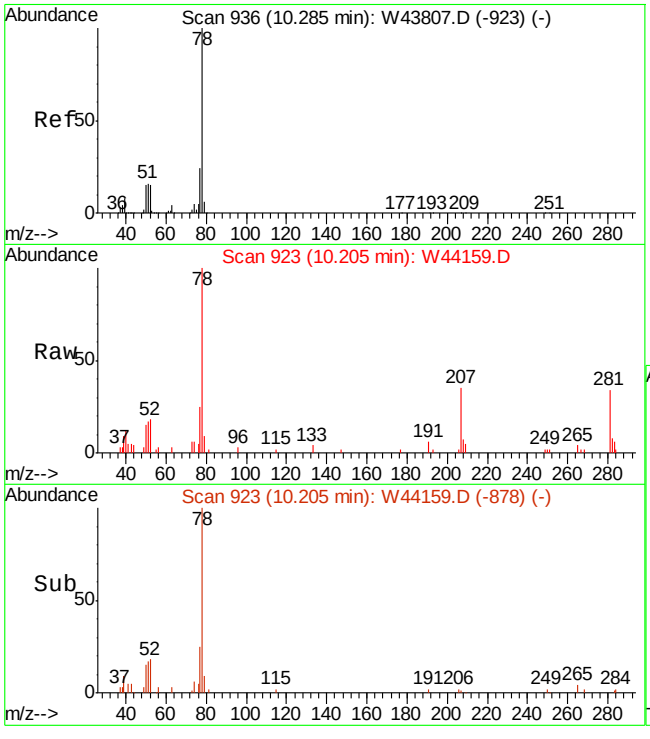


#40
METHYL ETHYL KETONE
Concen: 0.26 PPBV
RT: 8.24 min Scan# 601
Delta R.T. 0.01 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 72 Resp: 2566

Ion	Ratio	Lower	Upper
72	100		
57	32.1	10.3	50.3
43	348.4	364.5	404.5#

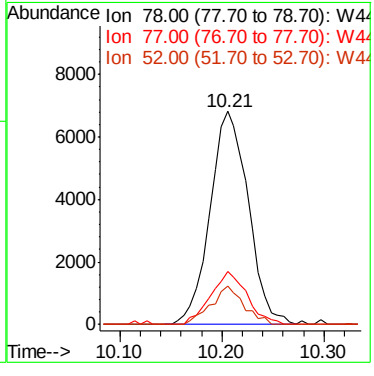


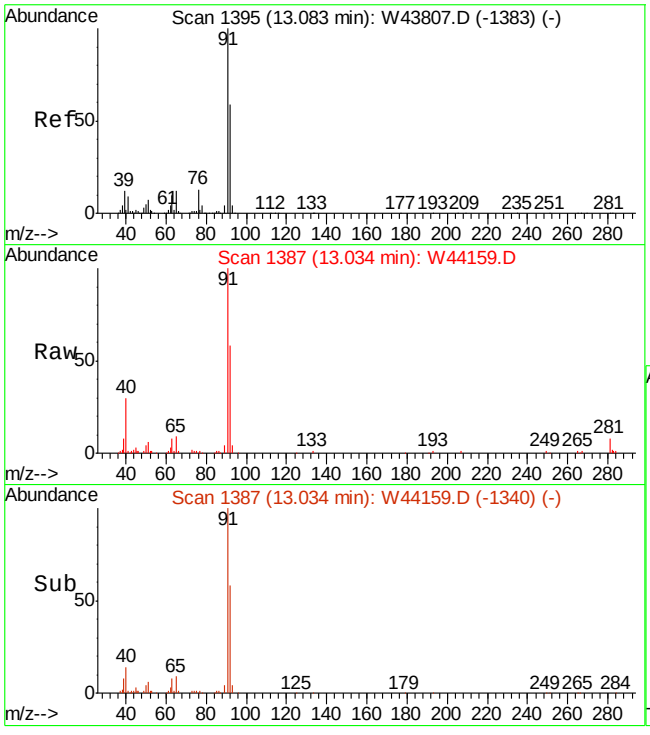


#51
BENZENE
Concen: 0.28 PPBV
RT: 10.21 min Scan# 923
Delta R.T. -0.02 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 78 Resp: 17811

Ion	Ratio	Lower	Upper
78	100		
77	23.6	3.7	43.7
52	15.5	0.0	35.0

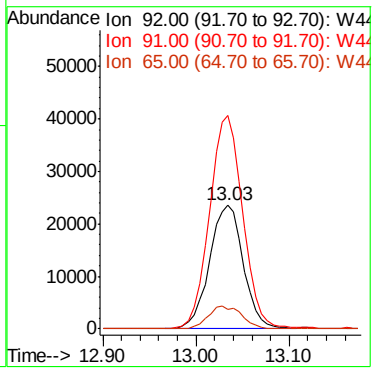


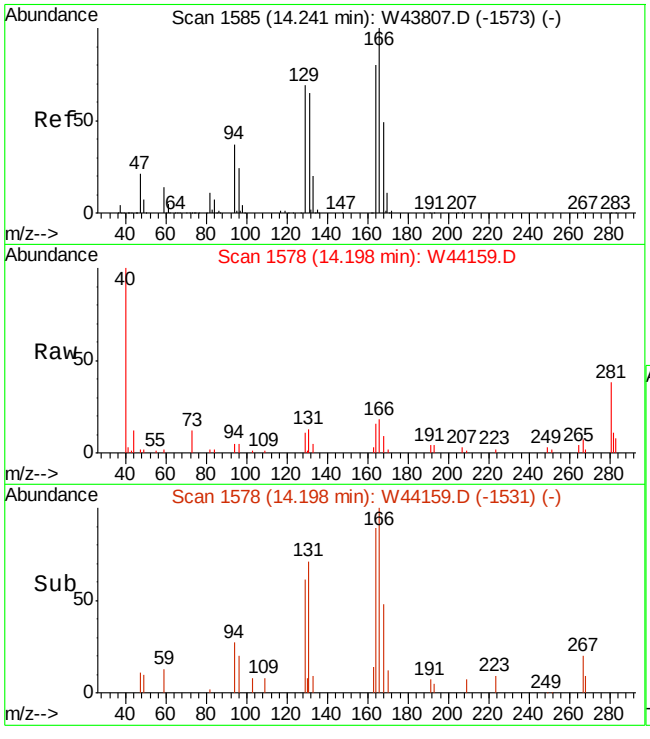


#66
TOLUENE
Concen: 1.35 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion: 92 Resp: 59975

Ion	Ratio	Lower	Upper
92	100		
91	170.1	148.0	188.0
65	18.5	0.5	40.5

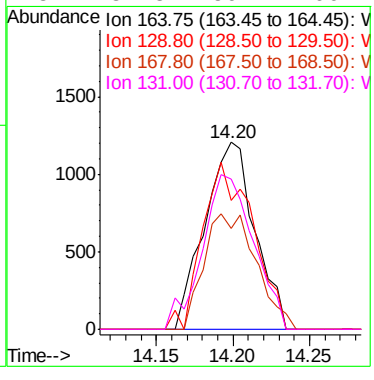


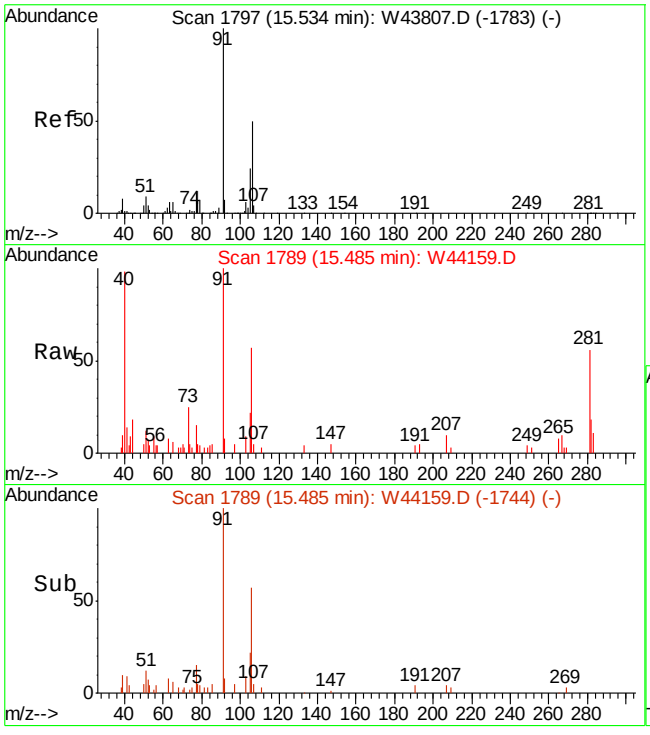


#72
TETRACHLOROETHYLENE
Concen: 0.09 PPBV
RT: 14.20 min Scan# 1578
Delta R.T. -0.01 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion:164 Resp: 2742

Ion	Ratio	Lower	Upper
164	100		
129	89.7	62.5	102.5
168	64.3	41.7	81.7
131	84.8	59.1	99.1

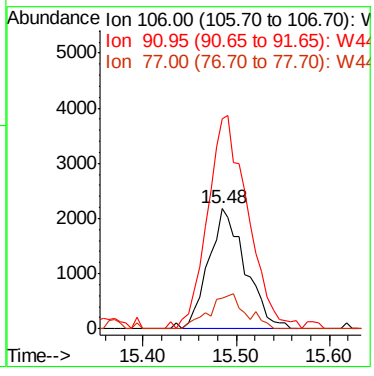


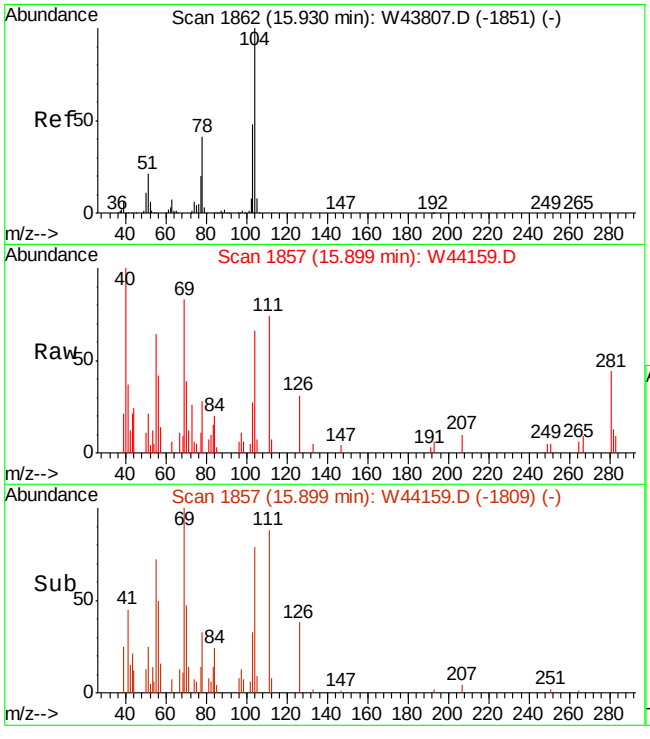


#79
m,p-XYLENE
Concen: 0.18 PPBV
RT: 15.48 min Scan# 1789
Delta R.T. -0.02 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion:106 Resp: 6065

Ion	Ratio	Lower	Upper
106	100		
91	174.1	151.2	226.8
77	25.3	18.7	28.1

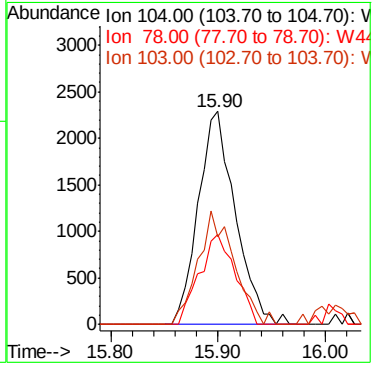




#81
STYRENE
Concen: 0.12 PPBV
RT: 15.90 min Scan# 1857
Delta R.T. -0.01 min
Lab File: W44159.D
Acq: 18 Oct 2013 6:26 pm

Tgt Ion:104 Resp: 5497

Ion	Ratio	Lower	Upper
104	100		
78	40.7	18.7	58.7
103	52.0	27.3	67.3



7.1.3

7

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 16:16

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44143.D Vial: 15
Acq On : 18 Oct 2013 2:25 am Operator: danat
Sample : jb50276-4 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 08:29:42 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

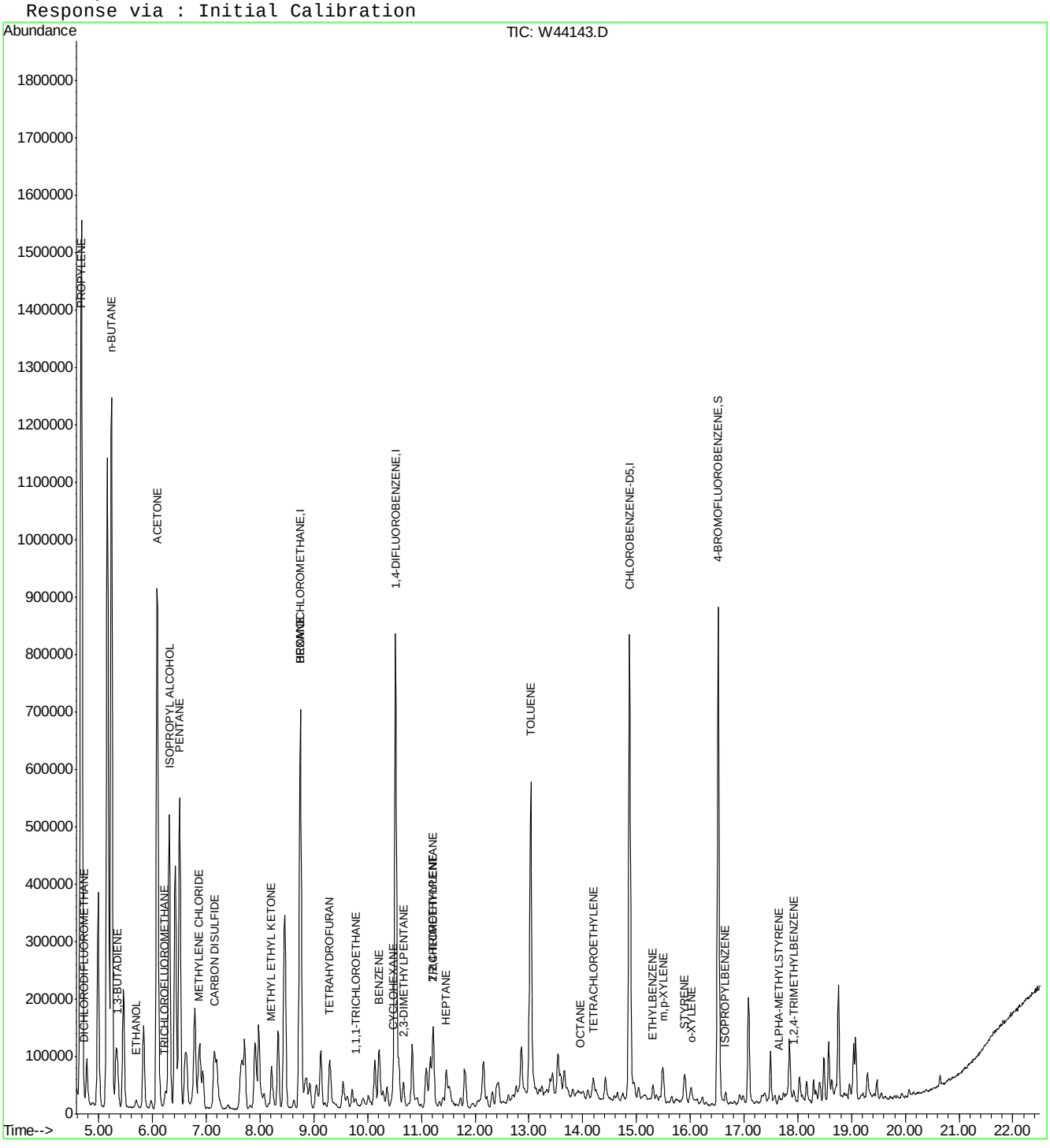
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	189711	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	963640	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	366058	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	410384	9.45	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.50%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.73	85	7322	0.14	PPBV	96
6) PROPYLENE	4.66	41	1034802	58.07	PPBV	95
10) 1,3-BUTADIENE	5.35	54	37300m	2.09	PPBV	
11) n-BUTANE	5.24	58	214696	44.69	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.21	101	5503	0.10	PPBV	98
19) ISOPROPYL ALCOHOL	6.31	45	18103	0.56	PPBV #	1
20) ACETONE	6.08	58	293835	23.79	PPBV #	65
22) PENTANE	6.50	57	83116	12.88	PPBV	98
26) CARBON DISULFIDE	7.15	76	213085	3.24	PPBV	100
27) ETHANOL	5.70	45	12200	1.47	PPBV #	94
30) METHYLENE CHLORIDE	6.86	84	38398	1.54	PPBV	97
36) TETRAHYDROFURAN	9.29	72	18984	1.67	PPBV #	89
37) HEXANE	8.75	57	150374	3.91	PPBV	92
40) METHYL ETHYL KETONE	8.21	72	37819	3.31	PPBV #	91
47) 1,1,1-TRICHLOROETHANE	9.78	97	10398	0.22	PPBV	99
51) BENZENE	10.21	78	106211	1.43	PPBV	98
52) CYCLOHEXANE	10.47	84	16115	0.48	PPBV #	4
53) 2,3-DIMETHYLPENTANE	10.67	71	9127	0.53	PPBV	95
54) TRICHLOROETHYLENE	11.21	95	2954	0.09	PPBV	92
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	133837	1.13	PPBV	89
62) HEPTANE	11.46	43	32072	0.78	PPBV	99
66) TOLUENE	13.03	92	322426	6.19	PPBV	98
72) TETRACHLOROETHYLENE	14.20	164	12504	0.38	PPBV	98
75) OCTANE	13.96	43	16300	0.35	PPBV #	31
78) ETHYLBENZENE	15.31	91	31021	0.34	PPBV	98
79) m,p-XYLENE	15.49	106	32383	0.92	PPBV	98
80) o-XYLENE	16.02	106	10588	0.32	PPBV	97
81) STYRENE	15.90	104	31659	0.63	PPBV	99
87) ISOPROPYLBENZENE	16.66	105	19966	0.20	PPBV	95
93) ALPHA-METHYLSTYRENE	17.66	118	5536	0.17	PPBV	87
95) 1,2,4-TRIMETHYLBENZENE	17.93	105	10183	0.16	PPBV #	33

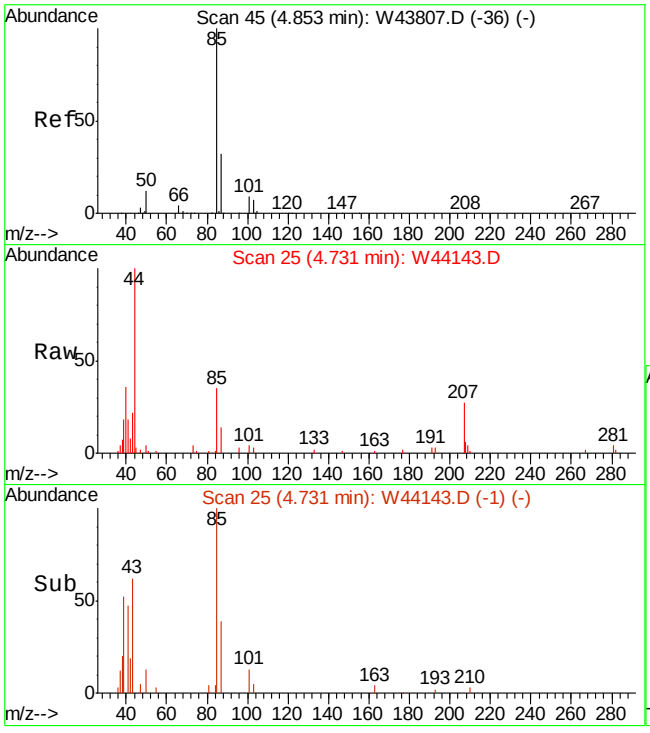
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44143.D Vial: 15
Acq On : 18 Oct 2013 2:25 am Operator: danat
Sample : jb50276-4 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 14:20 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration

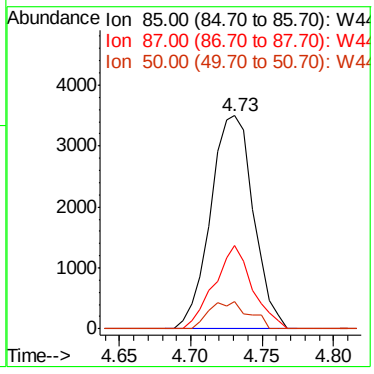


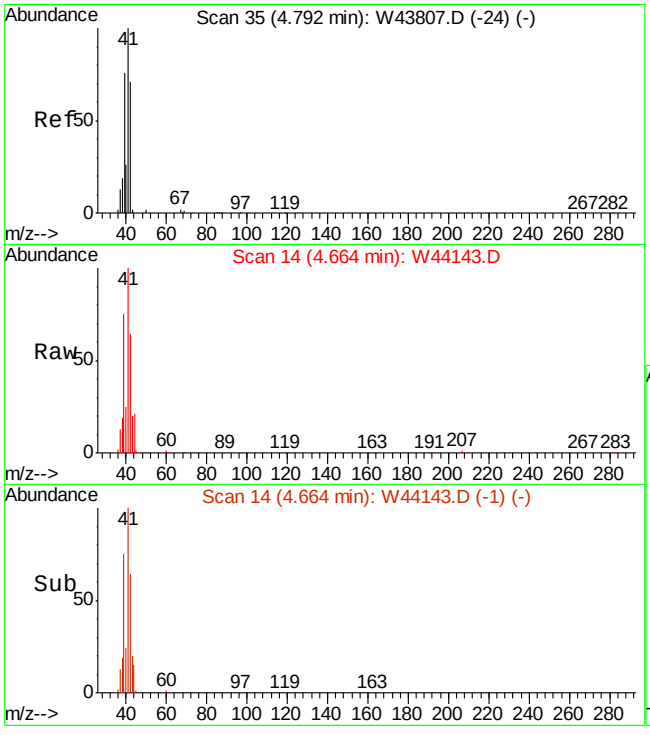


#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.73 min Scan# 25
Delta R.T. -0.04 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 85 Resp: 7322

Ion	Ratio	Lower	Upper
85	100		
87	34.7	12.1	52.1
50	11.8	0.0	30.6

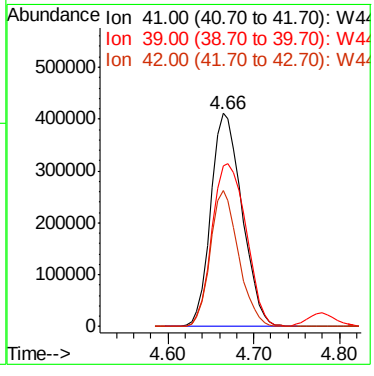


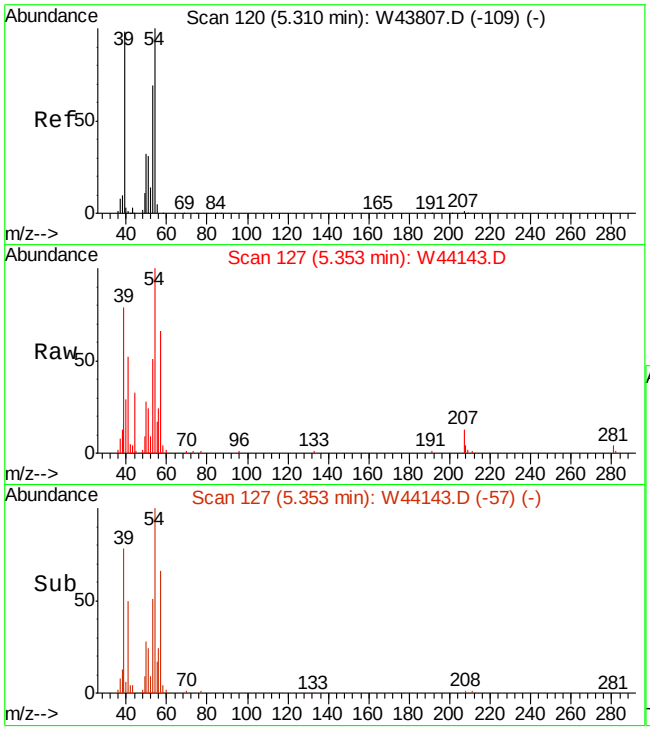


#6
PROPYLENE
Concen: 58.07 PPBV
RT: 4.66 min Scan# 14
Delta R.T. -0.04 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 41 Resp: 1034802

Ion	Ratio	Lower	Upper
41	100		
39	75.3	48.7	88.7
42	63.9	44.9	84.9

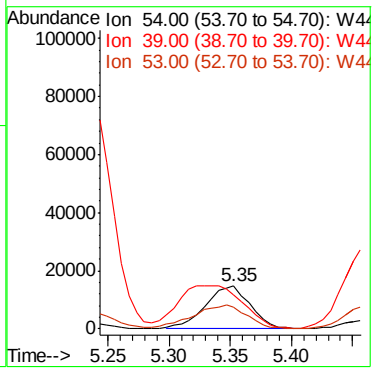


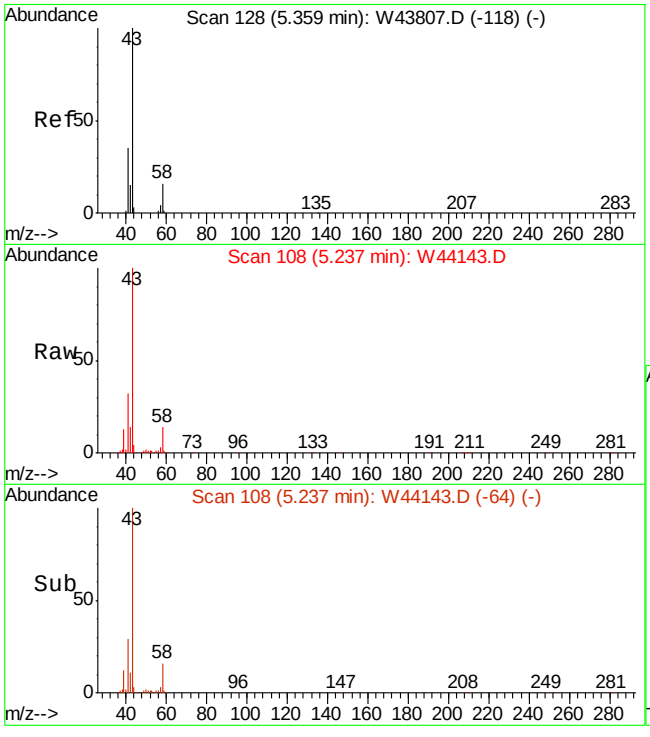


#10
1,3-BUTADIENE
Concen: 2.09 PPBV m
RT: 5.35 min Scan# 127
Delta R.T. 0.13 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 54 Resp: 37300

Ion	Ratio	Lower	Upper
54	100		
39	0.0	100.8	140.8#
53	0.0	51.2	91.2#

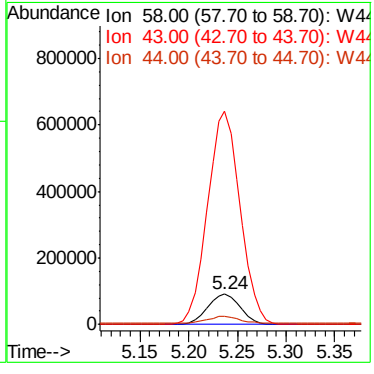


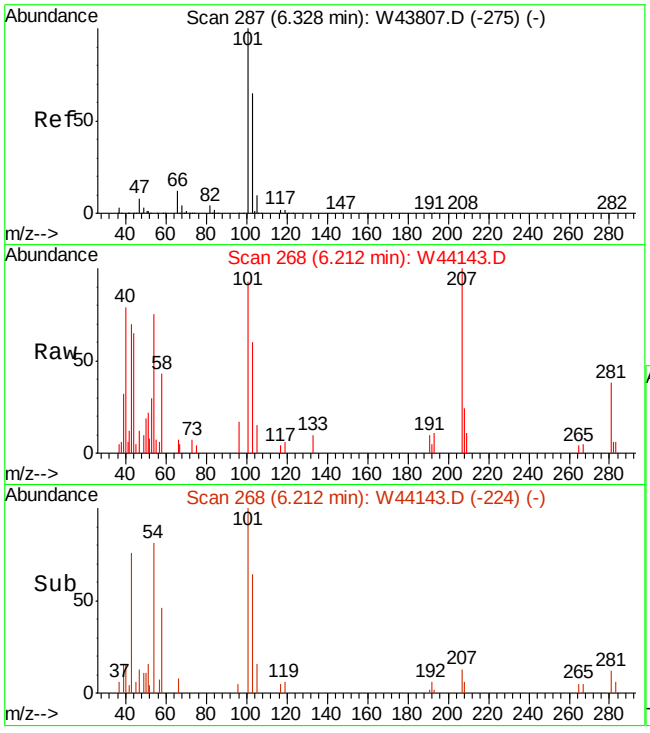


#11
n-BUTANE
Concen: 44.69 PPBV
RT: 5.24 min Scan# 108
Delta R.T. -0.03 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 58 Resp: 214696

Ion	Ratio	Lower	Upper
58	100		
43	691.1	552.0	828.0
44	24.0	20.4	30.6

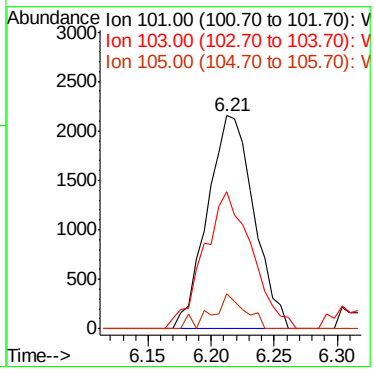


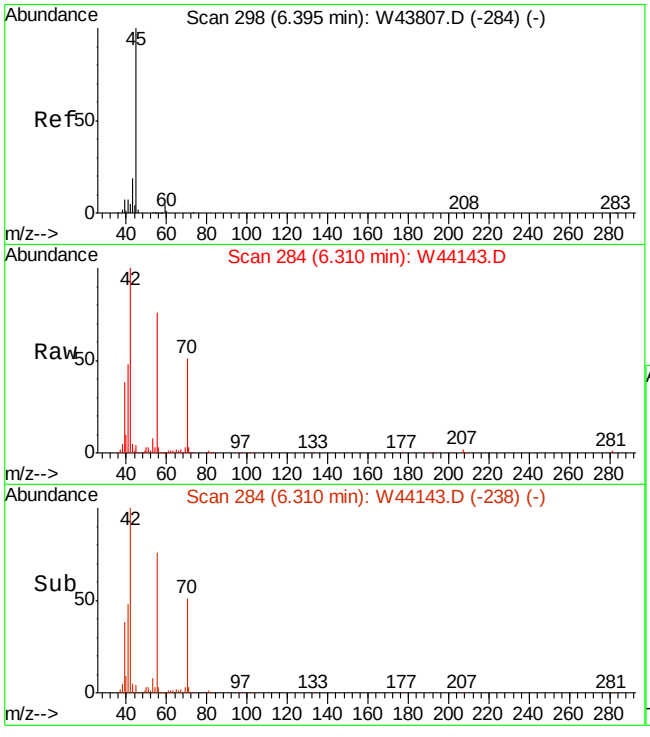


#18
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 6.21 min Scan# 268
Delta R.T. -0.03 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:101 Resp: 5503

Ion	Ratio	Lower	Upper
101	100		
103	66.4	45.1	85.1
105	11.7	0.0	30.4

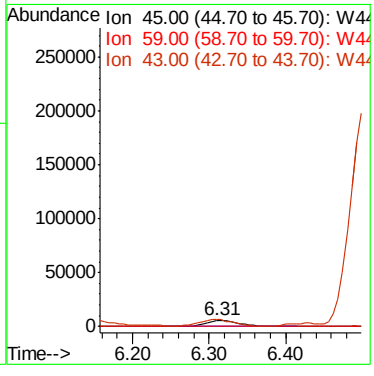


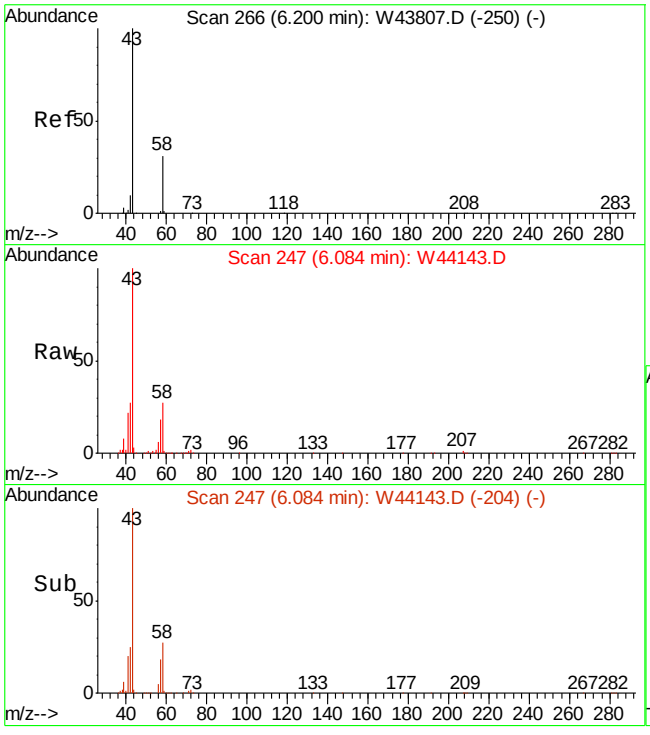


#19
ISOPROPYL ALCOHOL
Concen: 0.56 PPBV
RT: 6.31 min Scan# 284
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 45 Resp: 18103

Ion	Ratio	Lower	Upper
45	100		
59	3.0	0.0	24.3
43	115.6	0.0	36.4#

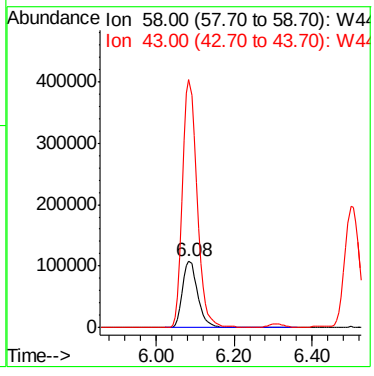


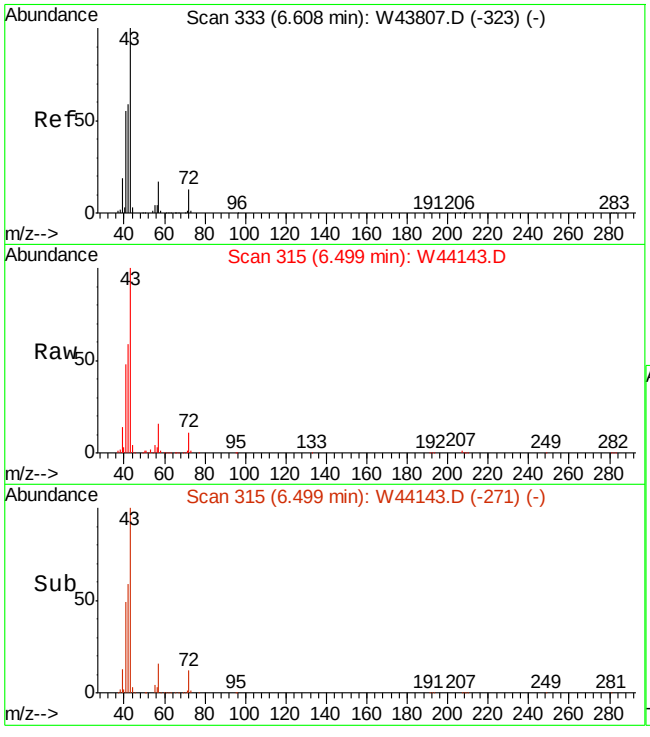


#20
ACETONE
Concen: 23.79 PPBV
RT: 6.08 min Scan# 247
Delta R.T. -0.04 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 58 Resp: 293835

Ion	Ratio	Lower	Upper
58	100		
43	357.1	270.7	310.7#

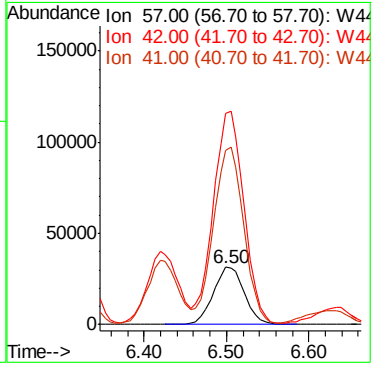




#22
PENTANE
Concen: 12.88 PPBV
RT: 6.50 min Scan# 315
Delta R.T. -0.03 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

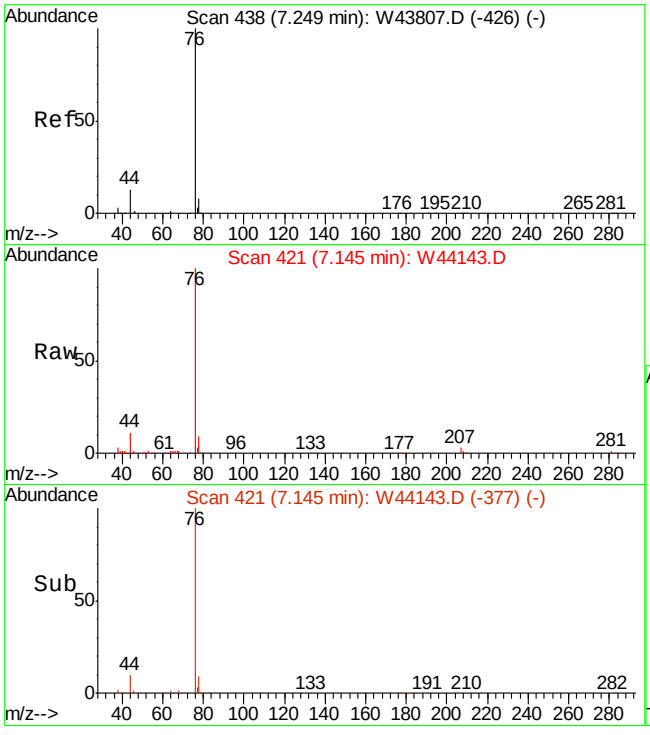
Tgt Ion: 57 Resp: 83116

Ion	Ratio	Lower	Upper
57	100		
42	368.2	352.7	392.7
41	304.1	286.0	326.0



7.1.4

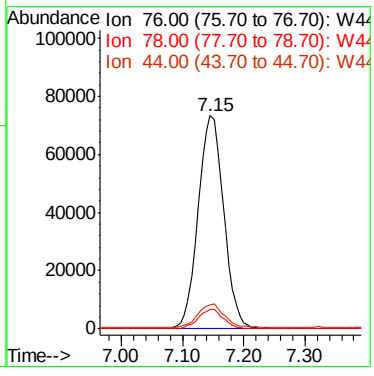
7

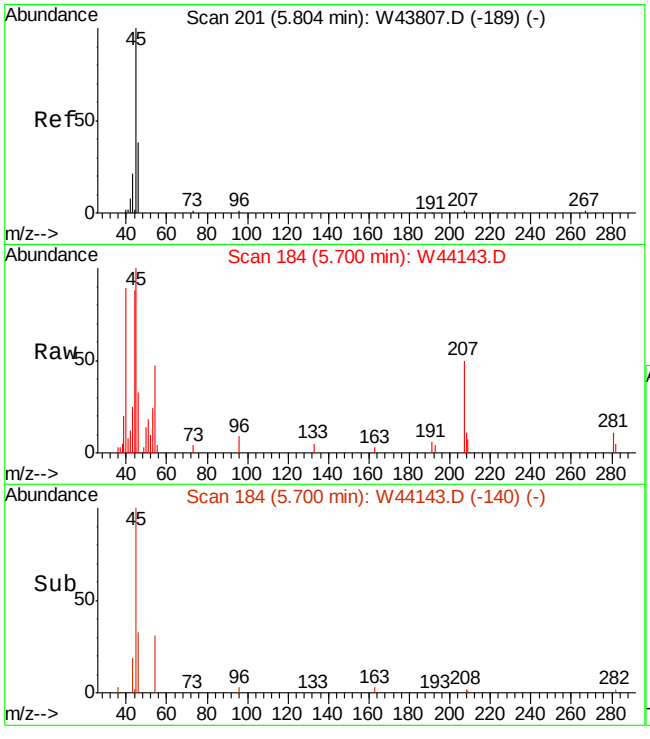


#26
CARBON DISULFIDE
Concen: 3.24 PPBV
RT: 7.15 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 76 Resp: 213085

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.0
44	11.2	0.0	31.4

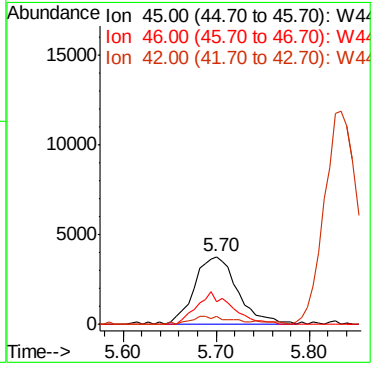


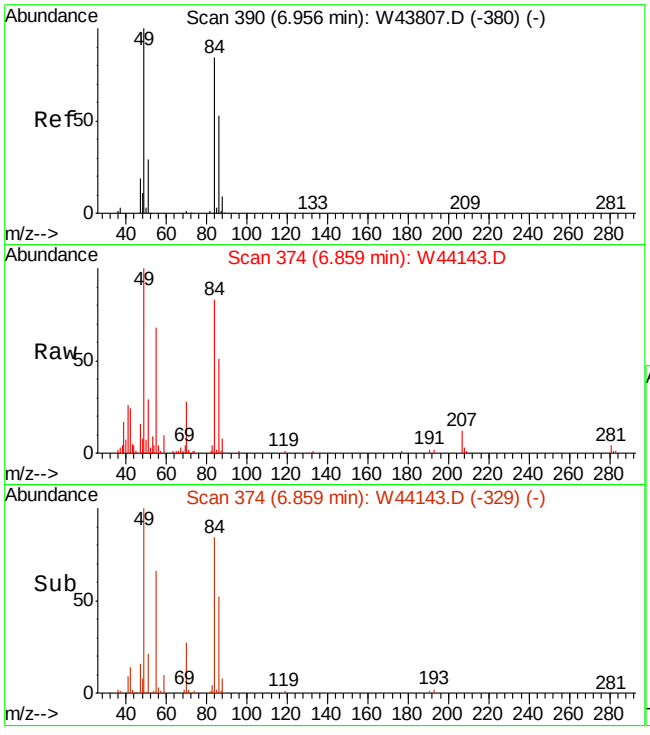


#27
ETHANOL
Concen: 1.47 PPBV
RT: 5.70 min Scan# 184
Delta R.T. -0.03 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 45 Resp: 12200

Ion	Ratio	Lower	Upper
45	100		
46	39.7	18.3	58.3
42	0.0	0.0	27.7

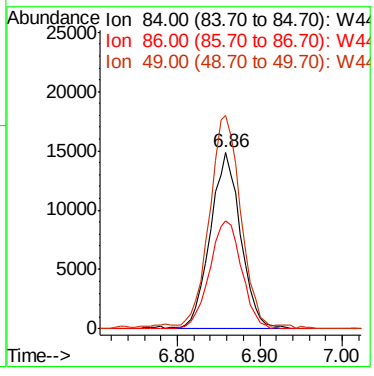


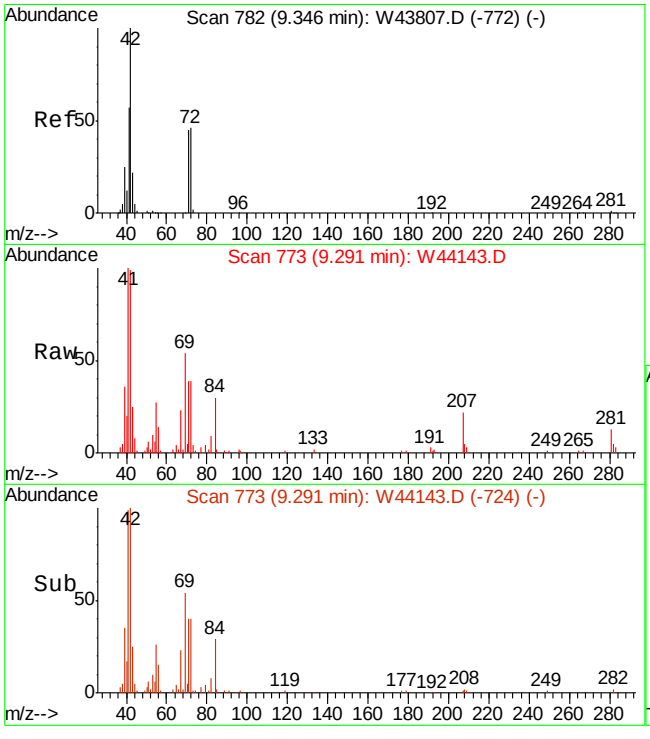


#30
METHYLENE CHLORIDE
Concen: 1.54 PPBV
RT: 6.86 min Scan# 374
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 84 Resp: 38398

Ion	Ratio	Lower	Upper
84	100		
86	64.4	43.2	83.2
49	125.4	0.0	320.8

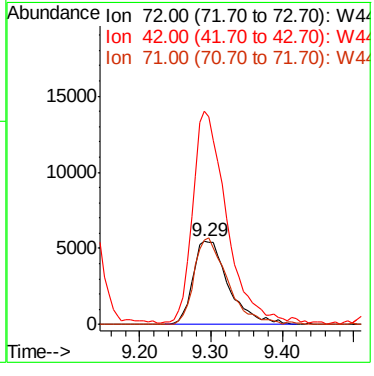


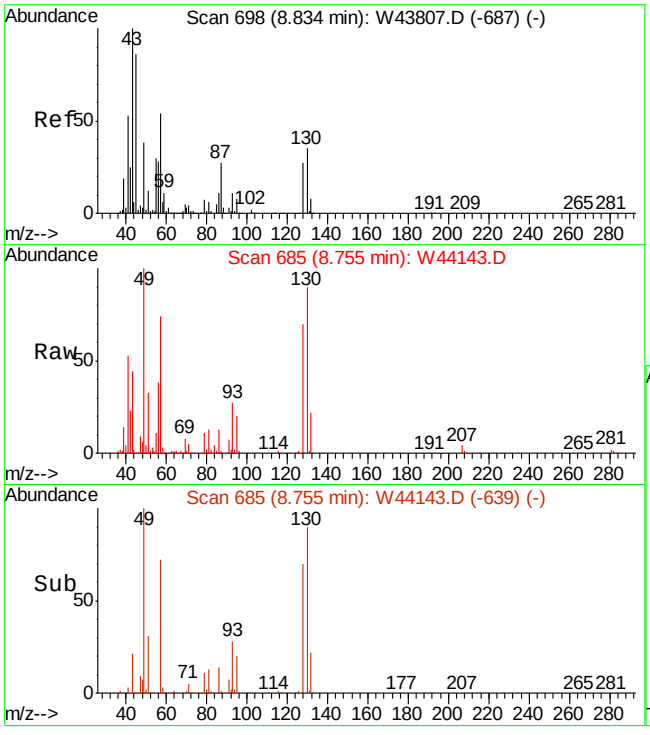


#36
TETRAHYDROFURAN
Concen: 1.67 PPBV
RT: 9.29 min Scan# 773
Delta R.T. 0.00 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 72 Resp: 18984

Ion	Ratio	Lower	Upper
72	100		
42	248.7	206.0	246.0#
71	97.6	74.0	114.0

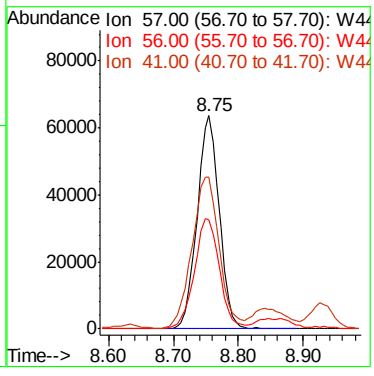


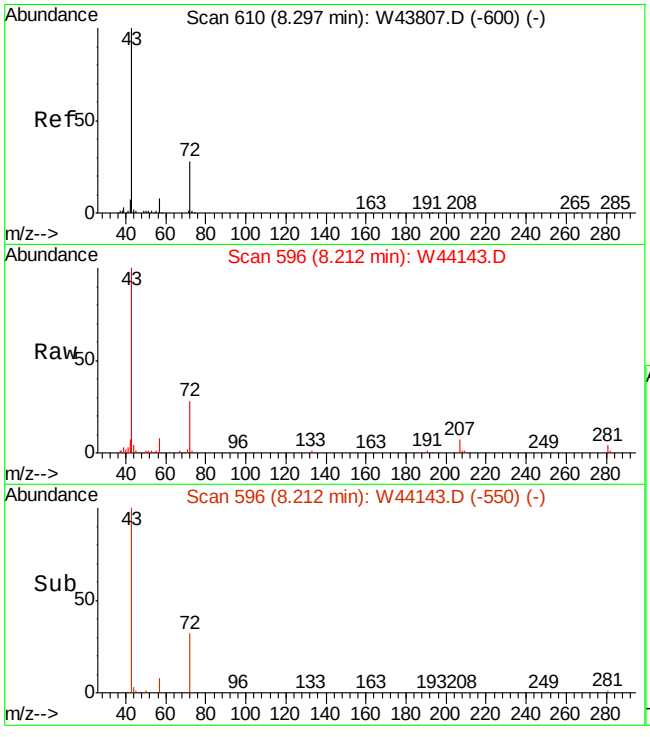


#37
HEXANE
Concen: 3.91 PPBV
RT: 8.75 min Scan# 685
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 57 Resp: 150374

Ion	Ratio	Lower	Upper
57	100		
56	59.2	32.2	72.2
41	87.3	74.7	114.7

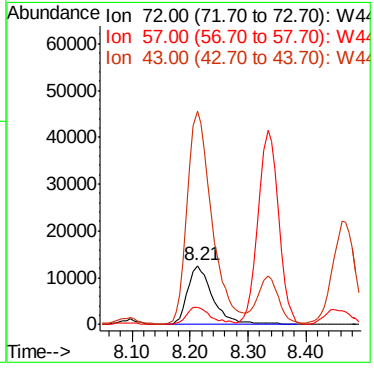


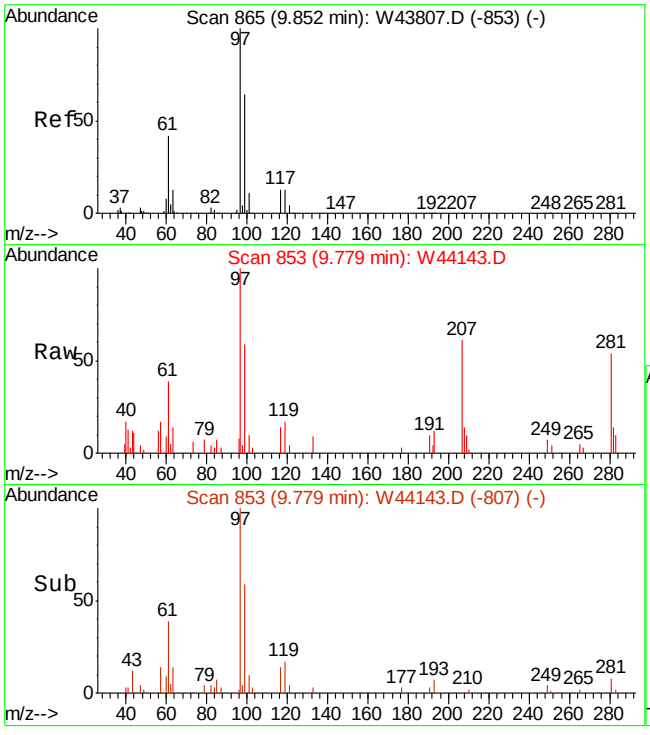


#40
METHYL ETHYL KETONE
Concen: 3.31 PPBV
RT: 8.21 min Scan# 596
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 72 Resp: 37819

Ion	Ratio	Lower	Upper
72	100		
57	29.1	10.3	50.3
43	362.0	364.5	404.5#

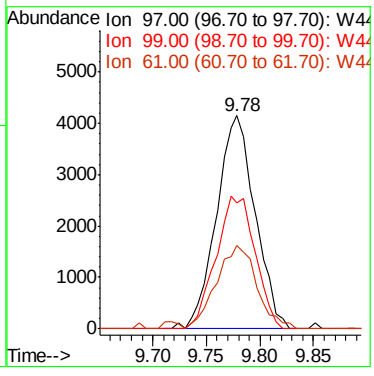


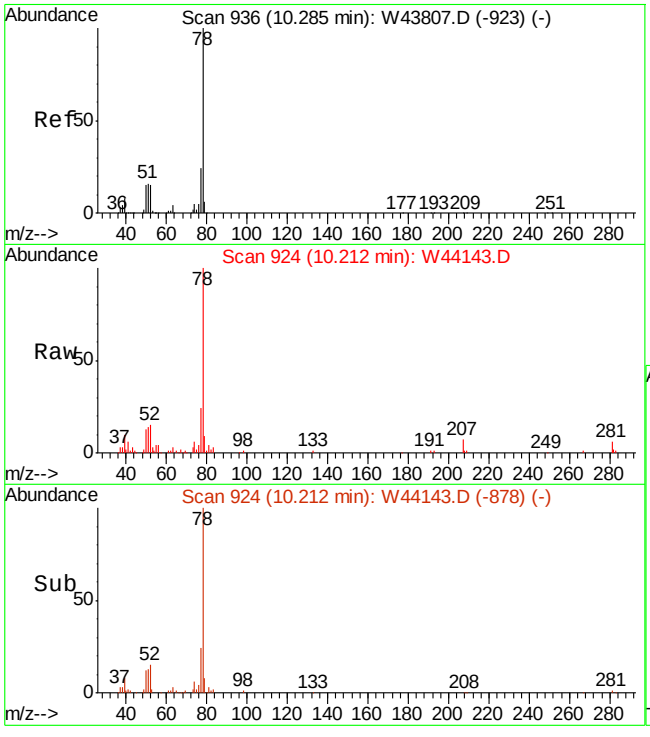


#47
1,1,1-TRICHLOROETHANE
Concen: 0.22 PPBV
RT: 9.78 min Scan# 853
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 97 Resp: 10398

Ion	Ratio	Lower	Upper
97	100		
99	63.1	44.2	84.2
61	40.7	21.3	61.3

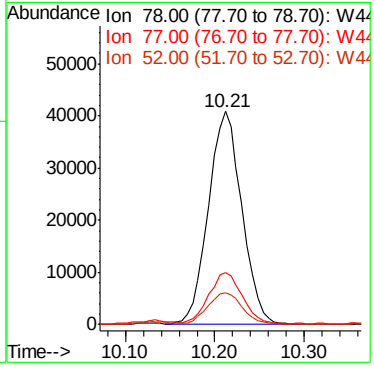


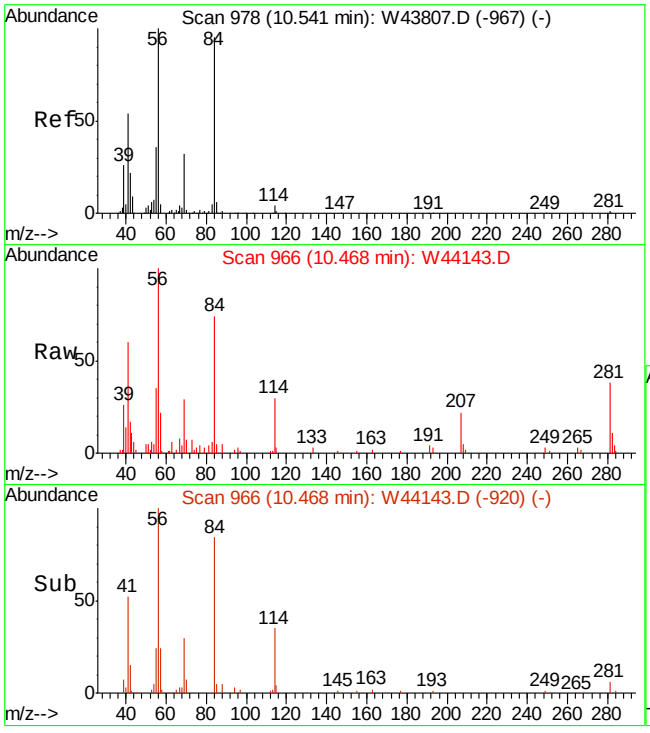


#51
BENZENE
Concen: 1.43 PPBV
RT: 10.21 min Scan# 924
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 78 Resp: 106211

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
52	15.6	0.0	35.0

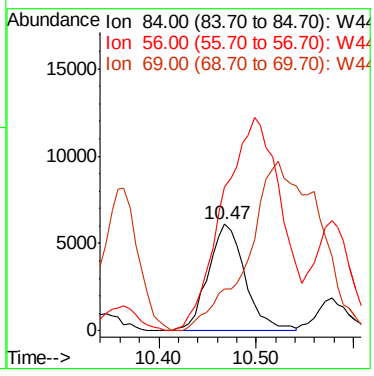


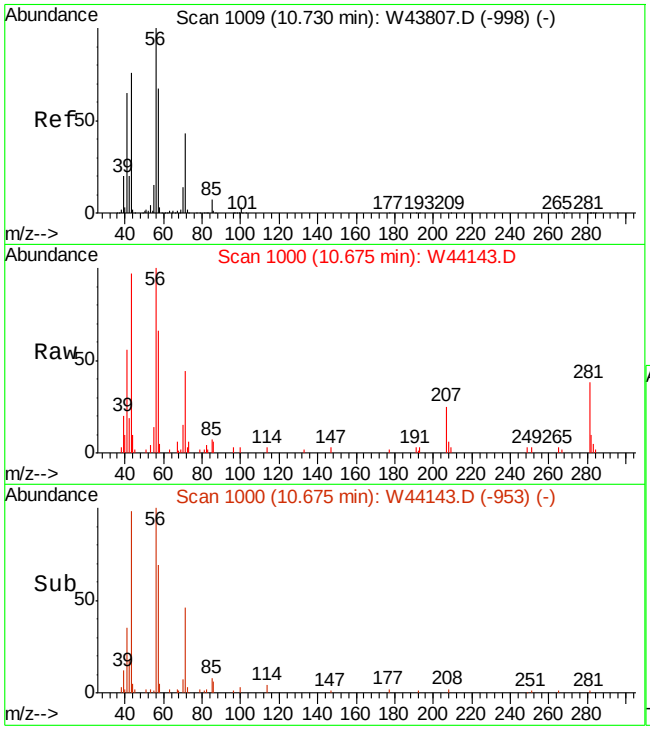


#52
CYCLOHEXANE
Concen: 0.48 PPBV
RT: 10.47 min Scan# 966
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 84 Resp: 16115

Ion	Ratio	Lower	Upper
84	100		
56	0.0	96.7	136.7#
69	0.0	20.6	60.6#

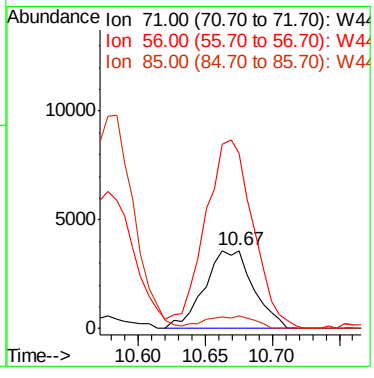


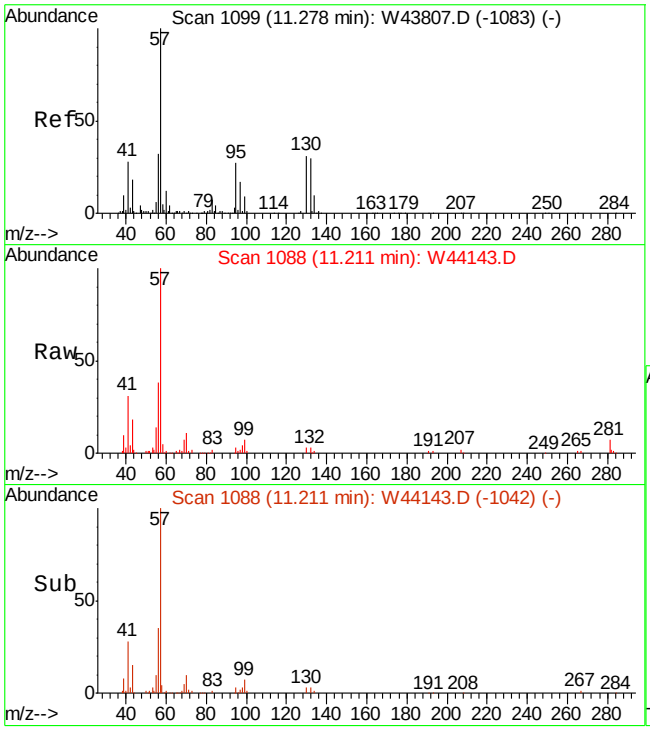


#53
2,3-DIMETHYLPENTANE
Concen: 0.53 PPBV
RT: 10.67 min Scan# 1000
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 71 Resp: 9127

Ion	Ratio	Lower	Upper
71	100		
56	236.6	196.2	294.4
85	16.3	13.4	20.0

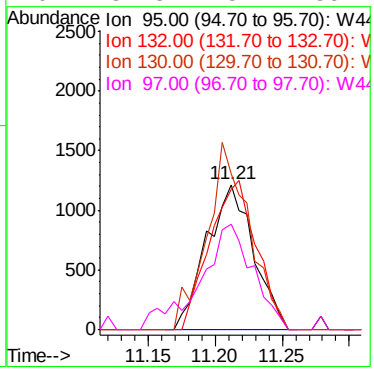


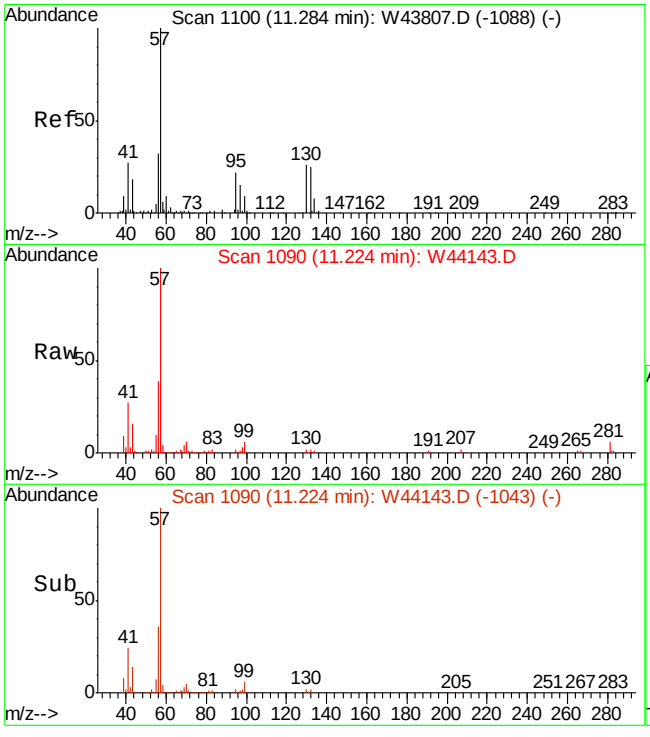


#54
TRICHLOROETHYLENE
Concen: 0.09 PPBV
RT: 11.21 min Scan# 1088
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 95 Resp: 2954

Ion	Ratio	Lower	Upper
95	100		
132	102.3	87.7	127.7
130	116.4	92.0	132.0
97	81.8	45.1	85.1

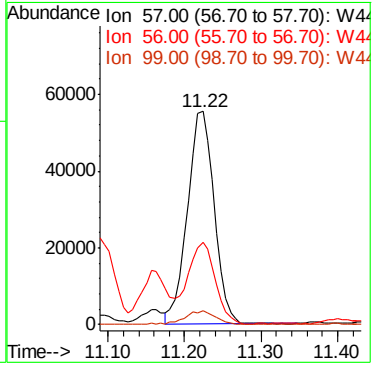




#59
2,2,4-TRIMETHYLPENTANE
Concen: 1.13 PPBV
RT: 11.22 min Scan# 1090
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

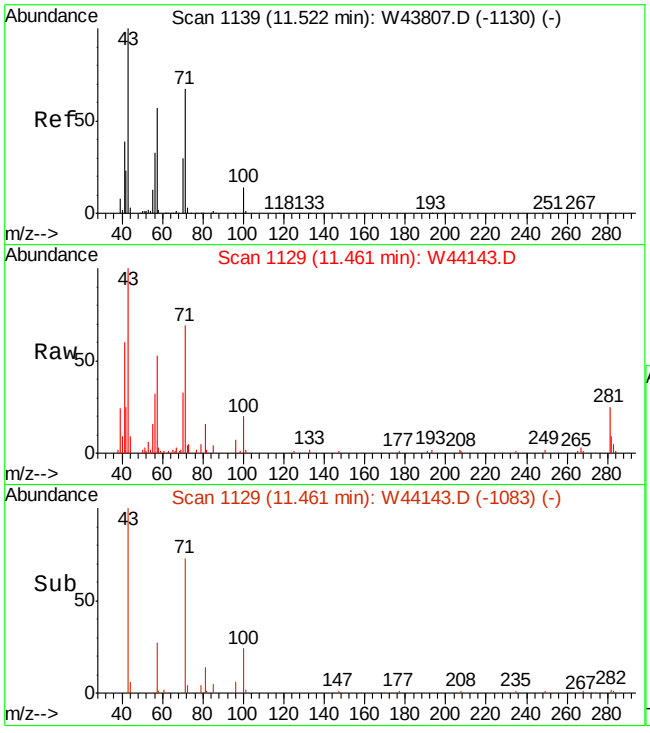
Tgt Ion: 57 Resp: 133837

Ion	Ratio	Lower	Upper
57	100		
56	39.4	12.2	52.2
99	7.2	0.0	28.0



7.1.4

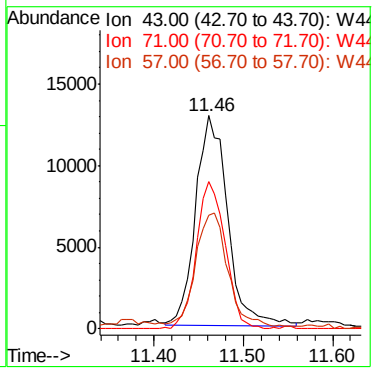
7

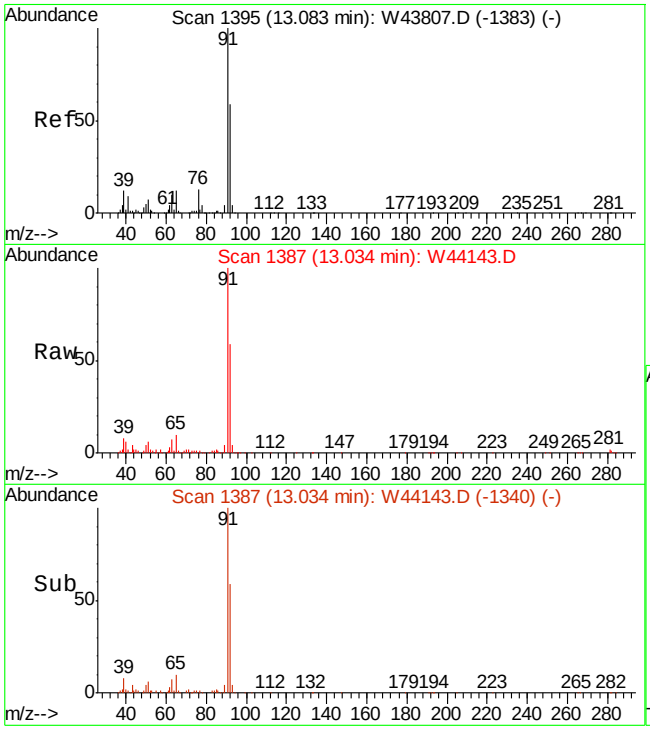


#62
HEPTANE
Concen: 0.78 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 43 Resp: 32072

Ion	Ratio	Lower	Upper
43	100		
71	63.0	43.7	83.7
57	53.5	34.7	74.7

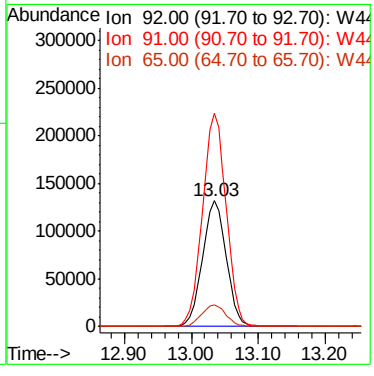


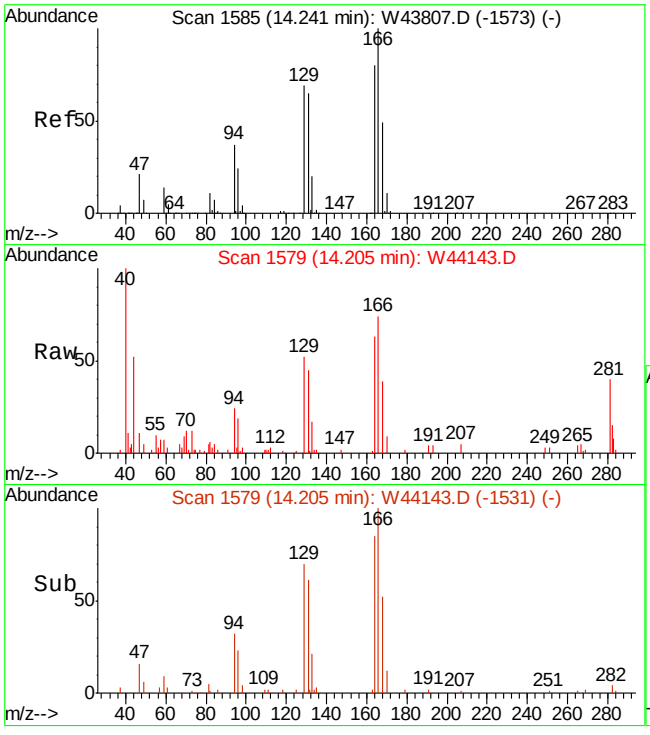


#66
TOLUENE
Concen: 6.19 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 92 Resp: 322426

Ion	Ratio	Lower	Upper
92	100		
91	170.0	148.0	188.0
65	17.6	0.5	40.5

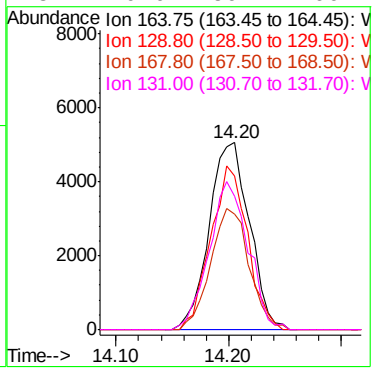


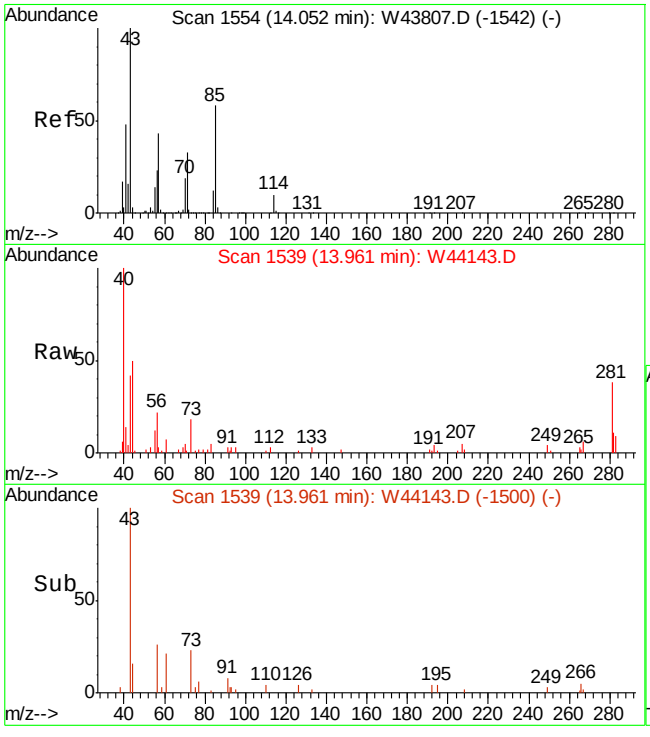


#72
TETRACHLOROETHYLENE
Concen: 0.38 PPBV
RT: 14.20 min Scan# 1579
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:164 Resp: 12504

Ion	Ratio	Lower	Upper
164	100		
129	79.8	62.5	102.5
168	61.6	41.7	81.7
131	76.6	59.1	99.1

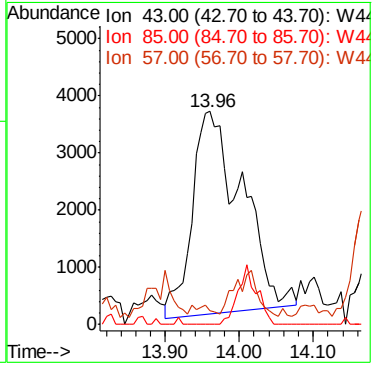


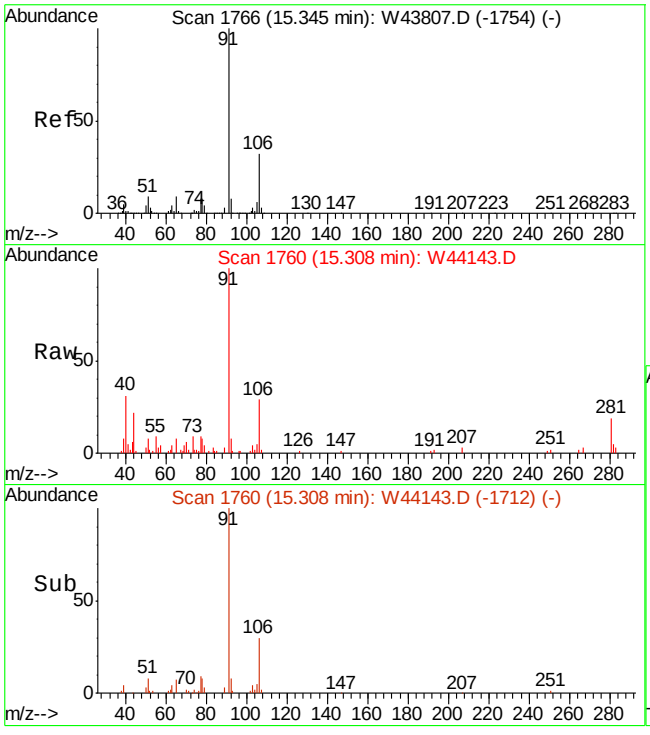


#75
OCTANE
Concen: 0.35 PPBV
RT: 13.96 min Scan# 1539
Delta R.T. -0.06 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 43 Resp: 16300

Ion	Ratio	Lower	Upper
43	100		
85	0.0	41.1	61.7#
57	1.4	33.4	50.2#

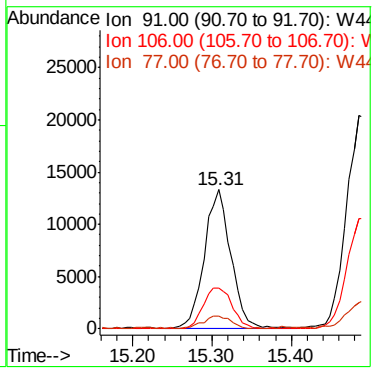


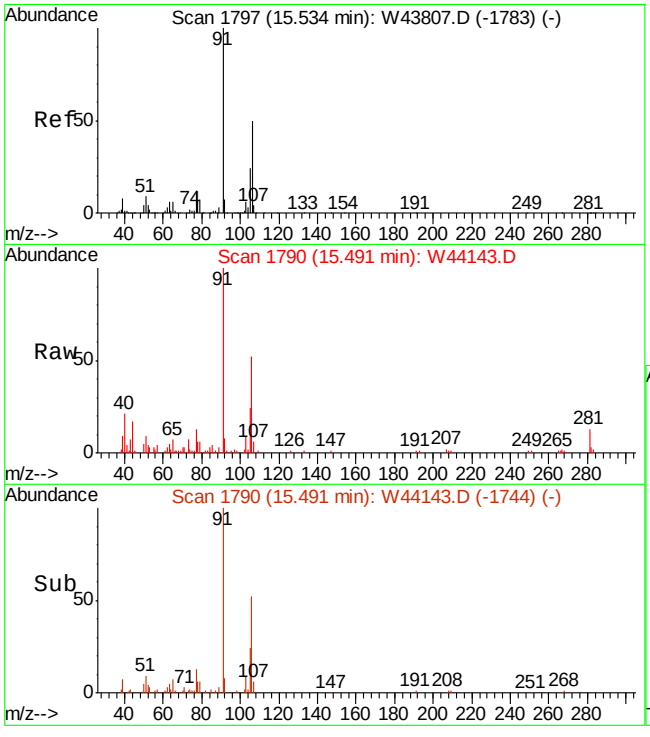


#78
ETHYLBENZENE
Concen: 0.34 PPBV
RT: 15.31 min Scan# 1760
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion: 91 Resp: 31021

Ion	Ratio	Lower	Upper
91	100		
106	31.8	12.3	52.3
77	9.7	0.0	28.1

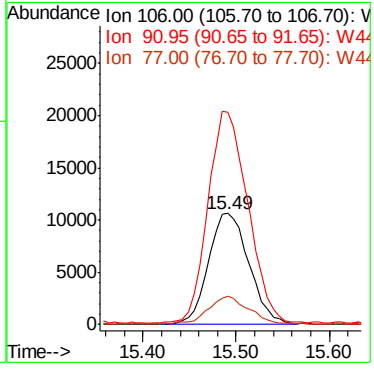


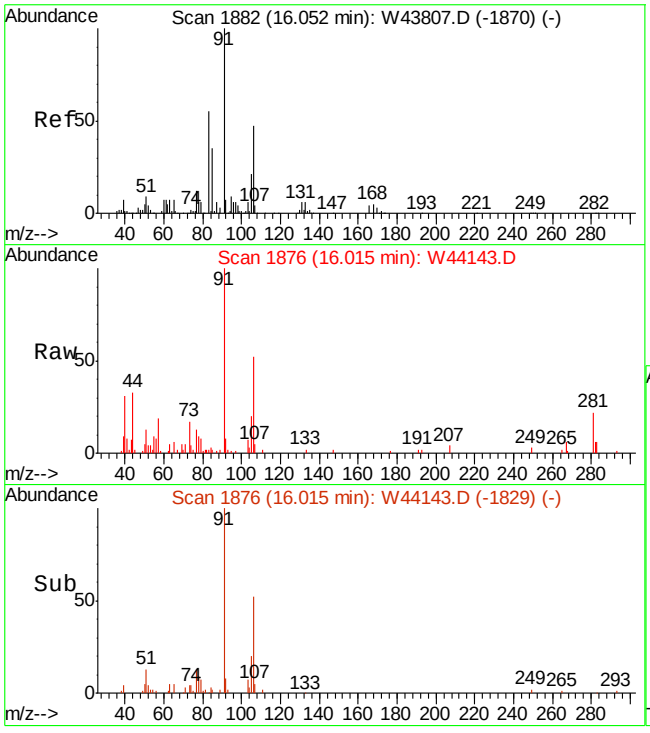


#79
m,p-XYLENE
Concen: 0.92 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:106 Resp: 32383

Ion	Ratio	Lower	Upper
106	100		
91	190.9	151.2	226.8
77	25.4	18.7	28.1

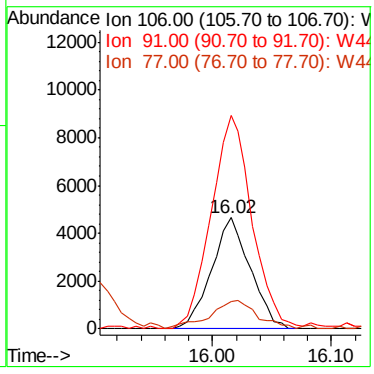


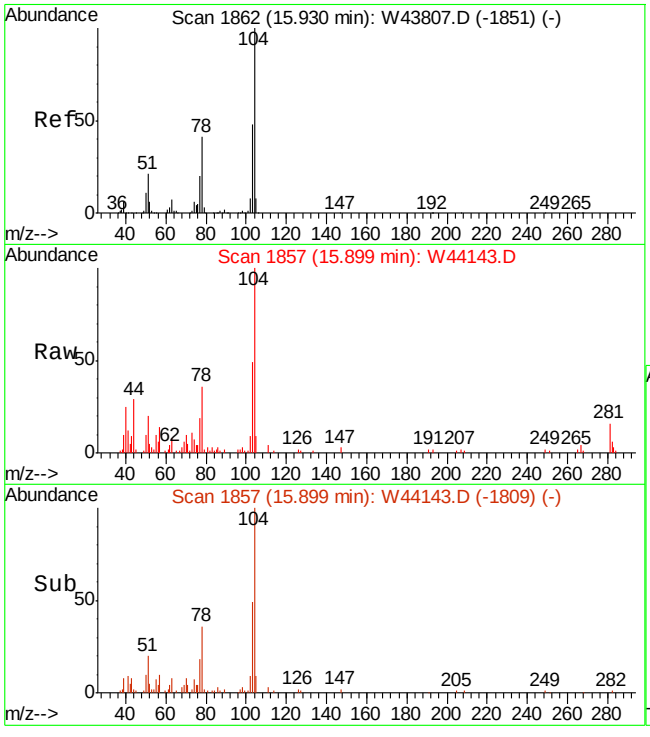


#80
o-XYLENE
Concen: 0.32 PPBV
RT: 16.02 min Scan# 1876
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:106 Resp: 10588

Ion	Ratio	Lower	Upper
106	100		
91	204.9	182.5	222.5
77	30.6	3.8	43.8

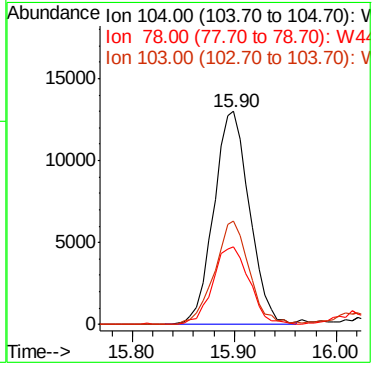




#81
STYRENE
Concen: 0.63 PPBV
RT: 15.90 min Scan# 1857
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

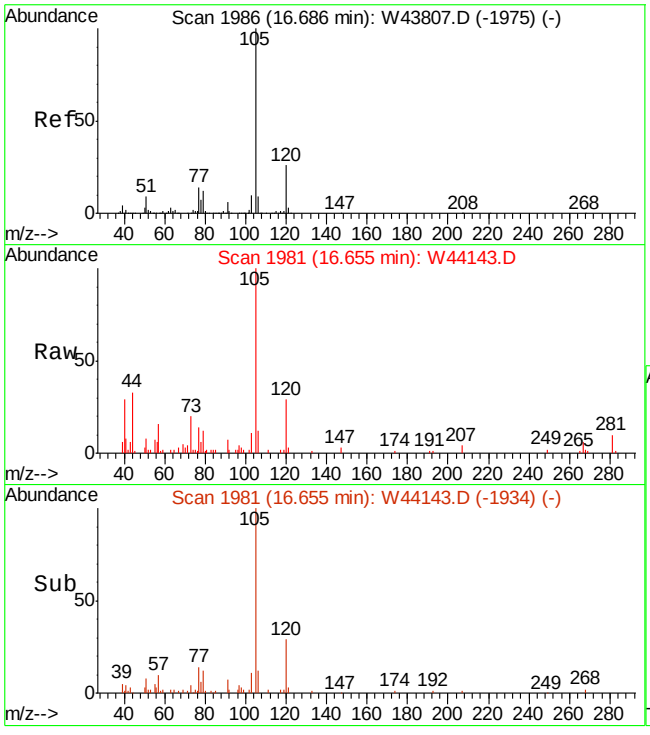
Tgt Ion:104 Resp: 31659

Ion	Ratio	Lower	Upper
104	100		
78	37.3	18.7	58.7
103	47.4	27.3	67.3



7.1.4

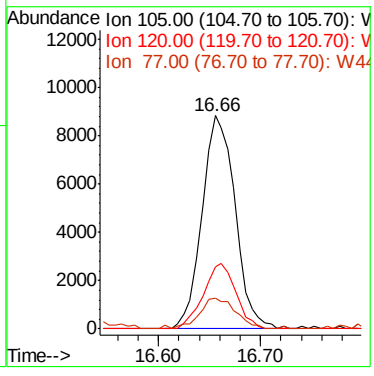
7

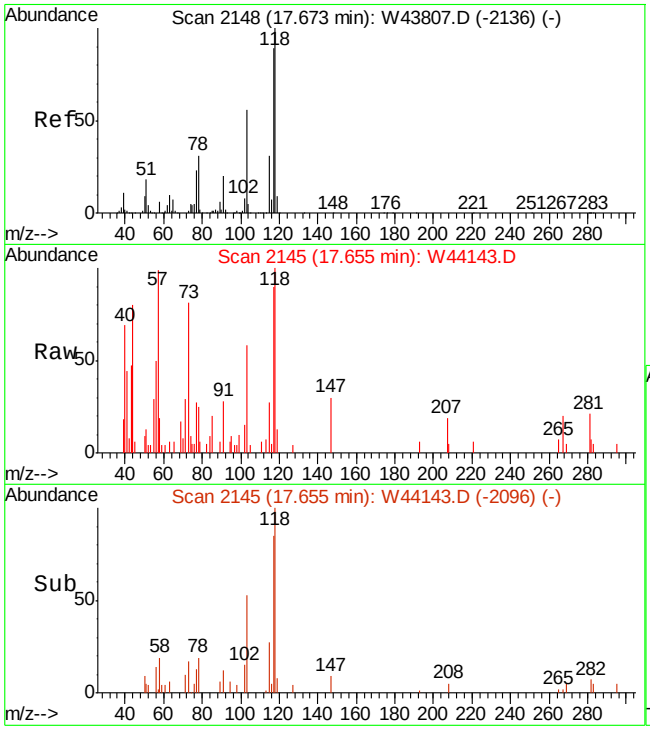


#87
ISOPROPYLBENZENE
Concen: 0.20 PPBV
RT: 16.66 min Scan# 1981
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:105 Resp: 19966

Ion	Ratio	Lower	Upper
105	100		
120	30.2	7.4	47.4
77	15.8	0.0	34.1

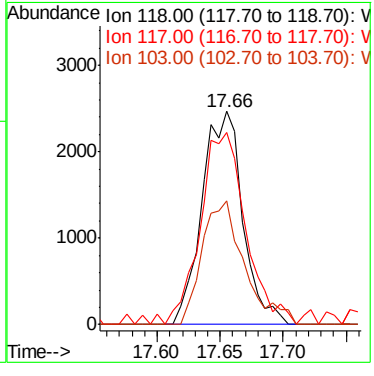


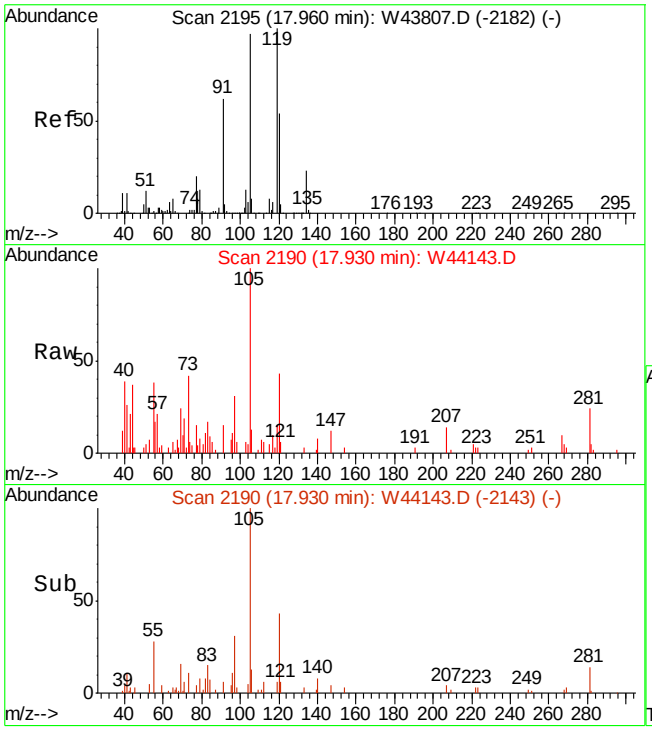


#93
ALPHA-METHYLSTYRENE
Concen: 0.17 PPBV
RT: 17.66 min Scan# 2145
Delta R.T. 0.00 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:118 Resp: 5536

Ion	Ratio	Lower	Upper
118	100		
117	100.5	69.1	103.7
103	60.4	43.0	64.4

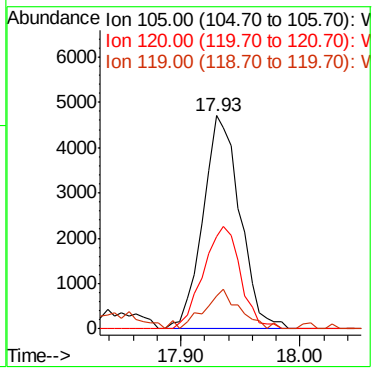




#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.16 PPBV
RT: 17.93 min Scan# 2190
Delta R.T. -0.01 min
Lab File: W44143.D
Acq: 18 Oct 2013 2:25 am

Tgt Ion:105 Resp: 10183

Ion	Ratio	Lower	Upper
105	100		
120	48.3	39.1	79.1
119	17.6	102.1	142.1#



7.1.4

7

Manual Integration Approval Summary

Sample Number:	JB50276-4	**Method:**	TO-15
Lab FileID:	W44143.D	**Analyst approved:**	10/21/13 14:26 Dana Tryon
Injection Time:	10/18/13 02:25	**Supervisor approved:**	10/22/13 16:16 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		5.35	Missed peak

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 16:16

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44160.D Vial: 11
Acq On : 18 Oct 2013 7:06 pm Operator: danat
Sample : jb50276-4 Inst : MSW
Misc : MS56739,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 19 17:30:59 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

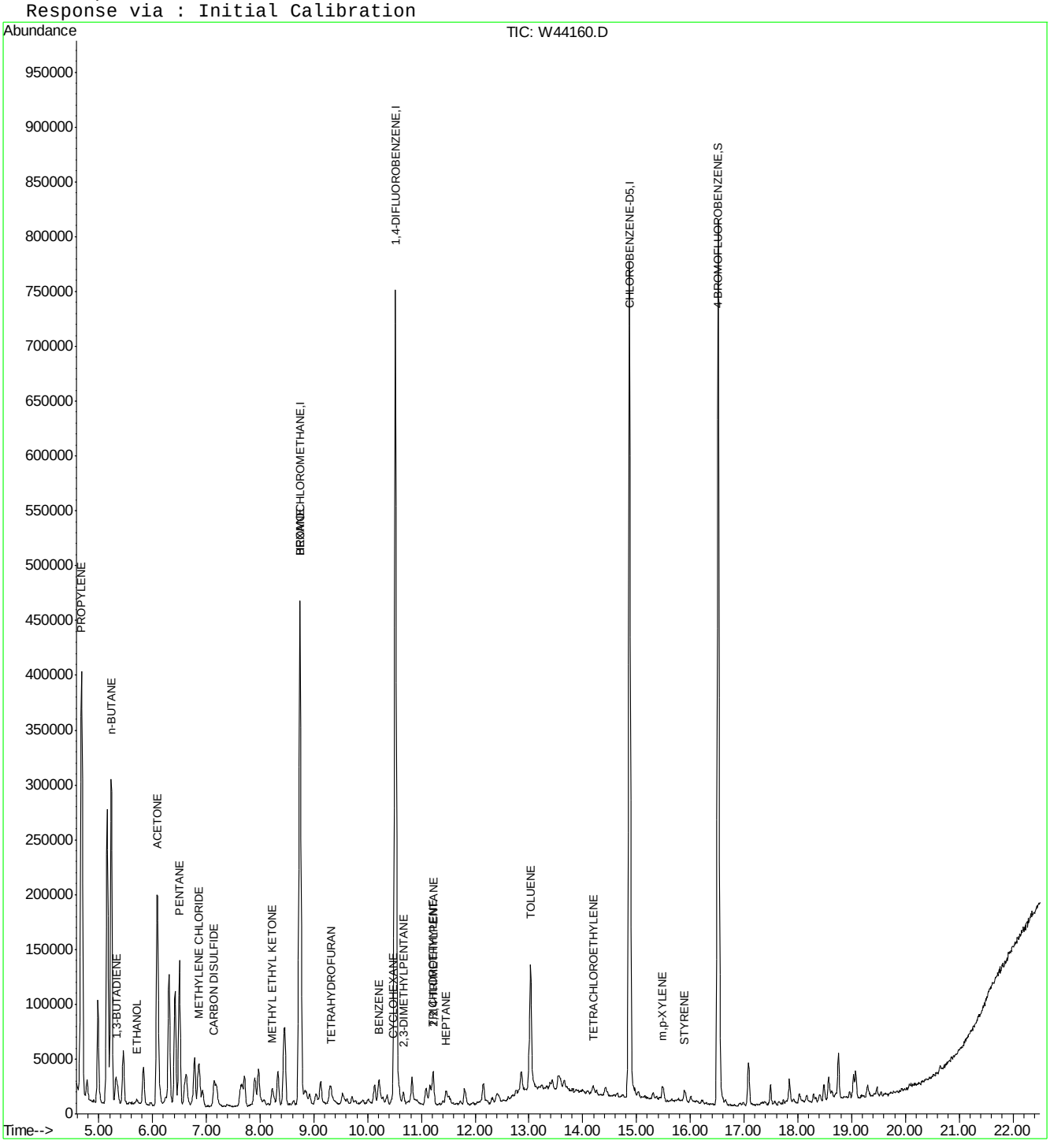
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	175647	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	882767	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	343181	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	388112	9.53	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.30%			
Target Compounds						Qvalue
6) PROPYLENE	4.67	41	246436	14.94	PPBV	93
10) 1,3-BUTADIENE	5.35	54	8788m	0.53	PPBV	
11) n-BUTANE	5.23	58	47977	10.79	PPBV	99
20) ACETONE	6.09	58	62543	5.47	PPBV #	61
22) PENTANE	6.49	57	17923	3.14	PPBV	99
26) CARBON DISULFIDE	7.14	76	48290	0.79	PPBV	99
27) ETHANOL	5.70	45	4612	0.60	PPBV #	44
30) METHYLENE CHLORIDE	6.85	84	19521	0.85	PPBV	97
36) TETRAHYDROFURAN	9.33	72	5787	0.55	PPBV	94
37) HEXANE	8.75	57	34287	0.96	PPBV	92
40) METHYL ETHYL KETONE	8.22	72	8805	0.83	PPBV #	90
51) BENZENE	10.21	78	22977	0.34	PPBV	97
52) CYCLOHEXANE	10.46	84	3939	0.13	PPBV #	4
53) 2,3-DIMETHYLPENTANE	10.66	71	1968	0.13	PPBV #	92
54) TRICHLOROETHYLENE	11.21	95	606	0.02	PPBV #	75
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	28668	0.26	PPBV	88
62) HEPTANE	11.46	43	7566	0.20	PPBV	92
66) TOLUENE	13.03	92	66345	1.39	PPBV	96
72) TETRACHLOROETHYLENE	14.20	164	2709	0.09	PPBV	92
79) m,p-XYLENE	15.49	106	7308	0.22	PPBV #	75
81) STYRENE	15.89	104	6499	0.14	PPBV	98

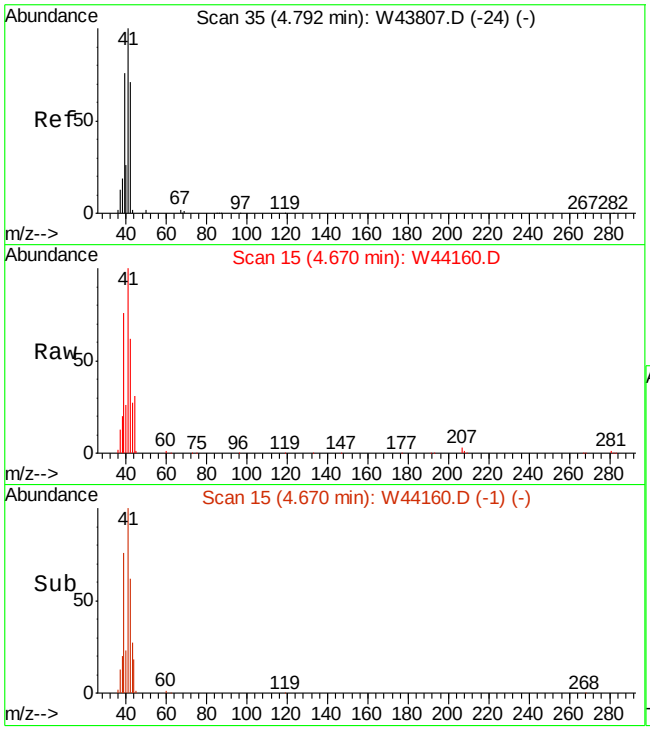
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44160.D Vial: 11
Acq On : 18 Oct 2013 7:06 pm Operator: danat
Sample : jb50276-4 Inst : MSW
Misc : MS56739,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 14:53 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration

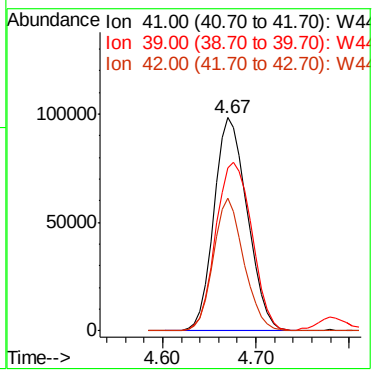


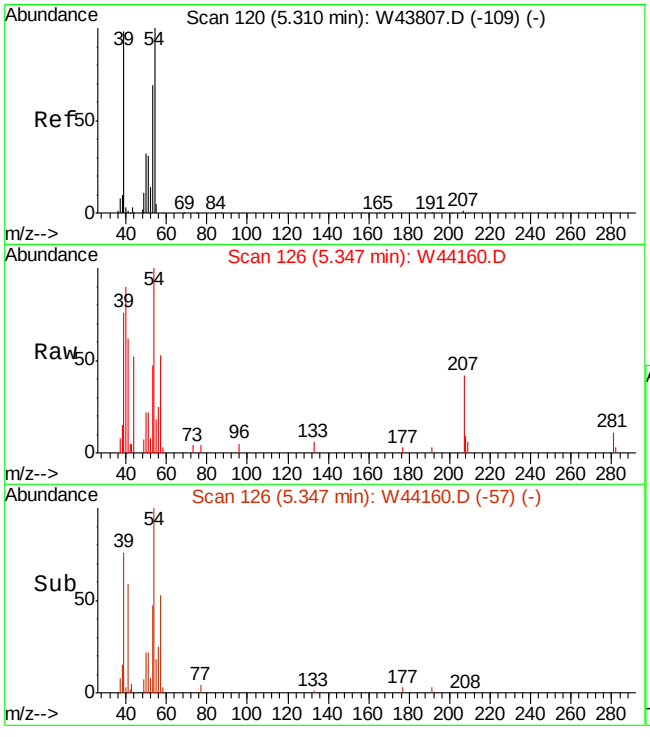


#6
PROPYLENE
Concen: 14.94 PPBV
RT: 4.67 min Scan# 15
Delta R.T. -0.04 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 41 Resp: 246436

Ion	Ratio	Lower	Upper
41	100		
39	76.3	48.7	88.7
42	62.0	44.9	84.9

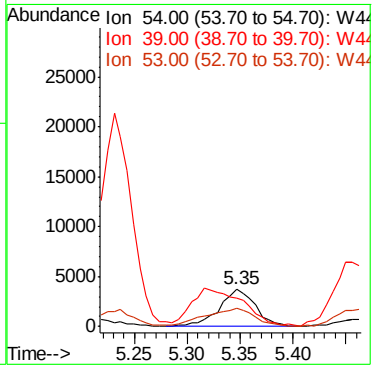


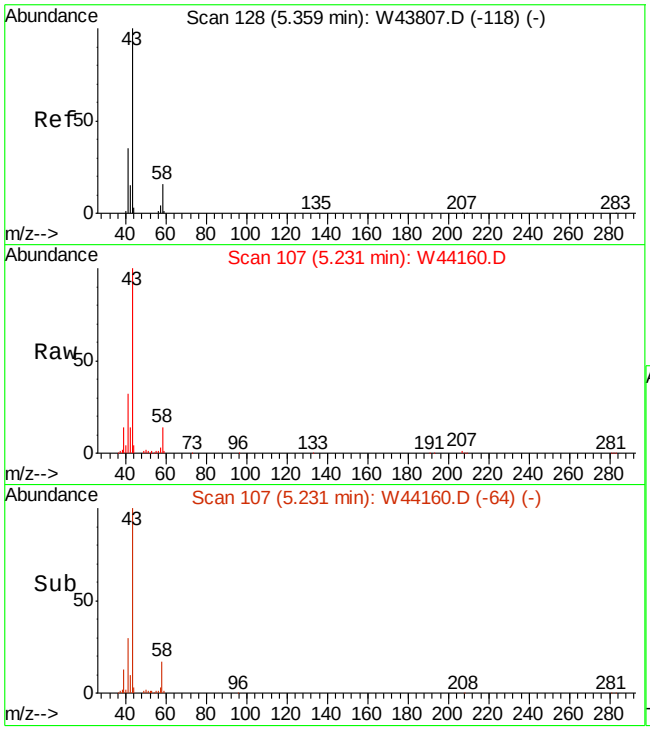


#10
1,3-BUTADIENE
Concen: 0.53 PPBV m
RT: 5.35 min Scan# 126
Delta R.T. 0.12 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 54 Resp: 8788

Ion	Ratio	Lower	Upper
54	100		
39	0.0	100.8	140.8#
53	0.0	51.2	91.2#

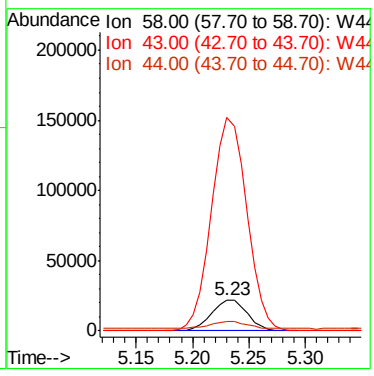


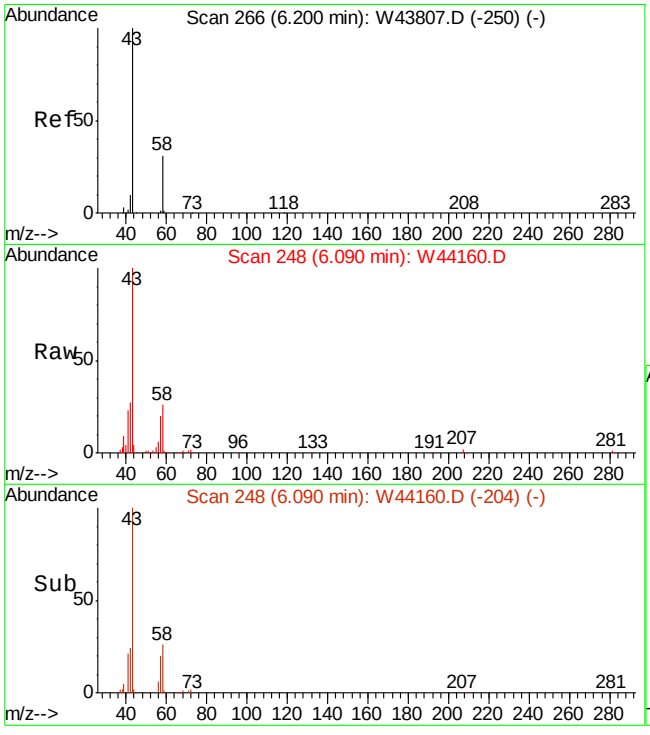


#11
n-BUTANE
Concen: 10.79 PPBV
RT: 5.23 min Scan# 107
Delta R.T. -0.04 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 58 Resp: 47977

Ion	Ratio	Lower	Upper
58	100		
43	694.1	552.0	828.0
44	23.7	20.4	30.6

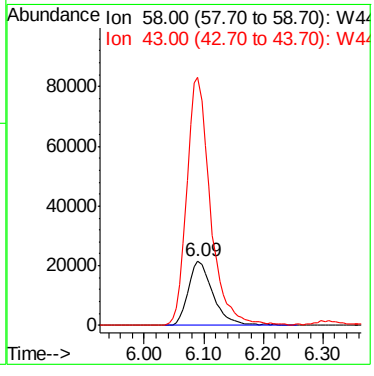


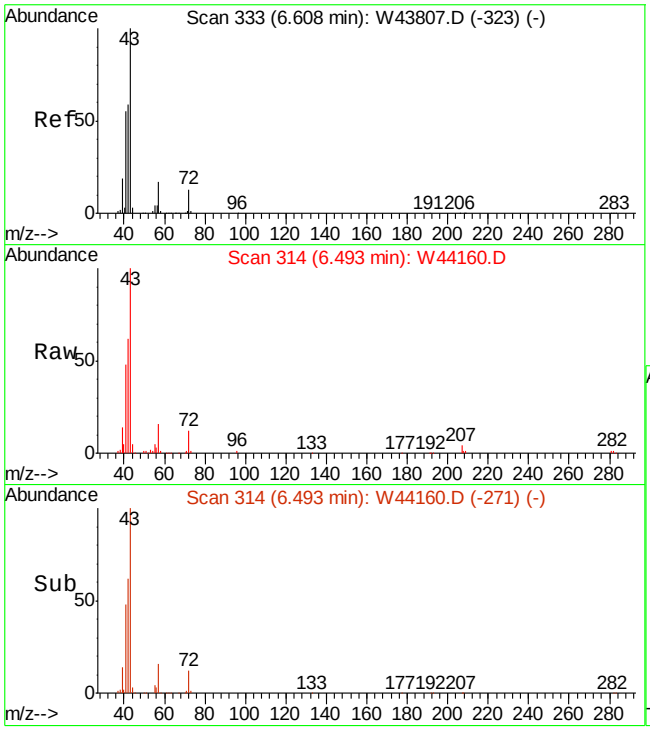


#20
ACETONE
Concen: 5.47 PPBV
RT: 6.09 min Scan# 248
Delta R.T. -0.03 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 58 Resp: 62543

Ion	Ratio	Lower	Upper
58	100		
43	365.8	270.7	310.7#

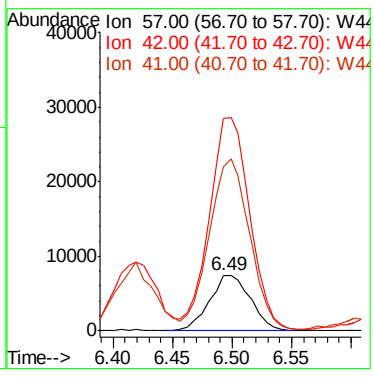


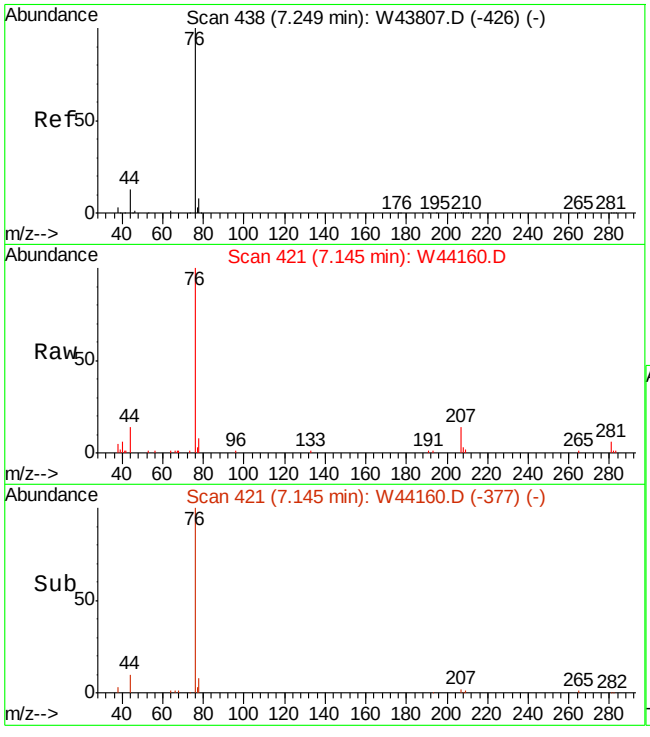


#22
PENTANE
Concen: 3.14 PPBV
RT: 6.49 min Scan# 314
Delta R.T. -0.04 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 57 Resp: 17923

Ion	Ratio	Lower	Upper
57	100		
42	372.8	352.7	392.7
41	301.4	286.0	326.0

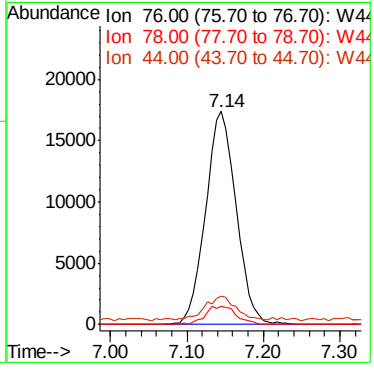


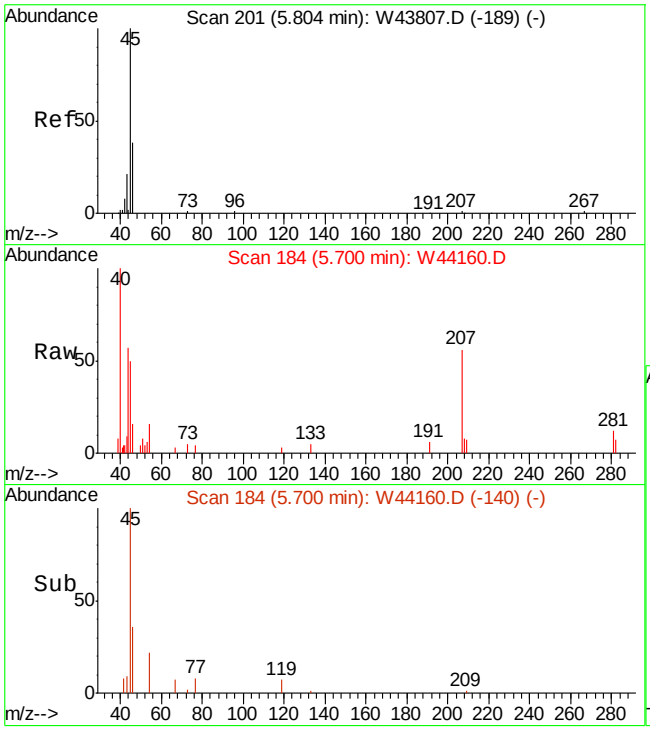


#26
CARBON DISULFIDE
Concen: 0.79 PPBV
RT: 7.14 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 76 Resp: 48290

Ion	Ratio	Lower	Upper
76	100		
78	8.7	0.0	29.0
44	11.2	0.0	31.4

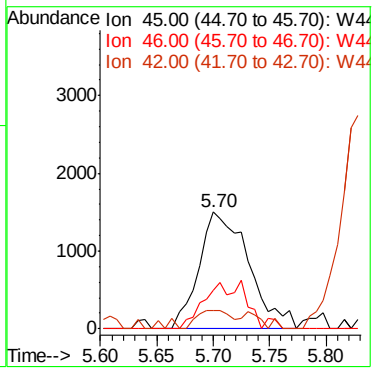


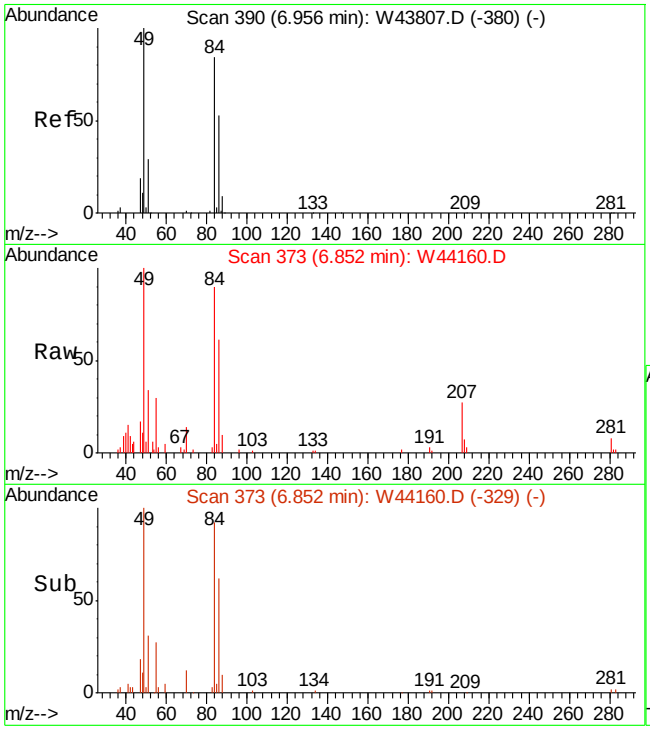


#27
ETHANOL
Concen: 0.60 PPBV
RT: 5.70 min Scan# 184
Delta R.T. -0.03 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 45 Resp: 4612

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.3	58.3#
42	0.0	0.0	27.7

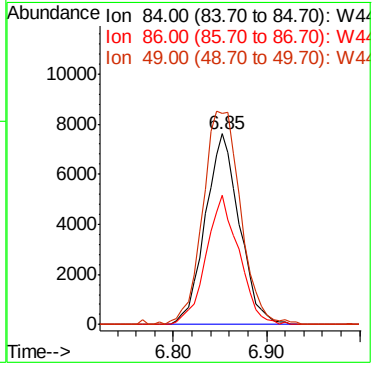


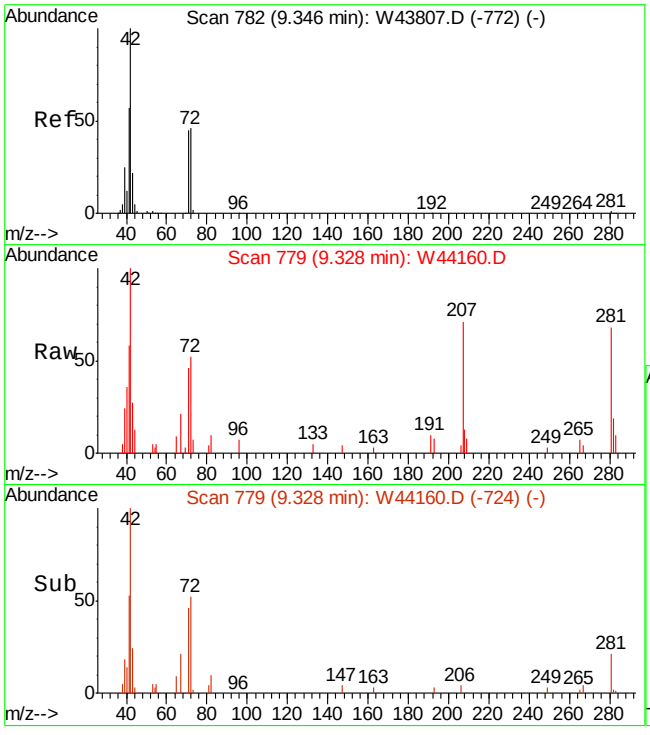


#30
METHYLENE CHLORIDE
Concen: 0.85 PPBV
RT: 6.85 min Scan# 373
Delta R.T. -0.03 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 84 Resp: 19521

Ion	Ratio	Lower	Upper
84	100		
86	65.4	43.2	83.2
49	124.9	0.0	320.8

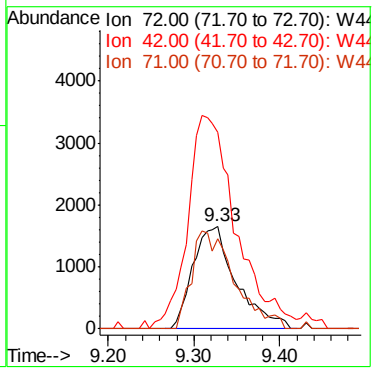


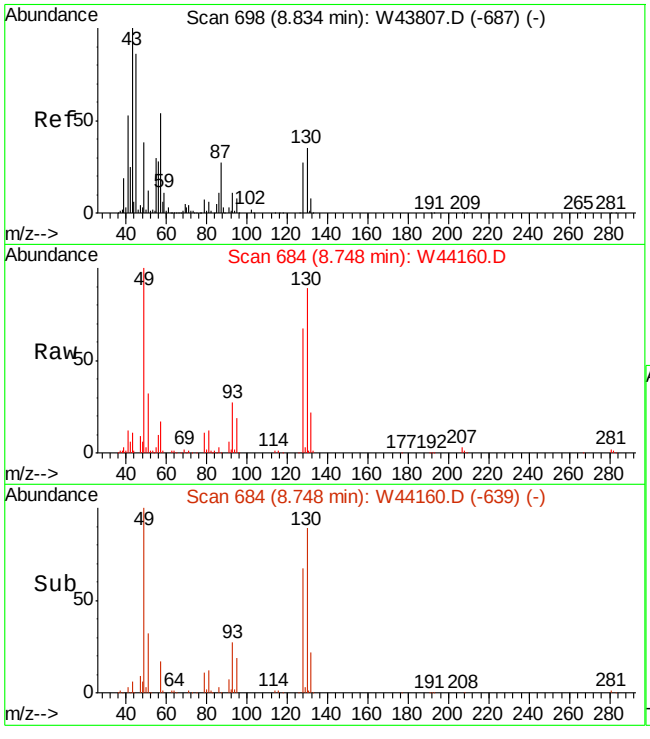


#36
TETRAHYDROFURAN
Concen: 0.55 PPBV
RT: 9.33 min Scan# 779
Delta R.T. 0.04 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 72 Resp: 5787

Ion	Ratio	Lower	Upper
72	100		
42	239.9	206.0	246.0
71	95.0	74.0	114.0

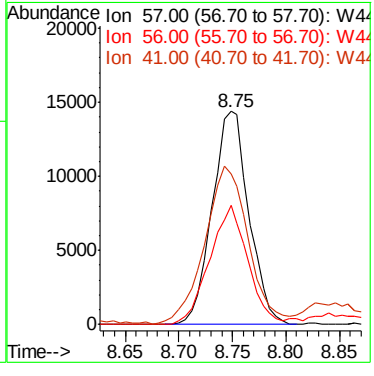


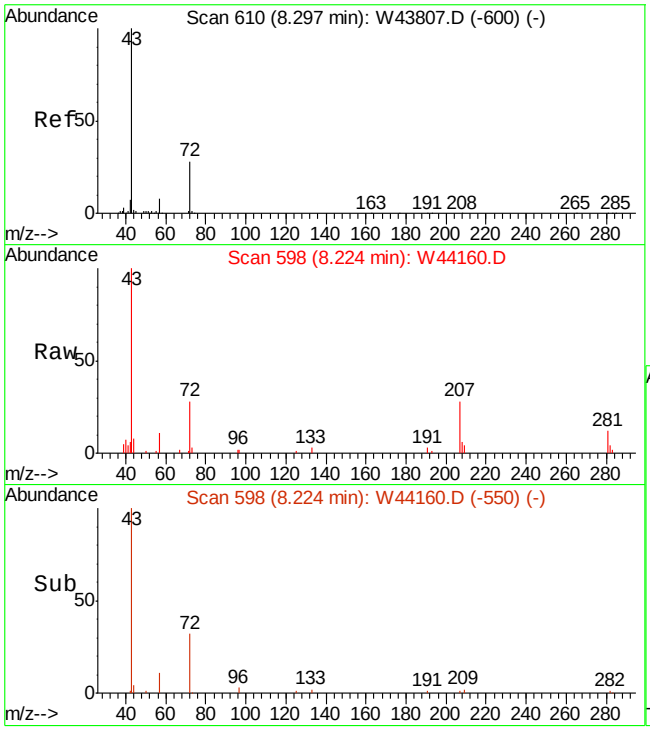


#37
HEXANE
Concen: 0.96 PPBV
RT: 8.75 min Scan# 684
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 57 Resp: 34287

Ion	Ratio	Lower	Upper
57	100		
56	59.1	32.2	72.2
41	88.5	74.7	114.7

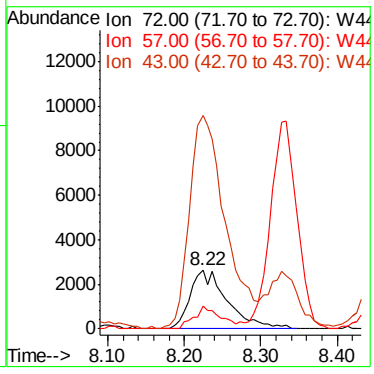


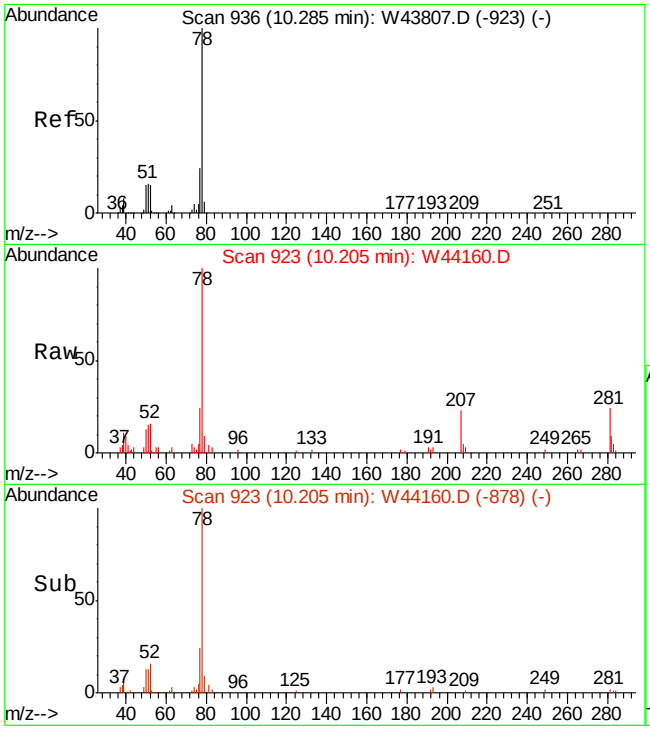


#40
METHYL ETHYL KETONE
Concen: 0.83 PPBV
RT: 8.22 min Scan# 598
Delta R.T. -0.01 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 72 Resp: 8805

Ion	Ratio	Lower	Upper
72	100		
57	39.4	10.3	50.3
43	362.8	364.5	404.5#

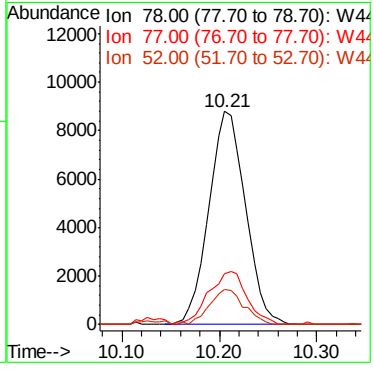


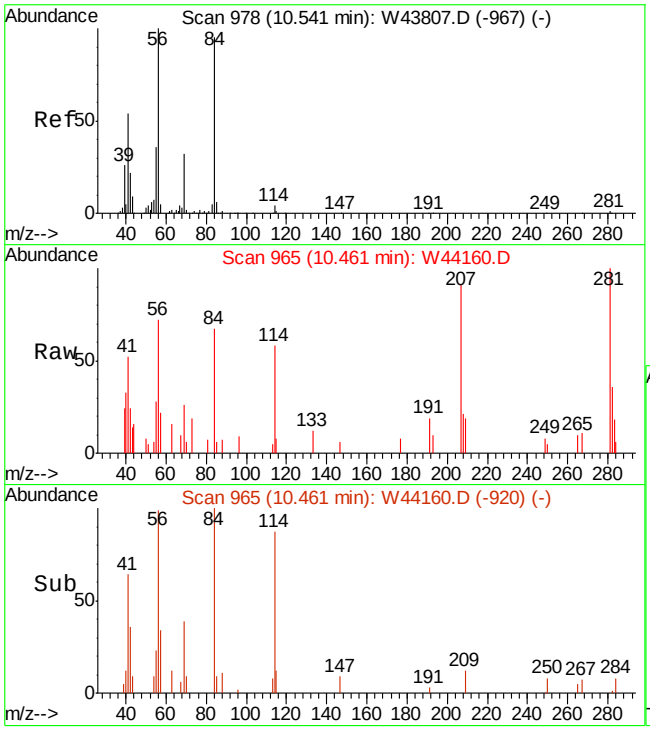


#51
BENZENE
Concen: 0.34 PPBV
RT: 10.21 min Scan# 923
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 78 Resp: 22977

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.7	43.7
52	15.4	0.0	35.0

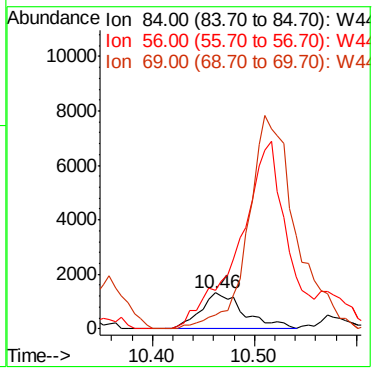


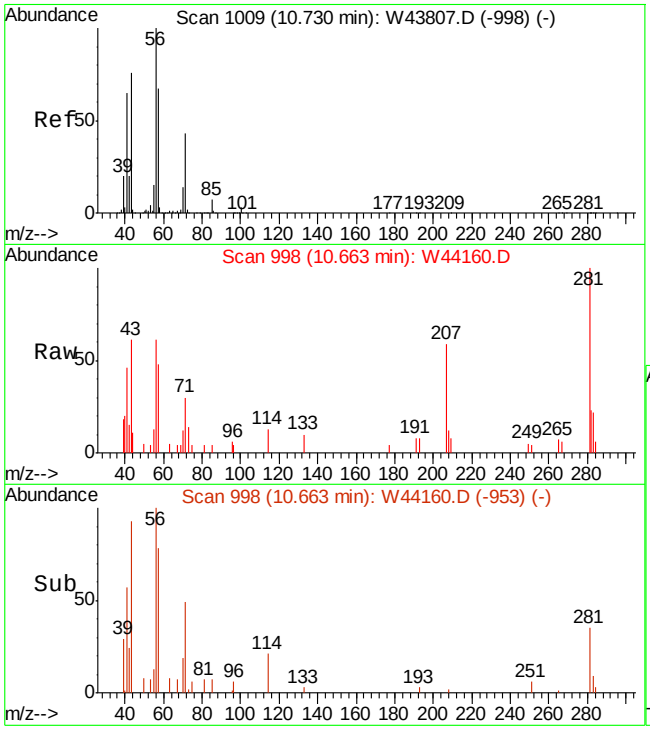


#52
CYCLOHEXANE
Concen: 0.13 PPBV
RT: 10.46 min Scan# 965
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 84 Resp: 3939

Ion	Ratio	Lower	Upper
84	100		
56	0.0	96.7	136.7#
69	0.0	20.6	60.6#

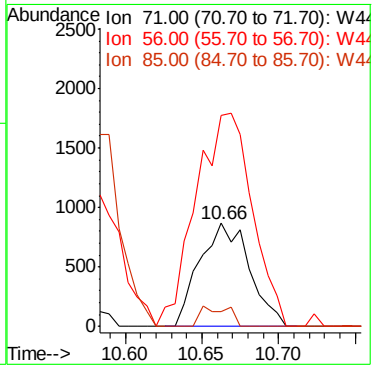


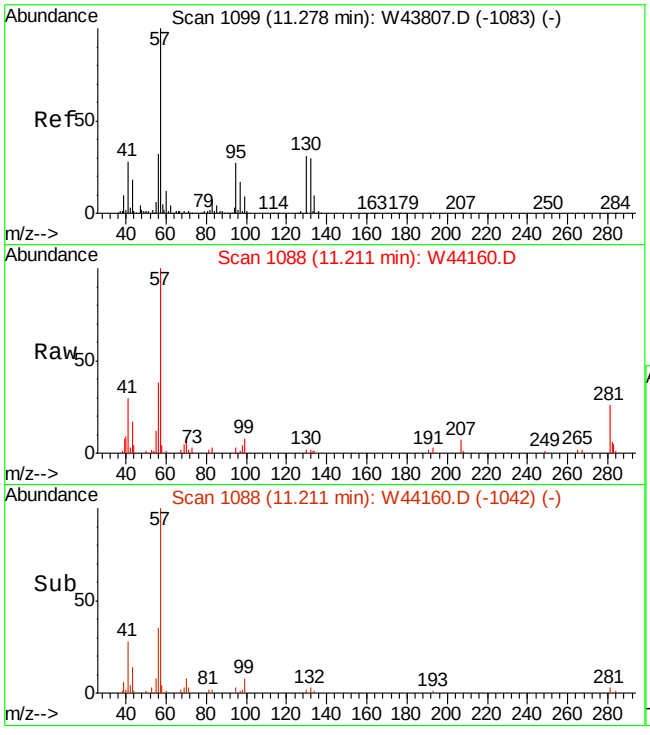


#53
2,3-DIMETHYLPENTANE
Concen: 0.13 PPBV
RT: 10.66 min Scan# 998
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 71 Resp: 1968

Ion	Ratio	Lower	Upper
71	100		
56	233.0	196.2	294.4
85	10.8	13.4	20.0#

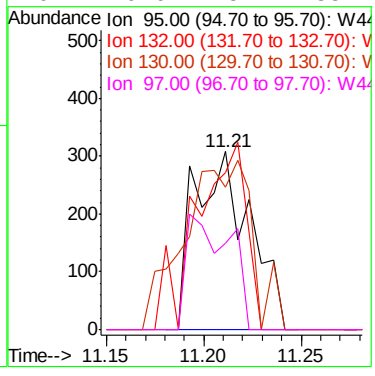


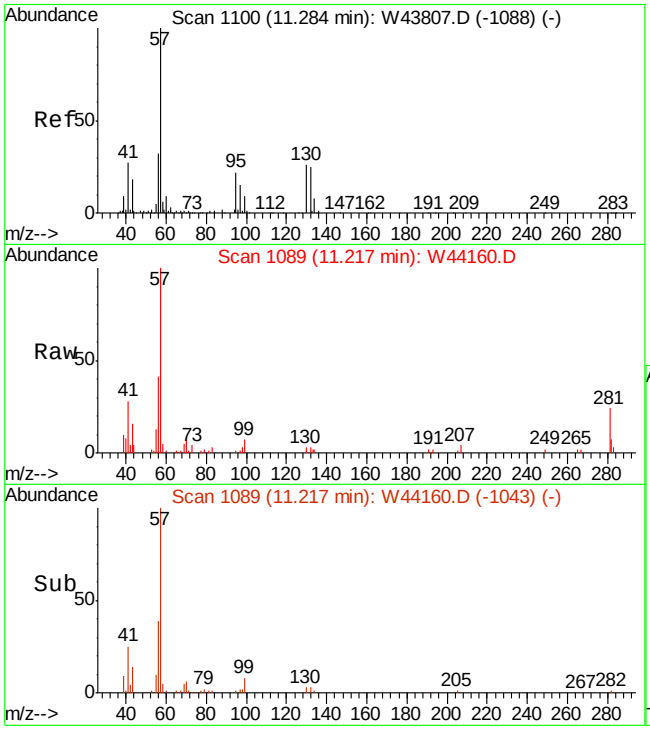


#54
TRICHLOROETHYLENE
Concen: 0.02 PPBV
RT: 11.21 min Scan# 1088
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 95 Resp: 606

Ion	Ratio	Lower	Upper
95	100		
132	95.9	87.7	127.7
130	117.3	92.0	132.0
97	0.0	45.1	85.1#

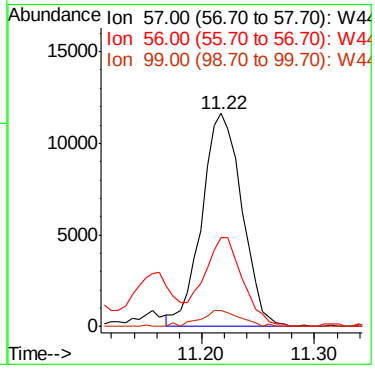


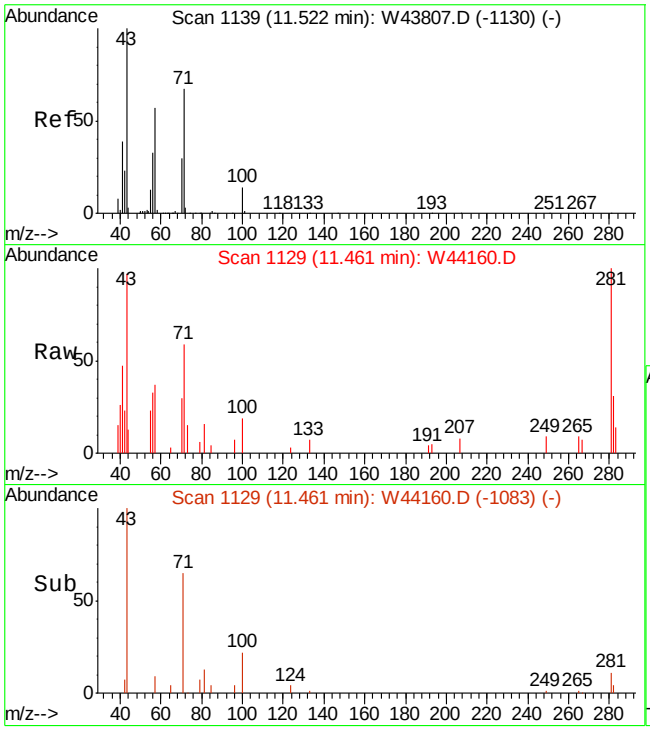


#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.26 PPBV
RT: 11.22 min Scan# 1089
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 57 Resp: 28668

Ion	Ratio	Lower	Upper
57	100		
56	40.2	12.2	52.2
99	7.4	0.0	28.0

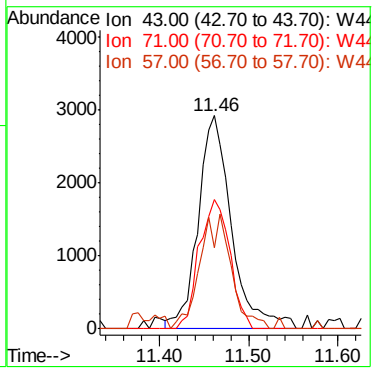


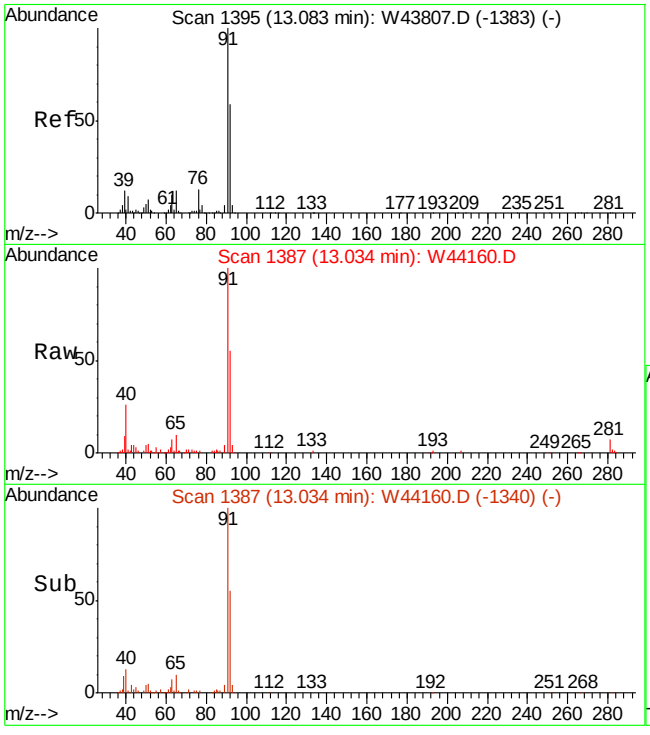


#62
HEPTANE
Concen: 0.20 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 43 Resp: 7566

Ion	Ratio	Lower	Upper
43	100		
71	55.5	43.7	83.7
57	50.3	34.7	74.7

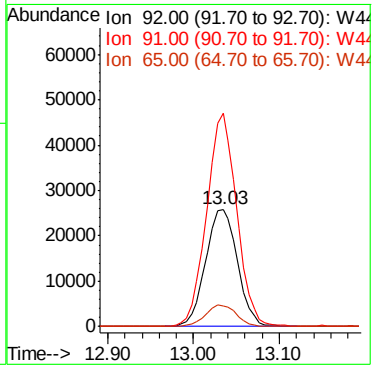


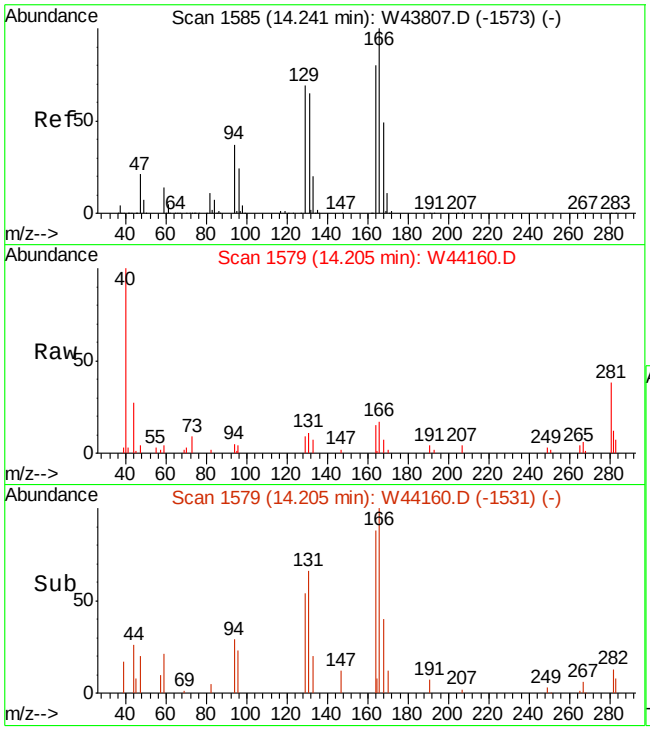


#66
TOLUENE
Concen: 1.39 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion: 92 Resp: 66345

Ion	Ratio	Lower	Upper
92	100		
91	172.8	148.0	188.0
65	18.3	0.5	40.5

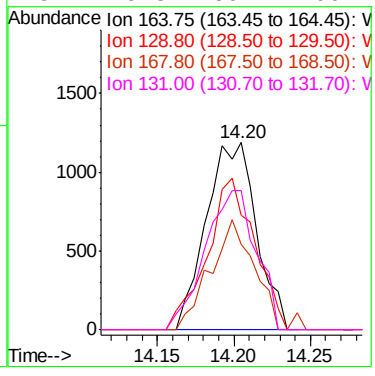


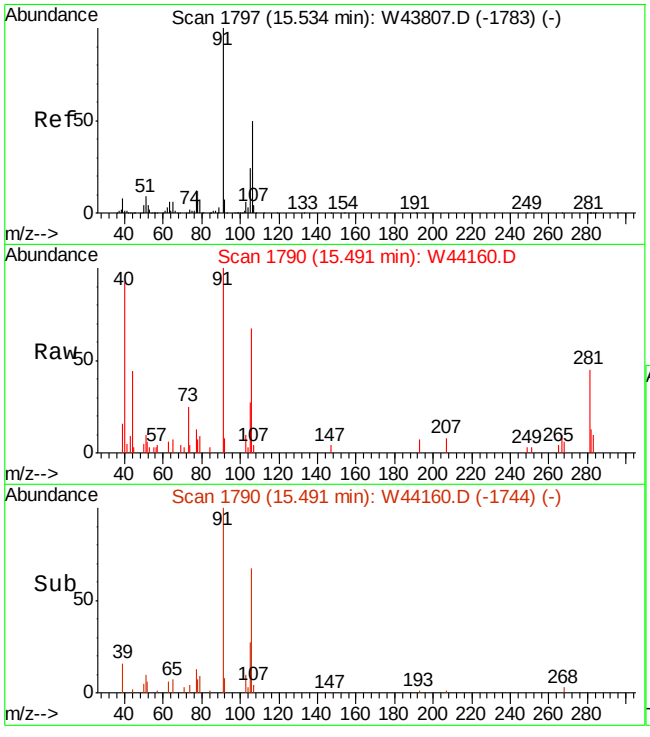


#72
TETRACHLOROETHYLENE
Concen: 0.09 PPBV
RT: 14.20 min Scan# 1579
Delta R.T. -0.01 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion:164 Resp: 2709

Ion	Ratio	Lower	Upper
164	100		
129	76.9	62.5	102.5
168	50.6	41.7	81.7
131	75.8	59.1	99.1

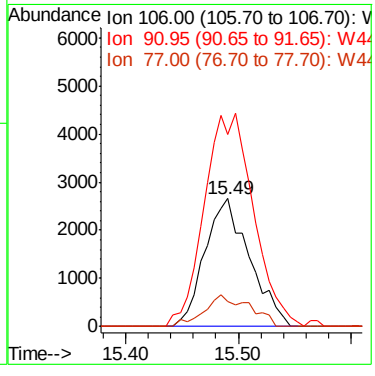


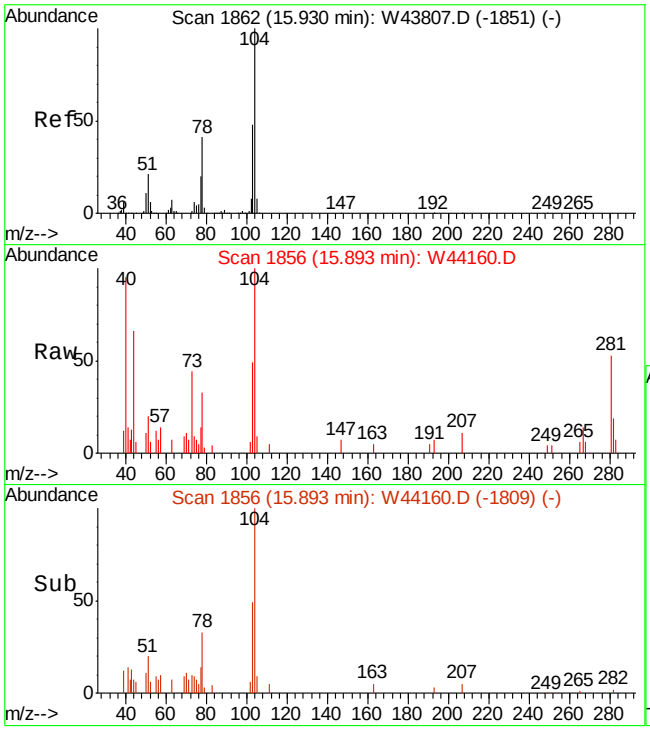


#79
m,p-XYLENE
Concen: 0.22 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion:106 Resp: 7308

Ion	Ratio	Lower	Upper
106	100		
91	150.2	151.2	226.8#
77	19.5	18.7	28.1

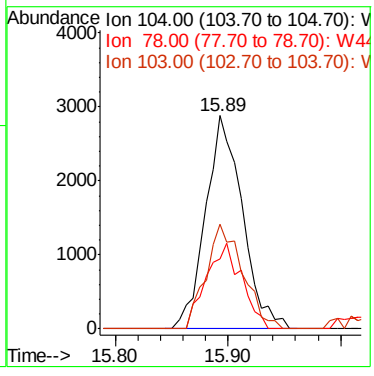




#81
STYRENE
Concen: 0.14 PPBV
RT: 15.89 min Scan# 1856
Delta R.T. -0.01 min
Lab File: W44160.D
Acq: 18 Oct 2013 7:06 pm

Tgt Ion:104 Resp: 6499

Ion	Ratio	Lower	Upper
104	100		
78	38.7	18.7	58.7
103	49.2	27.3	67.3



7.1.5

7

Manual Integration Approval Summary

Sample Number:	JB50276-4	**Method:**	TO-15
Lab FileID:	W44160.D	**Analyst approved:**	10/21/13 14:58 Dana Tryon
Injection Time:	10/18/13 19:06	**Supervisor approved:**	10/22/13 16:16 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		5.35	Missed peak

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/23/13 06:28

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44144.D Vial: 16
Acq On : 18 Oct 2013 3:05 am Operator: danat
Sample : jb50276-5 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 08:30:04 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

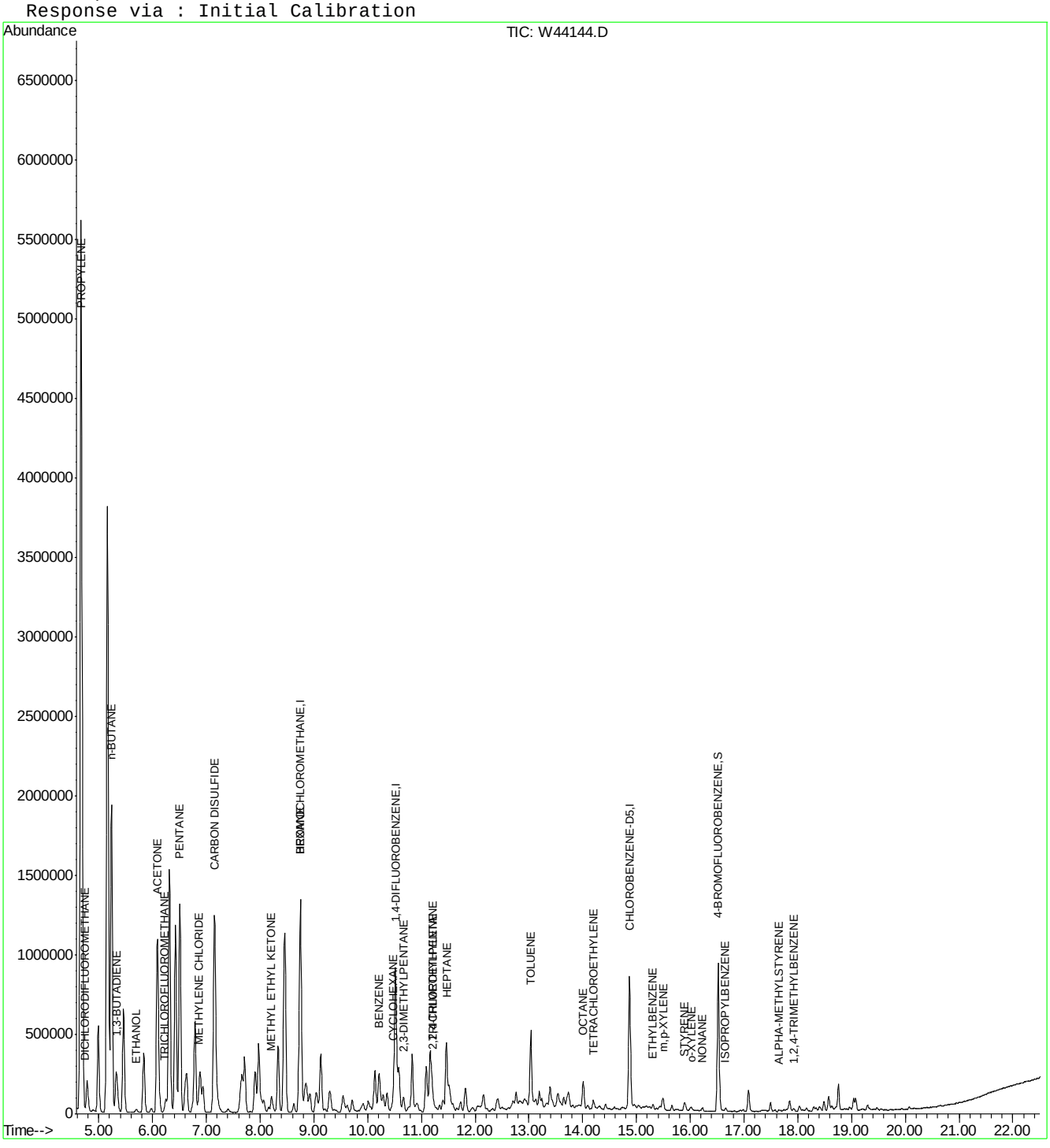
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	192723	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	980908	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	376473	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	444844	9.96	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.60%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.74	85	7581	0.14	PPBV	98
6) PROPYLENE	4.66	41	4100003	226.49	PPBV	98
10) 1,3-BUTADIENE	5.35	54	65725m	3.62	PPBV	
11) n-BUTANE	5.24	58	335336	68.71	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.22	101	6893	0.13	PPBV	90
20) ACETONE	6.08	58	218666	17.43	PPBV #	10
22) PENTANE	6.50	57	187659	28.64	PPBV	99
26) CARBON DISULFIDE	7.15	76	2678542	40.05	PPBV	99
27) ETHANOL	5.69	45	11619	1.38	PPBV #	96
30) METHYLENE CHLORIDE	6.85	84	41000	1.62	PPBV	95
37) HEXANE	8.75	57	517074	13.23	PPBV	92
40) METHYL ETHYL KETONE	8.22	72	48323	4.16	PPBV	93
51) BENZENE	10.21	78	246915	3.26	PPBV	99
52) CYCLOHEXANE	10.47	84	27563	0.80	PPBV #	4
53) 2,3-DIMETHYLPENTANE	10.67	71	21393	1.23	PPBV	87
54) TRICHLOROETHYLENE	11.21	95	6207	0.19	PPBV #	85
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	32555	0.27	PPBV #	49
62) HEPTANE	11.46	43	217793	5.21	PPBV	99
66) TOLUENE	13.03	92	297807	5.61	PPBV	99
72) TETRACHLOROETHYLENE	14.20	164	17939	0.53	PPBV	99
75) OCTANE	14.01	43	94680	1.96	PPBV	91
78) ETHYLBENZENE	15.31	91	28155	0.30	PPBV	100
79) m,p-XYLENE	15.49	106	28591	0.79	PPBV	94
80) o-XYLENE	16.02	106	8950	0.26	PPBV	94
81) STYRENE	15.90	104	30981	0.60	PPBV	98
83) NONANE	16.22	43	9931	0.22	PPBV	86
87) ISOPROPYLBENZENE	16.66	105	20945	0.21	PPBV	98
93) ALPHA-METHYLSTYRENE	17.64	118	5219	0.15	PPBV	88
95) 1,2,4-TRIMETHYLBENZENE	17.94	105	7799	0.12	PPBV #	32

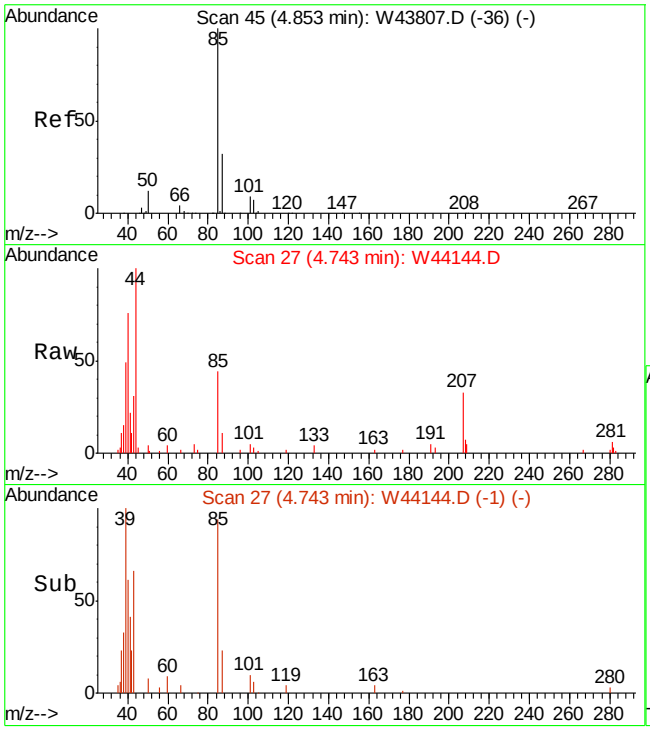
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44144.D Vial: 16
Acq On : 18 Oct 2013 3:05 am Operator: danat
Sample : jb50276-5 Inst : MSW
Misc : MS56739,VW1767,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 17:55 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

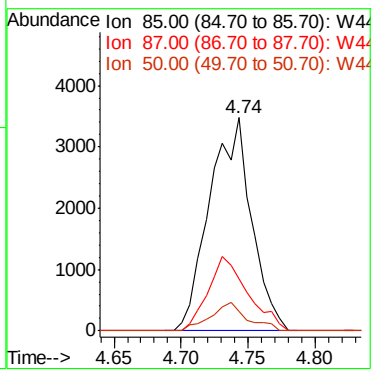


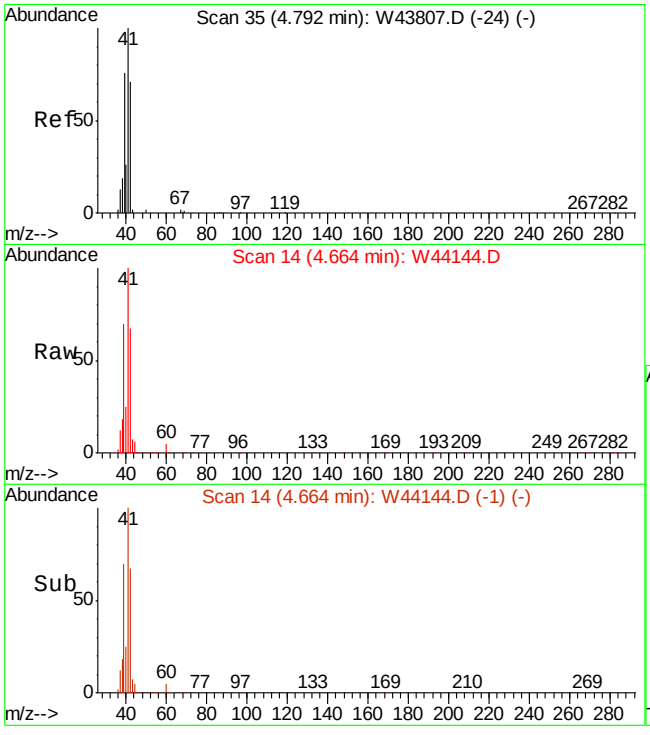


#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.74 min Scan# 27
Delta R.T. -0.03 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 85 Resp: 7581

Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.1	52.1
50	11.6	0.0	30.6

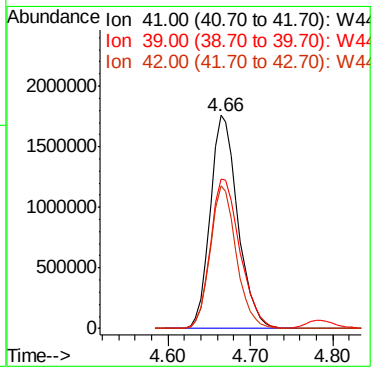


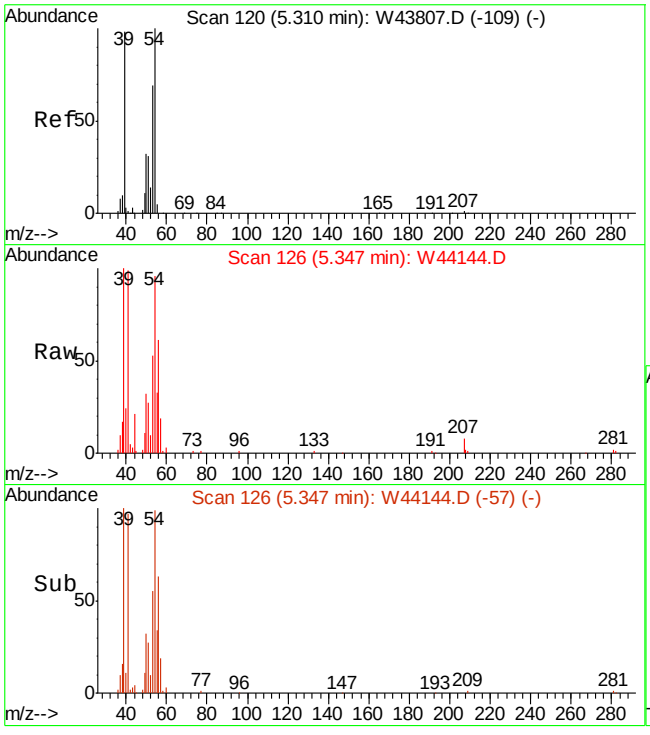


#6
PROPYLENE
Concen: 226.49 PPBV
RT: 4.66 min Scan# 14
Delta R.T. -0.04 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 41 Resp: 4100003

Ion	Ratio	Lower	Upper
41	100		
39	69.9	48.7	88.7
42	66.9	44.9	84.9

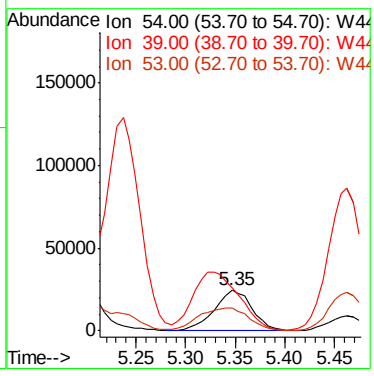


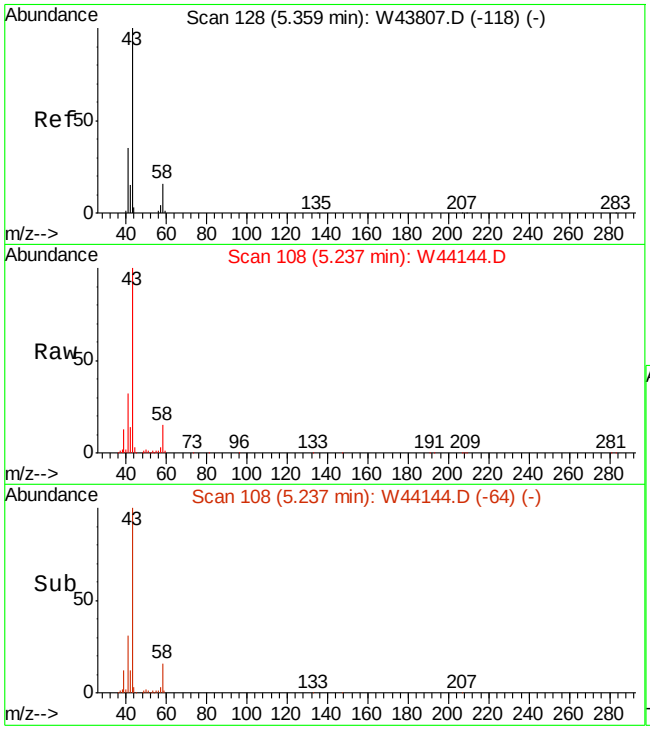


#10
1,3-BUTADIENE
Concen: 3.62 PPBV m
RT: 5.35 min Scan# 126
Delta R.T. 0.12 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 54 Resp: 65725

Ion	Ratio	Lower	Upper
54	100		
39	0.0	100.8	140.8#
53	0.0	51.2	91.2#

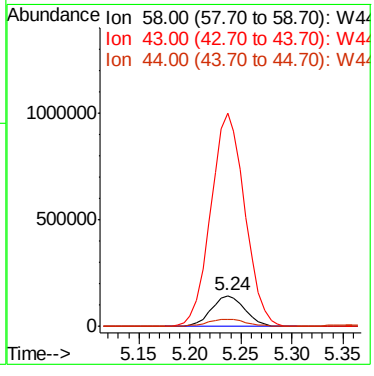


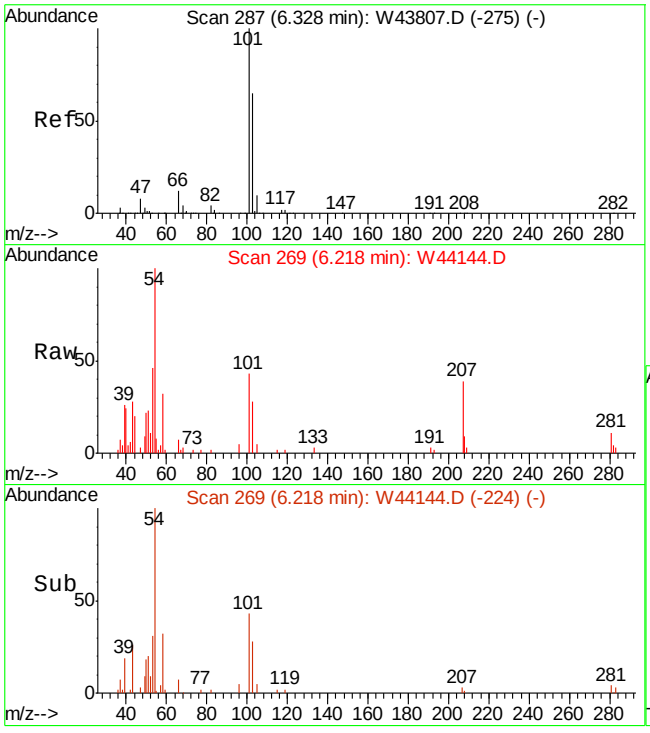


#11
n-BUTANE
Concen: 68.71 PPBV
RT: 5.24 min Scan# 108
Delta R.T. -0.03 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 58 Resp: 335336

Ion	Ratio	Lower	Upper
58	100		
43	693.0	552.0	828.0
44	24.0	20.4	30.6

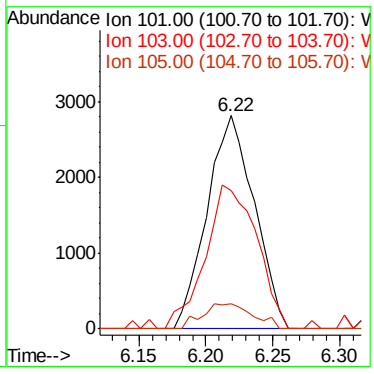


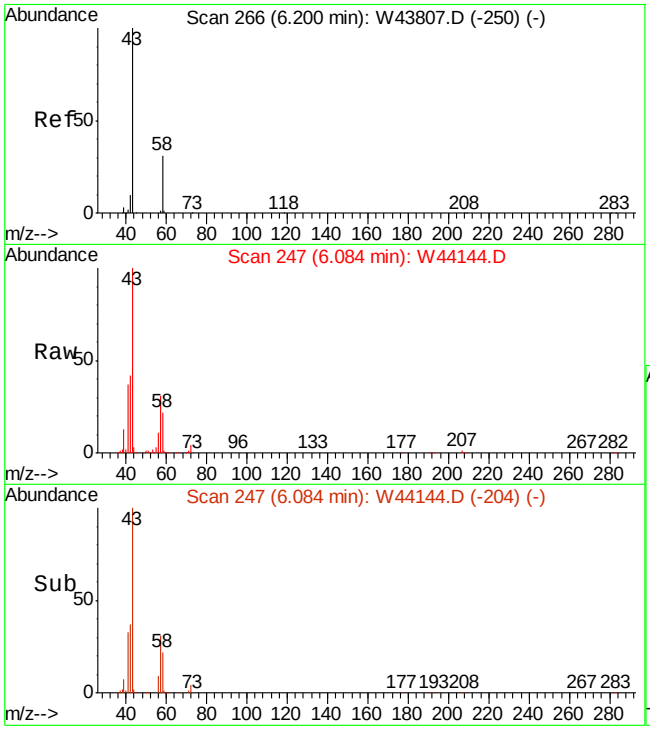


#18
TRICHLOROFLUOROMETHANE
Concen: 0.13 PPBV
RT: 6.22 min Scan# 269
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:101 Resp: 6893

Ion	Ratio	Lower	Upper
101	100		
103	73.4	45.1	85.1
105	12.6	0.0	30.4

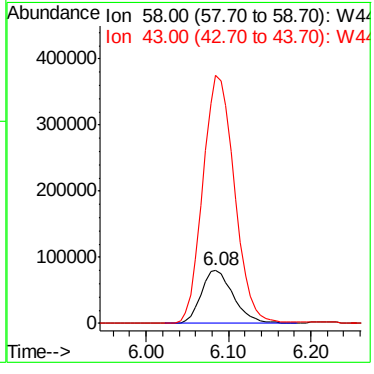


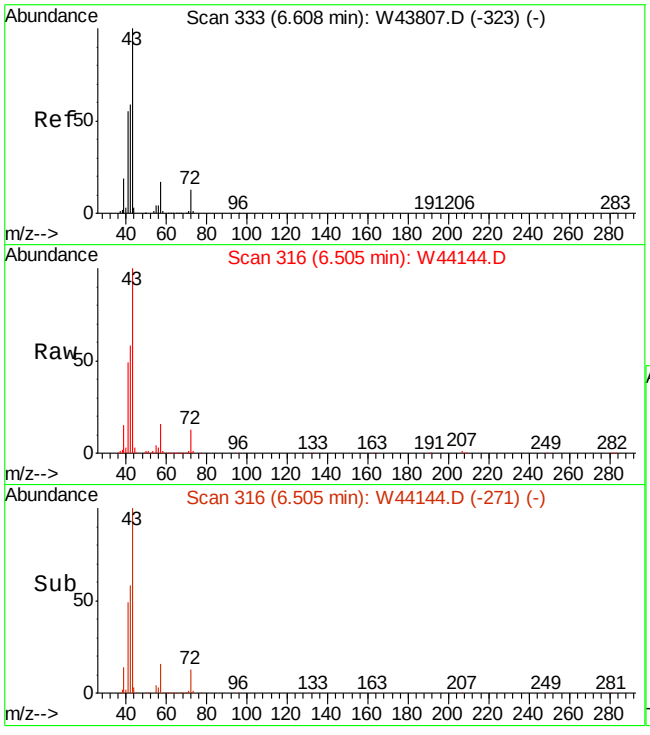


#20
ACETONE
Concen: 17.43 PPBV
RT: 6.08 min Scan# 247
Delta R.T. -0.04 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 58 Resp: 218666

Ion	Ratio	Lower	Upper
58	100		
43	462.8	270.7	310.7#

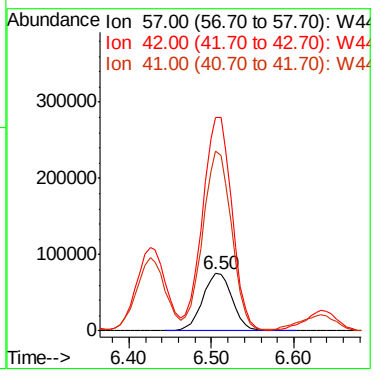


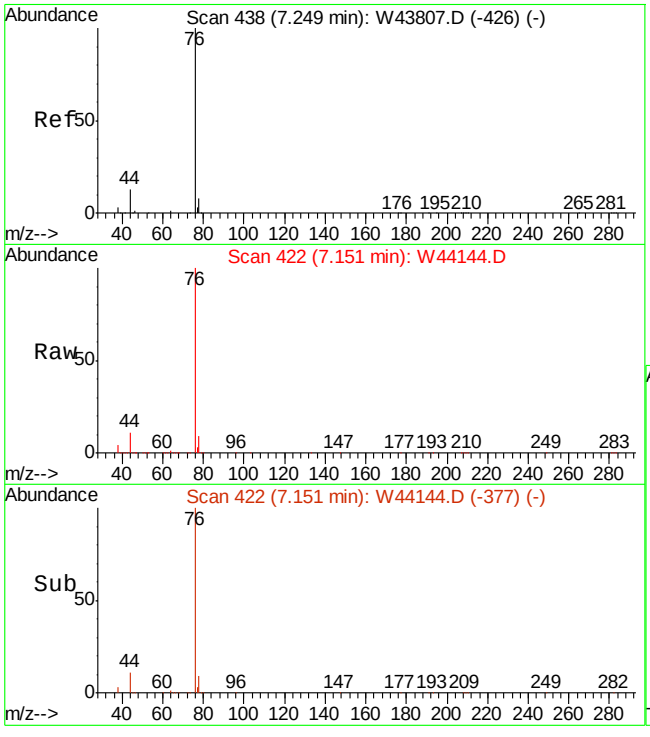


#22
PENTANE
Concen: 28.64 PPBV
RT: 6.50 min Scan# 316
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 57 Resp: 187659

Ion	Ratio	Lower	Upper
57	100		
42	370.1	352.7	392.7
41	307.0	286.0	326.0

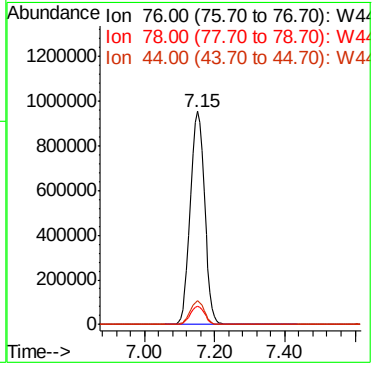


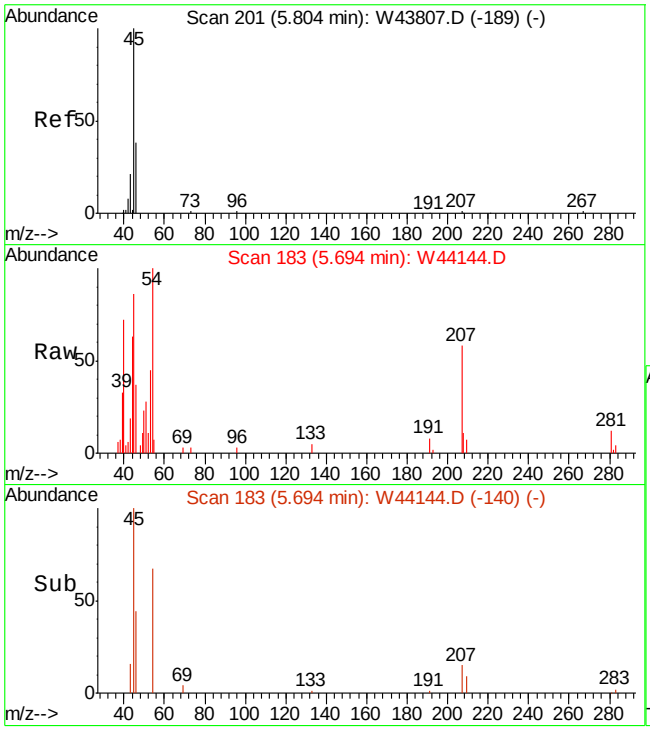


#26
CARBON DISULFIDE
Concen: 40.05 PPBV
RT: 7.15 min Scan# 422
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 76 Resp: 2678542

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	29.0
44	10.9	0.0	31.4

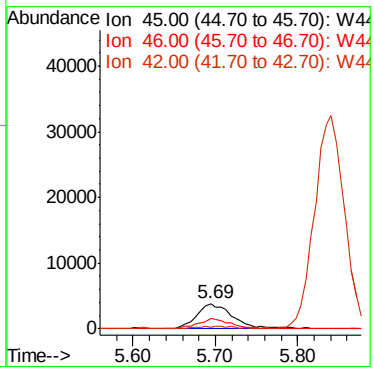


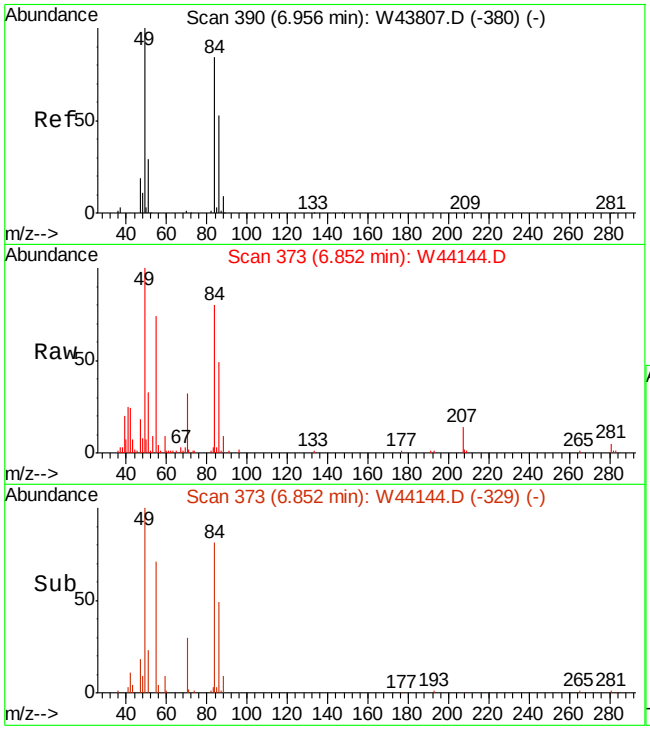


#27
ETHANOL
Concen: 1.38 PPBV
RT: 5.69 min Scan# 183
Delta R.T. -0.04 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 45 Resp: 11619

Ion	Ratio	Lower	Upper
45	100		
46	38.0	18.3	58.3
42	0.0	0.0	27.7

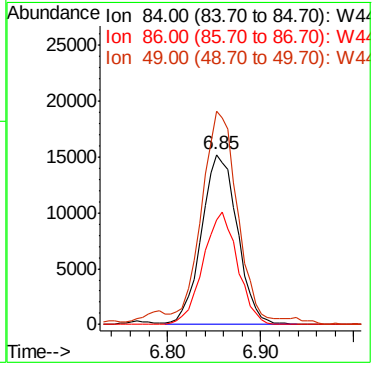


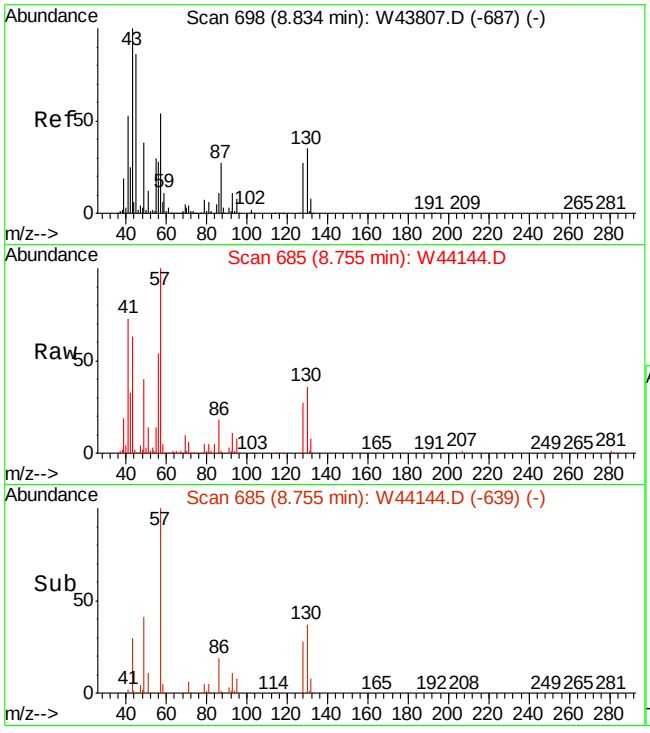


#30
METHYLENE CHLORIDE
Concen: 1.62 PPBV
RT: 6.85 min Scan# 373
Delta R.T. -0.03 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 84 Resp: 41000

Ion	Ratio	Lower	Upper
84	100		
86	63.5	43.2	83.2
49	129.0	0.0	320.8

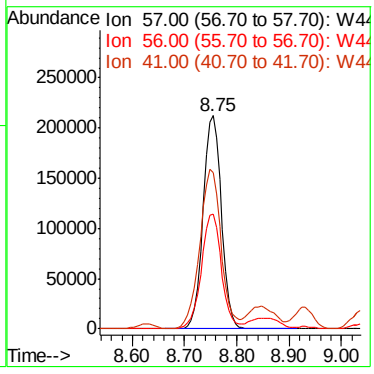


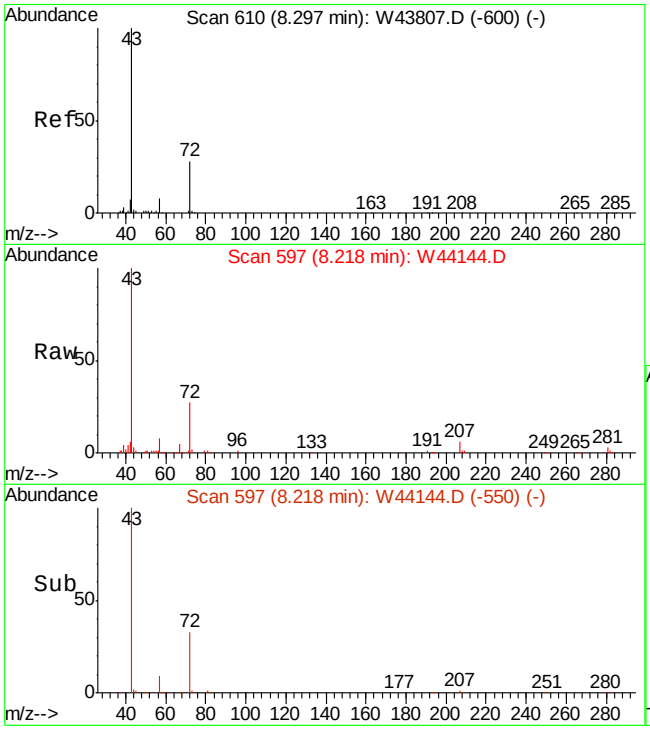


#37
HEXANE
Concen: 13.23 PPBV
RT: 8.75 min Scan# 685
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 57 Resp: 517074

Ion	Ratio	Lower	Upper
57	100		
56	59.0	32.2	72.2
41	87.4	74.7	114.7

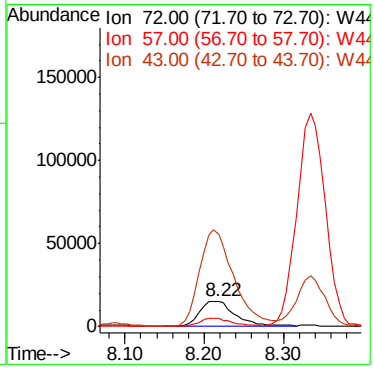




#40
METHYL ETHYL KETONE
Concen: 4.16 PPBV
RT: 8.22 min Scan# 597
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

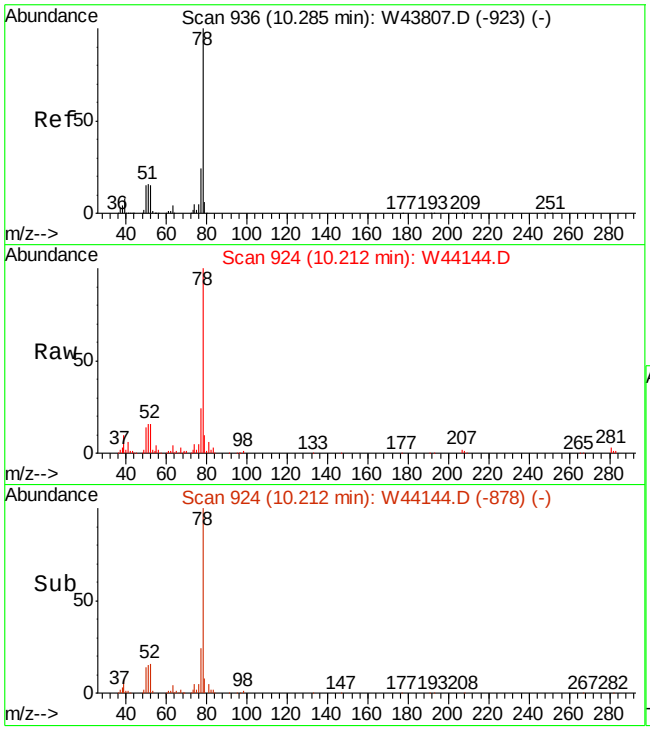
Tgt Ion: 72 Resp: 48323

Ion	Ratio	Lower	Upper
72	100		
57	30.3	10.3	50.3
43	366.5	364.5	404.5



7.1.6

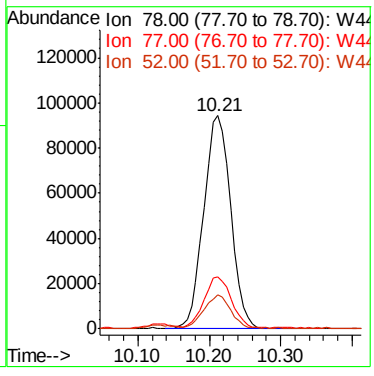
7

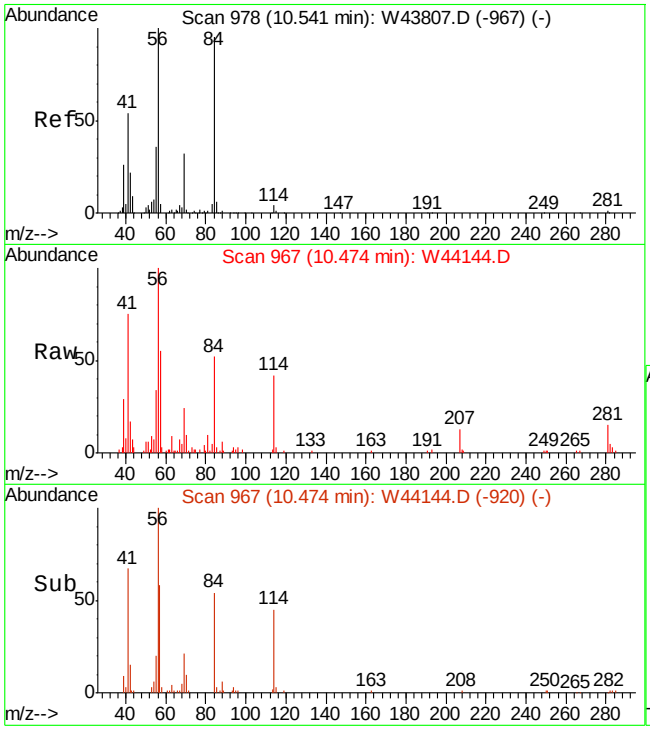


#51
BENZENE
Concen: 3.26 PPBV
RT: 10.21 min Scan# 924
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 78 Resp: 246915

Ion	Ratio	Lower	Upper
78	100		
77	24.0	3.7	43.7
52	15.9	0.0	35.0

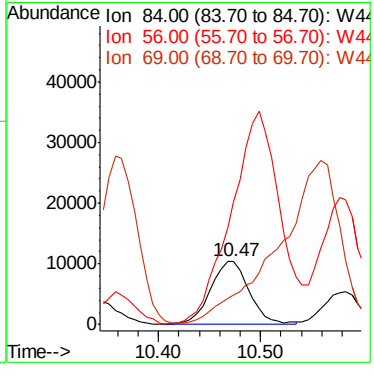


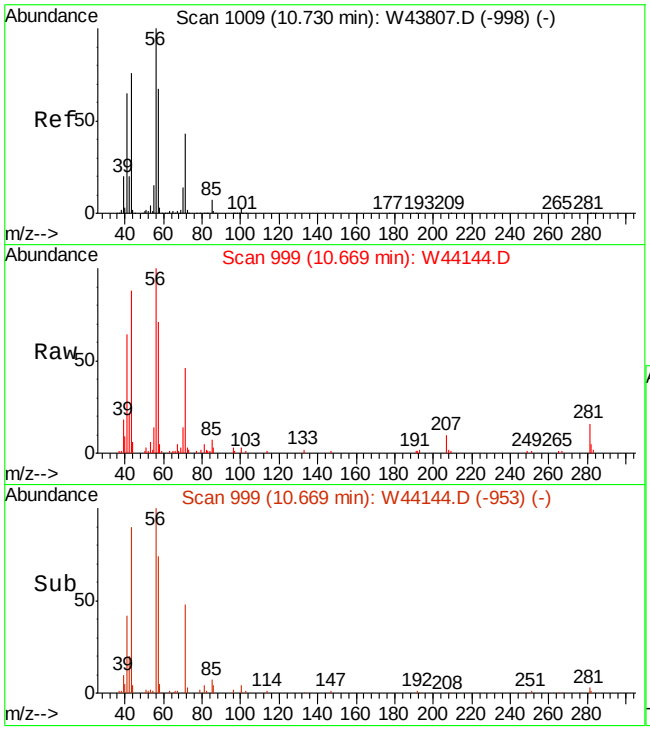


#52
CYCLOHEXANE
Concen: 0.80 PPBV
RT: 10.47 min Scan# 967
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 84 Resp: 27563

Ion	Ratio	Lower	Upper
84	100		
56	0.0	96.7	136.7#
69	0.0	20.6	60.6#

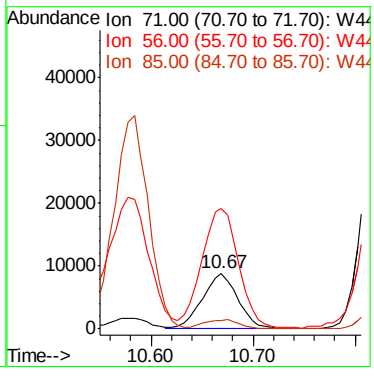


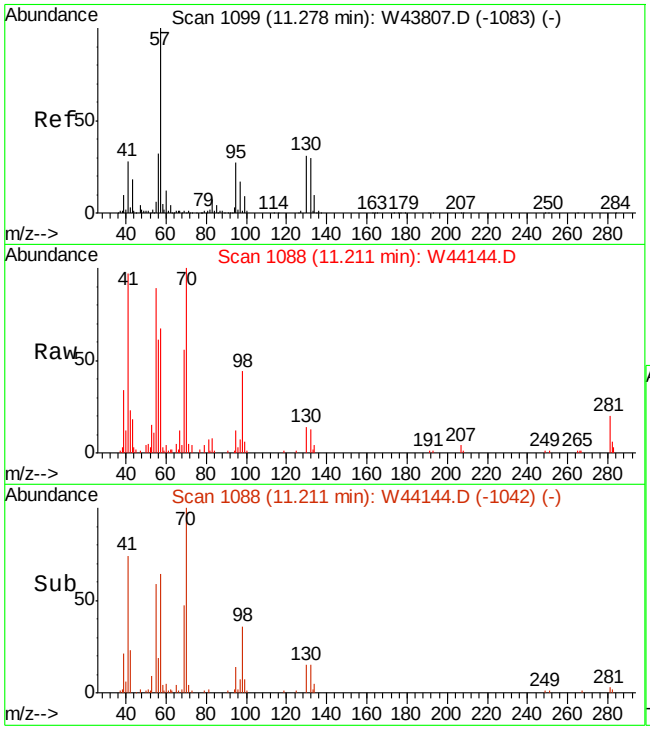


#53
2,3-DIMETHYLPENTANE
Concen: 1.23 PPBV
RT: 10.67 min Scan# 999
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 71 Resp: 21393

Ion	Ratio	Lower	Upper
71	100		
56	222.3	196.2	294.4
85	17.1	13.4	20.0

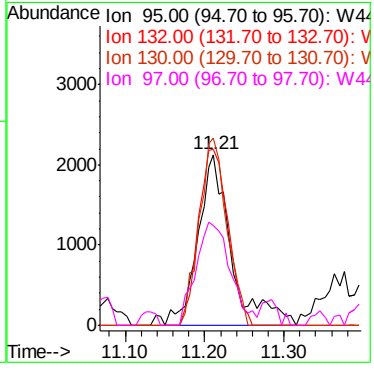


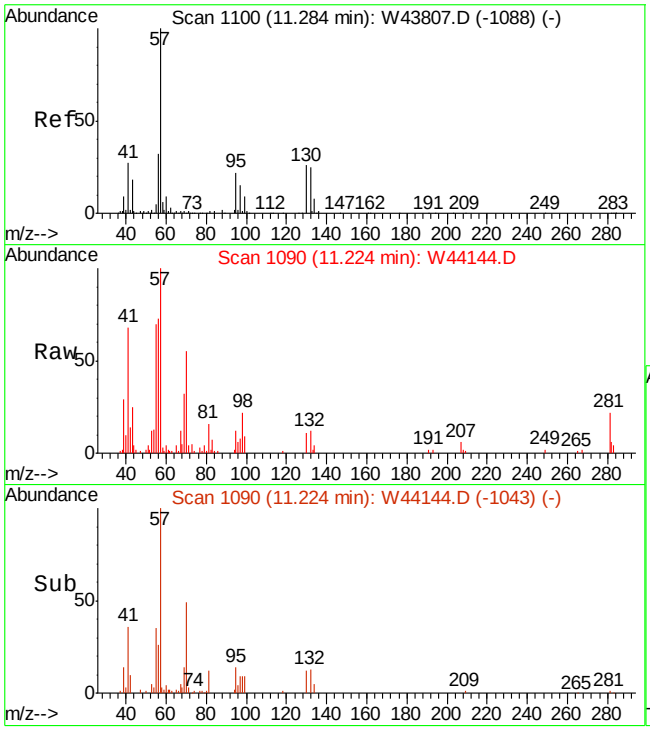


#54
TRICHLOROETHYLENE
Concen: 0.19 PPBV
RT: 11.21 min Scan# 1088
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 95 Resp: 6207

Ion	Ratio	Lower	Upper
95	100		
132	91.3	87.7	127.7
130	90.6	92.0	132.0#
97	62.5	45.1	85.1

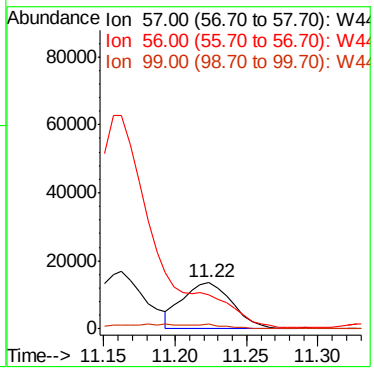


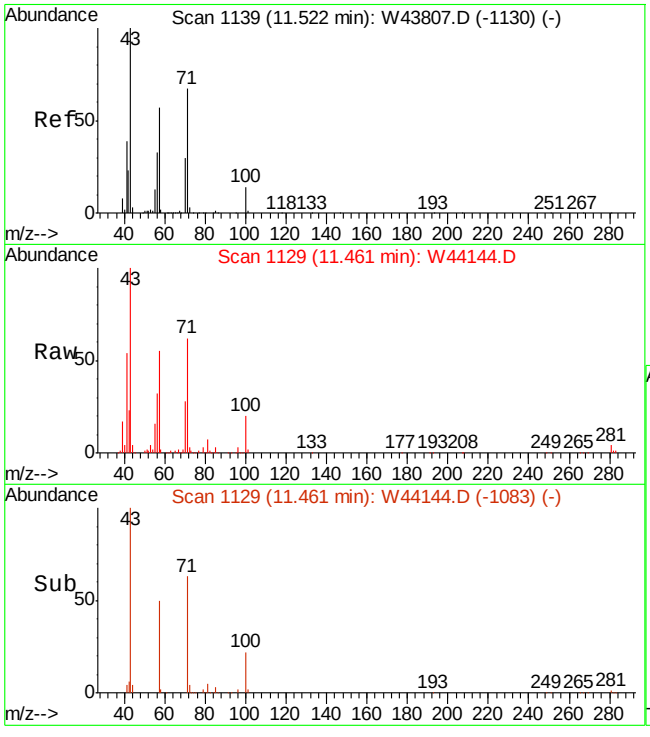


#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.27 PPBV
RT: 11.22 min Scan# 1090
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 57 Resp: 32555

Ion	Ratio	Lower	Upper
57	100		
56	0.0	12.2	52.2#
99	0.0	0.0	28.0

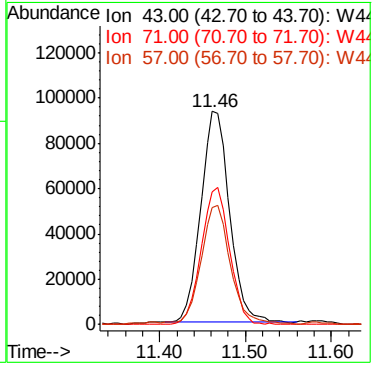


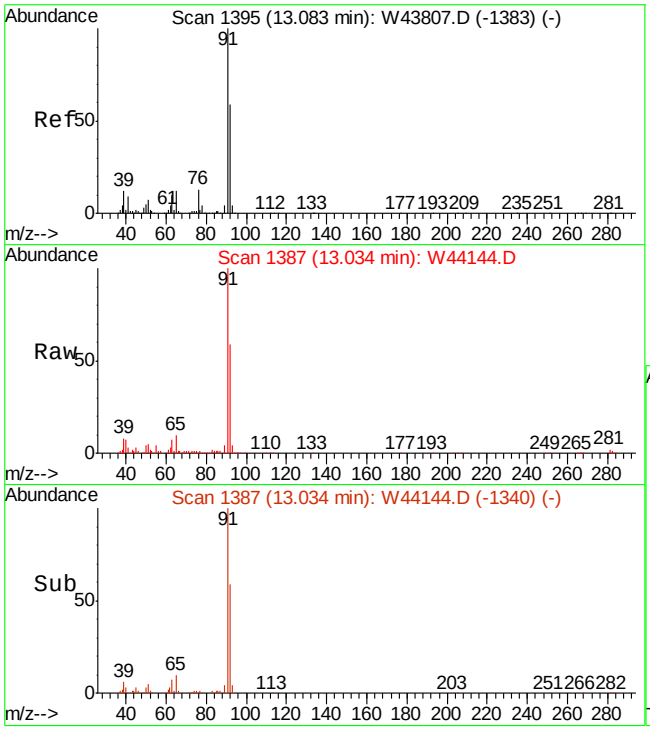


#62
HEPTANE
Concen: 5.21 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 43 Resp: 217793

Ion	Ratio	Lower	Upper
43	100		
71	63.8	43.7	83.7
57	56.6	34.7	74.7

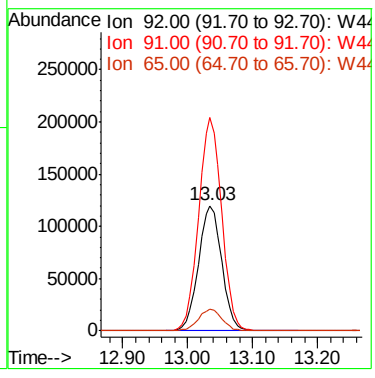


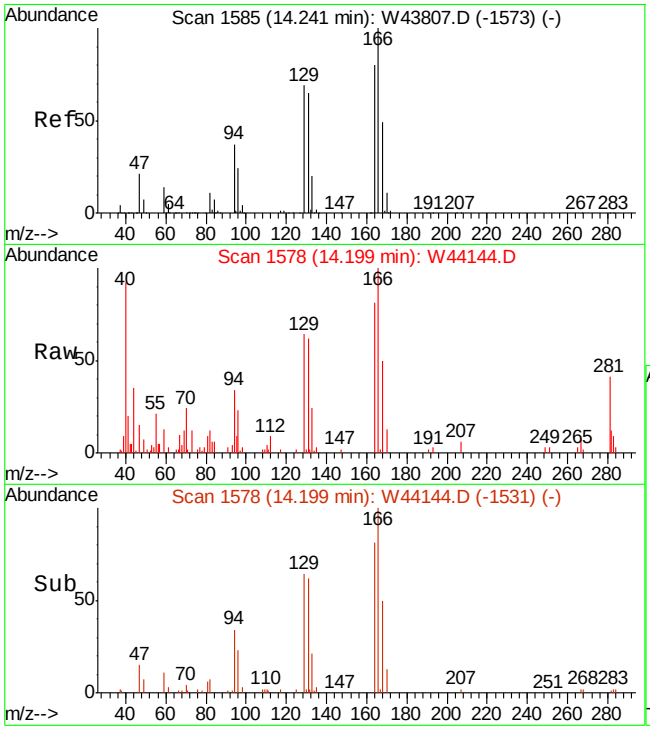


#66
TOLUENE
Concen: 5.61 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 92 Resp: 297807

Ion	Ratio	Lower	Upper
92	100		
91	168.8	148.0	188.0
65	17.9	0.5	40.5

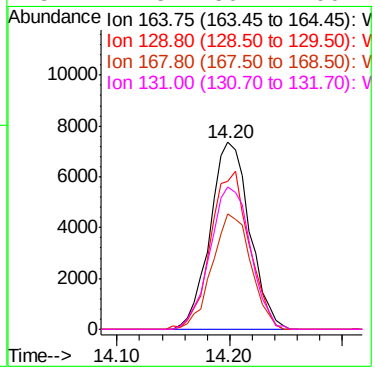


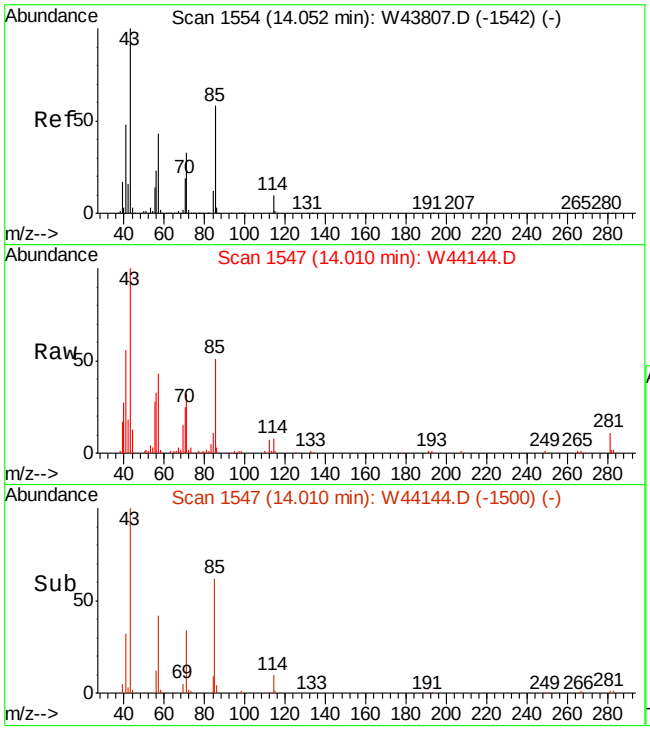


#72
TETRACHLOROETHYLENE
Concen: 0.53 PPBV
RT: 14.20 min Scan# 1578
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:164 Resp: 17939

Ion	Ratio	Lower	Upper
164	100		
129	82.0	62.5	102.5
168	60.4	41.7	81.7
131	77.8	59.1	99.1

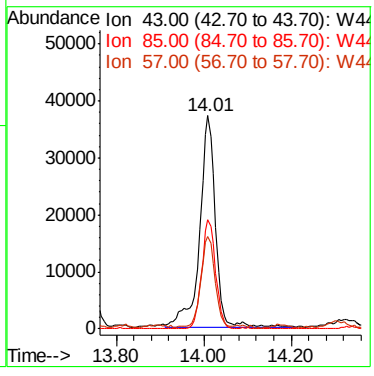


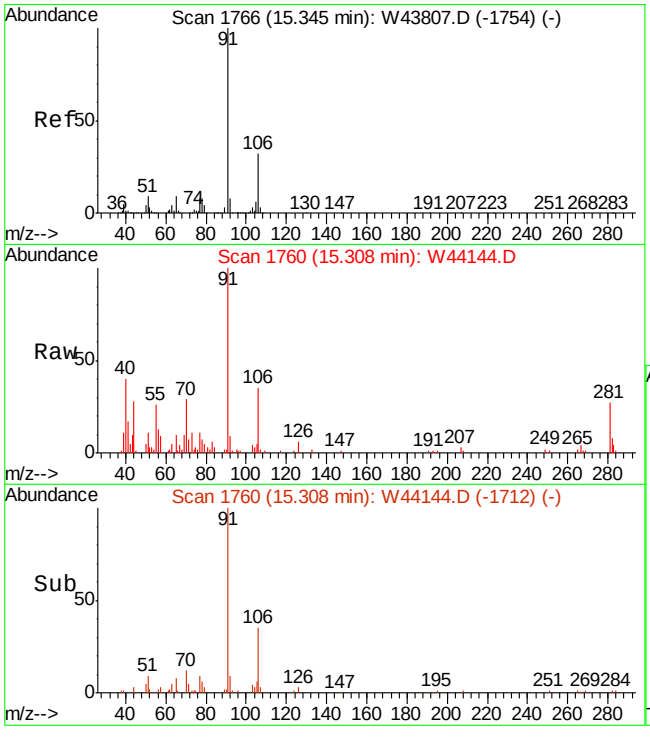


#75
OCTANE
Concen: 1.96 PPBV
RT: 14.01 min Scan# 1547
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 43 Resp: 94680

Ion	Ratio	Lower	Upper
43	100		
85	44.8	41.1	61.7
57	36.8	33.4	50.2

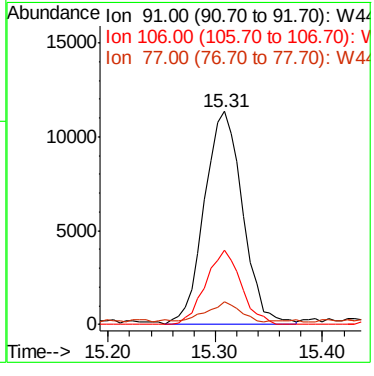


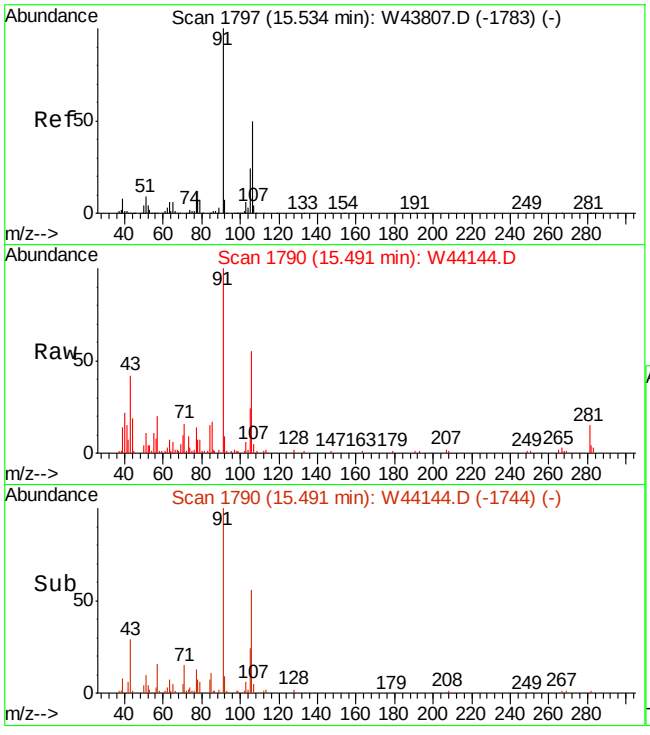


#78
ETHYLBENZENE
Concen: 0.30 PPBV
RT: 15.31 min Scan# 1760
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 91 Resp: 28155

Ion	Ratio	Lower	Upper
91	100		
106	32.3	12.3	52.3
77	8.2	0.0	28.1

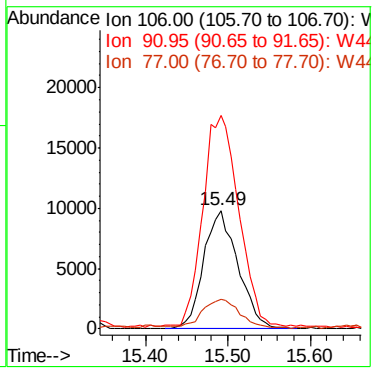


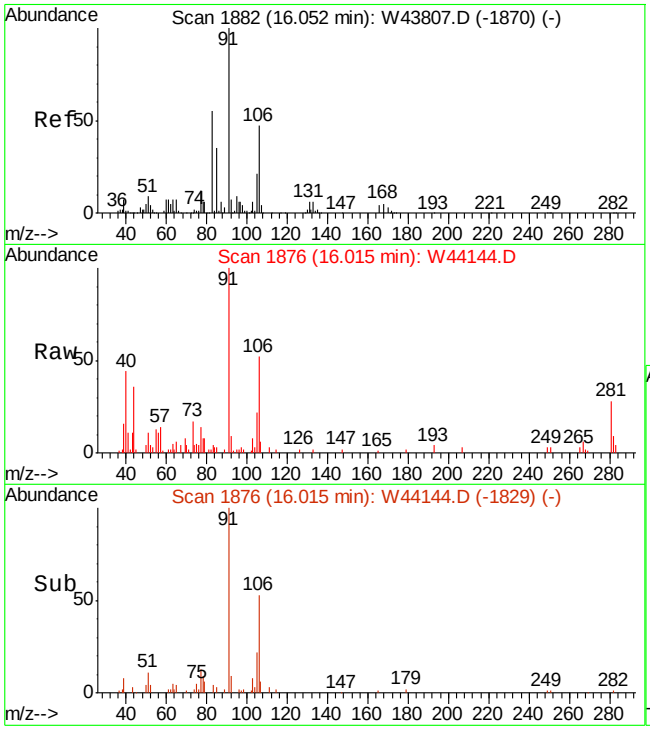


#79
m,p-XYLENE
Concen: 0.79 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:106 Resp: 28591

Ion	Ratio	Lower	Upper
106	100		
91	180.3	151.2	226.8
77	24.6	18.7	28.1

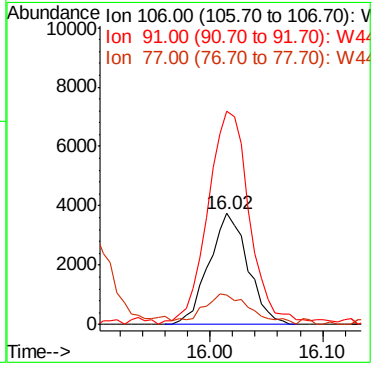


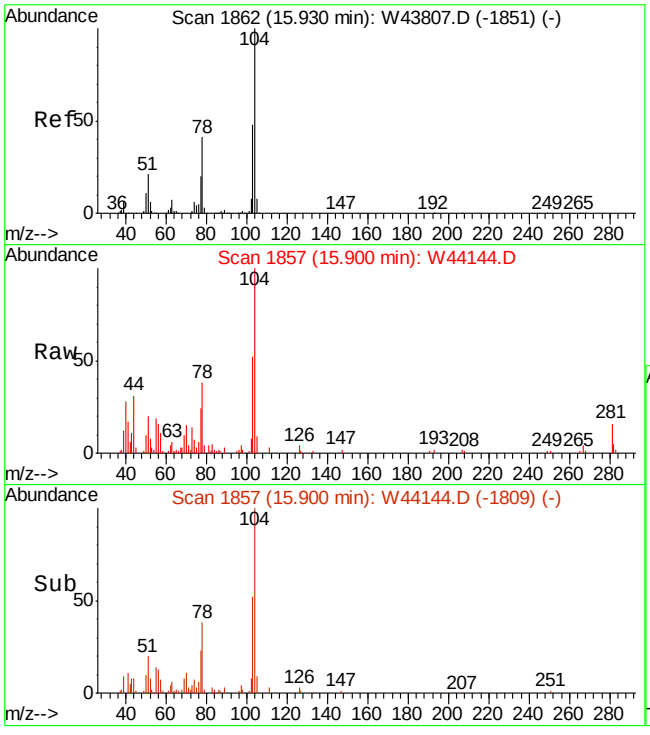


#80
o-XYLENE
Concen: 0.26 PPBV
RT: 16.02 min Scan# 1876
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:106 Resp: 8950

Ion	Ratio	Lower	Upper
106	100		
91	210.1	182.5	222.5
77	32.4	3.8	43.8

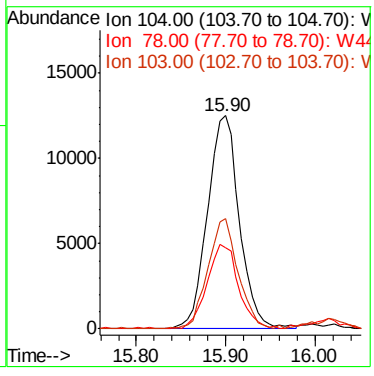


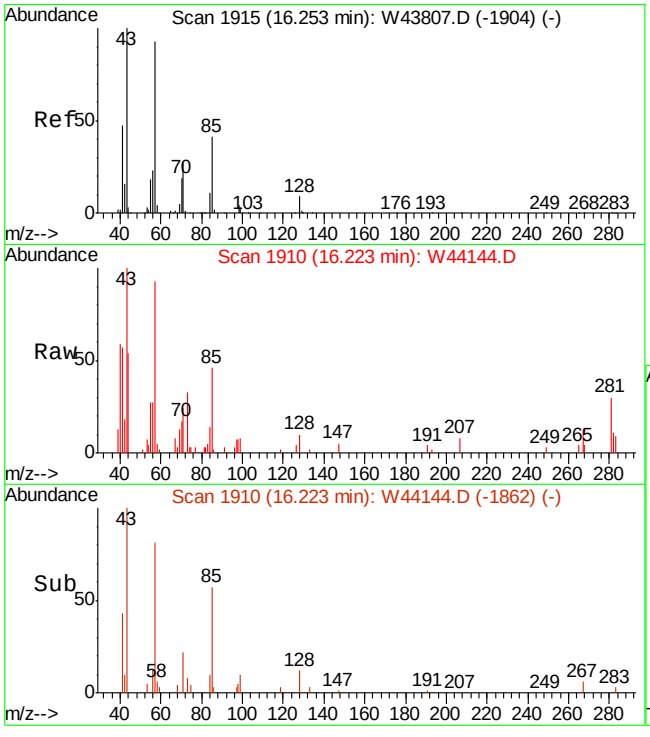


#81
STYRENE
Concen: 0.60 PPBV
RT: 15.90 min Scan# 1857
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:104 Resp: 30981

Ion	Ratio	Lower	Upper
104	100		
78	39.2	18.7	58.7
103	49.0	27.3	67.3

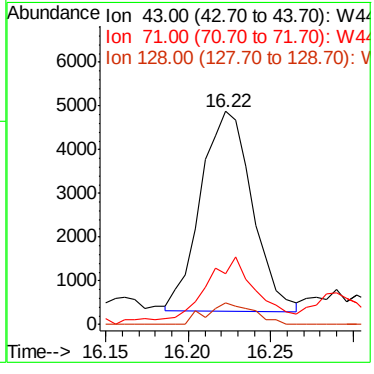


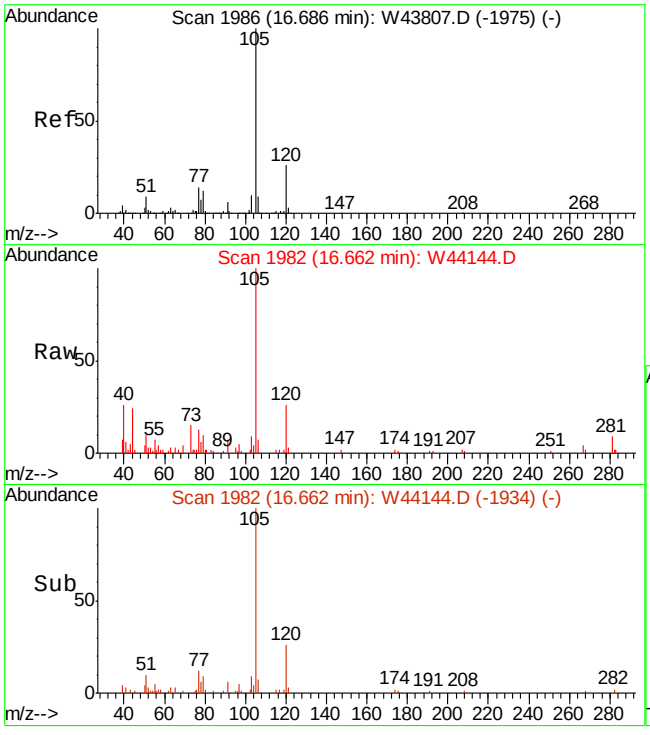


#83
NONANE
Concen: 0.22 PPBV
RT: 16.22 min Scan# 1910
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion: 43 Resp: 9931

Ion	Ratio	Lower	Upper
43	100		
71	36.1	7.3	47.3
128	9.8	0.0	28.0

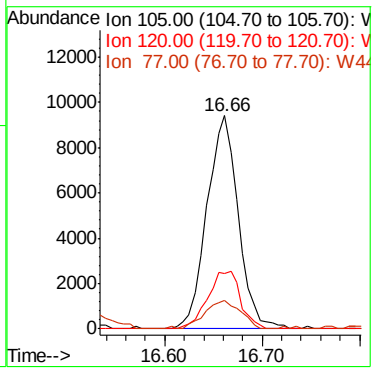


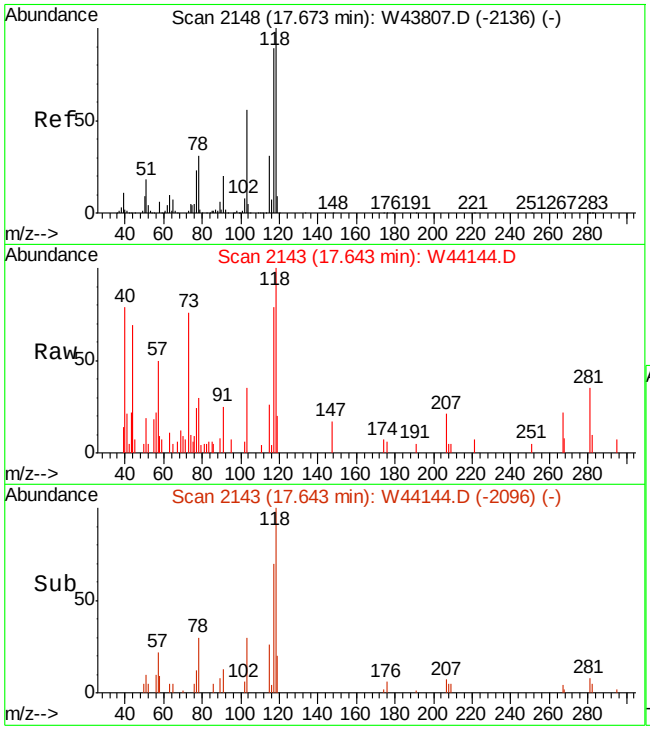


#87
ISOPROPYLBENZENE
Concen: 0.21 PPBV
RT: 16.66 min Scan# 1982
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:105 Resp: 20945

Ion	Ratio	Lower	Upper
105	100		
120	28.1	7.4	47.4
77	15.1	0.0	34.1

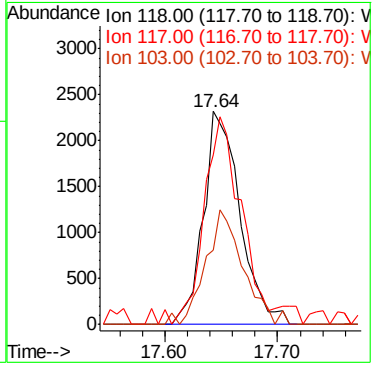


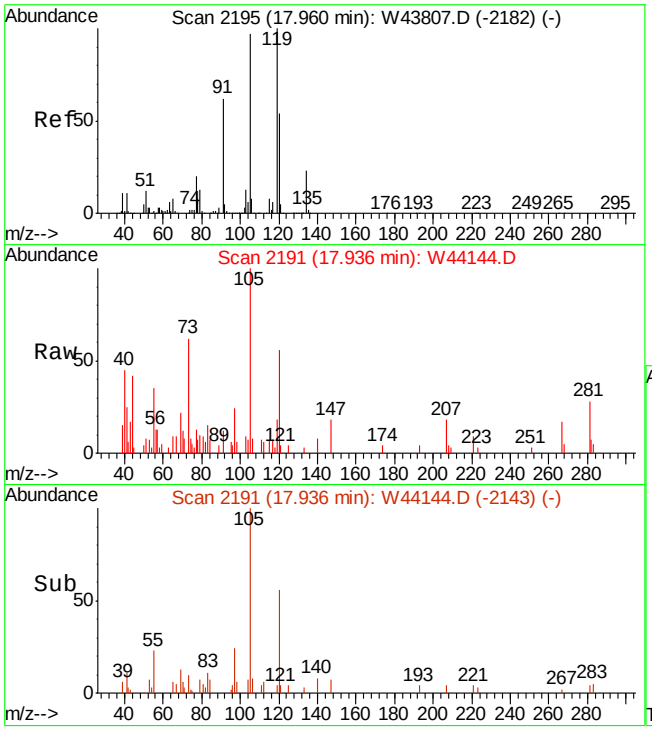


#93
ALPHA-METHYLSTYRENE
Concen: 0.15 PPBV
RT: 17.64 min Scan# 2143
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:118 Resp: 5219

Ion	Ratio	Lower	Upper
118	100		
117	103.0	69.1	103.7
103	55.1	43.0	64.4

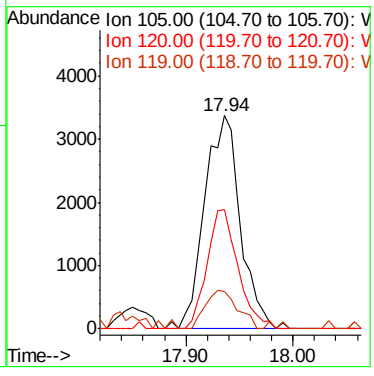




#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 17.94 min Scan# 2191
Delta R.T. -0.01 min
Lab File: W44144.D
Acq: 18 Oct 2013 3:05 am

Tgt Ion:105 Resp: 7799

Ion	Ratio	Lower	Upper
105	100		
120	48.5	39.1	79.1
119	16.2	102.1	142.1#



Manual Integration Approval Summary

Sample Number:	JB50276-5	**Method:**	TO-15
Lab FileID:	W44144.D	**Analyst approved:**	10/21/13 14:58 Dana Tryon
Injection Time:	10/18/13 03:05	**Supervisor approved:**	10/23/13 06:28 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		5.35	Missed peak

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/23/13 06:28

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44171.D Vial: 7
Acq On : 19 Oct 2013 2:26 am Operator: danat
Sample : jb50276-5 Inst : MSW
Misc : MS56739,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 19 17:31:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	172988	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.52	114	875887	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	344833	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	391903	9.58	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 95.80%

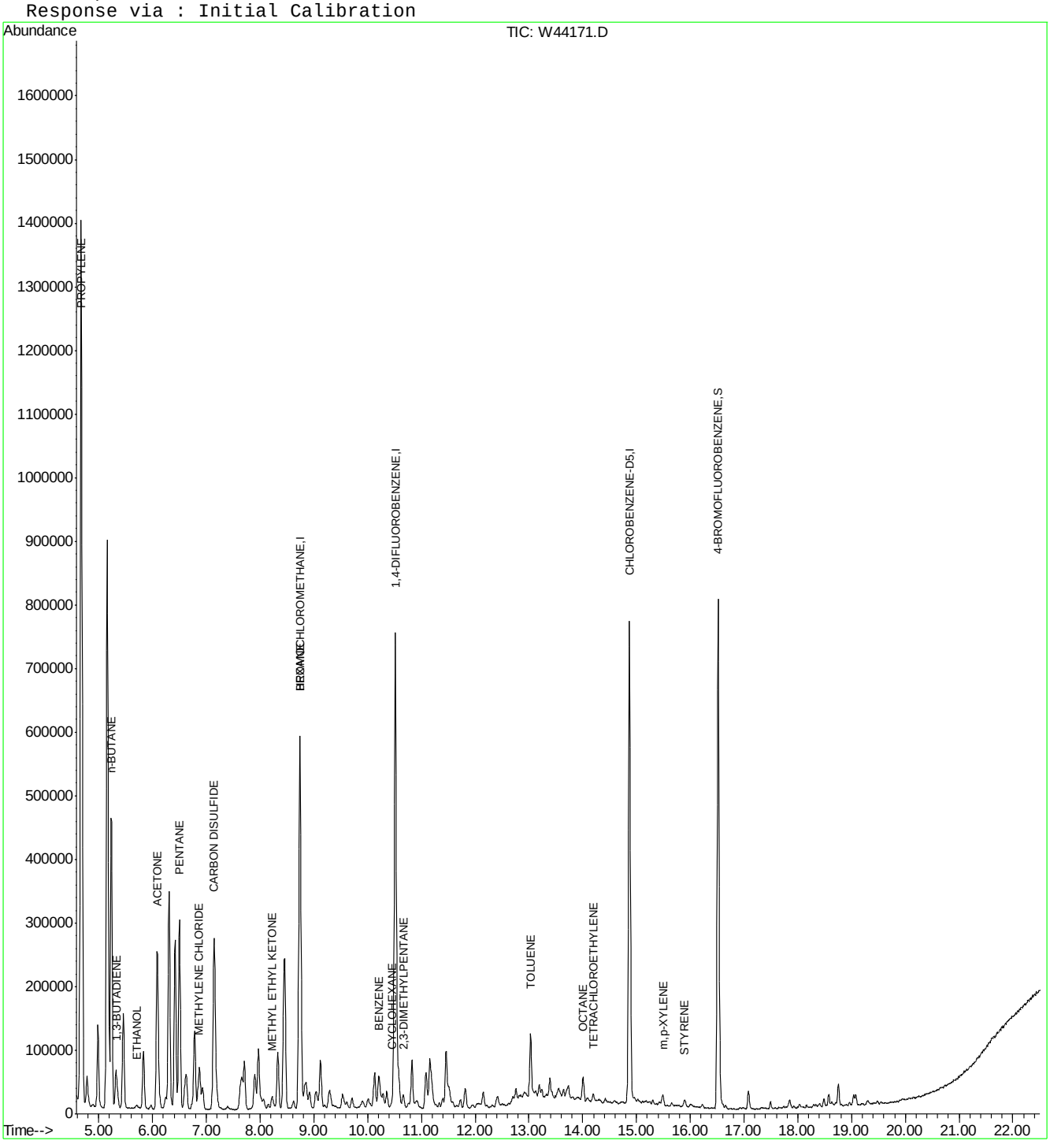
Target Compounds						Qvalue
6) PROPYLENE	4.67	41	959877	59.07	PPBV	98
10) 1,3-BUTADIENE	5.35	54	14065m	0.86	PPBV	
11) n-BUTANE	5.24	58	73377	16.75	PPBV	94
20) ACETONE	6.09	58	47900	4.25	PPBV #	6
22) PENTANE	6.50	57	40417	7.19	PPBV	98
26) CARBON DISULFIDE	7.15	76	581814	9.69	PPBV	99
27) ETHANOL	5.71	45	4237	0.56	PPBV #	94
30) METHYLENE CHLORIDE	6.85	84	19032	0.84	PPBV	97
37) HEXANE	8.75	57	111068	3.17	PPBV	91
40) METHYL ETHYL KETONE	8.22	72	10764	1.03	PPBV #	78
51) BENZENE	10.21	78	52087	0.77	PPBV	95
52) CYCLOHEXANE	10.46	84	6576	0.21	PPBV #	4
53) 2,3-DIMETHYLPENTANE	10.66	71	4433	0.29	PPBV	94
66) TOLUENE	13.03	92	62055	1.31	PPBV	99
72) TETRACHLOROETHYLENE	14.19	164	3932	0.13	PPBV	98
75) OCTANE	14.01	43	19986	0.45	PPBV	91
79) m,p-XYLENE	15.48	106	5864	0.18	PPBV #	97
81) STYRENE	15.89	104	6493	0.14	PPBV	96

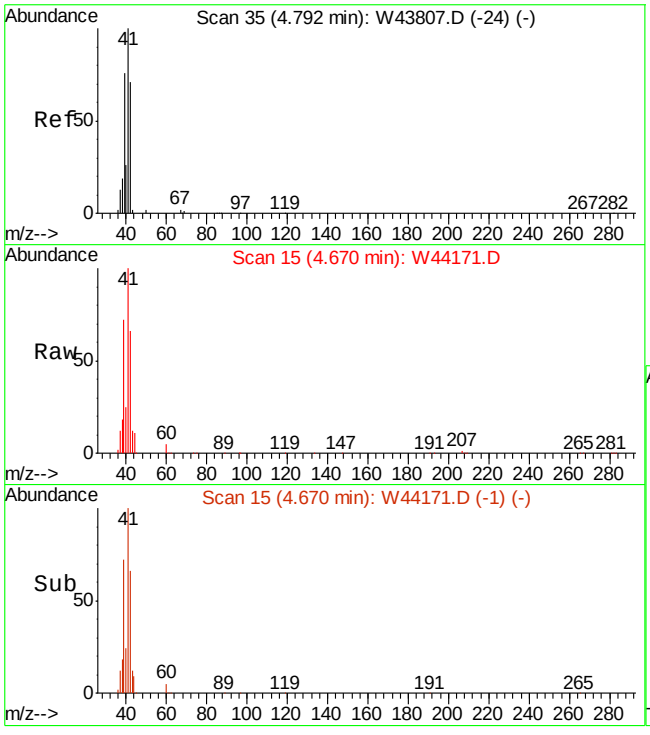
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44171.D Vial: 7
Acq On : 19 Oct 2013 2:26 am Operator: danat
Sample : jb50276-5 Inst : MSW
Misc : MS56739,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 17:51 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

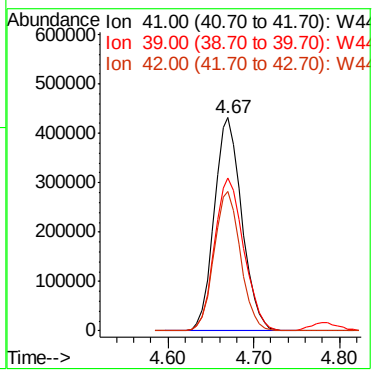


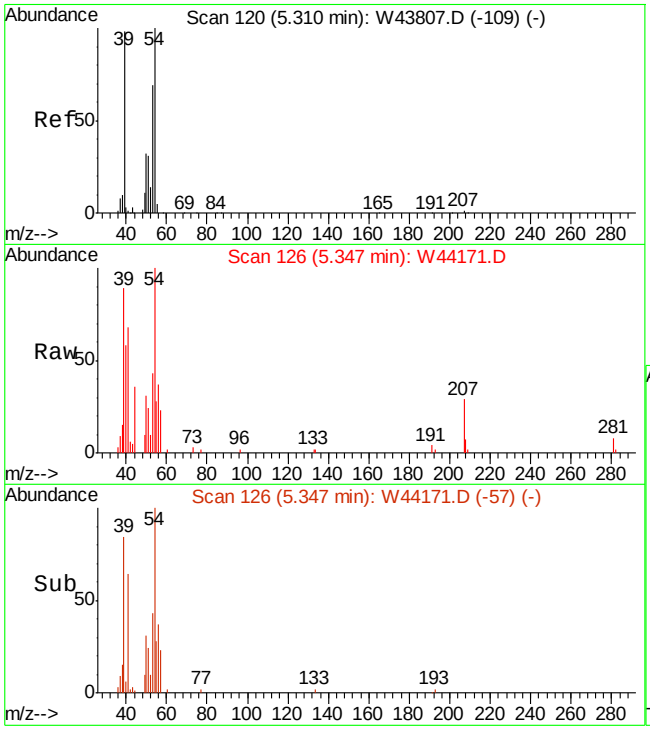


#6
PROPYLENE
Concen: 59.07 PPBV
RT: 4.67 min Scan# 15
Delta R.T. -0.04 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 41 Resp: 959877

Ion	Ratio	Lower	Upper
41	100		
39	71.5	48.7	88.7
42	65.5	44.9	84.9

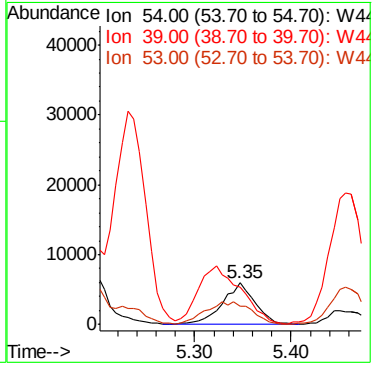


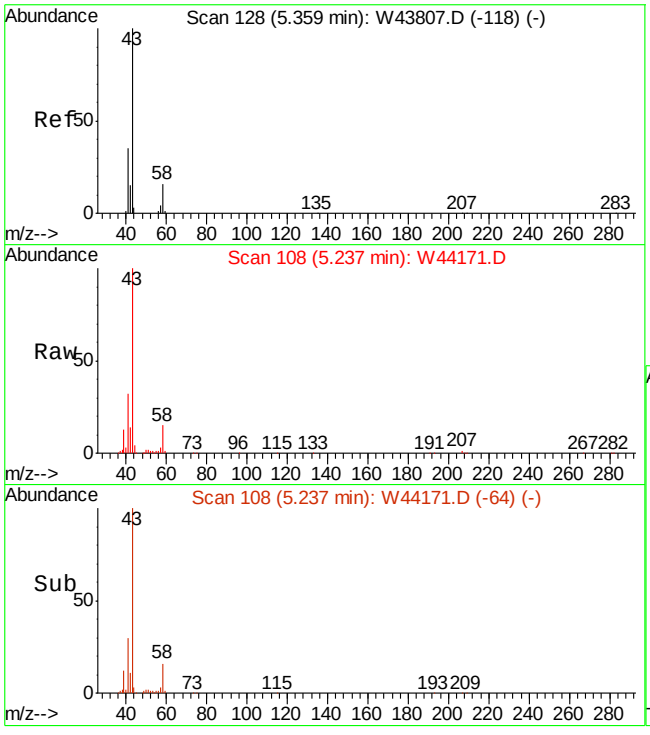


#10
1,3-BUTADIENE
Concen: 0.86 PPBV m
RT: 5.35 min Scan# 126
Delta R.T. 0.12 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 54 Resp: 14065

Ion	Ratio	Lower	Upper
54	100		
39	0.0	100.8	140.8#
53	0.0	51.2	91.2#

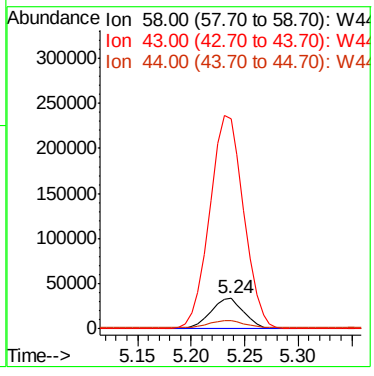


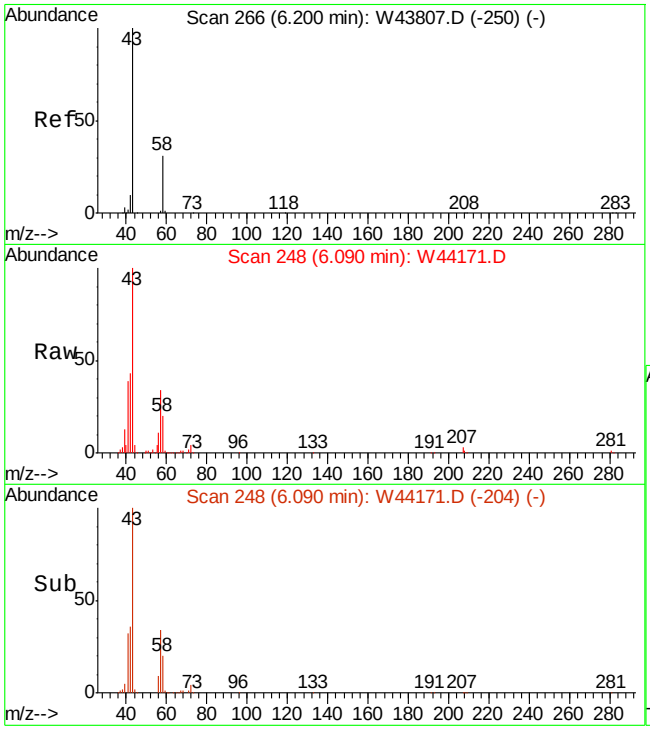


#11
n-BUTANE
Concen: 16.75 PPBV
RT: 5.24 min Scan# 108
Delta R.T. -0.03 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 58 Resp: 73377

Ion	Ratio	Lower	Upper
58	100		
43	711.3	552.0	828.0
44	24.5	20.4	30.6

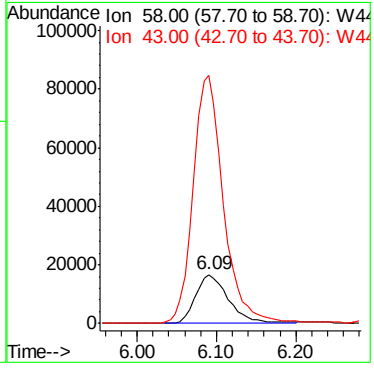


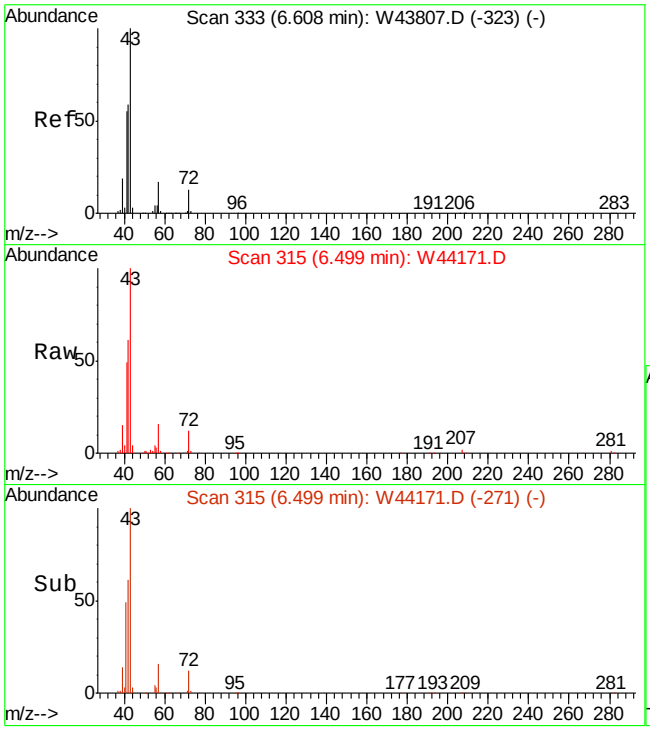


#20
ACETONE
Concen: 4.25 PPBV
RT: 6.09 min Scan# 248
Delta R.T. -0.03 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 58 Resp: 47900

Ion	Ratio	Lower	Upper
58	100		
43	471.6	270.7	310.7#

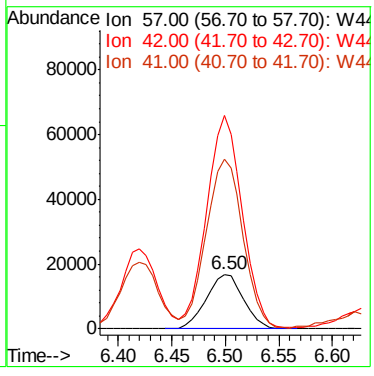


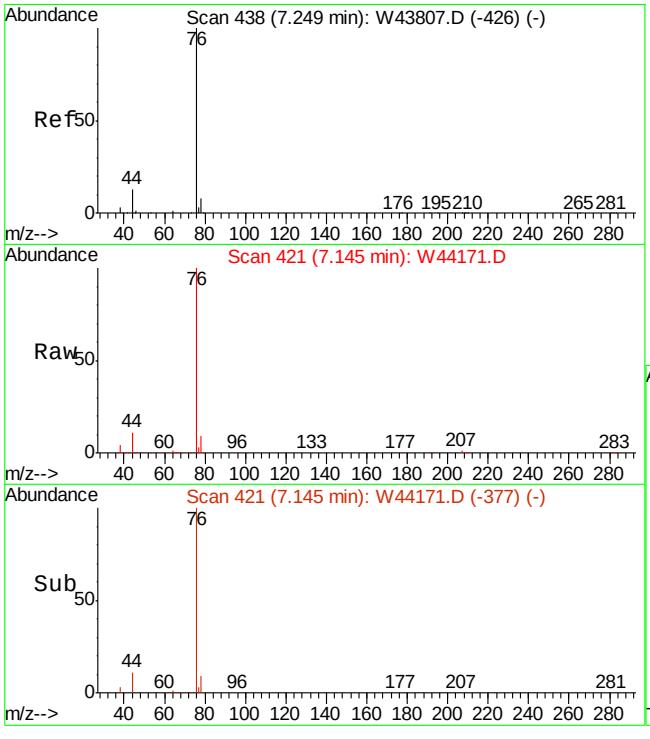


#22
PENTANE
Concen: 7.19 PPBV
RT: 6.50 min Scan# 315
Delta R.T. -0.03 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 57 Resp: 40417

Ion	Ratio	Lower	Upper
57	100		
42	377.5	352.7	392.7
41	309.8	286.0	326.0

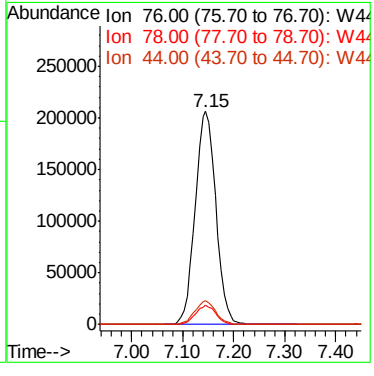


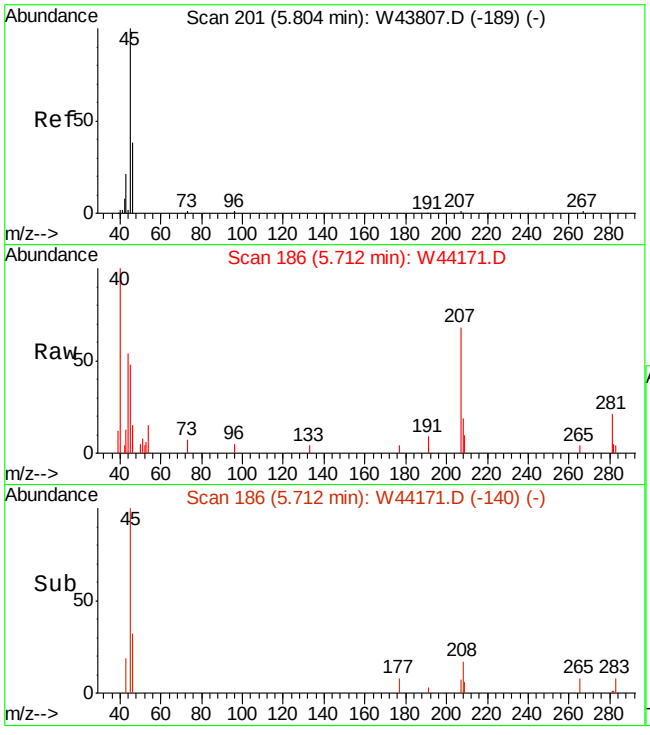


#26
CARBON DISULFIDE
Concen: 9.69 PPBV
RT: 7.15 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 76 Resp: 581814

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	29.0
44	11.0	0.0	31.4

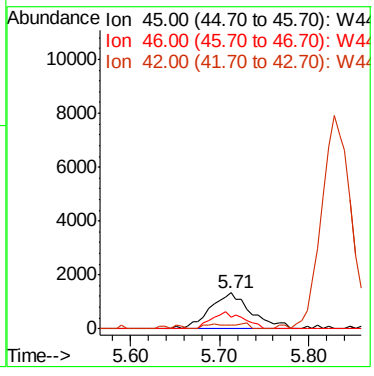


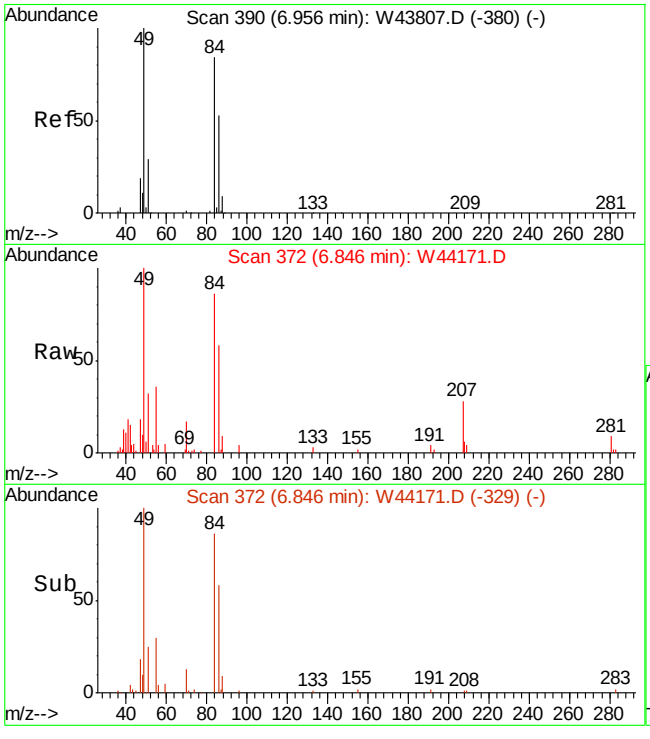


#27
ETHANOL
Concen: 0.56 PPBV
RT: 5.71 min Scan# 186
Delta R.T. -0.02 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 45 Resp: 4237

Ion	Ratio	Lower	Upper
45	100		
46	36.4	18.3	58.3
42	0.0	0.0	27.7

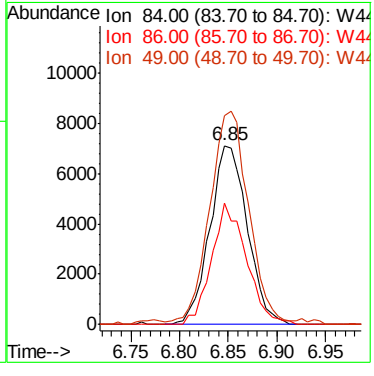


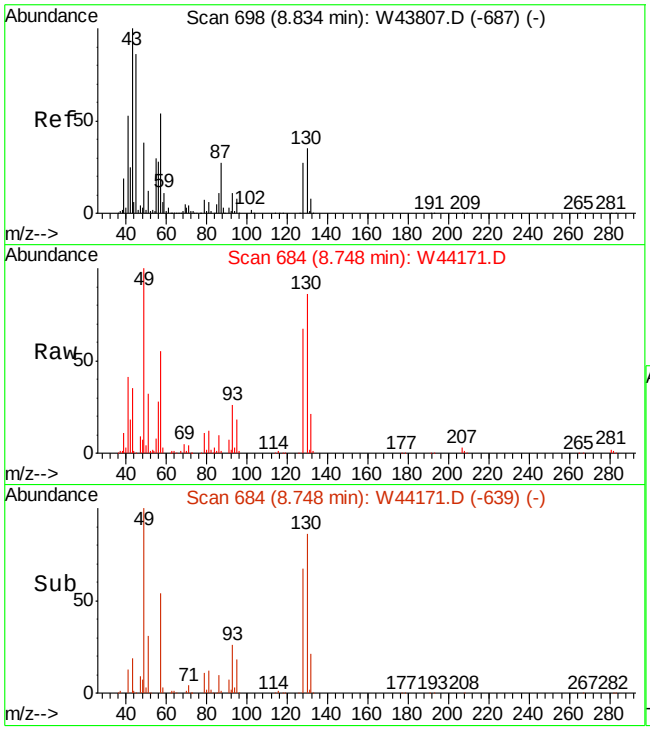


#30
METHYLENE CHLORIDE
Concen: 0.84 PPBV
RT: 6.85 min Scan# 372
Delta R.T. -0.04 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 84 Resp: 19032

Ion	Ratio	Lower	Upper
84	100		
86	62.9	43.2	83.2
49	125.9	0.0	320.8

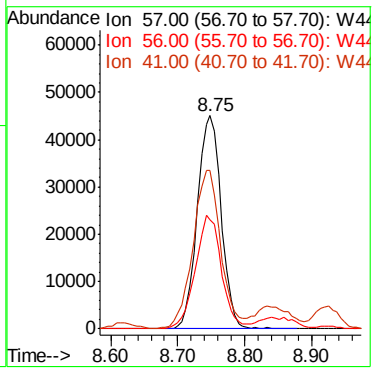


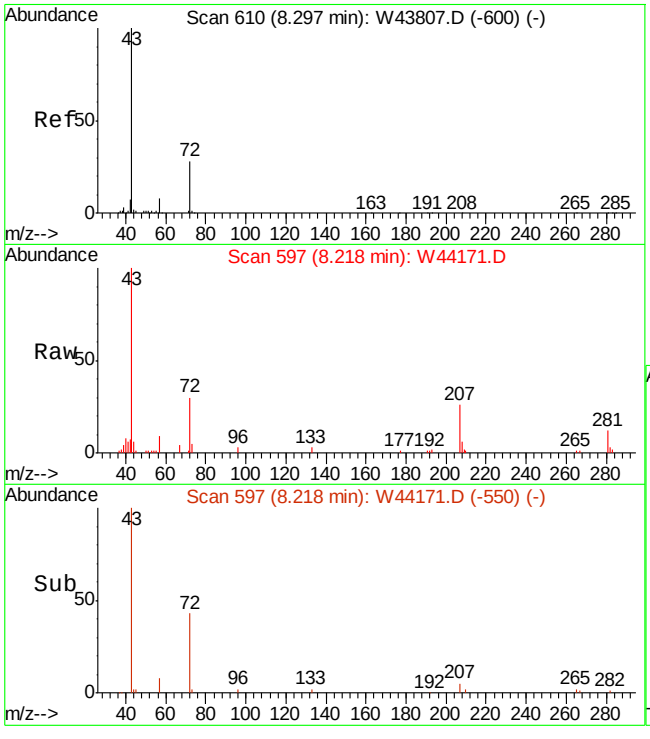


#37
HEXANE
Concen: 3.17 PPBV
RT: 8.75 min Scan# 684
Delta R.T. -0.02 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 57 Resp: 111068

Ion	Ratio	Lower	Upper
57	100		
56	58.1	32.2	72.2
41	86.3	74.7	114.7

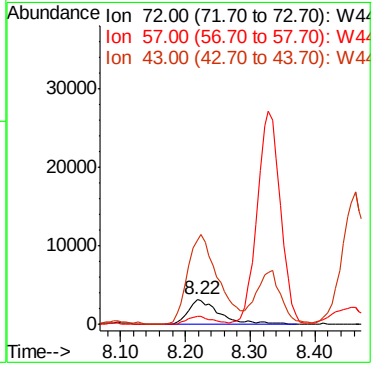




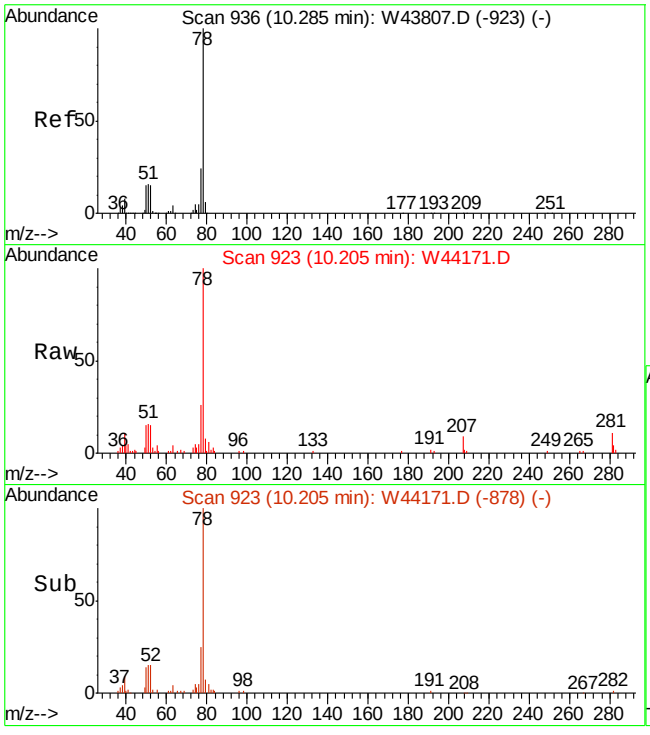
#40
METHYL ETHYL KETONE
Concen: 1.03 PPBV
RT: 8.22 min Scan# 597
Delta R.T. -0.01 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 72 Resp: 10764

Ion	Ratio	Lower	Upper
72	100		
57	30.4	10.3	50.3
43	329.8	364.5	404.5#



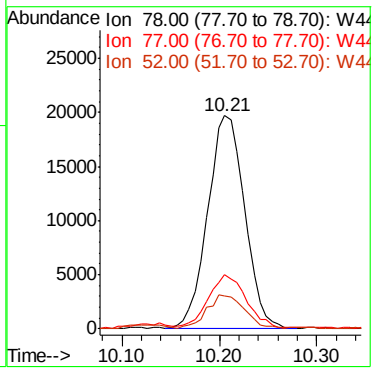
7.1.7

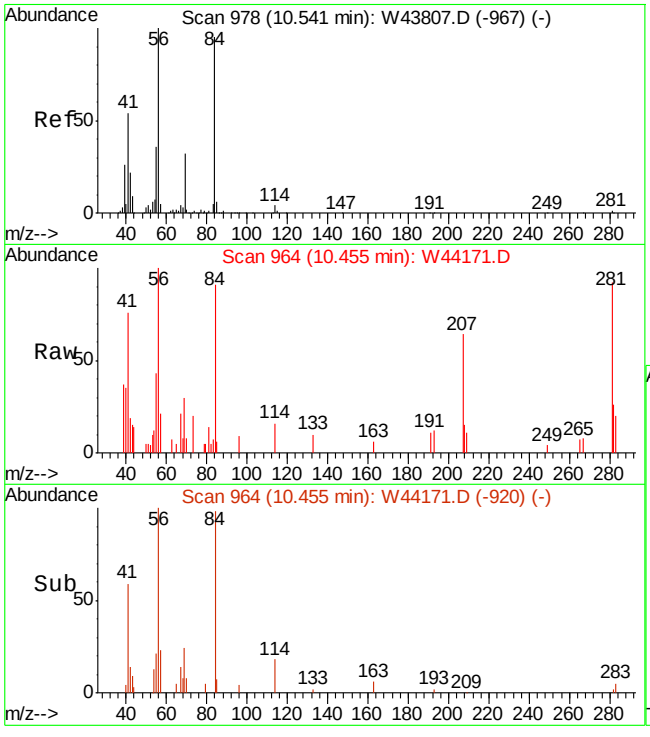


#51
BENZENE
Concen: 0.77 PPBV
RT: 10.21 min Scan# 923
Delta R.T. -0.02 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 78 Resp: 52087

Ion	Ratio	Lower	Upper
78	100		
77	27.0	3.7	43.7
52	16.2	0.0	35.0

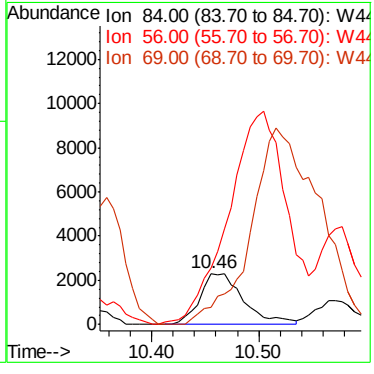


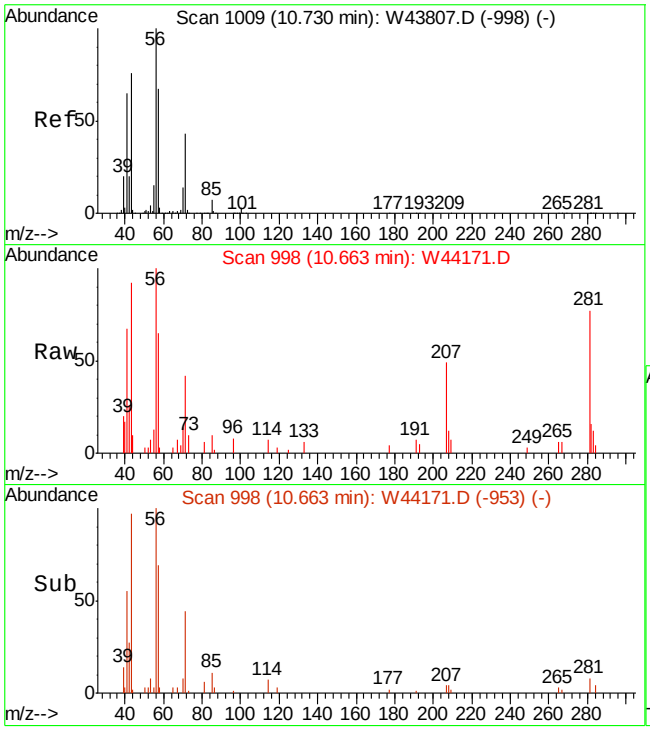


#52
CYCLOHEXANE
Concen: 0.21 PPBV
RT: 10.46 min Scan# 964
Delta R.T. -0.03 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 84 Resp: 6576

Ion	Ratio	Lower	Upper
84	100		
56	0.0	96.7	136.7#
69	0.0	20.6	60.6#

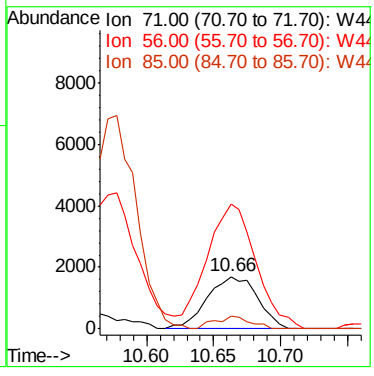


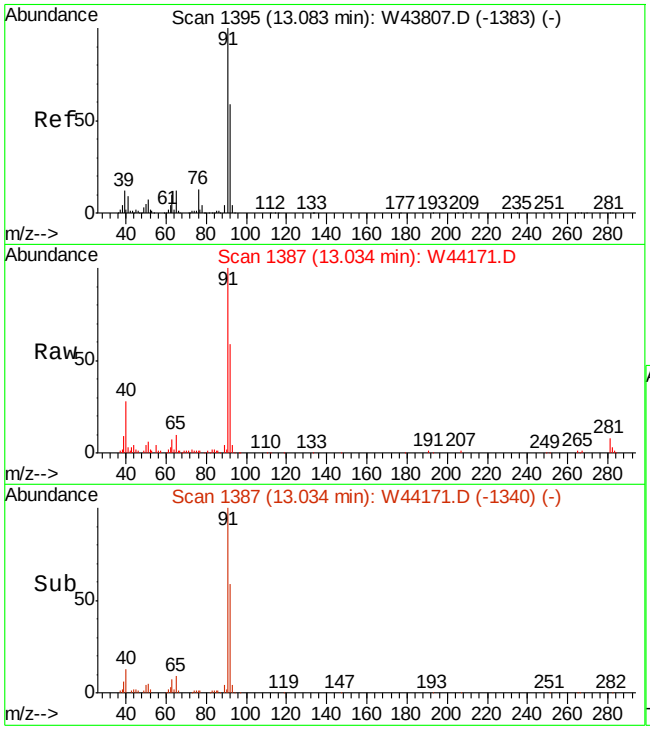


#53
2,3-DIMETHYLPENTANE
Concen: 0.29 PPBV
RT: 10.66 min Scan# 998
Delta R.T. -0.02 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 71 Resp: 4433

Ion	Ratio	Lower	Upper
71	100		
56	234.5	196.2	294.4
85	16.8	13.4	20.0

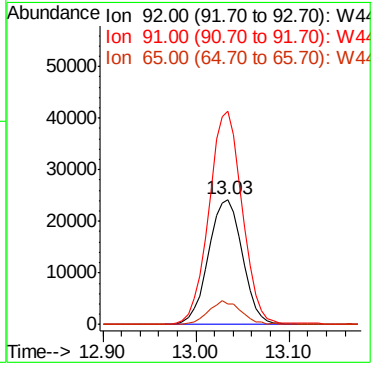


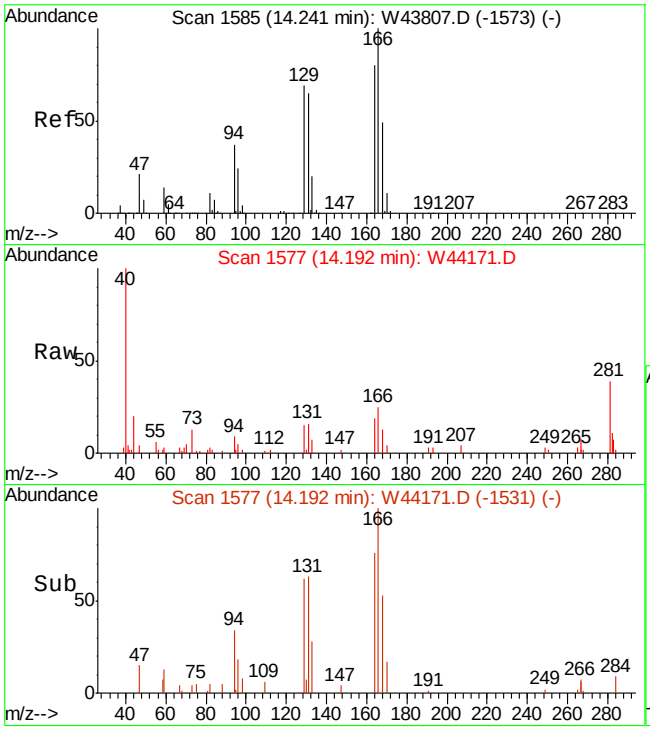


#66
TOLUENE
Concen: 1.31 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 92 Resp: 62055

Ion	Ratio	Lower	Upper
92	100		
91	167.9	148.0	188.0
65	18.4	0.5	40.5

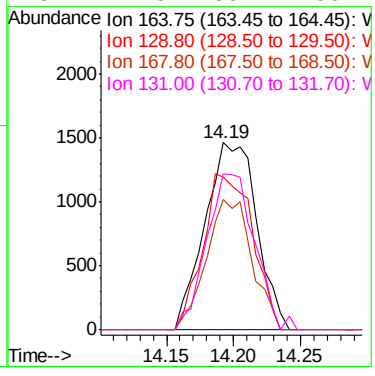


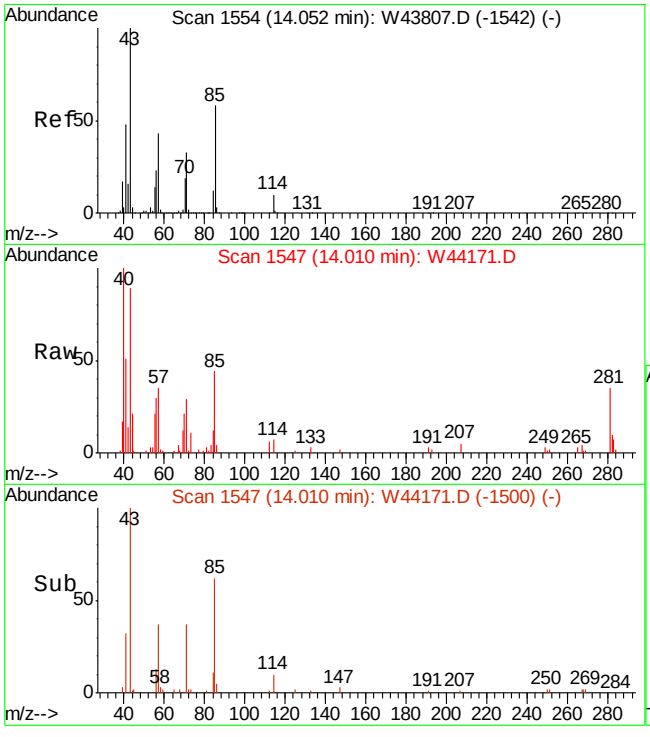


#72
TETRACHLOROETHYLENE
Concen: 0.13 PPBV
RT: 14.19 min Scan# 1577
Delta R.T. -0.02 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion:164 Resp: 3932

Ion	Ratio	Lower	Upper
164	100		
129	79.3	62.5	102.5
168	61.1	41.7	81.7
131	77.0	59.1	99.1

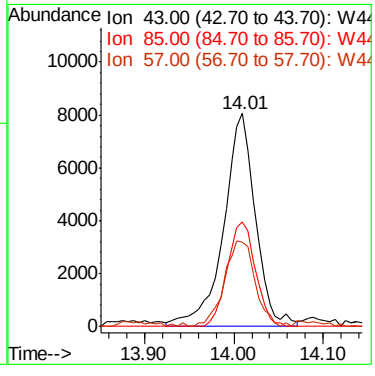


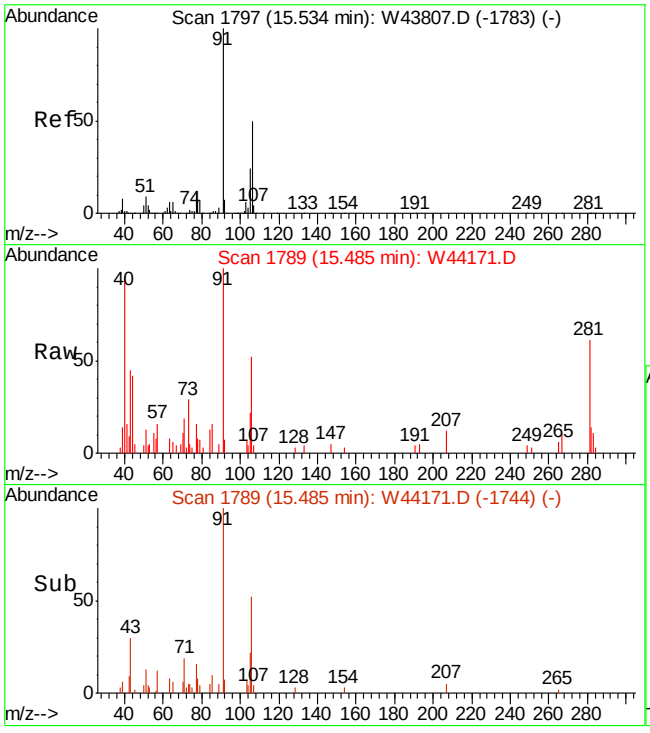


#75
OCTANE
Concen: 0.45 PPBV
RT: 14.01 min Scan# 1547
Delta R.T. -0.01 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion: 43 Resp: 19986

Ion	Ratio	Lower	Upper
43	100		
85	43.4	41.1	61.7
57	38.7	33.4	50.2

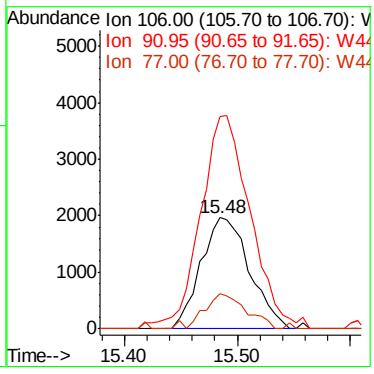


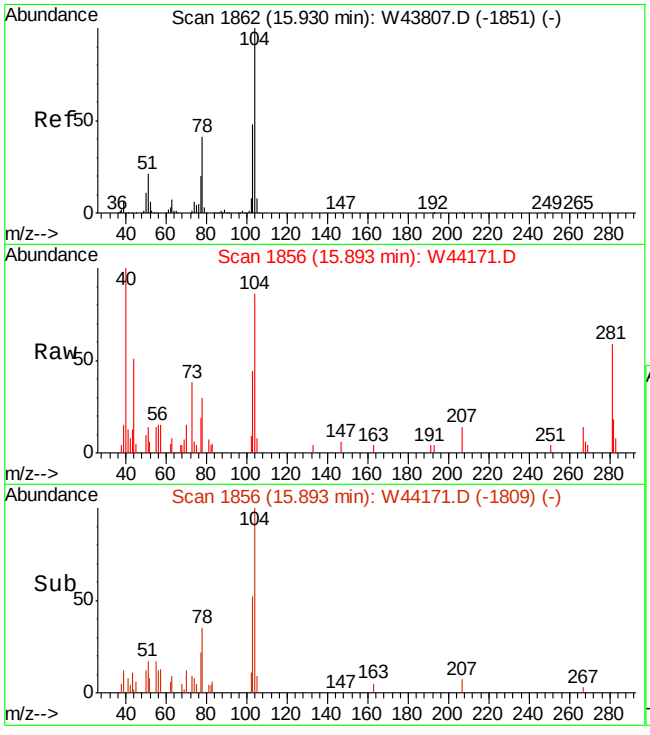


#79
m,p-XYLENE
Concen: 0.18 PPBV
RT: 15.48 min Scan# 1789
Delta R.T. -0.02 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion:106 Resp: 5864

Ion	Ratio	Lower	Upper
106	100		
91	190.8	151.2	226.8
77	31.4	18.7	28.1#

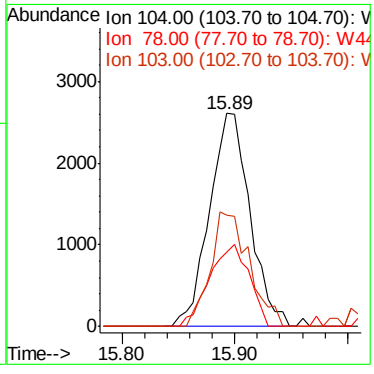




#81
STYRENE
Concen: 0.14 PPBV
RT: 15.89 min Scan# 1856
Delta R.T. -0.01 min
Lab File: W44171.D
Acq: 19 Oct 2013 2:26 am

Tgt Ion:104 Resp: 6493

Ion	Ratio	Lower	Upper
104	100		
78	37.8	18.7	58.7
103	51.5	27.3	67.3



Manual Integration Approval Summary

Sample Number:	JB50276-5	**Method:**	TO-15
Lab FileID:	W44171.D	**Analyst approved:**	10/22/13 17:52 Dana Tryon
Injection Time:	10/19/13 02:26	**Supervisor approved:**	10/23/13 06:28 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		5.35	Missed peak

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/23/13 06:28

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44228.D Vial: 7
Acq On : 22 Oct 2013 5:20 pm Operator: danat
Sample : jb50276-5 Inst : MSW
Misc : MS56739,VW1771,10,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 17:44:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

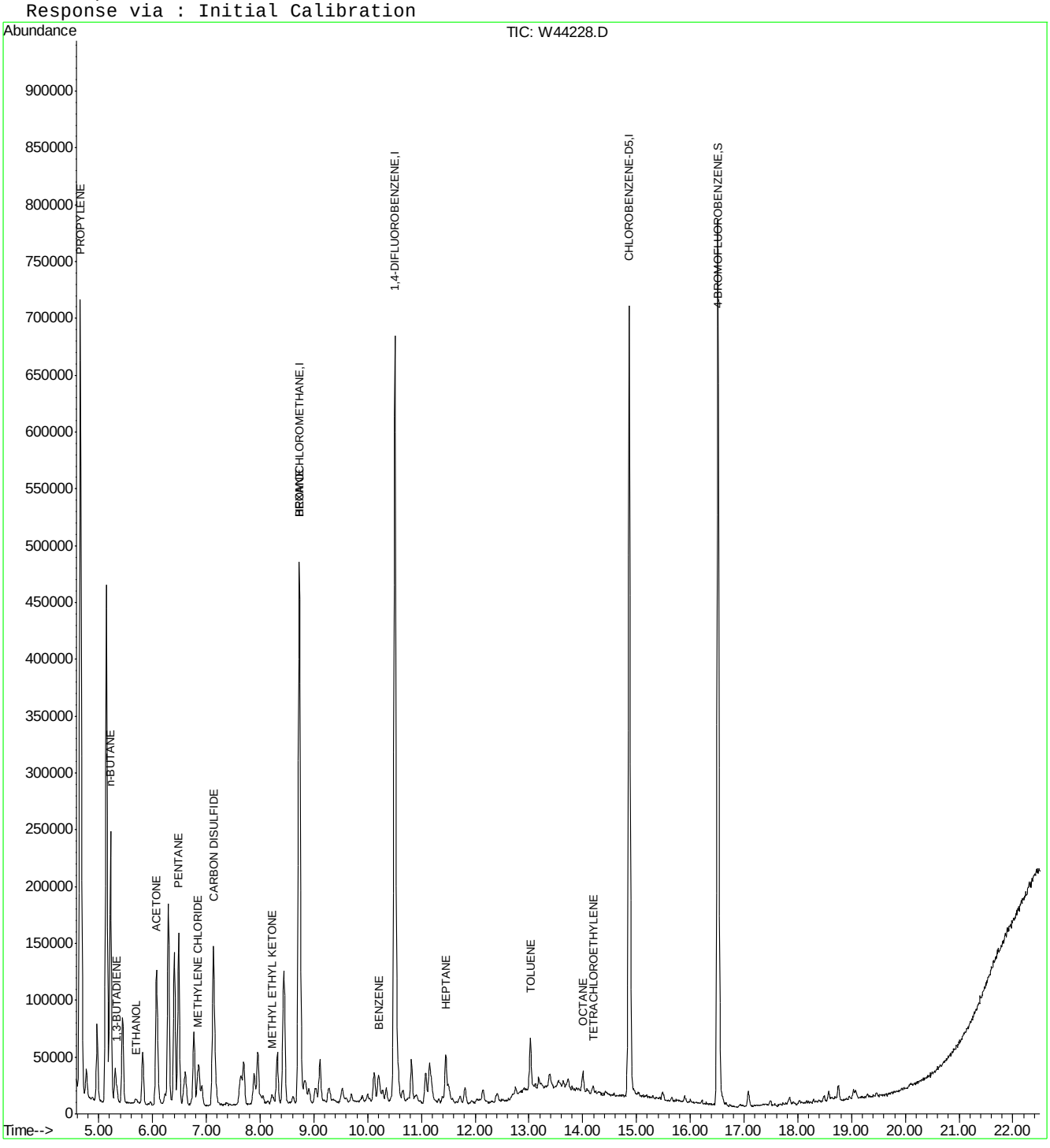
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	173455	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.51	114	829990	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	313290	10.00	PPBV	-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	379556	10.21	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.10%			
Target Compounds						Qvalue
6) PROPYLENE	4.66	41	480635	29.50	PPBV	95
10) 1,3-BUTADIENE	5.34	54	7473m	0.46	PPBV	
11) n-BUTANE	5.22	58	38319	8.72	PPBV	93
20) ACETONE	6.08	58	23267	2.06	PPBV #	11
22) PENTANE	6.49	57	20474	3.63	PPBV	97
26) CARBON DISULFIDE	7.13	76	303974	5.05	PPBV	99
27) ETHANOL	5.71	45	3994	0.53	PPBV #	91
30) METHYLENE CHLORIDE	6.83	84	13419	0.59	PPBV	98
37) HEXANE	8.74	57	55110	1.57	PPBV	91
40) METHYL ETHYL KETONE	8.22	72	4897	0.47	PPBV #	70
51) BENZENE	10.20	78	24529	0.38	PPBV	94
62) HEPTANE	11.45	43	21567	0.61	PPBV	98
66) TOLUENE	13.02	92	29172	0.65	PPBV	97
72) TETRACHLOROETHYLENE	14.20	164	2049	0.07	PPBV	92
75) OCTANE	14.00	43	8877	0.22	PPBV	95

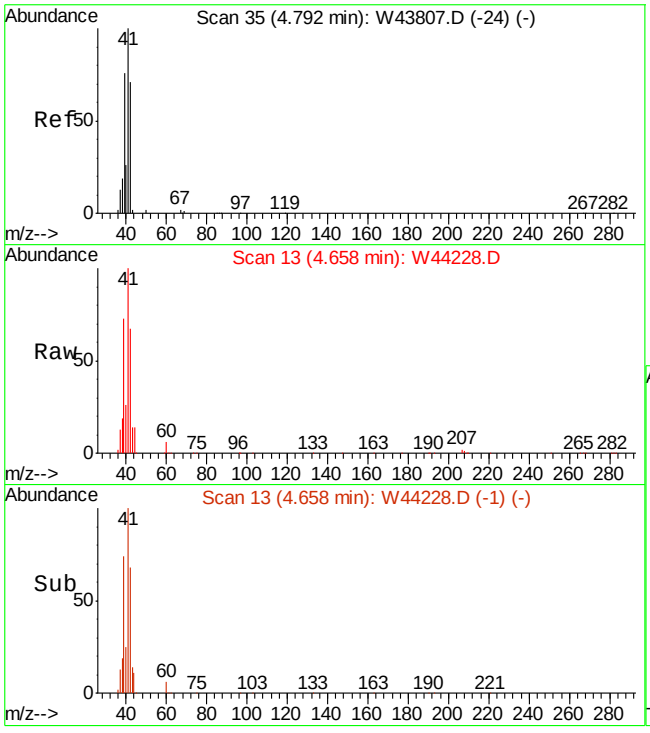
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44228.D Vial: 7
Acq On : 22 Oct 2013 5:20 pm Operator: danat
Sample : jb50276-5 Inst : MSW
Misc : MS56739,VW1771,10,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 17:46 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

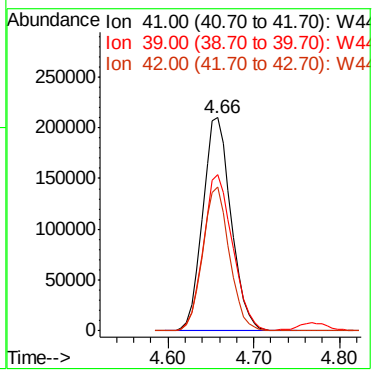


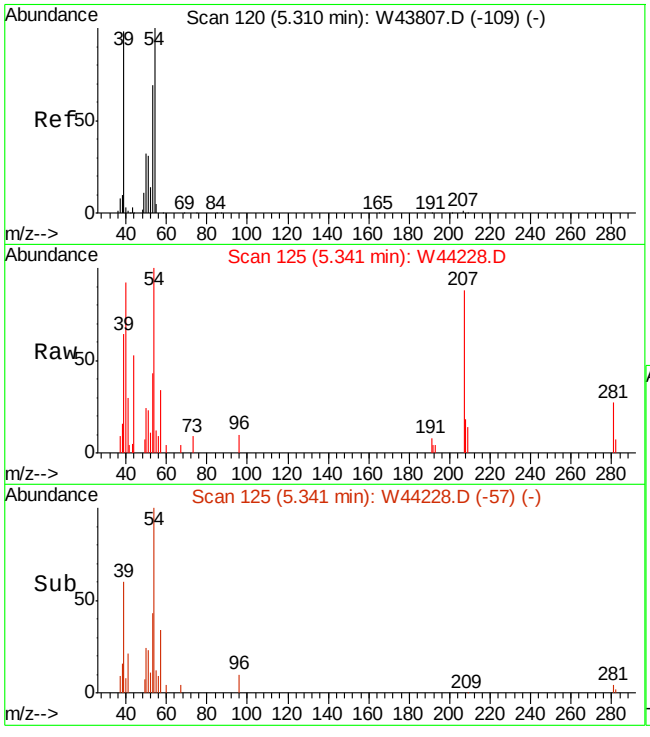


#6
PROPYLENE
Concen: 29.50 PPBV
RT: 4.66 min Scan# 13
Delta R.T. -0.05 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 41 Resp: 480635

Ion	Ratio	Lower	Upper
41	100		
39	73.5	48.7	88.7
42	67.4	44.9	84.9

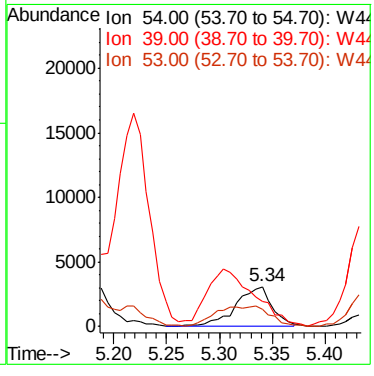


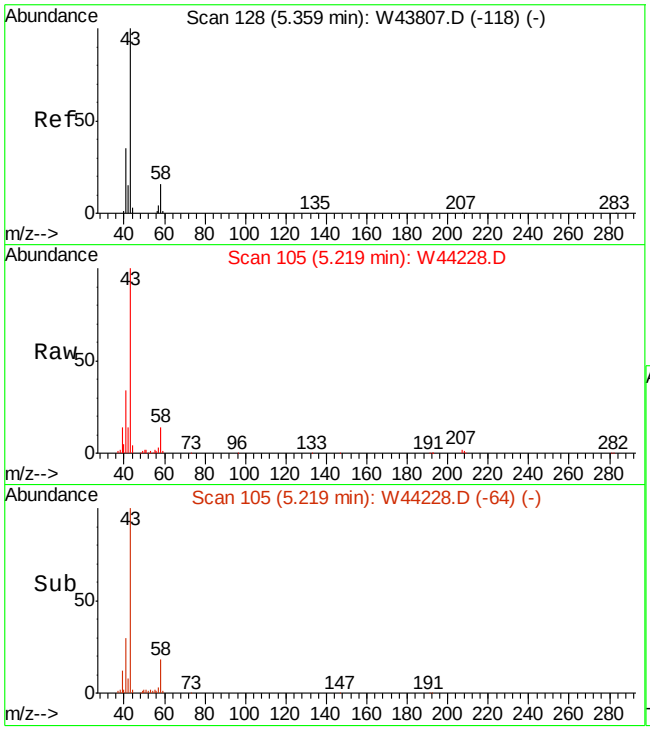


#10
1,3-BUTADIENE
Concen: 0.46 PPBV m
RT: 5.34 min Scan# 125
Delta R.T. 0.12 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 54 Resp: 7473

Ion	Ratio	Lower	Upper
54	100		
39	0.0	100.8	140.8#
53	0.0	51.2	91.2#

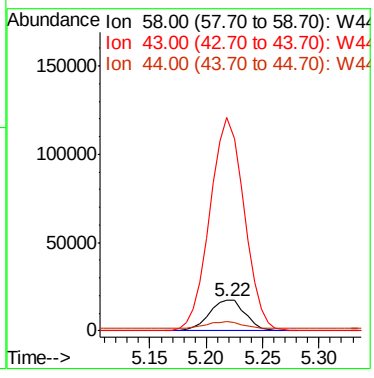


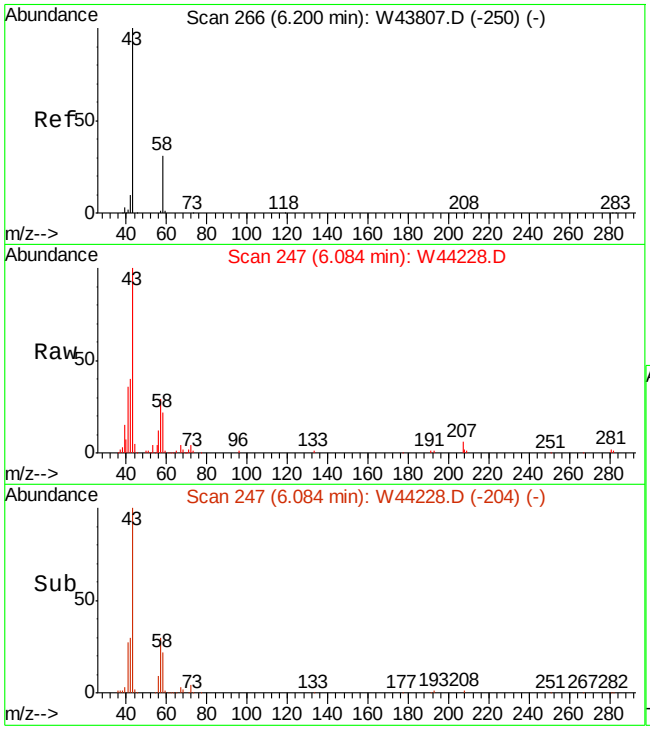


#11
n-BUTANE
Concen: 8.72 PPBV
RT: 5.22 min Scan# 105
Delta R.T. -0.05 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 58 Resp: 38319

Ion	Ratio	Lower	Upper
58	100		
43	667.4	552.0	828.0
44	23.3	20.4	30.6

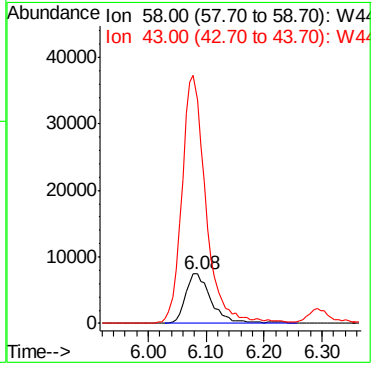


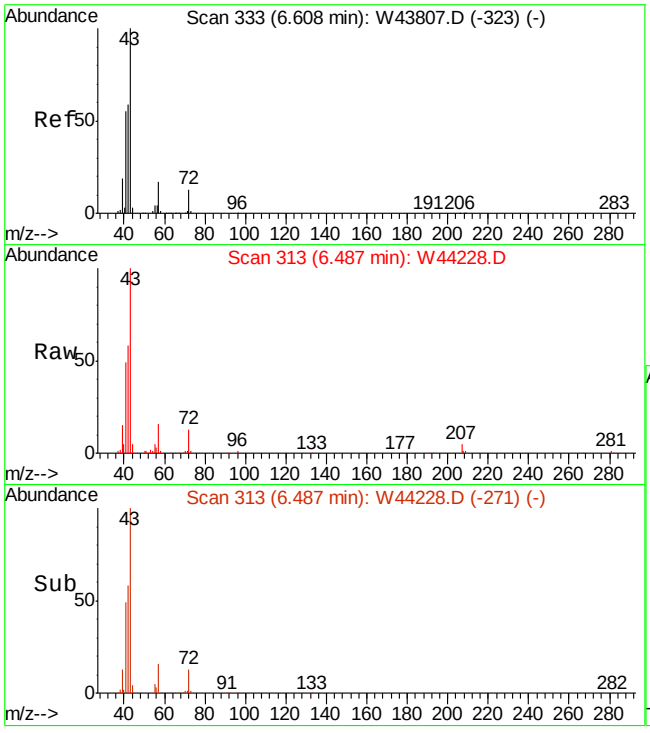


#20
ACETONE
Concen: 2.06 PPBV
RT: 6.08 min Scan# 247
Delta R.T. -0.04 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 58 Resp: 23267

Ion	Ratio	Lower	Upper
58	100		
43	461.3	270.7	310.7#

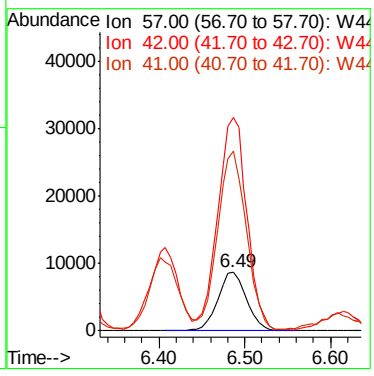


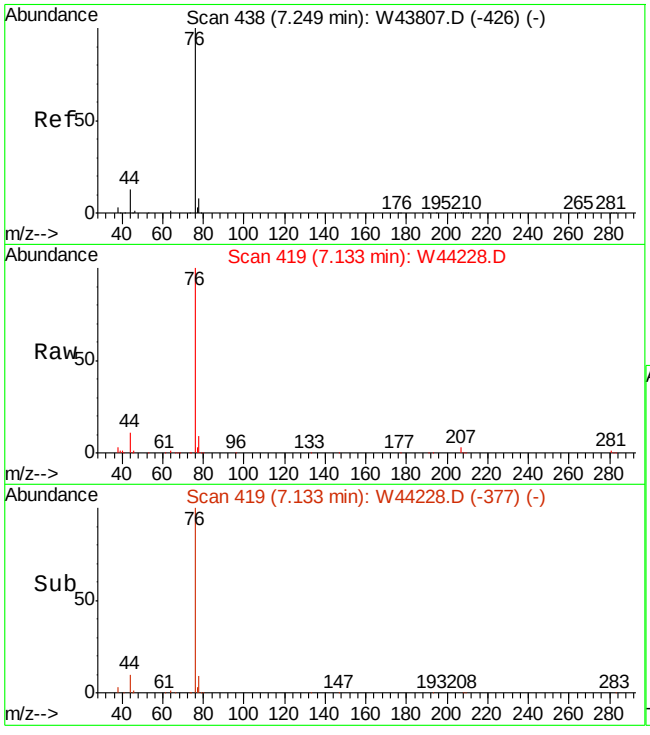


#22
PENTANE
Concen: 3.63 PPBV
RT: 6.49 min Scan# 313
Delta R.T. -0.04 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 57 Resp: 20474

Ion	Ratio	Lower	Upper
57	100		
42	363.6	352.7	392.7
41	307.8	286.0	326.0

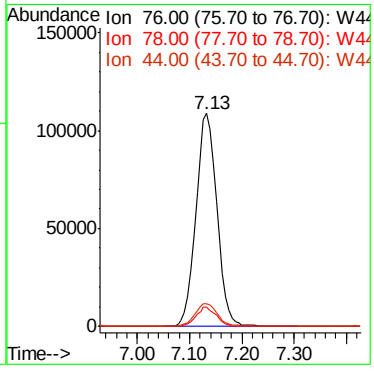


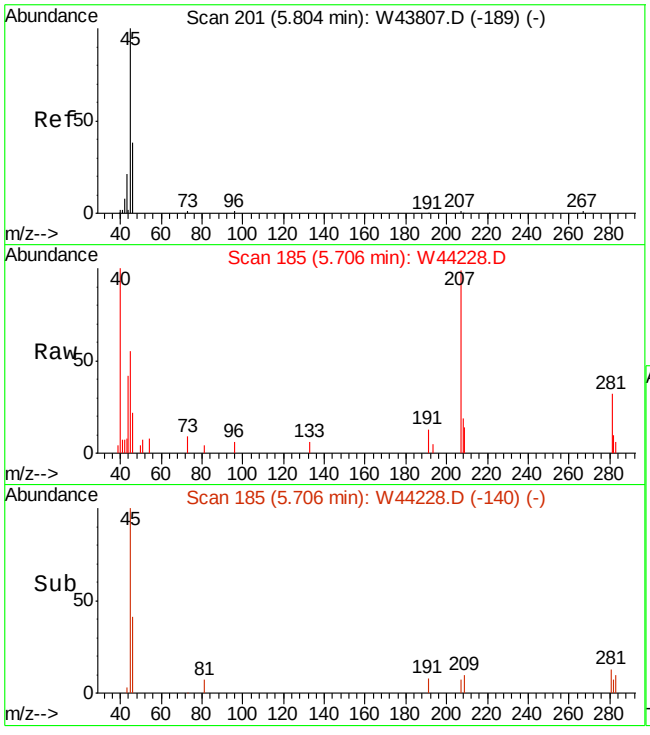


#26
CARBON DISULFIDE
Concen: 5.05 PPBV
RT: 7.13 min Scan# 419
Delta R.T. -0.04 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 76 Resp: 303974

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	29.0
44	10.9	0.0	31.4

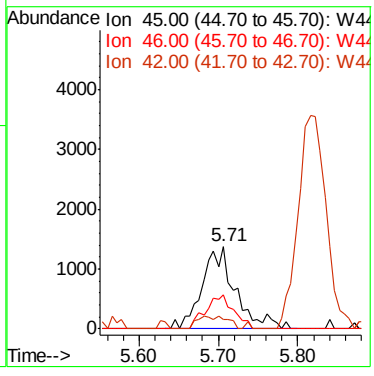


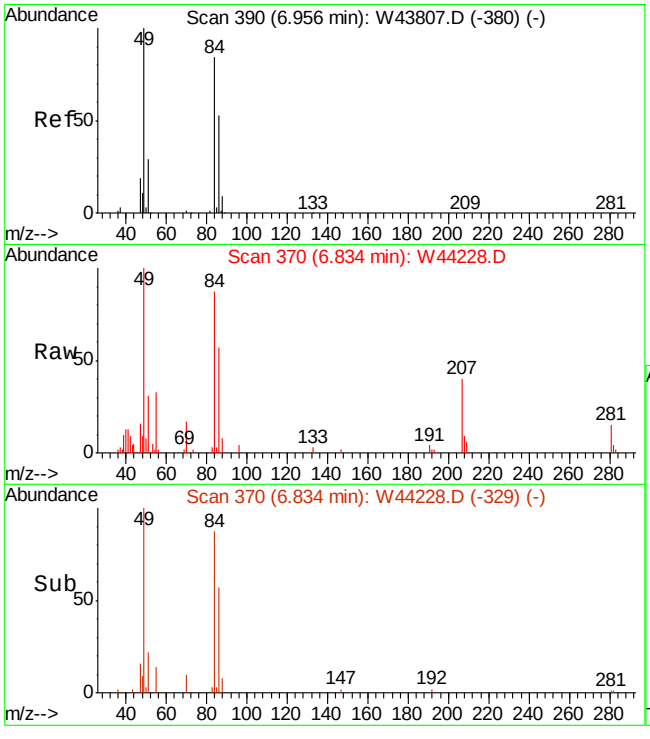


#27
ETHANOL
Concen: 0.53 PPBV
RT: 5.71 min Scan# 185
Delta R.T. -0.02 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 45 Resp: 3994

Ion	Ratio	Lower	Upper
45	100		
46	34.4	18.3	58.3
42	0.0	0.0	27.7

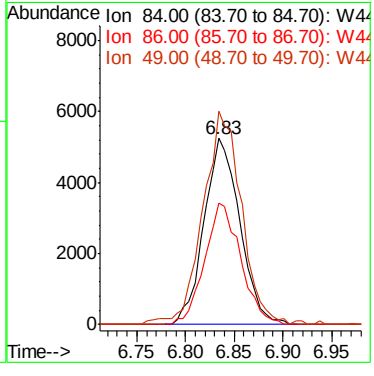


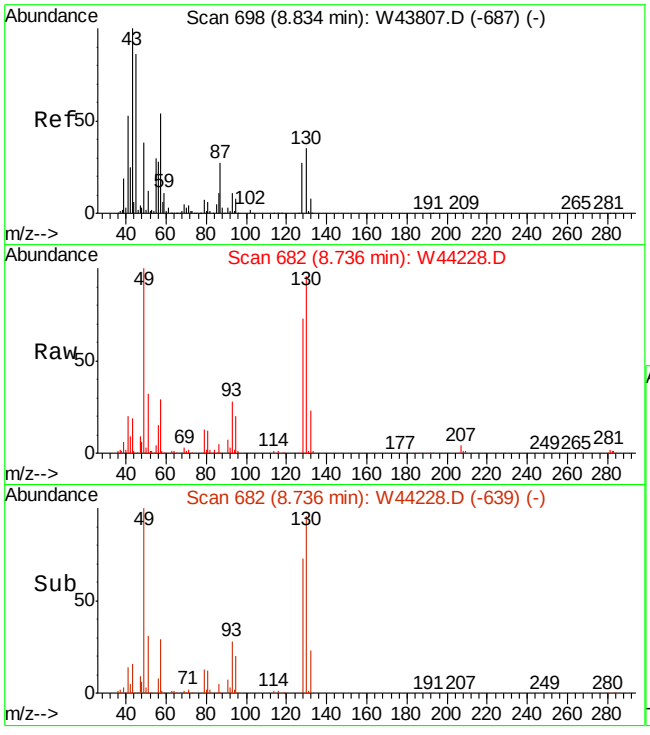


#30
METHYLENE CHLORIDE
Concen: 0.59 PPBV
RT: 6.83 min Scan# 370
Delta R.T. -0.05 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 84 Resp: 13419

Ion	Ratio	Lower	Upper
84	100		
86	65.2	43.2	83.2
49	122.7	0.0	320.8

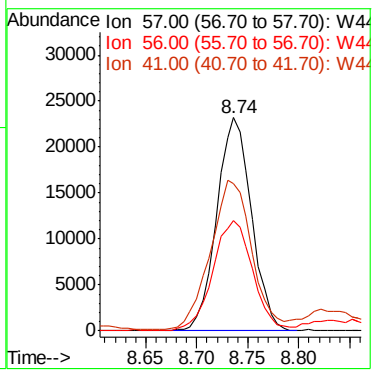


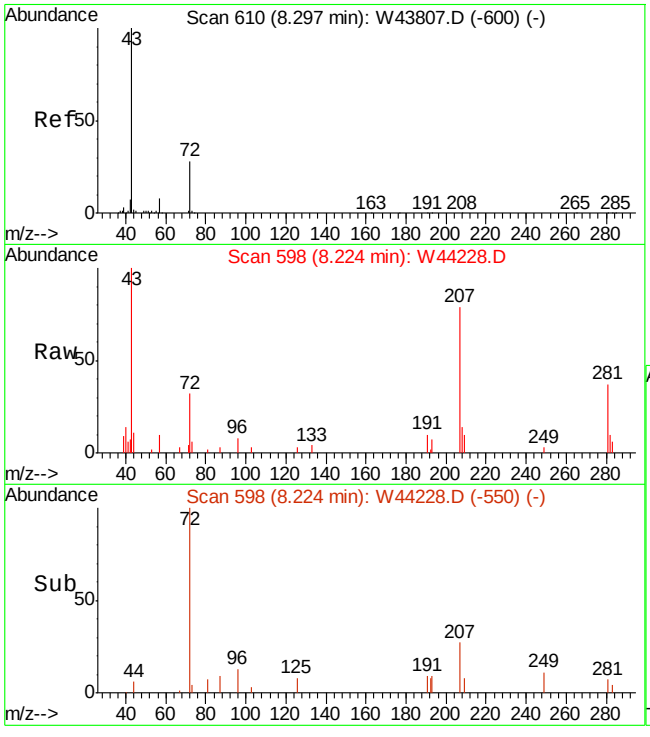


#37
HEXANE
Concen: 1.57 PPBV
RT: 8.74 min Scan# 682
Delta R.T. -0.04 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 57 Resp: 55110

Ion	Ratio	Lower	Upper
57	100		
56	59.6	32.2	72.2
41	86.9	74.7	114.7

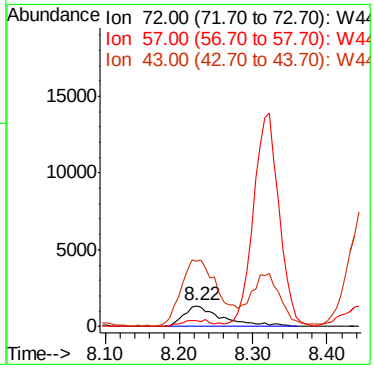




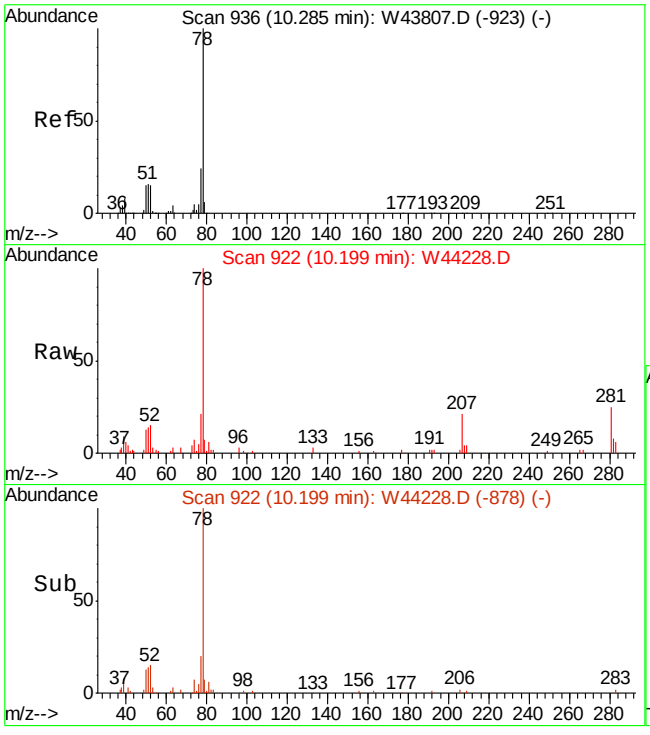
#40
METHYL ETHYL KETONE
Concen: 0.47 PPBV
RT: 8.22 min Scan# 598
Delta R.T. -0.01 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 72 Resp: 4897

Ion	Ratio	Lower	Upper
72	100		
57	31.1	10.3	50.3
43	310.9	364.5	404.5#



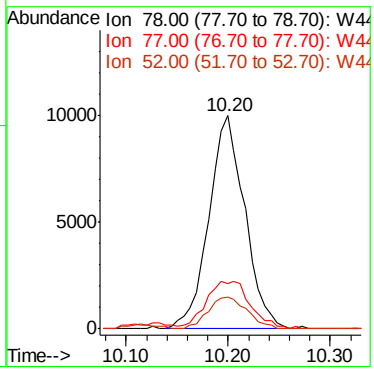
7.1.8

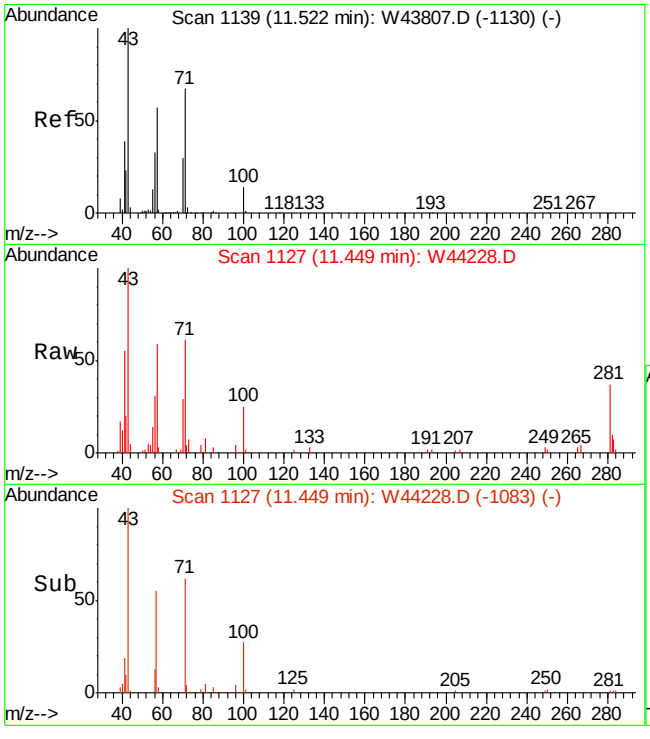


#51
BENZENE
Concen: 0.38 PPBV
RT: 10.20 min Scan# 922
Delta R.T. -0.03 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 78 Resp: 24529

Ion	Ratio	Lower	Upper
78	100		
77	27.5	3.7	43.7
52	16.0	0.0	35.0

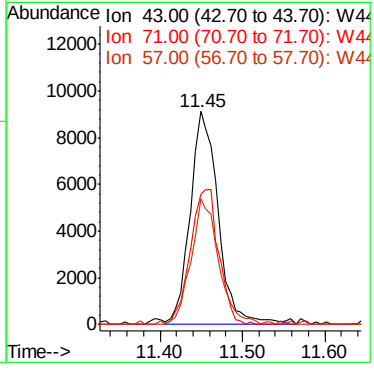




#62
HEPTANE
Concen: 0.61 PPBV
RT: 11.45 min Scan# 1127
Delta R.T. -0.03 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

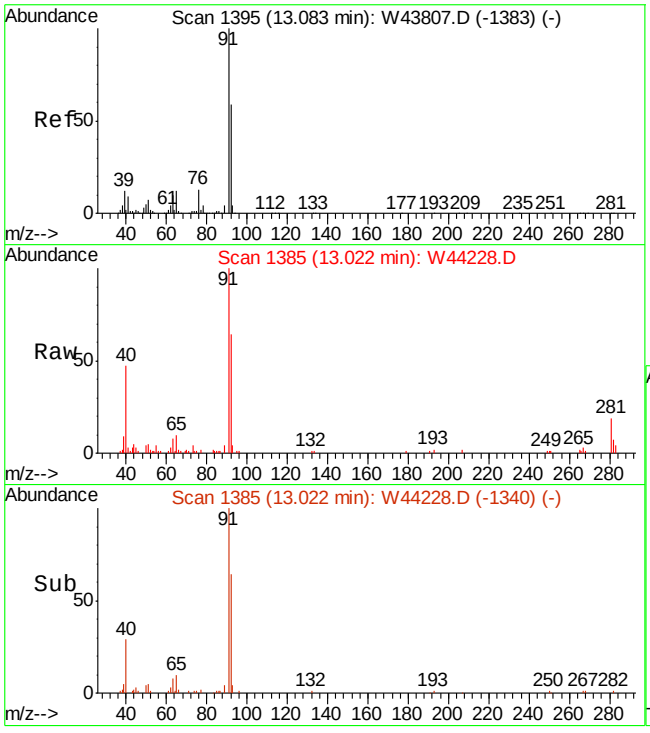
Tgt Ion: 43 Resp: 21567

Ion	Ratio	Lower	Upper
43	100		
71	64.0	43.7	83.7
57	58.0	34.7	74.7



7.1.8

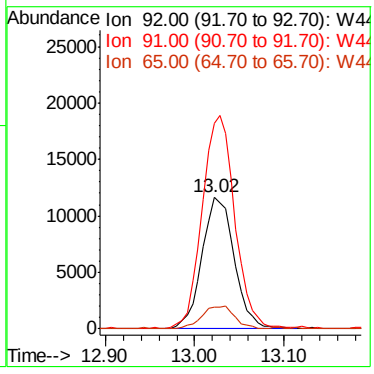
7

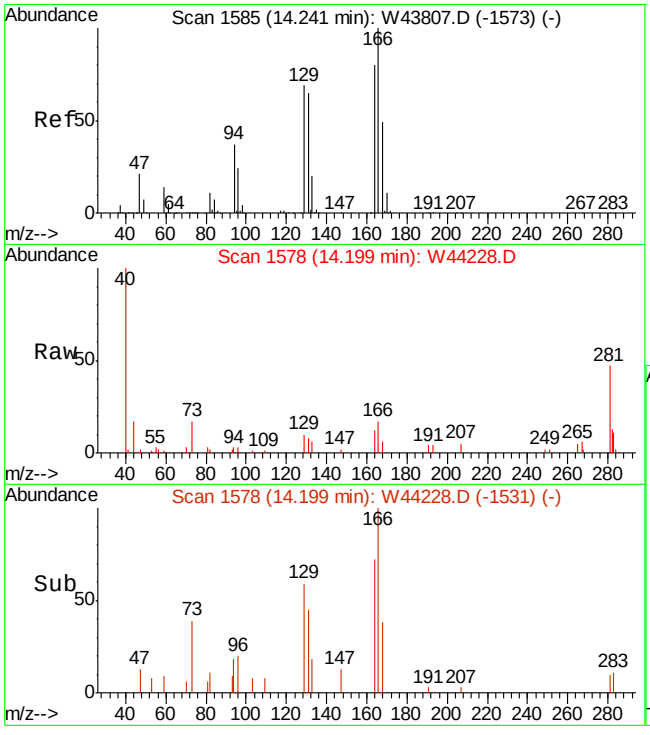


#66
TOLUENE
Concen: 0.65 PPBV
RT: 13.02 min Scan# 1385
Delta R.T. -0.02 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 92 Resp: 29172

Ion	Ratio	Lower	Upper
92	100		
91	164.5	148.0	188.0
65	17.3	0.5	40.5

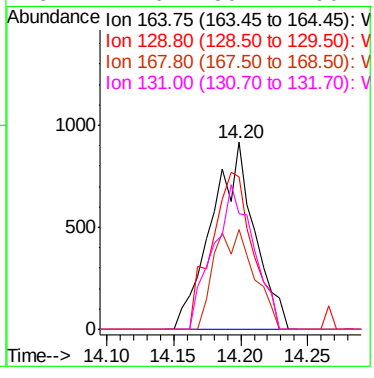


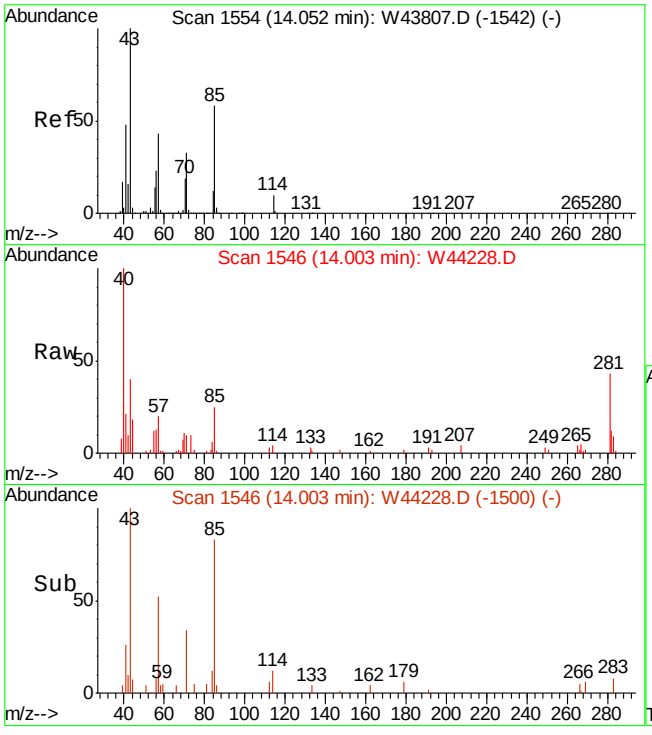


#72
TETRACHLOROETHYLENE
Concen: 0.07 PPBV
RT: 14.20 min Scan# 1578
Delta R.T. -0.01 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion:164 Resp: 2049

Ion	Ratio	Lower	Upper
164	100		
129	79.8	62.5	102.5
168	49.4	41.7	81.7
131	71.9	59.1	99.1

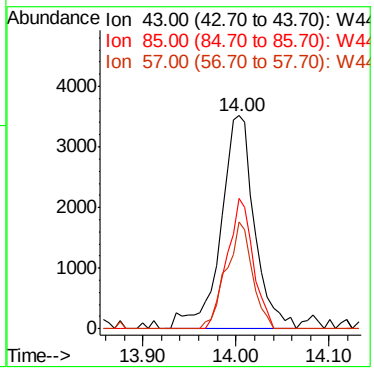




#75
OCTANE
Concen: 0.22 PPBV
RT: 14.00 min Scan# 1546
Delta R.T. -0.02 min
Lab File: W44228.D
Acq: 22 Oct 2013 5:20 pm

Tgt Ion: 43 Resp: 8877

Ion	Ratio	Lower	Upper
43	100		
85	47.4	41.1	61.7
57	39.0	33.4	50.2



7.1.8

7

Manual Integration Approval Summary

Sample Number:	JB50276-5	**Method:**	TO-15
Lab FileID:	W44228.D	**Analyst approved:**	10/22/13 17:47 Dana Tryon
Injection Time:	10/22/13 17:20	**Supervisor approved:**	10/23/13 06:28 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		5.34	Missed peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44123.D Vial: 1
Acq On : 17 Oct 2013 12:30 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 13:24:39 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	171073	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	829405	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	338586	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	408761	10.17	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 101.70%

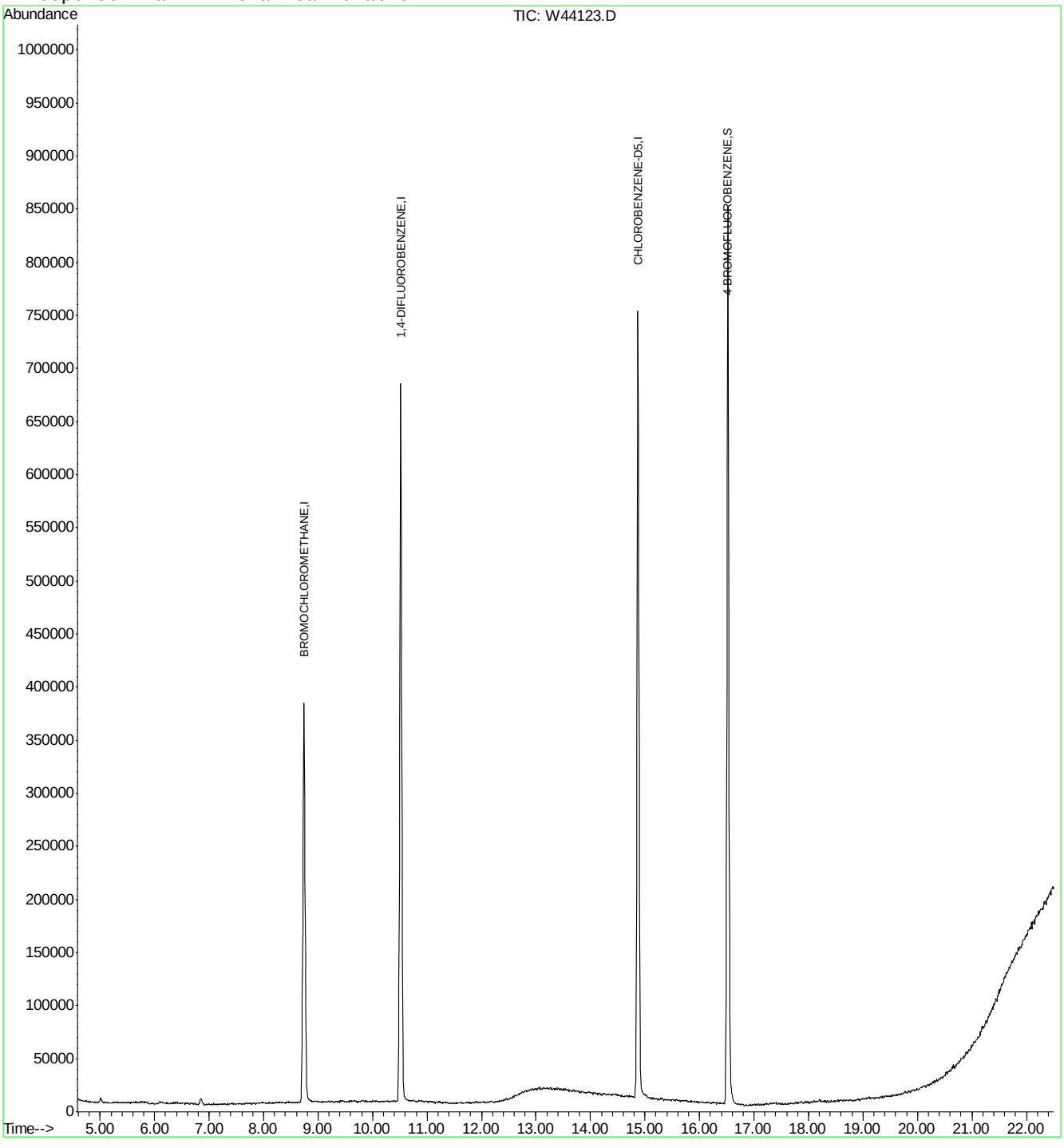
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44123.D Vial: 1
Acq On : 17 Oct 2013 12:30 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:47 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44150.D Vial: 1
Acq On : 18 Oct 2013 12:19 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 12:46:43 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	162914	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.52	114	837023	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	338258	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	372319	9.28	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 92.80%

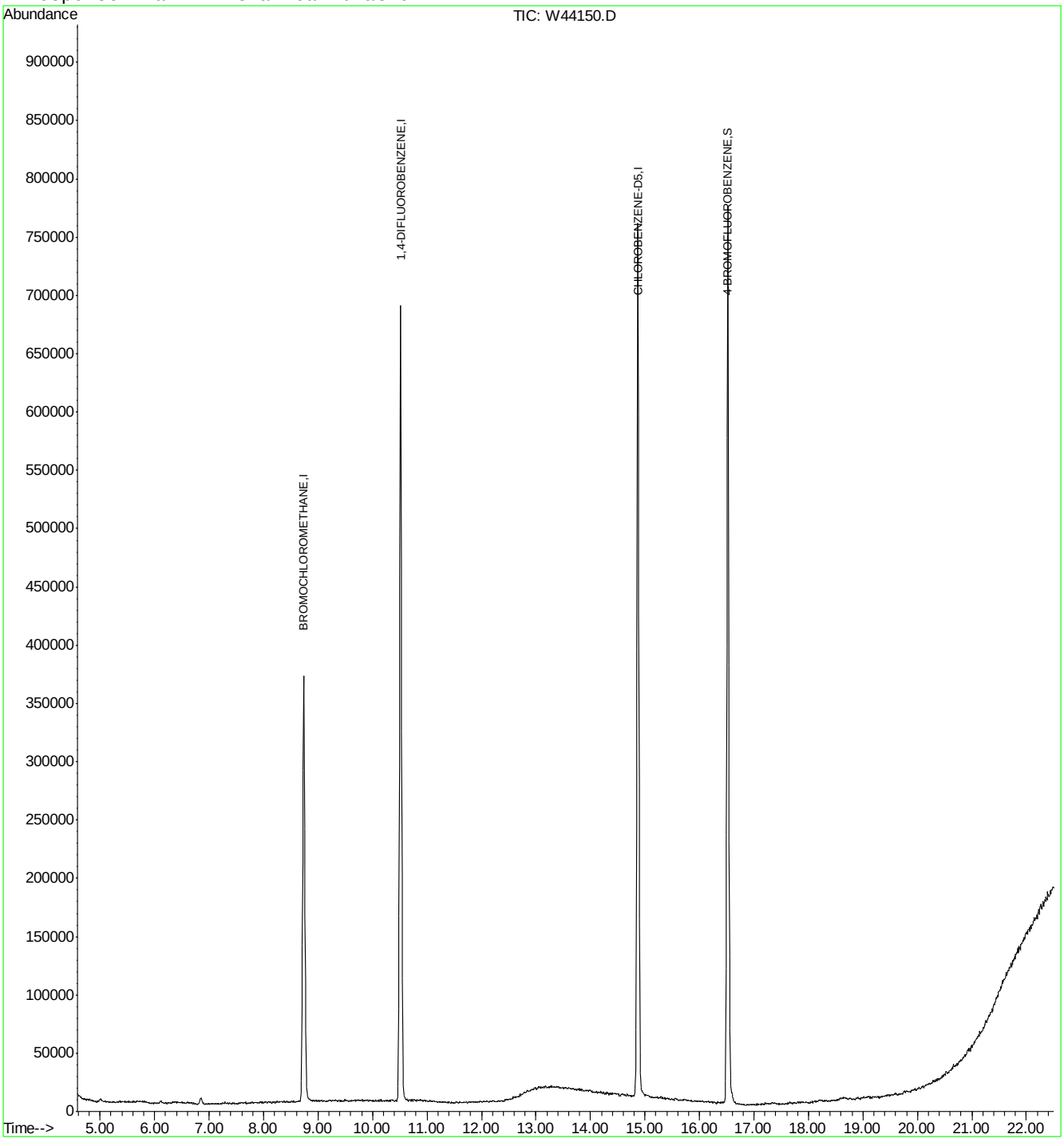
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44150.D Vial: 1
Acq On : 18 Oct 2013 12:19 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 17:00 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44222.D Vial: 1
Acq On : 22 Oct 2013 1:07 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS57076,VW1771,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 13:30:33 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	166941	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.50	114	817979	10.00	PPBV	-0.04
69) CHLOROBENZENE-D5	14.86	82	325687	10.00	PPBV	-0.02

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	386799	10.01	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 100.10%

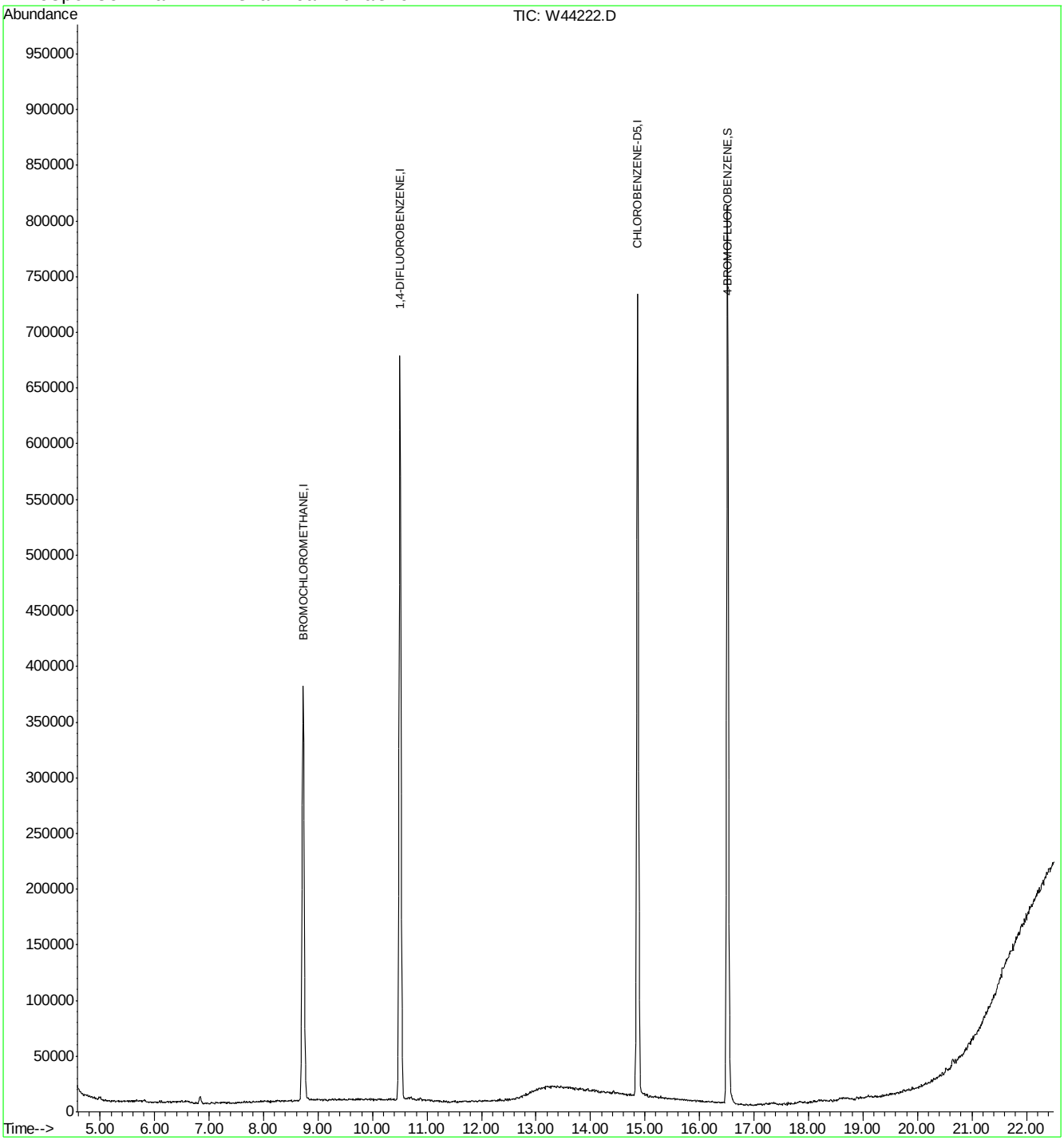
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44222.D Vial: 1
Acq On : 22 Oct 2013 1:07 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS57076,VW1771,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 13:31 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36337.D Vial: 5
Acq On : 7 Oct 2013 12:59 pm Operator: YOUMINH
Sample : MB Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:57:01 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	131285	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.88	114	607940	10.00	PPBV	-0.08
68) CHLOROBENZENE-D5	13.03	82	227800	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	235654	10.00	PPBV	-0.07

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.66	95	214266	8.37	PPBV	-0.07

Spiked Amount 10.000 Range 65 - 128 Recovery = 83.70%

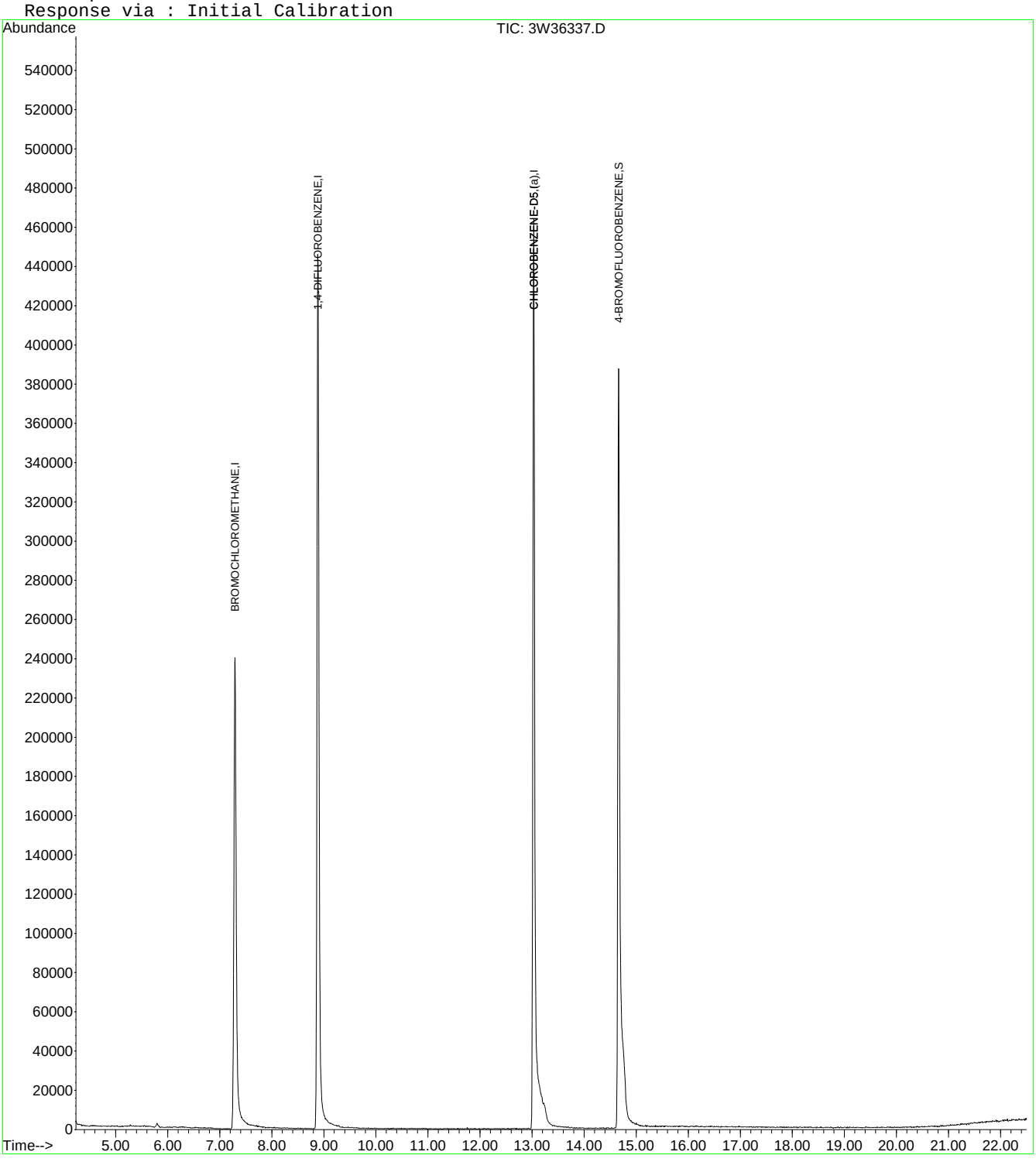
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36337.D M3W1350.M Tue Oct 08 10:25:07 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36337.D Vial: 5
Acq On : 7 Oct 2013 12:59 pm Operator: YOUMINH
Sample : MB Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44120.D Vial: 3
Acq On : 17 Oct 2013 10:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 10:29:32 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	177164	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	876095	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	383931	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	499406	10.96	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.60%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	44593	9.16	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.74	85	478313	9.63	PPBV	99
6) PROPYLENE	4.68	41	149789	9.00	PPBV	99
7) FREON 114	4.97	85	491690	9.57	PPBV	99
8) CHLOROMETHANE	4.89	52	53285	9.08	PPBV	93
9) VINYL CHLORIDE	5.08	62	203943	9.62	PPBV	100
10) 1,3-BUTADIENE	5.19	54	153362	9.20	PPBV	97
11) n-BUTANE	5.24	58	42434	9.46	PPBV	96
12) BROMOMETHANE	5.44	94	188047	9.54	PPBV	100
13) CHLOROETHANE	5.58	64	112422	9.53	PPBV	96
14) DICHLOROFLUOROMETHANE	5.64	67	409496	9.54	PPBV	100
15) ACROLEIN	5.97	56	77098	8.85	PPBV	99
16) FREON 123	5.97	83	447815	9.44	PPBV #	99
17) FREON 123A	6.02	117	297086	9.59	PPBV	97
18) TRICHLOROFLUOROMETHANE	6.22	101	482903	9.66	PPBV	99
19) ISOPROPYL ALCOHOL	6.28	45	274038	9.02	PPBV	98
20) ACETONE	6.09	58	91305	7.92	PPBV	94
21) ACRYLONITRILE	6.46	53	146755	9.26	PPBV	100
22) PENTANE	6.51	57	52713	8.75	PPBV	97
24) IODOMETHANE	6.71	142	547977	9.86	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.76	96	195740	9.44	PPBV	98
26) CARBON DISULFIDE	7.15	76	535255	8.71	PPBV	99
27) ETHANOL	5.68	45	65575	8.44	PPBV	97
28) ACETONITRILE	5.86	41	139835	8.61	PPBV	91
29) BROMOETHENE	5.88	106	204279	9.81	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	206023	8.87	PPBV	98
31) 3-CHLOROPROPENE	6.96	76	92246	9.53	PPBV	97
32) FREON 113	7.07	151	370008	9.33	PPBV	98
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	207853	9.41	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.80	59	345228	10.55	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	529719	8.86	PPBV	99
36) TETRAHYDROFURAN	9.27	72	91453	8.61	PPBV	96
37) HEXANE	8.75	57	324715	9.04	PPBV	99
38) VINYL ACETATE	7.95	86	53541	9.64	PPBV #	87
39) 1,1-DICHLOROETHANE	7.85	63	352865	9.22	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	96921	9.07	PPBV #	91
41) cis-1,2-DICHLOROETHYLENE	8.59	96	220408	9.82	PPBV	96
42) DI-ISOPROPYL ETHER	8.75	45	650483	8.75	PPBV	99
43) ETHYL ACETATE	8.78	61	57947	8.64	PPBV #	1
44) METHYL ACRYLATE	8.77	55	355346	9.24	PPBV	99
45) CHLOROFORM	8.86	83	393148	9.18	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44120.D Vial: 3
Acq On : 17 Oct 2013 10:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 10:29:32 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.57	57	384866	9.10	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	402241	9.24	PPBV		99
48)	CARBON TETRACHLORIDE	10.35	117	428752	9.88	PPBV		100
49)	1,2-DICHLOROETHANE	9.54	62	237489	9.24	PPBV		99
51)	BENZENE	10.21	78	638472	9.44	PPBV		100
52)	CYCLOHEXANE	10.47	84	299014	9.74	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.67	71	151463	9.75	PPBV		97
54)	TRICHLOROETHYLENE	11.21	95	271496	9.37	PPBV		98
55)	DIBROMOMETHANE	10.97	174	306257	10.32	PPBV		97
56)	1,2-DICHLOROPROPANE	10.99	63	231306	9.34	PPBV		99
57)	ETHYL ACRYLATE	10.97	55	417258	9.53	PPBV		99
58)	BROMODICHLOROMETHANE	11.18	83	441725	10.26	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	1040184	9.64	PPBV		100
60)	1,4-DIOXANE	11.25	88	118262	10.26	PPBV	#	76
61)	METHYL METHACRYLATE	11.39	69	221912	9.85	PPBV		95
62)	HEPTANE	11.47	43	356927	9.57	PPBV		98
64)	METHYL ISOBUTYL KETONE	12.10	43	407704	10.19	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.05	75	345365	9.37	PPBV		99
66)	TOLUENE	13.03	92	466228	9.84	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.57	75	333800	10.63	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.76	83	208889	9.53	PPBV		100
70)	ETHYL METHACRYLATE	13.29	69	359464	10.24	PPBV		98
71)	2-HEXANONE	13.31	43	381309	11.17	PPBV		97
72)	TETRACHLOROETHYLENE	14.20	164	341998	10.00	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.49	129	465332	10.98	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	381415	10.52	PPBV		100
75)	OCTANE	14.01	43	462747	9.41	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	338673	10.40	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	593216	10.02	PPBV		99
78)	ETHYLBENZENE	15.31	91	927979	9.81	PPBV		100
79)	m,p-XYLENE	15.50	106	744787	20.22	PPBV		99
80)	o-XYLENE	16.02	106	360964	10.32	PPBV		98
81)	STYRENE	15.90	104	542159	10.27	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	343406	9.95	PPBV		99
83)	NONANE	16.23	43	435377	9.41	PPBV		98
84)	BROMOFORM	15.61	173	474506	11.57	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	442780	10.19	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	1037214	10.02	PPBV		99
88)	BROMOBENZENE	16.78	156	326898	10.60	PPBV		97
89)	2-CHLOROTOLUENE	17.20	126	250070	10.29	PPBV	#	97
90)	n-PROPYLBENZENE	17.23	120	275406	10.40	PPBV		95
91)	4-ETHYLTOLUENE	17.39	105	903285	10.67	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	739368	10.16	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.65	118	365345	10.56	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	200575	10.11	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	700351	10.40	PPBV		100
96)	m-DICHLOROBENZENE	18.12	146	458153	11.19	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	490397	11.68	PPBV		99
98)	p-DICHLOROBENZENE	18.19	146	433303	11.05	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44120.D Vial: 3
Acq On : 17 Oct 2013 10:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 10:29:32 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

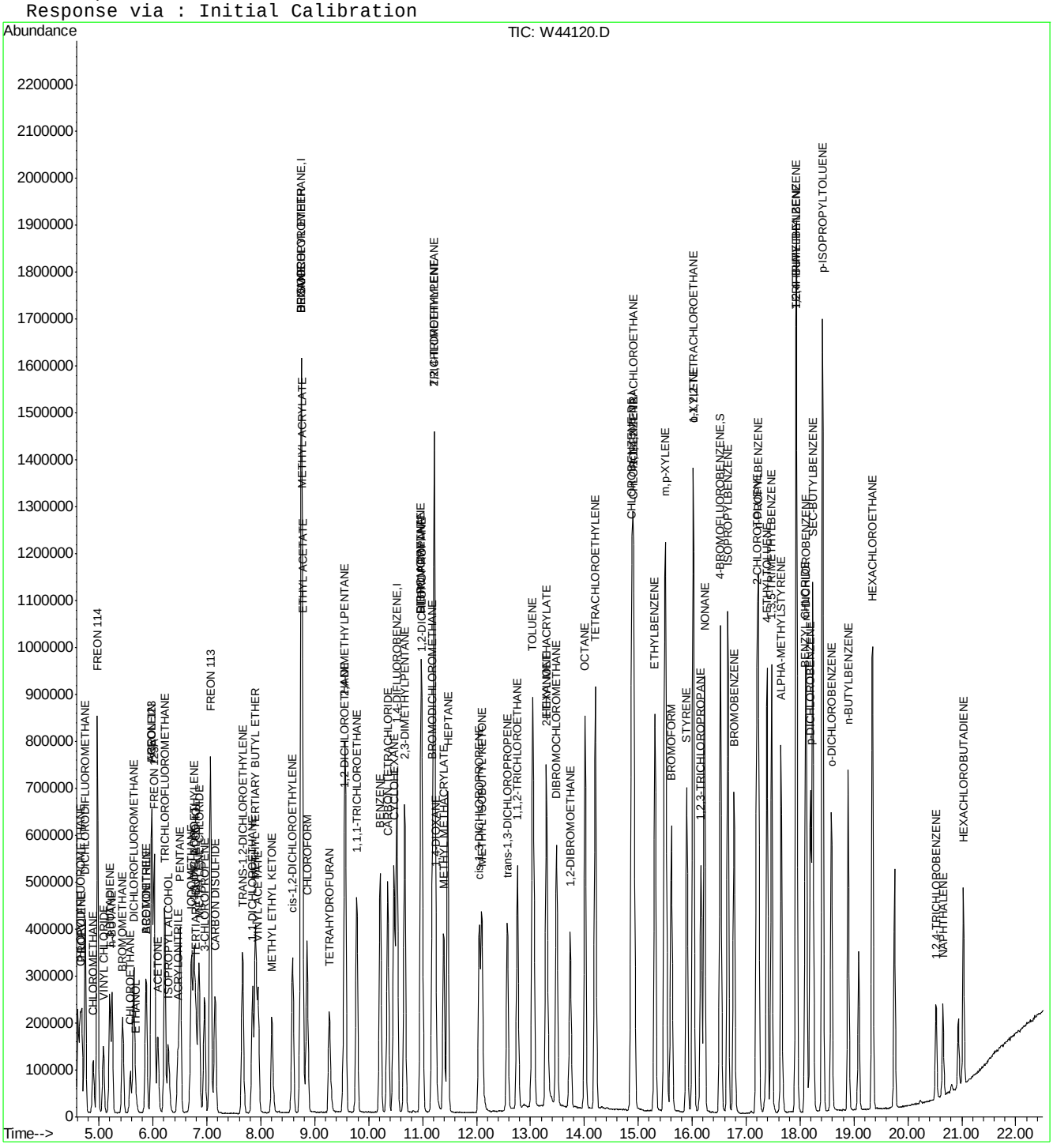
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	230156	10.31	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.41	134	223143	10.30	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	406046	10.94	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	166994	10.41	PPBV	94
103)	HEXACHLOROETHANE	19.34	201	291847	10.90	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	118045	9.06	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	96118	10.93	PPBV	99
106)	NAPHTHALENE	20.65	128	207584	11.40	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44120.D Vial: 3
Acq On : 17 Oct 2013 10:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:47 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44121.D Vial: 3
Acq On : 17 Oct 2013 10:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 11:23:35 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	178505	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	887649	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	388104	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	503662	10.94	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 109.40%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	44378	9.05	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.74	85	476071	9.52	PPBV	99
6) PROPYLENE	4.68	41	147317	8.79	PPBV	99
7) FREON 114	4.97	85	491104	9.49	PPBV	99
8) CHLOROMETHANE	4.88	52	54161	9.16	PPBV	95
9) VINYL CHLORIDE	5.08	62	203951	9.55	PPBV	100
10) 1,3-BUTADIENE	5.19	54	152860	9.10	PPBV	99
11) n-BUTANE	5.24	58	41785	9.24	PPBV	98
12) BROMOMETHANE	5.44	94	189853	9.56	PPBV	99
13) CHLOROETHANE	5.58	64	112808	9.49	PPBV	99
14) DICHLOROFLUOROMETHANE	5.64	67	407278	9.41	PPBV	99
15) ACROLEIN	5.97	56	76562	8.72	PPBV	98
16) FREON 123	5.97	83	448886	9.39	PPBV #	100
17) FREON 123A	6.02	117	300655	9.63	PPBV	96
18) TRICHLOROFLUOROMETHANE	6.22	101	486252	9.66	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	287892	9.40	PPBV	99
20) ACETONE	6.08	58	85124	7.32	PPBV	97
21) ACRYLONITRILE	6.46	53	143639	9.00	PPBV	100
22) PENTANE	6.51	57	52694	8.68	PPBV	97
24) IODOMETHANE	6.71	142	552614	9.87	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	199323	9.54	PPBV	96
26) CARBON DISULFIDE	7.15	76	539744	8.71	PPBV	99
27) ETHANOL	5.68	45	69197	8.84	PPBV	97
28) ACETONITRILE	5.86	41	138107	8.44	PPBV	98
29) BROMOETHENE	5.87	106	206779	9.86	PPBV	100
30) METHYLENE CHLORIDE	6.85	84	207989	8.89	PPBV	98
31) 3-CHLOROPROPENE	6.96	76	93698	9.60	PPBV	95
32) FREON 113	7.07	151	372651	9.32	PPBV	98
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	208634	9.37	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.79	59	367248	11.14	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	517481	8.59	PPBV	99
36) TETRAHYDROFURAN	9.27	72	88994	8.32	PPBV	95
37) HEXANE	8.75	57	328274	9.07	PPBV	97
38) VINYL ACETATE	7.95	86	51666	9.23	PPBV #	88
39) 1,1-DICHLOROETHANE	7.85	63	354472	9.19	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	92941	8.63	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.58	96	224472	9.93	PPBV	95
42) DI-ISOPROPYL ETHER	8.75	45	634483	8.47	PPBV	99
43) ETHYL ACETATE	8.77	61	56053	8.30	PPBV #	93
44) METHYL ACRYLATE	8.77	55	343436	8.87	PPBV	99
45) CHLOROFORM	8.86	83	392181	9.08	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44121.D Vial: 3
Acq On : 17 Oct 2013 10:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 11:23:35 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.57	57	389245	9.13	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	405614	9.25	PPBV		99
48)	CARBON TETRACHLORIDE	10.35	117	433117	9.90	PPBV		100
49)	1,2-DICHLOROETHANE	9.54	62	234296	9.05	PPBV		99
51)	BENZENE	10.21	78	640286	9.34	PPBV		99
52)	CYCLOHEXANE	10.47	84	302541	9.73	PPBV		98
53)	2,3-DIMETHYLPENTANE	10.67	71	153261	9.74	PPBV		96
54)	TRICHLOROETHYLENE	11.21	95	272884	9.30	PPBV		98
55)	DIBROMOMETHANE	10.97	174	301316	10.02	PPBV		98
56)	1,2-DICHLOROPROPANE	10.99	63	226676	9.03	PPBV		100
57)	ETHYL ACRYLATE	10.96	55	397612	8.96	PPBV		99
58)	BROMODICHLOROMETHANE	11.18	83	435264	9.97	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	1039835	9.51	PPBV		99
60)	1,4-DIOXANE	11.25	88	120124	10.29	PPBV	#	15
61)	METHYL METHACRYLATE	11.39	69	209117	9.17	PPBV		97
62)	HEPTANE	11.46	43	357233	9.45	PPBV		98
64)	METHYL ISOBUTYL KETONE	12.10	43	393563	9.70	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.05	75	336346	9.00	PPBV		99
66)	TOLUENE	13.03	92	458045	9.54	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.57	75	327686	10.30	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.76	83	205813	9.27	PPBV		100
70)	ETHYL METHACRYLATE	13.29	69	346946	9.78	PPBV		98
71)	2-HEXANONE	13.30	43	371635	10.77	PPBV		97
72)	TETRACHLOROETHYLENE	14.20	164	341031	9.87	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.49	129	455859	10.64	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	371394	10.14	PPBV		99
75)	OCTANE	14.01	43	452859	9.11	PPBV		96
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	331036	10.06	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	581815	9.72	PPBV		99
78)	ETHYLBENZENE	15.31	91	911691	9.53	PPBV		99
79)	m,p-XYLENE	15.50	106	727587	19.54	PPBV		100
80)	o-XYLENE	16.02	106	350283	9.90	PPBV		100
81)	STYRENE	15.90	104	526571	9.86	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	334012	9.57	PPBV		99
83)	NONANE	16.22	43	429946	9.20	PPBV		99
84)	BROMOFORM	15.61	173	465722	11.24	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	433048	9.86	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1011064	9.66	PPBV		99
88)	BROMOBENZENE	16.78	156	318998	10.23	PPBV		97
89)	2-CHLOROTOLUENE	17.20	126	243823	9.92	PPBV	#	98
90)	n-PROPYLBENZENE	17.22	120	267391	9.99	PPBV		96
91)	4-ETHYLTOLUENE	17.39	105	881224	10.30	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	728336	9.90	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.66	118	354344	10.13	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	197082	9.83	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	688798	10.11	PPBV		100
96)	m-DICHLOROBENZENE	18.12	146	444272	10.74	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	470634	11.09	PPBV		99
98)	p-DICHLOROBENZENE	18.19	146	419608	10.58	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44121.D Vial: 3
Acq On : 17 Oct 2013 10:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 11:23:35 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

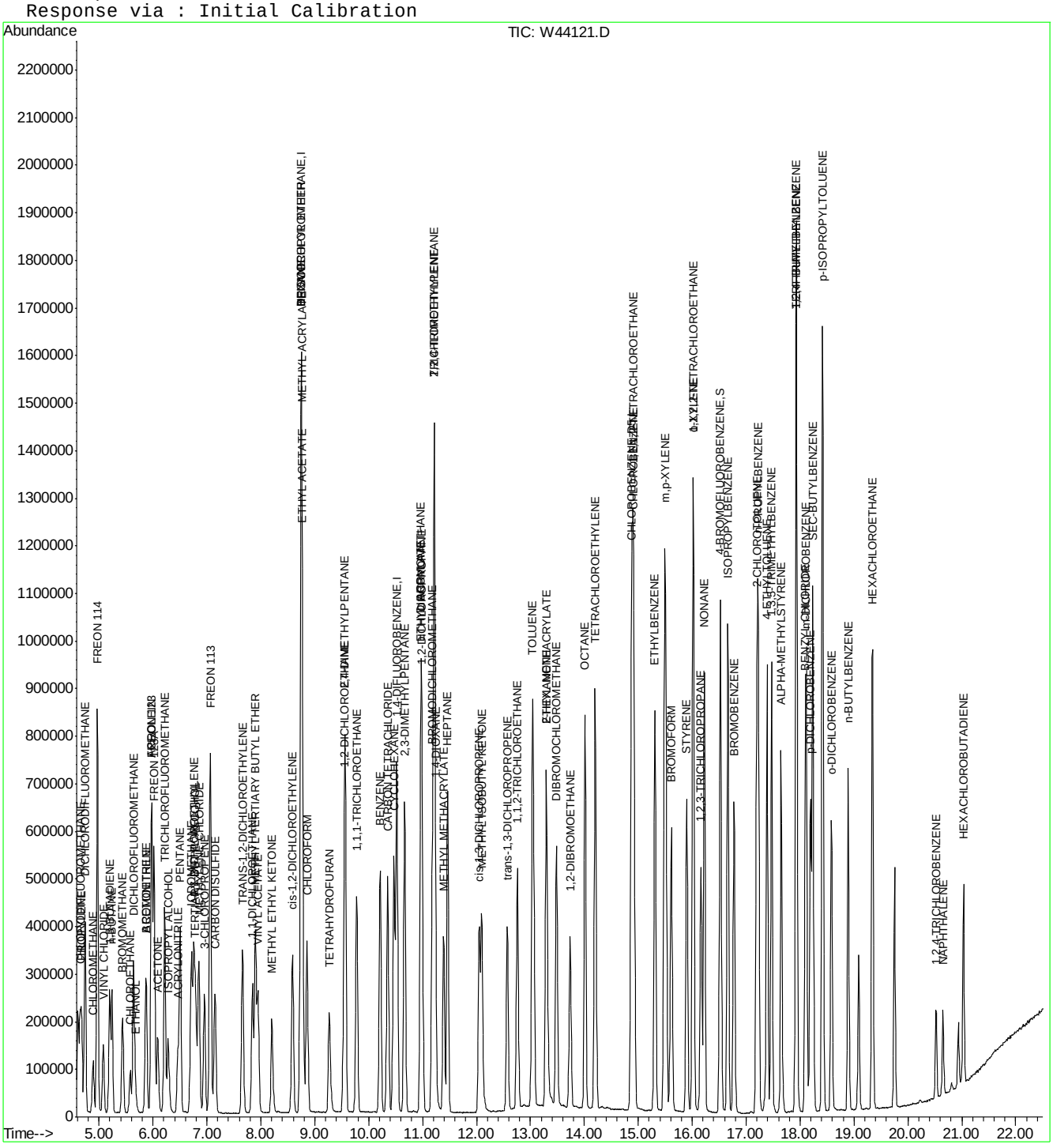
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	226230	10.03	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	218114	9.96	PPBV	99
101)	o-DICHLOROBENZENE	18.58	146	395370	10.54	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	161927	9.99	PPBV	94
103)	HEXACHLOROETHANE	19.34	201	288957	10.68	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	118135	8.97	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	88349	9.94	PPBV	98
106)	NAPHTHALENE	20.65	128	191549	10.41	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44121.D Vial: 3
Acq On : 17 Oct 2013 10:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:47 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44147.D Vial: 3
Acq On : 18 Oct 2013 10:20 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:13:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	165551	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	861327	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	369568	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	453060	10.33	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.30%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.64	67	40211	8.84	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.74	85	430328	9.28	PPBV	100
6) PROPYLENE	4.67	41	136551	8.78	PPBV	97
7) FREON 114	4.96	85	443016	9.23	PPBV	100
8) CHLOROMETHANE	4.88	52	48831	8.90	PPBV #	85
9) VINYL CHLORIDE	5.07	62	185797	9.38	PPBV	99
10) 1,3-BUTADIENE	5.19	54	140152	9.00	PPBV	98
11) n-BUTANE	5.24	58	38492	9.18	PPBV	98
12) BROMOMETHANE	5.43	94	168574	9.16	PPBV	100
13) CHLOROETHANE	5.57	64	103388	9.37	PPBV	99
14) DICHLOROFLUOROMETHANE	5.64	67	372567	9.29	PPBV	100
15) ACROLEIN	5.97	56	70379	8.64	PPBV	99
16) FREON 123	5.97	83	406772	9.18	PPBV #	100
17) FREON 123A	6.02	117	267056	9.22	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.21	101	436463	9.35	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	272802	9.61	PPBV	98
20) ACETONE	6.08	58	107220	9.95	PPBV	99
21) ACRYLONITRILE	6.46	53	134563	9.09	PPBV	100
22) PENTANE	6.50	57	48500	9.02	PPBV	97
24) IODOMETHANE	6.71	142	487337	9.39	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	176669	9.12	PPBV	99
26) CARBON DISULFIDE	7.14	76	488208	8.50	PPBV	99
27) ETHANOL	5.68	45	64933	8.95	PPBV	97
28) ACETONITRILE	5.86	41	128406	8.76	PPBV	96
29) BROMOETHENE	5.86	106	184423	9.48	PPBV	100
30) METHYLENE CHLORIDE	6.85	84	197419	9.10	PPBV	99
31) 3-CHLOROPROPENE	6.95	76	84544	9.34	PPBV	96
32) FREON 113	7.06	151	329203	8.88	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	187350	9.08	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.79	59	340887	11.15	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.89	73	483942	8.67	PPBV	99
36) TETRAHYDROFURAN	9.27	72	116856	11.77	PPBV	95
37) HEXANE	8.75	57	300416	8.95	PPBV	98
38) VINYL ACETATE	7.94	86	48690	9.38	PPBV #	89
39) 1,1-DICHLOROETHANE	7.84	63	323984	9.06	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	105366	10.55	PPBV #	87
41) cis-1,2-DICHLOROETHYLENE	8.58	96	199063	9.49	PPBV	97
42) DI-ISOPROPYL ETHER	8.75	45	597194	8.60	PPBV	99
43) ETHYL ACETATE	8.77	61	53396	8.52	PPBV #	93
44) METHYL ACRYLATE	8.77	55	323916	9.02	PPBV	99
45) CHLOROFORM	8.85	83	356564	8.91	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44147.D Vial: 3
Acq On : 18 Oct 2013 10:20 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:13:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 2,4-DIMETHYLPENTANE	9.56	57	353718	8.95	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.77	97	361966	8.90	PPBV	99
48) CARBON TETRACHLORIDE	10.35	117	384681	9.48	PPBV	100
49) 1,2-DICHLOROETHANE	9.54	62	215696	8.98	PPBV	100
51) BENZENE	10.21	78	585520	8.81	PPBV	99
52) CYCLOHEXANE	10.47	84	274258	9.09	PPBV	98
53) 2,3-DIMETHYLPENTANE	10.67	71	138311	9.06	PPBV	98
54) TRICHLOROETHYLENE	11.21	95	247179	8.68	PPBV	100
55) DIBROMOMETHANE	10.97	174	269460	9.23	PPBV	99
56) 1,2-DICHLOROPROPANE	10.99	63	209305	8.60	PPBV	99
57) ETHYL ACRYLATE	10.96	55	379220	8.81	PPBV	99
58) BROMODICHLOROMETHANE	11.18	83	400212	9.45	PPBV	99
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	956786	9.02	PPBV	99
60) 1,4-DIOXANE	11.25	88	117014	10.33	PPBV	93
61) METHYL METHACRYLATE	11.39	69	199993	9.03	PPBV	95
62) HEPTANE	11.46	43	329971	9.00	PPBV	99
64) METHYL ISOBUTYL KETONE	12.10	43	370236	9.41	PPBV	100
65) cis-1,3-DICHLOROPROPENE	12.05	75	311976	8.61	PPBV	99
66) TOLUENE	13.03	92	422235	9.06	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.57	75	303924	9.84	PPBV	98
68) 1,1,2-TRICHLOROETHANE	12.75	83	189519	8.79	PPBV	100
70) ETHYL METHACRYLATE	13.29	69	326909	9.68	PPBV	98
71) 2-HEXANONE	13.31	43	354926	10.80	PPBV	98
72) TETRACHLOROETHYLENE	14.20	164	305444	9.28	PPBV	100
73) DIBROMOCHLOROMETHANE	13.49	129	411443	10.09	PPBV	99
74) 1,2-DIBROMOETHANE	13.74	107	343166	9.84	PPBV	100
75) OCTANE	14.01	43	418828	8.85	PPBV	96
76) 1,1,1,2-TETRACHLOROETHANE	14.90	131	299962	9.57	PPBV #	100
77) CHLOROBENZENE	14.92	112	535302	9.39	PPBV	99
78) ETHYLBENZENE	15.31	91	837376	9.20	PPBV	100
79) m,p-XYLENE	15.50	106	668620	18.85	PPBV	98
80) o-XYLENE	16.02	106	324987	9.65	PPBV	98
81) STYRENE	15.90	104	480098	9.44	PPBV	99
82) 1,2,3-TRICHLOROPROPANE	16.16	75	308851	9.29	PPBV	99
83) NONANE	16.22	43	394723	8.87	PPBV	98
84) BROMOFORM	15.61	173	418300	10.60	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.02	83	397980	9.52	PPBV	99
87) ISOPROPYLBENZENE	16.66	105	925495	9.29	PPBV	99
88) BROMOBENZENE	16.78	156	291364	9.81	PPBV	97
89) 2-CHLOROTOLUENE	17.20	126	223320	9.54	PPBV #	98
90) n-PROPYLBENZENE	17.22	120	244830	9.60	PPBV	98
91) 4-ETHYLTOLUENE	17.39	105	811892	9.97	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.47	105	668686	9.54	PPBV	99
93) ALPHA-METHYLSTYRENE	17.65	118	325391	9.77	PPBV	99
94) TERT-BUTYLBENZENE	17.93	134	176887	9.26	PPBV	98
95) 1,2,4-TRIMETHYLBENZENE	17.94	105	629594	9.71	PPBV	99
96) m-DICHLOROBENZENE	18.11	146	403196	10.23	PPBV	99
97) BENZYL CHLORIDE	18.09	91	438008	10.84	PPBV	100
98) p-DICHLOROBENZENE	18.19	146	384685	10.19	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44147.D Vial: 3
Acq On : 18 Oct 2013 10:20 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:13:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

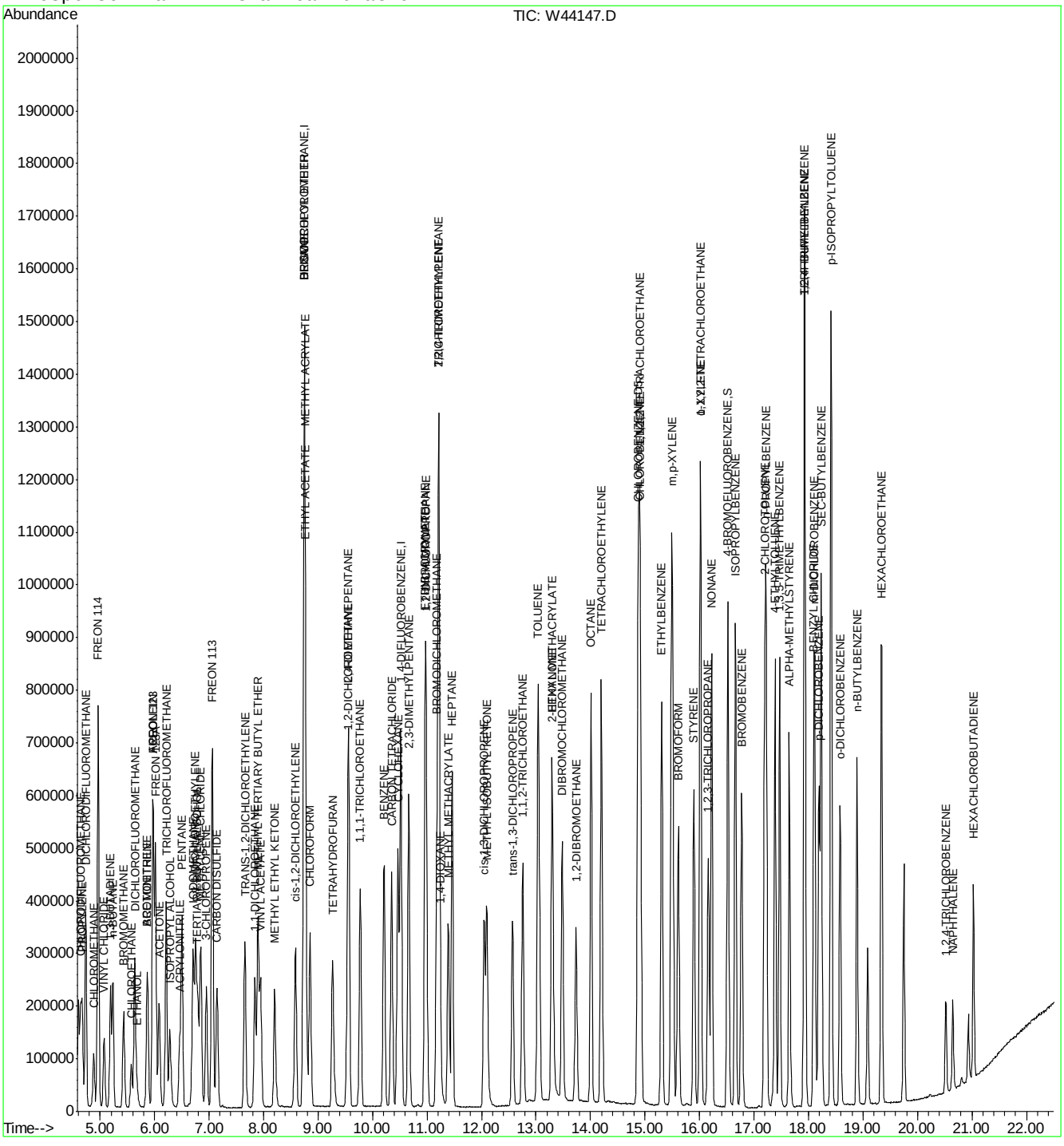
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	205946	9.59	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.41	134	196890	9.44	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	361073	10.11	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	149002	9.65	PPBV	95
103)	HEXACHLOROETHANE	19.34	201	257065	9.97	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	103709	8.27	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	82935	9.80	PPBV	99
106)	NAPHTHALENE	20.65	128	179326	10.23	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44147.D Vial: 3
Acq On : 18 Oct 2013 10:20 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 16:59 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44148.D Vial: 3
Acq On : 18 Oct 2013 10:59 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:22:30 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	170723	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	893754	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	388294	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	482789	10.48	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.80%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.64	67	40322	8.60	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.74	85	426371	8.91	PPBV	99
6) PROPYLENE	4.67	41	137272	8.56	PPBV	99
7) FREON 114	4.96	85	441802	8.92	PPBV	100
8) CHLOROMETHANE	4.88	52	49330	8.72	PPBV #	82
9) VINYL CHLORIDE	5.07	62	185518	9.08	PPBV	100
10) 1,3-BUTADIENE	5.19	54	140771	8.76	PPBV	98
11) n-BUTANE	5.24	58	38598	8.93	PPBV	97
12) BROMOMETHANE	5.43	94	168616	8.88	PPBV	99
13) CHLOROETHANE	5.57	64	102106	8.98	PPBV	99
14) DICHLOROFLUOROMETHANE	5.63	67	372055	8.99	PPBV	100
15) ACROLEIN	5.97	56	70235	8.37	PPBV	100
16) FREON 123	5.97	83	410591	8.98	PPBV #	100
17) FREON 123A	6.02	117	267494	8.96	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.21	101	434622	9.02	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	260665	8.90	PPBV	99
20) ACETONE	6.08	58	117802	10.60	PPBV	97
21) ACRYLONITRILE	6.46	53	134687	8.82	PPBV	99
22) PENTANE	6.50	57	48208	8.69	PPBV	98
24) IODOMETHANE	6.71	142	490255	9.16	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	178387	8.93	PPBV	98
26) CARBON DISULFIDE	7.15	76	492817	8.32	PPBV	99
27) ETHANOL	5.68	45	63348	8.46	PPBV	97
28) ACETONITRILE	5.86	41	127898	8.46	PPBV	97
29) BROMOETHENE	5.87	106	186076	9.27	PPBV	100
30) METHYLENE CHLORIDE	6.85	84	199495	8.92	PPBV	99
31) 3-CHLOROPROPENE	6.95	76	84138	9.02	PPBV	97
32) FREON 113	7.06	151	330466	8.65	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	189427	8.90	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.80	59	331773	10.52	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	484889	8.42	PPBV	99
36) TETRAHYDROFURAN	9.27	72	121839	11.90	PPBV	96
37) HEXANE	8.75	57	303077	8.75	PPBV	98
38) VINYL ACETATE	7.94	86	49098	9.17	PPBV #	86
39) 1,1-DICHLOROETHANE	7.85	63	325984	8.84	PPBV	99
40) METHYL ETHYL KETONE	8.20	72	106904	10.38	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.58	96	201269	9.31	PPBV	97
42) DI-ISOPROPYL ETHER	8.75	45	595522	8.31	PPBV	99
43) ETHYL ACETATE	8.77	61	53424	8.27	PPBV #	95
44) METHYL ACRYLATE	8.77	55	320759	8.66	PPBV	99
45) CHLOROFORM	8.85	83	359448	8.71	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44148.D Vial: 3
Acq On : 18 Oct 2013 10:59 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:22:30 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) 2,4-DIMETHYLPENTANE	9.56	57	353163	8.66	PPBV		100
47) 1,1,1-TRICHLOROETHANE	9.77	97	362956	8.66	PPBV		100
48) CARBON TETRACHLORIDE	10.35	117	383035	9.16	PPBV		99
49) 1,2-DICHLOROETHANE	9.53	62	214920	8.68	PPBV		99
51) BENZENE	10.21	78	586081	8.49	PPBV		100
52) CYCLOHEXANE	10.47	84	272050	8.69	PPBV		99
53) 2,3-DIMETHYLPENTANE	10.67	71	138828	8.76	PPBV		97
54) TRICHLOROETHYLENE	11.21	95	248323	8.40	PPBV		100
55) DIBROMOMETHANE	10.97	174	269447	8.90	PPBV		99
56) 1,2-DICHLOROPROPANE	10.99	63	211079	8.35	PPBV		99
57) ETHYL ACRYLATE	10.97	55	368033	8.24	PPBV		98
58) BROMODICHLOROMETHANE	11.18	83	397061	9.04	PPBV		99
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	952004	8.65	PPBV		99
60) 1,4-DIOXANE	11.25	88	108362	9.22	PPBV		96
61) METHYL METHACRYLATE	11.39	69	197553	8.60	PPBV		95
62) HEPTANE	11.46	43	324109	8.52	PPBV		98
64) METHYL ISOBUTYL KETONE	12.10	43	356172	8.72	PPBV		99
65) cis-1,3-DICHLOROPROPENE	12.05	75	315864	8.40	PPBV		98
66) TOLUENE	13.03	92	426079	8.81	PPBV		99
67) trans-1,3-DICHLOROPROPENE	12.57	75	302419	9.44	PPBV		98
68) 1,1,2-TRICHLOROETHANE	12.75	83	188450	8.43	PPBV		99
70) ETHYL METHACRYLATE	13.29	69	319623	9.00	PPBV		99
71) 2-HEXANONE	13.31	43	331447	9.60	PPBV		97
72) TETRACHLOROETHYLENE	14.20	164	305195	8.82	PPBV		99
73) DIBROMOCHLOROMETHANE	13.49	129	411516	9.60	PPBV		99
74) 1,2-DIBROMOETHANE	13.74	107	343685	9.38	PPBV		100
75) OCTANE	14.01	43	416623	8.38	PPBV		96
76) 1,1,1,2-TETRACHLOROETHANE	14.90	131	304286	9.24	PPBV	#	98
77) CHLOROBENZENE	14.92	112	533672	8.91	PPBV		99
78) ETHYLBENZENE	15.31	91	841927	8.80	PPBV		100
79) m,p-XYLENE	15.50	106	674520	18.10	PPBV		99
80) o-XYLENE	16.02	106	321635	9.09	PPBV		100
81) STYRENE	15.90	104	481414	9.01	PPBV		100
82) 1,2,3-TRICHLOROPROPANE	16.16	75	308085	8.82	PPBV		99
83) NONANE	16.22	43	393487	8.41	PPBV		98
84) BROMOFORM	15.61	173	417775	10.08	PPBV		100
86) 1,1,2,2-TETRACHLOROETHANE	16.02	83	398093	9.06	PPBV		100
87) ISOPROPYLBENZENE	16.66	105	927208	8.86	PPBV		99
88) BROMOBENZENE	16.78	156	289355	9.28	PPBV		98
89) 2-CHLOROTOLUENE	17.19	126	222506	9.05	PPBV	#	97
90) n-PROPYLBENZENE	17.23	120	243834	9.10	PPBV		99
91) 4-ETHYLTOLUENE	17.39	105	812782	9.50	PPBV		100
92) 1,3,5-TRIMETHYLBENZENE	17.47	105	668464	9.08	PPBV		100
93) ALPHA-METHYLSTYRENE	17.65	118	322859	9.23	PPBV		100
94) TERT-BUTYLBENZENE	17.93	134	180354	8.99	PPBV		97
95) 1,2,4-TRIMETHYLBENZENE	17.94	105	624006	9.16	PPBV		99
96) m-DICHLOROBENZENE	18.12	146	399913	9.66	PPBV		100
97) BENZYL CHLORIDE	18.09	91	423297	9.97	PPBV		100
98) p-DICHLOROBENZENE	18.19	146	376876	9.50	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44148.D Vial: 3
Acq On : 18 Oct 2013 10:59 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:22:30 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

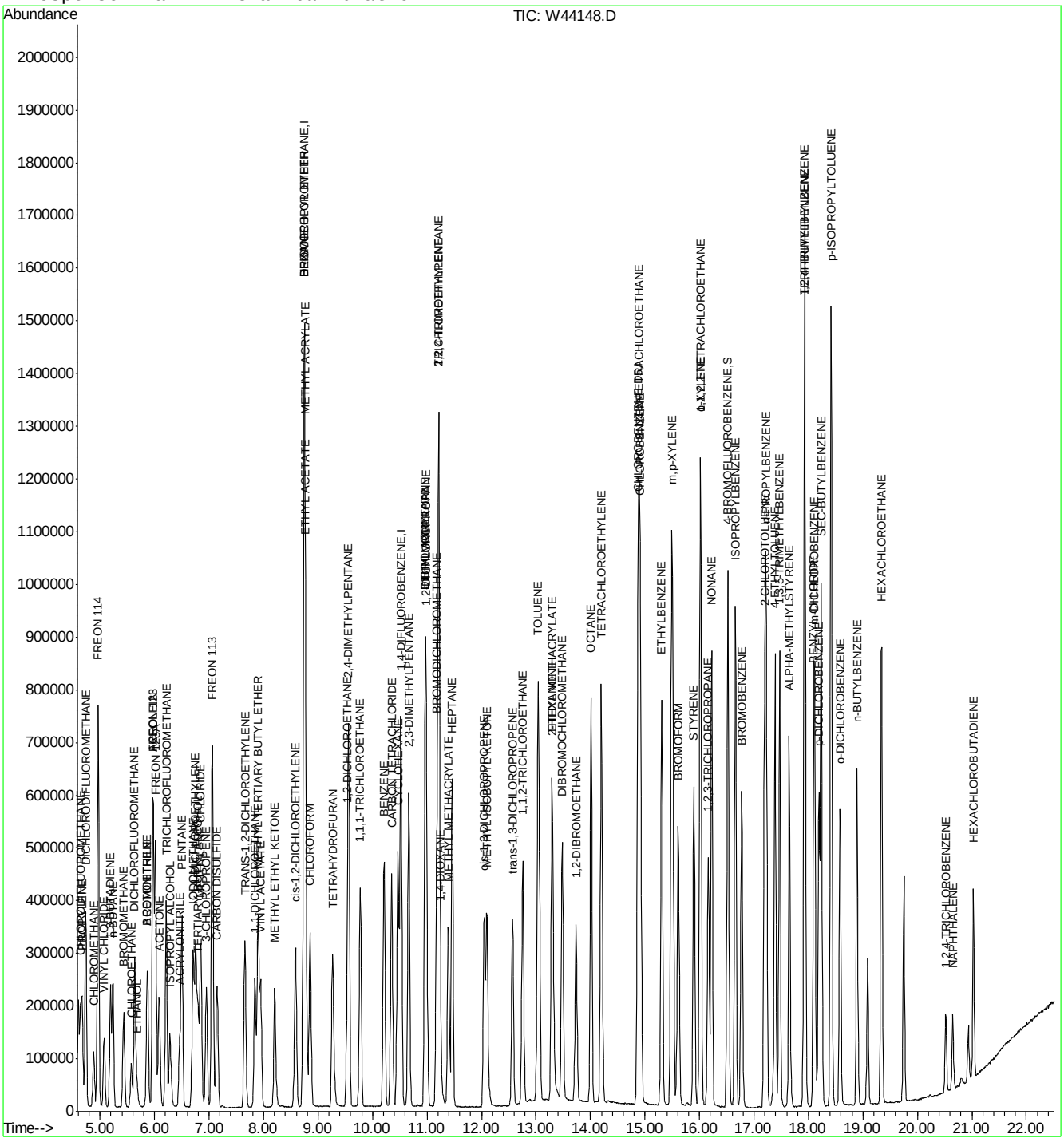
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	203960	9.04	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.41	134	197952	9.04	PPBV	99
101)	o-DICHLOROBENZENE	18.58	146	354941	9.46	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	141956	8.75	PPBV	99
103)	HEXACHLOROETHANE	19.34	201	256232	9.46	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	96727	7.34	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	70084	7.88	PPBV	100
106)	NAPHTHALENE	20.65	128	154342	8.38	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44148.D Vial: 3
Acq On : 18 Oct 2013 10:59 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 17:00 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44219.D Vial: 3
Acq On : 22 Oct 2013 11:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:29:43 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	172572	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.51	114	861871	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	367342	10.00	PPBV	-0.02

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	476797	10.94	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 109.40%

Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.63	67	42681	9.00	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.72	85	466764	9.65	PPBV	99
6) PROPYLENE	4.66	41	145362	8.97	PPBV	99
7) FREON 114	4.95	85	485501	9.70	PPBV	98
8) CHLOROMETHANE	4.87	52	53027	9.27	PPBV #	84
9) VINYL CHLORIDE	5.06	62	200927	9.73	PPBV	99
10) 1,3-BUTADIENE	5.18	54	150261	9.25	PPBV	97
11) n-BUTANE	5.22	58	41236	9.44	PPBV	95
12) BROMOMETHANE	5.41	94	186838	9.73	PPBV	99
13) CHLOROETHANE	5.56	64	112458	9.78	PPBV	98
14) DICHLOROFLUOROMETHANE	5.62	67	402774	9.63	PPBV	100
15) ACROLEIN	5.96	56	79379	9.35	PPBV	98
16) FREON 123	5.96	83	438594	9.49	PPBV #	98
17) FREON 123A	6.00	117	293057	9.71	PPBV	96
18) TRICHLOROFLUOROMETHANE	6.20	101	474097	9.74	PPBV	100
19) ISOPROPYL ALCOHOL	6.27	45	284093	9.60	PPBV	98
20) ACETONE	6.07	58	93373	8.31	PPBV	97
21) ACRYLONITRILE	6.45	53	150413	9.75	PPBV	99
22) PENTANE	6.49	57	50845	9.07	PPBV	97
24) IODOMETHANE	6.69	142	550407	10.17	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.74	96	193971	9.60	PPBV	96
26) CARBON DISULFIDE	7.13	76	536495	8.96	PPBV	99
27) ETHANOL	5.68	45	71454	9.44	PPBV	97
28) ACETONITRILE	5.85	41	145754	9.54	PPBV	98
29) BROMOETHENE	5.85	106	206364	10.18	PPBV	100
30) METHYLENE CHLORIDE	6.83	84	174289	7.71	PPBV	97
31) 3-CHLOROPROPENE	6.94	76	89657	9.51	PPBV	95
32) FREON 113	7.05	151	367626	9.51	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.64	96	203922	9.48	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.79	59	352213	11.05	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.89	73	494351	8.49	PPBV	98
36) TETRAHYDROFURAN	9.27	72	91616	8.86	PPBV	92
37) HEXANE	8.74	57	303456	8.67	PPBV	98
38) VINYL ACETATE	7.94	86	52163	9.64	PPBV #	81
39) 1,1-DICHLOROETHANE	7.83	63	342287	9.18	PPBV	99
40) METHYL ETHYL KETONE	8.20	72	97963	9.41	PPBV #	86
41) cis-1,2-DICHLOROETHYLENE	8.57	96	217039	9.93	PPBV	95
42) DI-ISOPROPYL ETHER	8.74	45	594973	8.22	PPBV	98
43) ETHYL ACETATE	8.77	61	57198	8.76	PPBV #	1
44) METHYL ACRYLATE	8.76	55	355262	9.49	PPBV	99
45) CHLOROFORM	8.85	83	384974	9.22	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44219.D Vial: 3
Acq On : 22 Oct 2013 11:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:29:43 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.55	57	368268	8.94	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.77	97	388190	9.16	PPBV		99
48)	CARBON TETRACHLORIDE	10.34	117	413932	9.79	PPBV		100
49)	1,2-DICHLOROETHANE	9.53	62	229134	9.15	PPBV		99
51)	BENZENE	10.20	78	621737	9.34	PPBV		99
52)	CYCLOHEXANE	10.46	84	291179	9.64	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.66	71	147052	9.62	PPBV		96
54)	TRICHLOROETHYLENE	11.21	95	266669	9.36	PPBV		97
55)	DIBROMOMETHANE	10.96	174	302207	10.35	PPBV		97
56)	1,2-DICHLOROPROPANE	10.98	63	218469	8.97	PPBV		99
57)	ETHYL ACRYLATE	10.96	55	401332	9.32	PPBV		98
58)	BROMODICHLOROMETHANE	11.17	83	428859	10.12	PPBV		99
59)	2,2,4-TRIMETHYLPENTANE	11.21	57	998675	9.40	PPBV		99
60)	1,4-DIOXANE	11.25	88	124371	10.97	PPBV	#	74
61)	METHYL METHACRYLATE	11.38	69	210744	9.51	PPBV		93
62)	HEPTANE	11.46	43	334410	9.11	PPBV		95
64)	METHYL ISOBUTYL KETONE	12.09	43	389437	9.89	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.04	75	329882	9.10	PPBV		100
66)	TOLUENE	13.03	92	448757	9.63	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.56	75	327128	10.59	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.75	83	203746	9.45	PPBV		99
70)	ETHYL METHACRYLATE	13.28	69	349147	10.40	PPBV		97
71)	2-HEXANONE	13.30	43	399377	12.23	PPBV		98
72)	TETRACHLOROETHYLENE	14.19	164	338194	10.34	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.48	129	460155	11.35	PPBV		100
74)	1,2-DIBROMOETHANE	13.73	107	379126	10.93	PPBV		100
75)	OCTANE	14.00	43	433736	9.22	PPBV		94
76)	1,1,1,2-TETRACHLOROETHANE	14.89	131	337081	10.82	PPBV	#	100
77)	CHLOROBENZENE	14.91	112	591353	10.44	PPBV		98
78)	ETHYLBENZENE	15.30	91	902219	9.97	PPBV		99
79)	m,p-XYLENE	15.49	106	735903	20.88	PPBV		100
80)	o-XYLENE	16.02	106	360928	10.78	PPBV		97
81)	STYRENE	15.89	104	540649	10.70	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	363082	10.99	PPBV		99
83)	NONANE	16.22	43	418085	9.45	PPBV		96
84)	BROMOFORM	15.61	173	490448	12.50	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	479460	11.53	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1033891	10.44	PPBV		98
88)	BROMOBENZENE	16.77	156	337119	11.42	PPBV		96
89)	2-CHLOROTOLUENE	17.19	126	262449	11.28	PPBV	#	97
90)	n-PROPYLBENZENE	17.22	120	286929	11.32	PPBV		92
91)	4-ETHYLTOLUENE	17.38	105	935934	11.56	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	791961	11.37	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.65	118	394748	11.93	PPBV		99
94)	TERT-BUTYLBENZENE	17.92	134	219603	11.57	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.93	105	772545	11.99	PPBV		98
96)	m-DICHLOROBENZENE	18.11	146	523538	13.37	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	579830	14.43	PPBV		99
98)	p-DICHLOROBENZENE	18.19	146	503383	13.41	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44219.D Vial: 3
Acq On : 22 Oct 2013 11:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:29:43 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

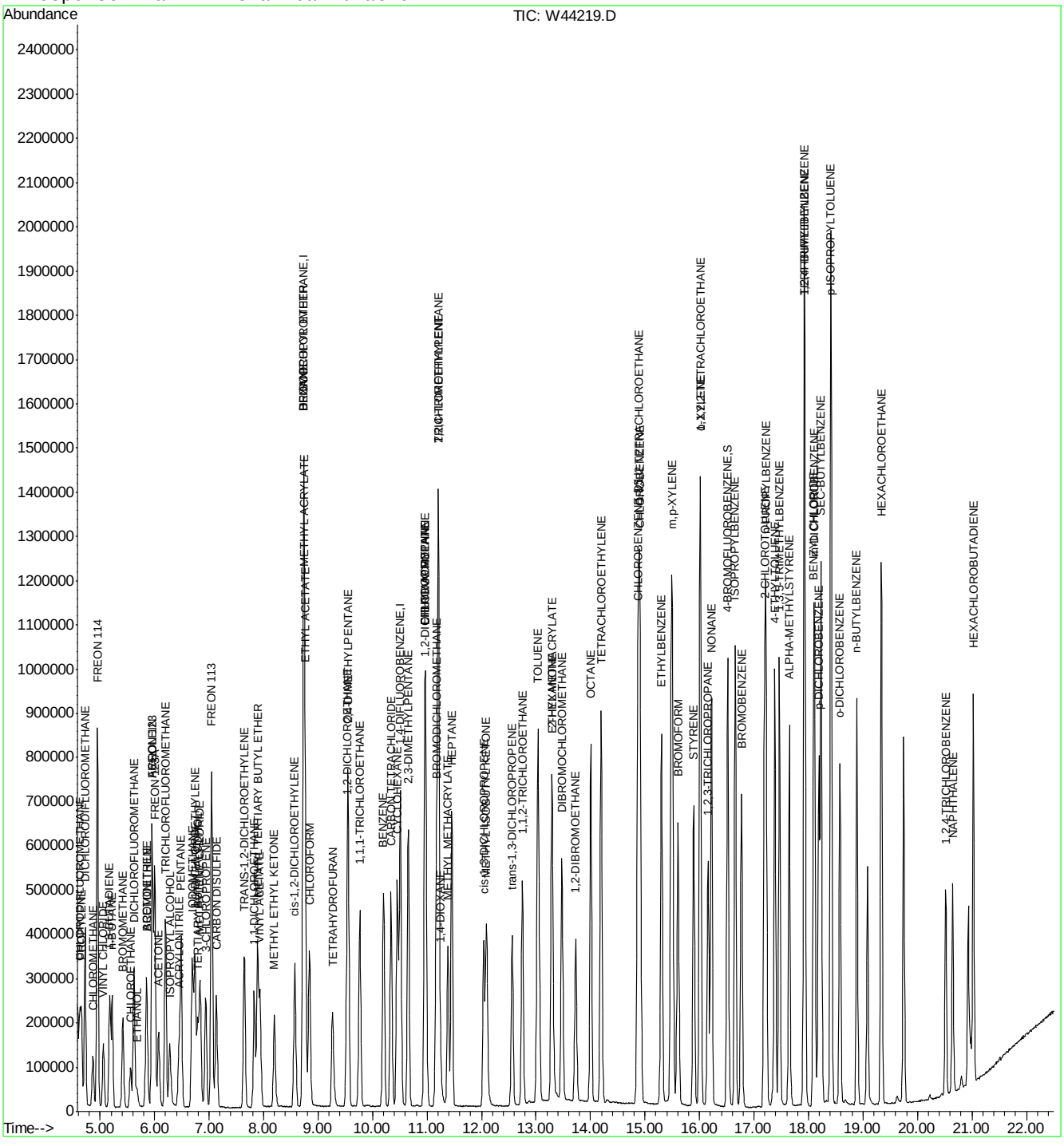
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	258347	12.10	PPBV	94
100)	p-ISOPROPYLTOLUENE	18.41	134	261228	12.61	PPBV	96
101)	o-DICHLOROBENZENE	18.58	146	489943	13.80	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	209102	13.62	PPBV	93
103)	HEXACHLOROETHANE	19.34	201	359593	14.04	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	241410	19.36	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	217773	25.88	PPBV	96
106)	NAPHTHALENE	20.65	128	515073	29.57	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44219.D Vial: 3
Acq On : 22 Oct 2013 11:06 am Operator: danat
Sample : bs Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 12:29 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44220.D Vial: 4
Acq On : 22 Oct 2013 11:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 12:09:41 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	165805	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.51	114	860695	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.87	82	366018	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	471935	10.87	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 108.70%

Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.63	67	42883	9.42	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.72	85	467045	10.05	PPBV	100
6) PROPYLENE	4.66	41	143349	9.20	PPBV	97
7) FREON 114	4.95	85	480791	10.00	PPBV	98
8) CHLOROMETHANE	4.86	52	51932	9.45	PPBV #	89
9) VINYL CHLORIDE	5.06	62	201898	10.18	PPBV	99
10) 1,3-BUTADIENE	5.18	54	148172	9.50	PPBV	98
11) n-BUTANE	5.22	58	40623	9.67	PPBV	97
12) BROMOMETHANE	5.41	94	187492	10.17	PPBV	99
13) CHLOROETHANE	5.55	64	110615	10.01	PPBV	98
14) DICHLOROFLUOROMETHANE	5.62	67	400918	9.98	PPBV	100
15) ACROLEIN	5.96	56	80145	9.83	PPBV	95
16) FREON 123	5.96	83	436717	9.84	PPBV #	100
17) FREON 123A	6.00	117	288025	9.93	PPBV	96
18) TRICHLOROFLUOROMETHANE	6.20	101	472202	10.09	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	285109	10.02	PPBV	97
20) ACETONE	6.07	58	89796	8.32	PPBV	96
21) ACRYLONITRILE	6.44	53	151164	10.20	PPBV	99
22) PENTANE	6.49	57	51044	9.48	PPBV	94
24) IODOMETHANE	6.69	142	547560	10.53	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.74	96	191551	9.87	PPBV	97
26) CARBON DISULFIDE	7.13	76	534766	9.29	PPBV	98
27) ETHANOL	5.68	45	70071	9.64	PPBV	97
28) ACETONITRILE	5.85	41	144000	9.81	PPBV	99
29) BROMOETHENE	5.85	106	205548	10.55	PPBV	100
30) METHYLENE CHLORIDE	6.83	84	172224	7.93	PPBV	96
31) 3-CHLOROPROPENE	6.94	76	90108	9.94	PPBV #	91
32) FREON 113	7.05	151	362357	9.76	PPBV	98
33) TRANS-1,2-DICHLOROETHYLENE	7.64	96	201300	9.74	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.79	59	350506	11.44	PPBV	97
35) METHYL TERTIARY BUTYL ETHE	7.89	73	505152	9.03	PPBV	98
36) TETRAHYDROFURAN	9.27	72	93176	9.37	PPBV	92
37) HEXANE	8.74	57	296870	8.83	PPBV	99
38) VINYL ACETATE	7.94	86	51997	10.00	PPBV #	83
39) 1,1-DICHLOROETHANE	7.83	63	328559	9.17	PPBV	99
40) METHYL ETHYL KETONE	8.19	72	101787	10.18	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.57	96	212525	10.12	PPBV	95
42) DI-ISOPROPYL ETHER	8.74	45	612342	8.80	PPBV	99
43) ETHYL ACETATE	8.77	61	65210	10.39	PPBV #	69
44) METHYL ACRYLATE	8.76	55	360605	10.02	PPBV	99
45) CHLOROFORM	8.84	83	383460	9.56	PPBV	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44220.D Vial: 4
Acq On : 22 Oct 2013 11:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 12:09:41 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.55	57	353310	8.92	PPBV		98
47)	1,1,1-TRICHLOROETHANE	9.77	97	380396	9.34	PPBV		99
48)	CARBON TETRACHLORIDE	10.34	117	403238	9.93	PPBV		96
49)	1,2-DICHLOROETHANE	9.53	62	231206	9.61	PPBV		100
51)	BENZENE	10.20	78	632901	9.53	PPBV		99
52)	CYCLOHEXANE	10.46	84	280340	9.30	PPBV		98
53)	2,3-DIMETHYLPENTANE	10.66	71	143268	9.39	PPBV		99
54)	TRICHLOROETHYLENE	11.21	95	264222	9.28	PPBV		95
55)	DIBROMOMETHANE	10.96	174	305410	10.47	PPBV		97
56)	1,2-DICHLOROPROPANE	10.98	63	220469	9.06	PPBV		99
57)	ETHYL ACRYLATE	10.96	55	414276	9.63	PPBV		99
58)	BROMODICHLOROMETHANE	11.17	83	428469	10.13	PPBV		99
59)	2,2,4-TRIMETHYLPENTANE	11.21	57	989483	9.33	PPBV		100
60)	1,4-DIOXANE	11.25	88	125858	11.12	PPBV	#	76
61)	METHYL METHACRYLATE	11.38	69	211917	9.58	PPBV		94
62)	HEPTANE	11.46	43	331887	9.06	PPBV		95
64)	METHYL ISOBUTYL KETONE	12.10	43	396822	10.09	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.04	75	338542	9.35	PPBV		99
66)	TOLUENE	13.03	92	457698	9.83	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.56	75	332907	10.79	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.75	83	207326	9.63	PPBV		99
70)	ETHYL METHACRYLATE	13.28	69	357963	10.70	PPBV		97
71)	2-HEXANONE	13.30	43	405033	12.45	PPBV		98
72)	TETRACHLOROETHYLENE	14.19	164	344198	10.56	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.48	129	463506	11.47	PPBV		100
74)	1,2-DIBROMOETHANE	13.73	107	383301	11.09	PPBV		100
75)	OCTANE	14.00	43	439733	9.38	PPBV		95
76)	1,1,1,2-TETRACHLOROETHANE	14.89	131	339674	10.94	PPBV	#	99
77)	CHLOROBENZENE	14.91	112	597538	10.58	PPBV		98
78)	ETHYLBENZENE	15.30	91	924541	10.25	PPBV		99
79)	m,p-XYLENE	15.50	106	751847	21.41	PPBV		100
80)	o-XYLENE	16.02	106	362703	10.87	PPBV		99
81)	STYRENE	15.89	104	548942	10.90	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	372108	11.31	PPBV		99
83)	NONANE	16.22	43	422173	9.58	PPBV		96
84)	BROMOFORM	15.61	173	497029	12.72	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	488935	11.80	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1057141	10.72	PPBV		99
88)	BROMOBENZENE	16.77	156	345798	11.76	PPBV		95
89)	2-CHLOROTOLUENE	17.19	126	265032	11.43	PPBV	#	97
90)	n-PROPYLBENZENE	17.22	120	291960	11.56	PPBV		93
91)	4-ETHYLTOLUENE	17.39	105	965724	11.97	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	809218	11.66	PPBV		98
93)	ALPHA-METHYLSTYRENE	17.65	118	406463	12.32	PPBV		99
94)	TERT-BUTYLBENZENE	17.92	134	223151	11.80	PPBV		97
95)	1,2,4-TRIMETHYLBENZENE	17.93	105	785612	12.23	PPBV		98
96)	m-DICHLOROBENZENE	18.11	146	533510	13.67	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	586981	14.67	PPBV		98
98)	p-DICHLOROBENZENE	18.19	146	513818	13.74	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44220.D Vial: 4
Acq On : 22 Oct 2013 11:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 12:09:41 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

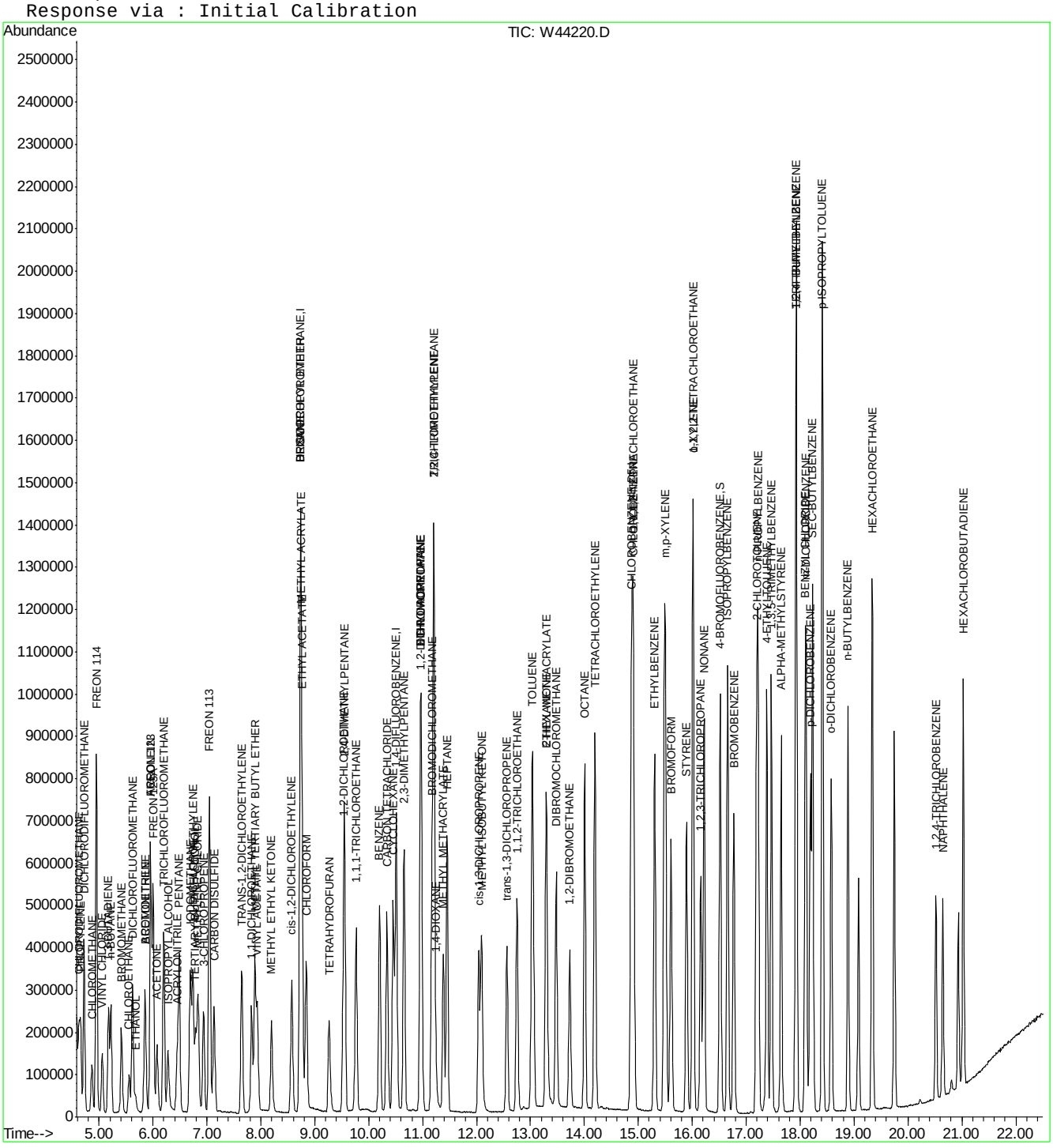
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	265235	12.47	PPBV	95
100)	p-ISOPROPYLTOLUENE	18.41	134	271404	13.14	PPBV	96
101)	o-DICHLOROBENZENE	18.58	146	501915	14.19	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	221938	14.51	PPBV	90
103)	HEXACHLOROETHANE	19.34	201	364608	14.28	PPBV	97
104)	HEXACHLOROBUTADIENE	21.03	225	263157	21.18	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	221670	26.44	PPBV	97
106)	NAPHTHALENE	20.65	128	508237	29.29	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44220.D Vial: 4
Acq On : 22 Oct 2013 11:46 am Operator: danat
Sample : bsd Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 12:29 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36334.D Vial: 3
Acq On : 7 Oct 2013 10:57 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:52 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	142513	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.89	114	655162	10.00	PPBV	-0.07
68) CHLOROBENZENE-D5	13.03	82	274630	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	282616	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	303480	9.83	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.30%			
Target Compounds						Qvalue
3) FREON 152A	4.28	65	130191	9.99	PPBV	92
4) CHLORODIFLUOROMETHANE	4.31	67	41532	8.70	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.36	85	460413	9.01	PPBV	97
6) PROPYLENE	4.32	41	171281	10.57	PPBV	96
7) FREON 114	4.50	85	530838	9.84	PPBV	98
8) CHLOROMETHANE	4.46	50	231264	9.92	PPBV	98
9) VINYL CHLORIDE	4.58	62	233747	10.18	PPBV	99
10) 1,3-BUTADIENE	4.64	54	160192	9.68	PPBV	90
11) n-BUTANE	4.67	43	318136	9.77	PPBV	98
12) BROMOMETHANE	4.81	94	211463	9.80	PPBV	100
13) CHLOROETHANE	4.89	64	120048	10.17	PPBV	98
14) DICHLOROFLUOROMETHANE	4.94	67	441508	9.86	PPBV	99
15) ACETONITRILE	5.12	41	142430	11.32	PPBV	96
16) FREON 123	5.15	83	480584	9.68	PPBV	99
17) FREON 123A	5.19	117	277594	9.42	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.32	101	424857	8.53	PPBV	99
19) ISOPROPYL ALCOHOL	5.37	45	340261	10.87	PPBV	96
20) ACETONE	5.23	58	101347	11.93	PPBV #	80
21) PENTANE	5.49	42	205331	9.75	PPBV	92
23) IODOMETHANE	5.67	142	563883	9.94	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.71	96	205513	10.14	PPBV	95
25) CARBON DISULFIDE	5.98	76	601432	10.55	PPBV	98
26) ETHANOL	4.98	45	77698	9.91	PPBV	95
27) BROMOETHENE	5.09	106	212327	9.59	PPBV	99
28) ACRYLONITRILE	5.51	52	116979	11.15	PPBV	93
29) METHYLENE CHLORIDE	5.79	84	188687	9.48	PPBV	91
30) 3-CHLOROPROPENE	5.85	76	93139	10.45	PPBV #	85
31) FREON 113	5.93	151	343007	9.92	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.38	96	197518	10.22	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.72	59	412806	10.53	PPBV	94
34) METHYL TERTIARY BUTYL ETHE	6.53	73	491406	9.87	PPBV	98
35) TETRAHYDROFURAN	7.68	72	95738	10.98	PPBV	98
36) HEXANE	7.22	57	300356	10.14	PPBV	92
37) VINYL ACETATE	6.63	86	41729	10.55	PPBV #	86
38) 1,1-DICHLOROETHANE	6.53	63	339589	9.18	PPBV	98
39) METHYL ETHYL KETONE	6.80	72	96358	11.00	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	7.18	96	201629	9.51	PPBV	99
41) DIISOPROPYL ETHER	7.23	45	656945	10.00	PPBV	93
42) ETHYL ACETATE	7.30	61	67137	10.80	PPBV	95
43) METHYL ACRYLATE	7.31	55	298496	10.17	PPBV #	95
44) CHLOROFORM	7.38	83	357935	8.89	PPBV	97
45) 2,4-DIMETHYLPENTANE	7.92	57	375942	9.56	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.17	97	347823	8.50	PPBV	98
47) CARBON TETRACHLORIDE	8.70	117	354397	8.37	PPBV	99
48) 1,2-DICHLOROETHANE	7.96	62	182566	8.34	PPBV	99
50) BENZENE	8.57	78	584377	8.69	PPBV	99
51) CYCLOHEXANE	8.74	84	310551	8.87	PPBV	96
52) 2,3-DIMETHYLPENTANE	8.93	71	141588	9.11	PPBV	94

(#) = qualifier out of range (m) = manual integration
3W36334.D M3W1350.M Tue Oct 08 10:24:47 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36334.D Vial: 3
Acq On : 7 Oct 2013 10:57 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:52 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

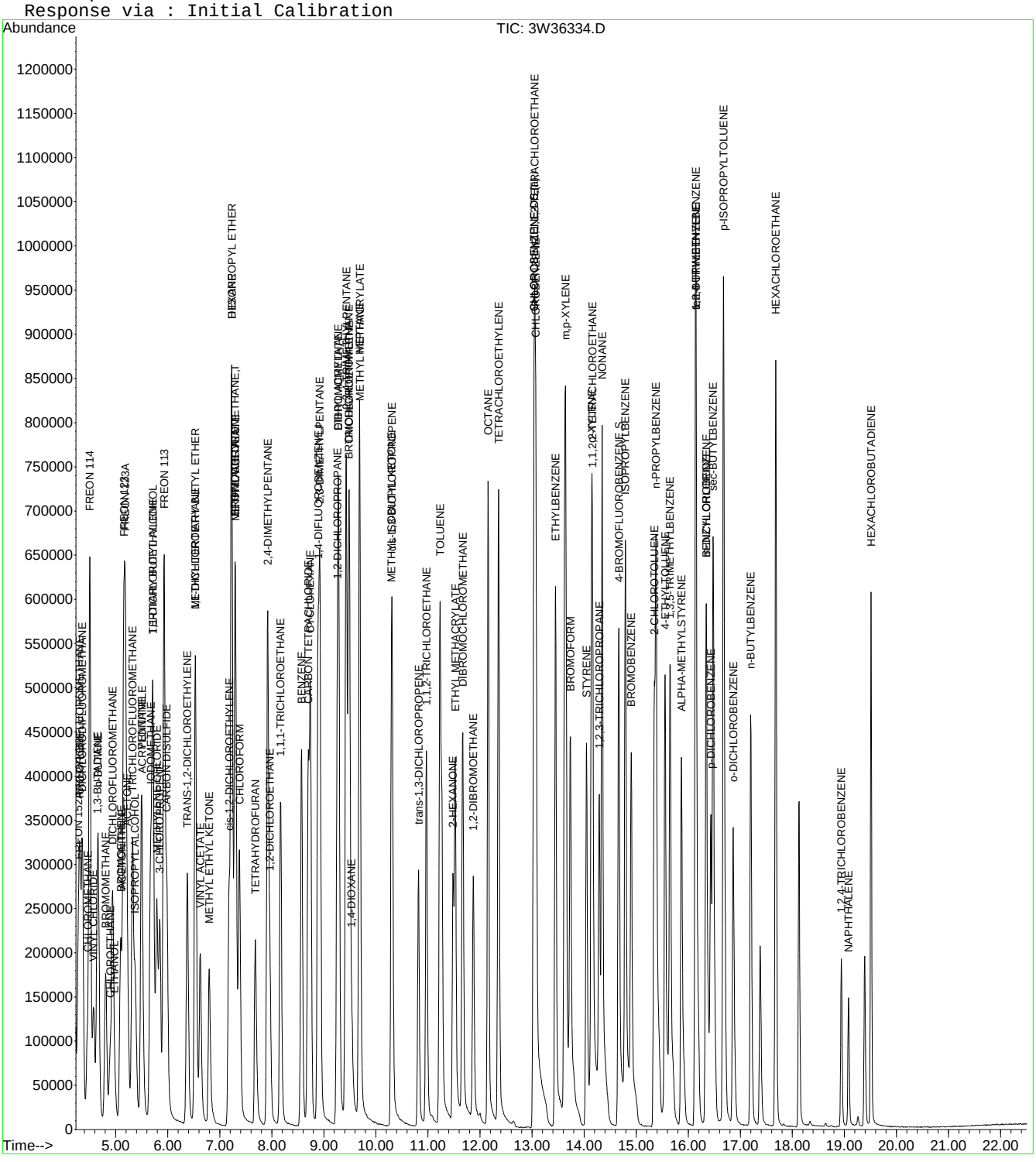
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.49	95	227304	8.65	PPBV	94
54)	1,2-DICHLOROPROPANE	9.25	63	226036	9.27	PPBV	95
55)	DIBROMOMETHANE	9.28	174	240228	9.11	PPBV	99
56)	ETHYL ACRYLATE	9.28	55	373327	9.74	PPBV	99
57)	BROMODICHLOROMETHANE	9.47	83	360757	8.33	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.42	57	964834	9.38	PPBV	100
59)	1,4-DIOXANE	9.53	88	115589	8.95	PPBV	96
60)	HEPTANE	9.68	43	336650	9.12	PPBV	97
62)	METHYL METHACRYLATE	9.70	69	197833	9.89	PPBV	90
63)	METHYL ISOBUTYL KETONE	10.29	58	153483	10.38	PPBV	95
64)	cis-1,3-DICHLOROPROPENE	10.31	75	306187	10.09	PPBV	91
65)	TOLUENE	11.23	92	372910	9.01	PPBV	98
66)	trans-1,3-DICHLOROPROPENE	10.82	75	237902	8.18	PPBV	95
67)	1,1,2-TRICHLOROETHANE	10.97	83	187073	9.03	PPBV	100
69)	2-HEXANONE	11.48	58	208776	12.84	PPBV	93
70)	ETHYL METHACRYLATE	11.52	69	319557	12.56	PPBV	96
71)	TETRACHLOROETHYLENE	12.36	164	257210	10.03	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.67	129	380105	10.44	PPBV	99
73)	1,2-DIBROMOETHANE	11.87	107	295890	10.70	PPBV	100
74)	OCTANE	12.16	43	455485	11.51	PPBV	99
75)	1,1,1,2-TETRACHLOROETHANE	13.06	131	276132	10.46	PPBV	95
76)	CHLOROBENZENE	13.07	112	437743	10.29	PPBV	97
77)	ETHYLBENZENE	13.45	91	698782	10.18	PPBV	98
78)	m,p-XYLENE	13.64	106	537637	20.74	PPBV	97
79)	o-XYLENE	14.14	106	266054	10.59	PPBV	94
80)	STYRENE	14.05	104	344768	9.11	PPBV	96
81)	NONANE	14.35	43	416763	11.80	PPBV	99
82)	BROMOFORM	13.74	173	314322	9.35	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.16	83	366233	9.92	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.29	75	272060	10.21	PPBV	99
86)	ISOPROPYLBENZENE	14.79	105	741717	9.99	PPBV	98
87)	BROMOBENZENE	14.91	77	313200	9.76	PPBV	100
88)	2-CHLOROTOLUENE	15.35	126	176036	10.07	PPBV	100
89)	n-PROPYLBENZENE	15.38	120	189138	10.78	PPBV	98
90)	4-ETHYLTOLUENE	15.56	105	521901	8.41	PPBV	98
91)	1,3,5-TRIMETHYLBENZENE	15.65	105	504436	9.51	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.87	118	225080	9.12	PPBV	98
93)	tert-BUTYLBENZENE	16.14	134	127756	9.80	PPBV	94
94)	1,2,4-TRIMETHYLBENZENE	16.15	105	449254	9.75	PPBV	95
95)	m-DICHLOROBENZENE	16.34	146	272293	9.14	PPBV	100
96)	BENZYL CHLORIDE	16.35	91	313087	8.78	PPBV	98
97)	p-DICHLOROBENZENE	16.43	146	266781	9.09	PPBV	100
98)	sec-BUTYLBENZENE	16.48	134	137144	9.11	PPBV	99
99)	p-ISOPROPYLTOLUENE	16.68	134	140458	9.11	PPBV	97
100)	o-DICHLOROBENZENE	16.86	146	251900	8.86	PPBV	99
101)	n-BUTYLBENZENE	17.20	134	106218	8.80	PPBV	99
102)	HEXACHLOROETHANE	17.68	117	233257	10.07	PPBV	96
103)	HEXACHLOROBUTADIENE	19.51	225	142133	9.88	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	18.94	180	85979	8.70	PPBV	99
106)	NAPHTHALENE	19.08	128	151896	8.34	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36334.D M3W1350.M Tue Oct 08 10:24:47 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36334.D Vial: 3
Acq On : 7 Oct 2013 10:57 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50276

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36335.D Vial: 3
Acq On : 7 Oct 2013 11:36 am Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:56 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	132974	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.89	114	607823	10.00	PPBV	-0.07
68) CHLOROBENZENE-D5	13.03	82	259901	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	265840	10.00	PPBV	-0.07

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.67	95	277018	9.49	PPBV	-0.07

Spiked Amount 10.000 Range 65 - 128 Recovery = 94.90%

Target Compounds						Qvalue
3) FREON 152A	4.28	65	107945	8.87	PPBV	92
4) CHLORODIFLUOROMETHANE	4.31	67	35882	8.05	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.36	85	409680	8.60	PPBV	97
6) PROPYLENE	4.32	41	150136	9.93	PPBV	97
7) FREON 114	4.50	85	454682	9.03	PPBV	100
8) CHLOROMETHANE	4.46	50	191024	8.78	PPBV	98
9) VINYL CHLORIDE	4.58	62	197663	9.23	PPBV	98
10) 1,3-BUTADIENE	4.64	54	136968	8.87	PPBV	90
11) n-BUTANE	4.67	43	272057	8.95	PPBV	98
12) BROMOMETHANE	4.81	94	189147	9.40	PPBV	99
13) CHLOROETHANE	4.90	64	104496	9.49	PPBV	98
14) DICHLOROFLUOROMETHANE	4.94	67	391328	9.37	PPBV	98
15) ACETONITRILE	5.11	41	119950	10.22	PPBV	99
16) FREON 123	5.15	83	428233	9.24	PPBV	99
17) FREON 123A	5.19	117	246841	8.97	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.32	101	381588	8.21	PPBV	100
19) ISOPROPYL ALCOHOL	5.37	45	299381	10.25	PPBV	94
20) ACETONE	5.23	58	88955	11.22	PPBV #	78
21) PENTANE	5.49	42	179887	9.15	PPBV	94
23) IODOMETHANE	5.67	142	509479	9.62	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.71	96	182478	9.65	PPBV	96
25) CARBON DISULFIDE	5.98	76	538802	10.13	PPBV	98
26) ETHANOL	4.97	45	67648	9.24	PPBV	94
27) BROMOETHENE	5.09	106	189664	9.18	PPBV	98
28) ACRYLONITRILE	5.52	52	102230	10.44	PPBV	95
29) METHYLENE CHLORIDE	5.79	84	168971	9.10	PPBV	90
30) 3-CHLOROPROPENE	5.85	76	82973	9.98	PPBV #	83
31) FREON 113	5.93	151	309433	9.59	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.38	96	178404	9.90	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.72	59	363506	9.94	PPBV	94
34) METHYL TERTIARY BUTYL ETHE	6.53	73	440671	9.49	PPBV	98
35) TETRAHYDROFURAN	7.68	72	87464	10.75	PPBV	98
36) HEXANE	7.23	57	271875	9.84	PPBV	92
37) VINYL ACETATE	6.63	86	37018	10.03	PPBV #	81
38) 1,1-DICHLOROETHANE	6.53	63	305520	8.85	PPBV	98
39) METHYL ETHYL KETONE	6.80	72	86815	10.63	PPBV #	90
40) cis-1,2-DICHLOROETHYLENE	7.18	96	179692	9.09	PPBV	99
41) DIISOPROPYL ETHER	7.23	45	584671	9.54	PPBV	99
42) ETHYL ACETATE	7.30	61	58825	10.15	PPBV	97
43) METHYL ACRYLATE	7.31	55	265248	9.68	PPBV	96
44) CHLOROFORM	7.38	83	321758	8.56	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.92	57	339793	9.26	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.17	97	313685	8.22	PPBV	99
47) CARBON TETRACHLORIDE	8.70	117	324955	8.22	PPBV	99
48) 1,2-DICHLOROETHANE	7.96	62	165687	8.11	PPBV	99
50) BENZENE	8.57	78	532161	8.53	PPBV	99
51) CYCLOHEXANE	8.74	84	283986	8.74	PPBV	97
52) 2,3-DIMETHYLPENTANE	8.93	71	125388	8.69	PPBV	96

(#) = qualifier out of range (m) = manual integration
3W36335.D M3W1350.M Tue Oct 08 10:25:03 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36335.D Vial: 3
Acq On : 7 Oct 2013 11:36 am Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:56 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

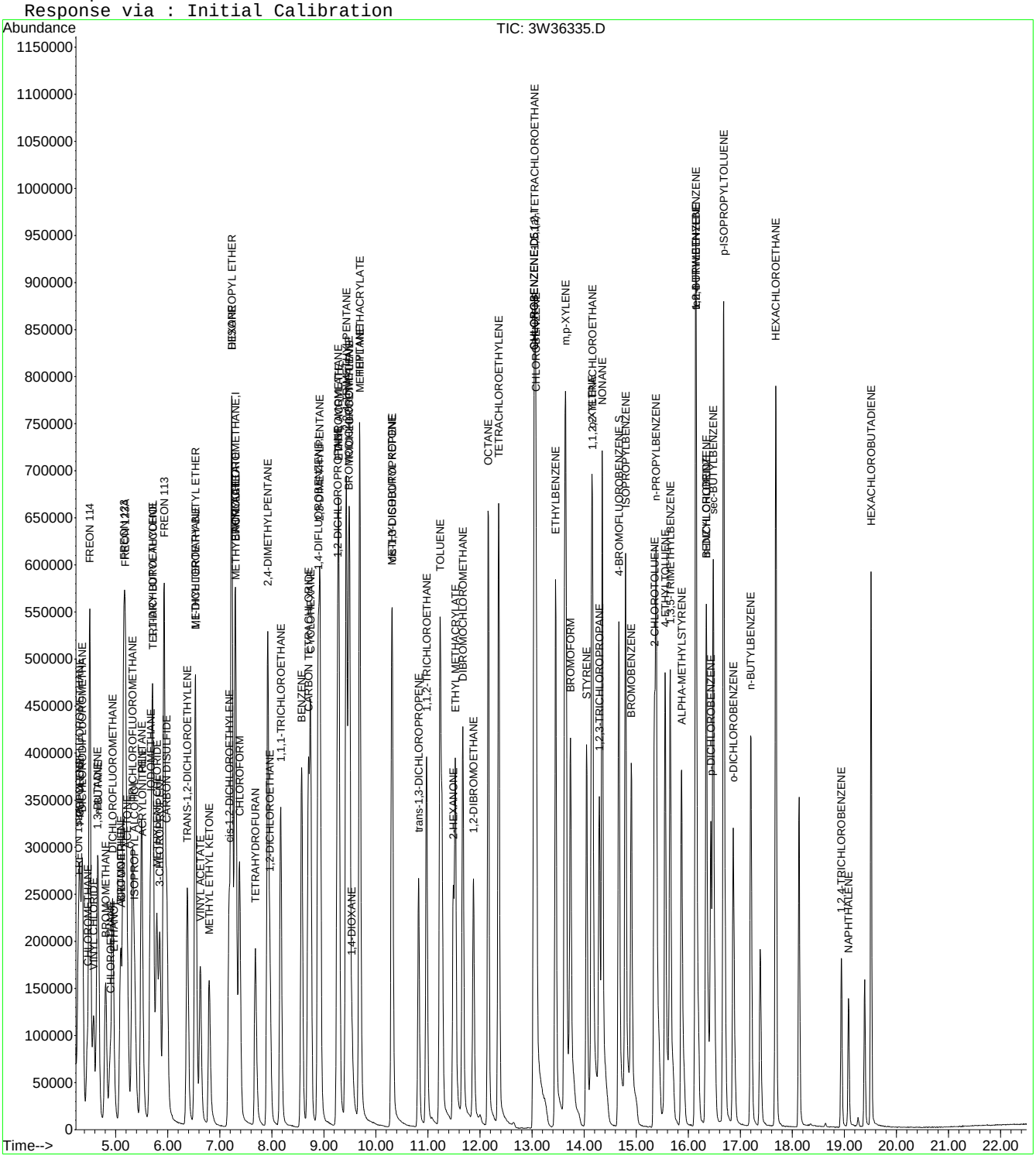
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.50	95	209335	8.59	PPBV		94
54)	1,2-DICHLOROPROPANE	9.26	63	204366	9.03	PPBV		95
55)	DIBROMOMETHANE	9.28	174	220405	9.01	PPBV		99
56)	ETHYL ACRYLATE	9.29	55	336143	9.45	PPBV		99
57)	BROMODICHLOROMETHANE	9.47	83	328423	8.17	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.43	57	873738	9.16	PPBV		100
59)	1,4-DIOXANE	9.54	88	103078	8.60	PPBV		94
60)	HEPTANE	9.69	43	308480	9.00	PPBV		99
62)	METHYL METHACRYLATE	9.70	69	180395	9.72	PPBV	#	87
63)	METHYL ISOBUTYL KETONE	10.30	58	139606	10.18	PPBV		95
64)	cis-1,3-DICHLOROPROPENE	10.32	75	278189	9.88	PPBV		91
65)	TOLUENE	11.23	92	343962	8.96	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.82	75	216598	8.03	PPBV		94
67)	1,1,2-TRICHLOROETHANE	10.97	83	171566	8.93	PPBV		99
69)	2-HEXANONE	11.49	58	188370	12.24	PPBV		93
70)	ETHYL METHACRYLATE	11.52	69	290407	12.06	PPBV		96
71)	TETRACHLOROETHYLENE	12.36	164	238477	9.83	PPBV		100
72)	DIBROMOCHLOROMETHANE	11.67	129	348772	10.12	PPBV		99
73)	1,2-DIBROMOETHANE	11.88	107	270357	10.33	PPBV		100
74)	OCTANE	12.16	43	410877	10.97	PPBV		99
75)	1,1,1,2-TETRACHLOROETHANE	13.06	131	251002	10.05	PPBV		95
76)	CHLOROBENZENE	13.08	112	402030	9.99	PPBV		97
77)	ETHYLBENZENE	13.45	91	646828	9.96	PPBV		99
78)	m,p-XYLENE	13.64	106	493555	20.12	PPBV		100
79)	o-XYLENE	14.15	106	244924	10.30	PPBV		94
80)	STYRENE	14.05	104	319010	8.91	PPBV		97
81)	NONANE	14.35	43	374097	11.19	PPBV		99
82)	BROMOFORM	13.74	173	290851	9.15	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.16	83	337886	9.67	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.29	75	249534	9.90	PPBV		100
86)	ISOPROPYLBENZENE	14.80	105	676071	9.62	PPBV		98
87)	BROMOBENZENE	14.91	77	281935	9.28	PPBV		99
88)	2-CHLOROTOLUENE	15.35	126	160448	9.69	PPBV		99
89)	n-PROPYLBENZENE	15.39	120	172516	10.39	PPBV		98
90)	4-ETHYLTOLUENE	15.56	105	477755	8.13	PPBV		98
91)	1,3,5-TRIMETHYLBENZENE	15.65	105	459816	9.16	PPBV		98
92)	ALPHA-METHYLSTYRENE	15.87	118	204118	8.74	PPBV		99
93)	tert-BUTYLBENZENE	16.14	134	116412	9.44	PPBV		95
94)	1,2,4-TRIMETHYLBENZENE	16.15	105	409533	9.39	PPBV		95
95)	m-DICHLOROBENZENE	16.35	146	256280	9.09	PPBV		99
96)	BENZYL CHLORIDE	16.35	91	284091	8.41	PPBV		99
97)	p-DICHLOROBENZENE	16.43	146	235521	8.48	PPBV		100
98)	sec-BUTYLBENZENE	16.48	134	125334	8.80	PPBV		97
99)	p-ISOPROPYLTOLUENE	16.68	134	126585	8.68	PPBV		98
100)	o-DICHLOROBENZENE	16.86	146	228138	8.48	PPBV		99
101)	n-BUTYLBENZENE	17.21	134	98209	8.59	PPBV		97
102)	HEXACHLOROETHANE	17.68	117	212915	9.71	PPBV		96
103)	HEXACHLOROBUTADIENE	19.51	225	138373	10.16	PPBV		100
104)	1,2,4-TRICHLOROBENZENE	18.95	180	81609	8.72	PPBV		96
106)	NAPHTHALENE	19.08	128	139766	8.16	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36335.D M3W1350.M Tue Oct 08 10:25:03 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36335.D Vial: 3
Acq On : 7 Oct 2013 11:36 am Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50276

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 16:21

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44125.D Vial: 2
Acq On : 17 Oct 2013 2:25 pm Operator: danat
Sample : jb50050-1dup Inst : MSW
Misc : MS56442,VW1767,40,,,,1.55 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 14:57:18 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

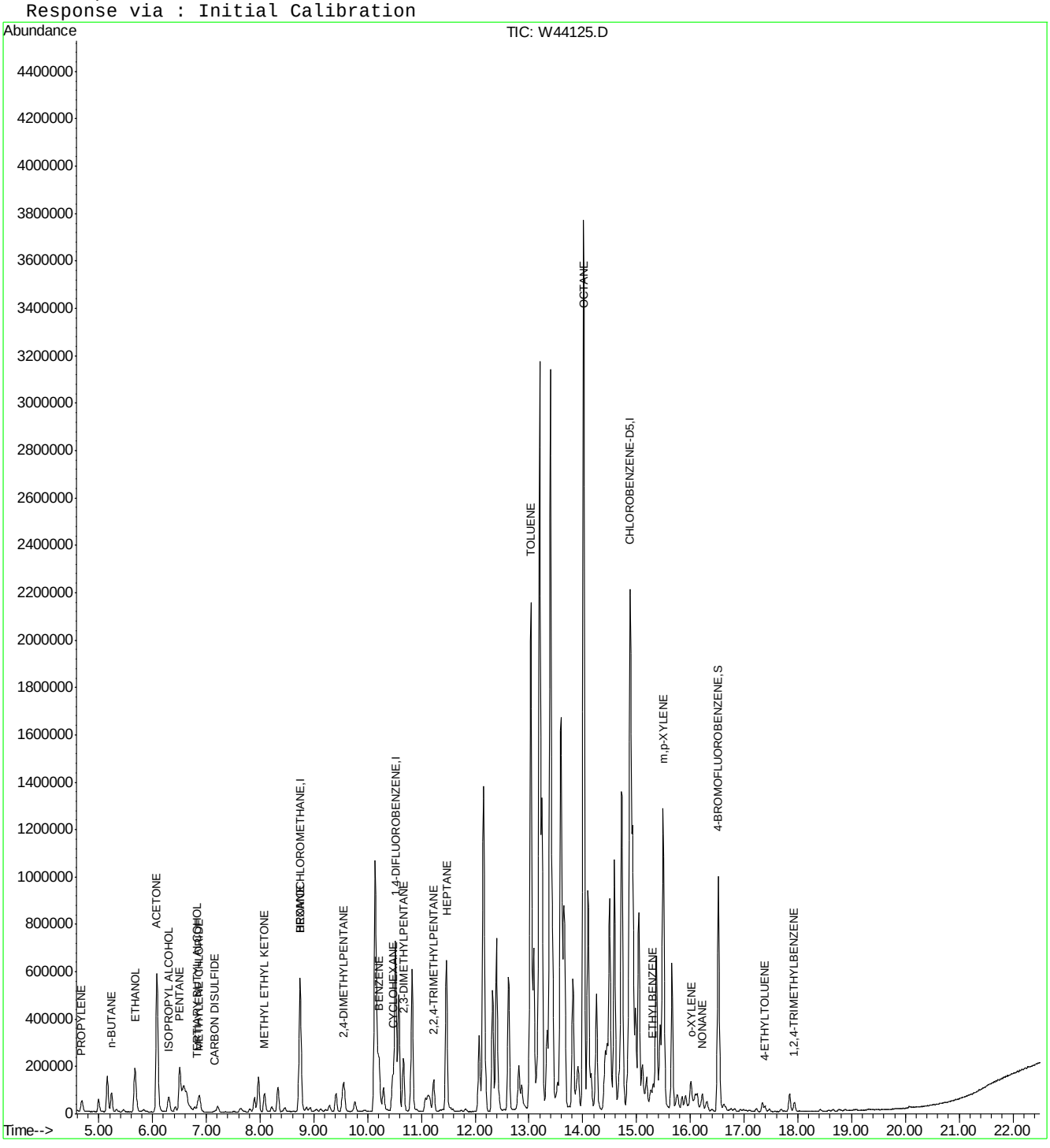
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	175276	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	862468	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	394163m	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	474858	10.15	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.50%			
Target Compounds						Qvalue
6) PROPYLENE	4.68	41	34429	2.09	PPBV	95
11) n-BUTANE	5.24	58	13304	3.00	PPBV	97
19) ISOPROPYL ALCOHOL	6.30	45	90964	3.03	PPBV	93
20) ACETONE	6.08	58	282303	24.74	PPBV	95
22) PENTANE	6.50	57	21126	3.54	PPBV #	91
26) CARBON DISULFIDE	7.14	76	9766	0.16	PPBV	79
27) ETHANOL	5.68	45	318536	41.45	PPBV	98
30) METHYLENE CHLORIDE	6.85	84	26533	1.16	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.83	59	26624	0.82	PPBV #	59
37) HEXANE	8.75	57	116989	3.29	PPBV #	83
40) METHYL ETHYL KETONE	8.08	72	32411	3.07	PPBV #	1
46) 2,4-DIMETHYLPENTANE	9.57	57	51559	1.23	PPBV #	51
51) BENZENE	10.21	78	187234	2.81	PPBV	100
52) CYCLOHEXANE	10.47	84	84892	2.81	PPBV	96
53) 2,3-DIMETHYLPENTANE	10.67	71	52380	3.43	PPBV	95
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	55143	0.52	PPBV #	1
62) HEPTANE	11.47	43	333662	9.09	PPBV	97
66) TOLUENE	13.03	92	1363037	29.22	PPBV	99
75) OCTANE	14.02	43	2011439	39.84	PPBV	96
78) ETHYLBENZENE	15.31	91	106831	1.10	PPBV	100
79) m,p-XYLENE	15.49	106	162738	4.30	PPBV	99
80) o-XYLENE	16.02	106	33007	0.92	PPBV	95
83) NONANE	16.22	43	31262	0.66	PPBV	94
91) 4-ETHYLTOLUENE	17.39	105	21256m	0.24	PPBV	
95) 1,2,4-TRIMETHYLBENZENE	17.94	105	33640	0.49	PPBV #	30

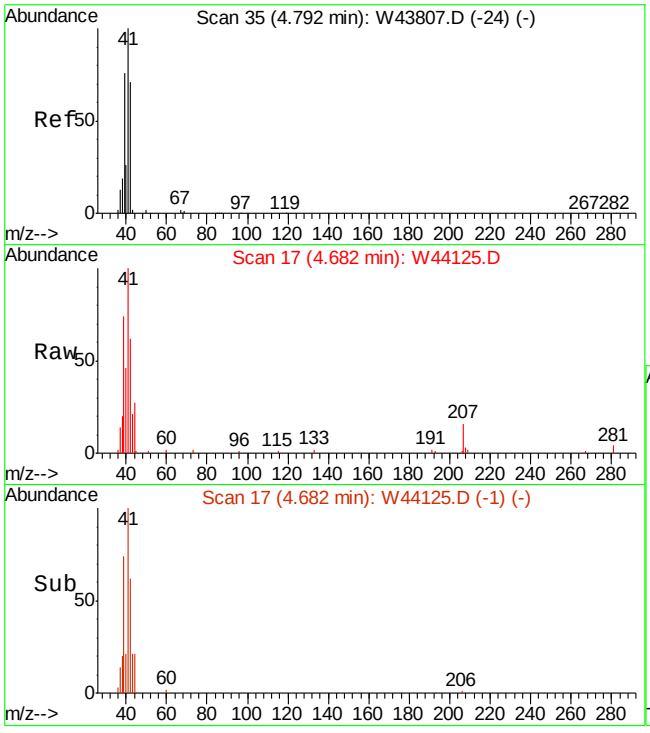
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44125.D Vial: 2
Acq On : 17 Oct 2013 2:25 pm Operator: danat
Sample : jb50050-1dup Inst : MSW
Misc : MS56442,VW1767,40,,,,1.55 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:39 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

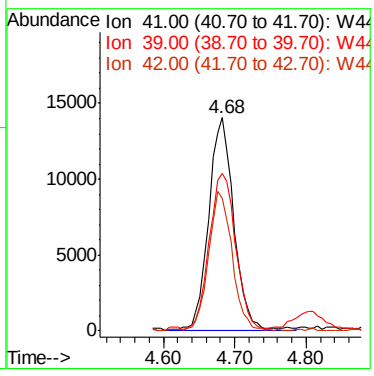


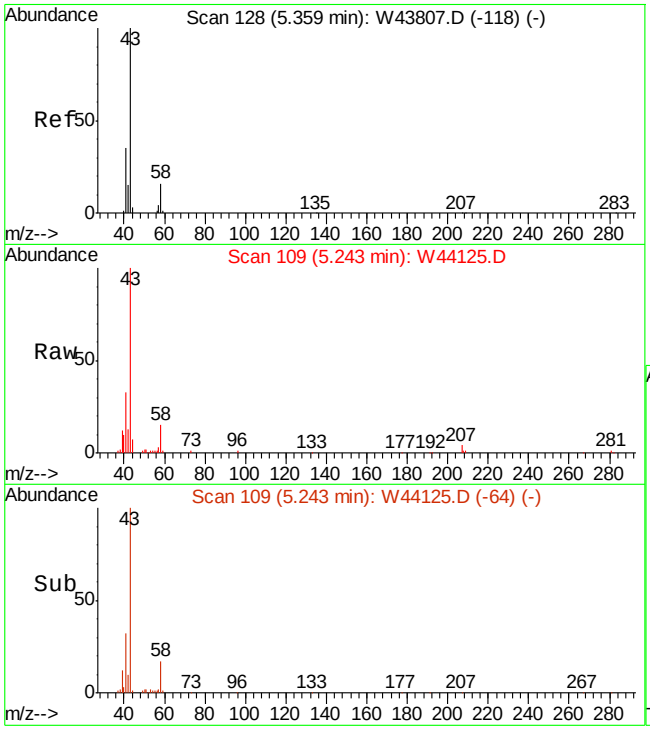


#6
PROPYLENE
Concen: 2.09 PPBV
RT: 4.68 min Scan# 17
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 41 Resp: 34429

Ion	Ratio	Lower	Upper
41	100		
39	73.9	48.7	88.7
42	62.3	44.9	84.9

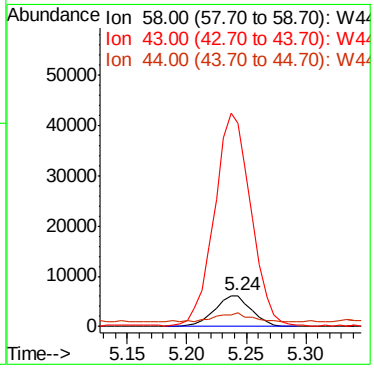




#11
n-BUTANE
Concen: 3.00 PPBV
RT: 5.24 min Scan# 109
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

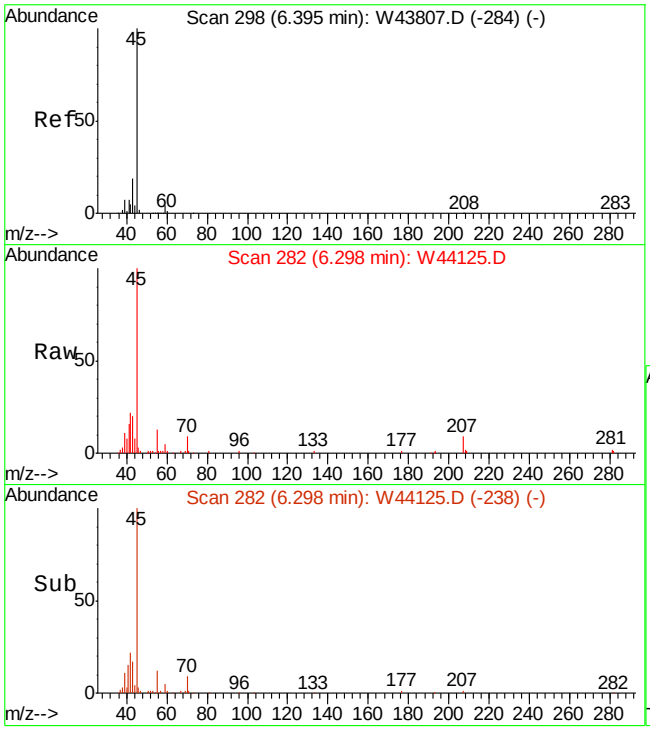
Tgt Ion: 58 Resp: 13304

Ion	Ratio	Lower	Upper
58	100		
43	681.3	552.0	828.0
44	28.4	20.4	30.6



7.4.1

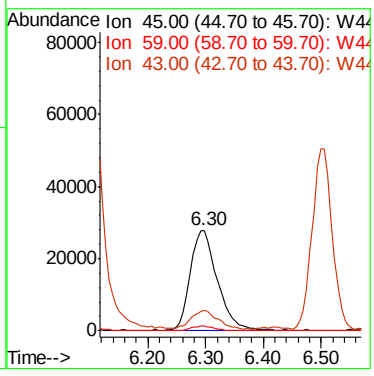
7

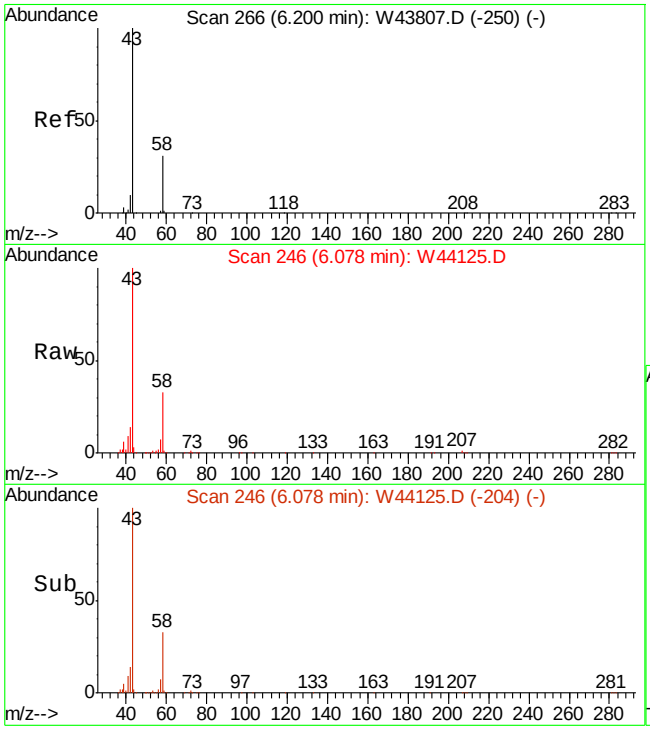


#19
ISOPROPYL ALCOHOL
Concen: 3.03 PPBV
RT: 6.30 min Scan# 282
Delta R.T. -0.03 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 45 Resp: 90964

Ion	Ratio	Lower	Upper
45	100		
59	5.2	0.0	24.3
43	20.0	0.0	36.4

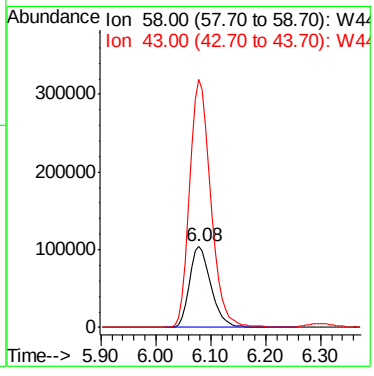


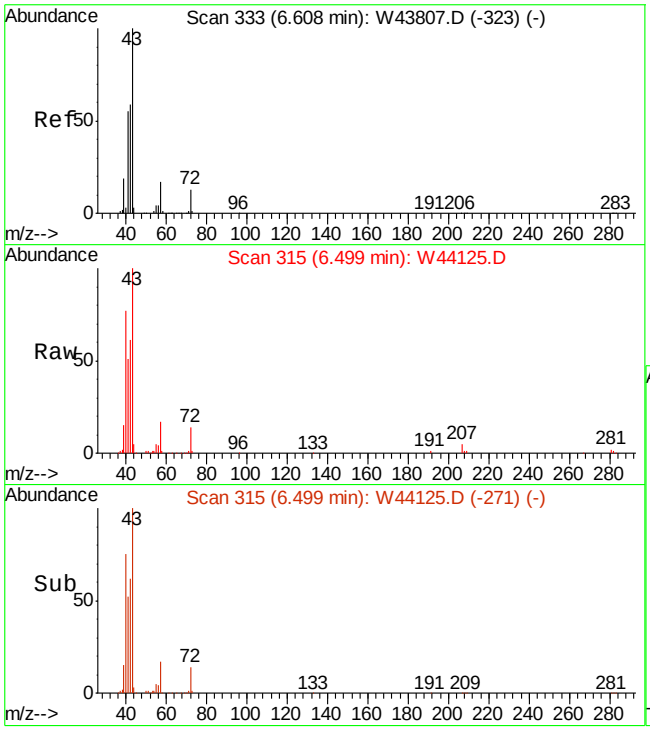


#20
ACETONE
Concen: 24.74 PPBV
RT: 6.08 min Scan# 246
Delta R.T. -0.04 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 58 Resp: 282303

Ion	Ratio	Lower	Upper
58	100		
43	301.2	270.7	310.7

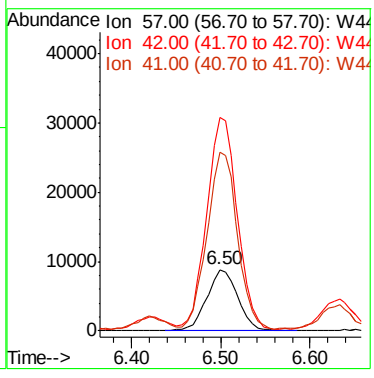


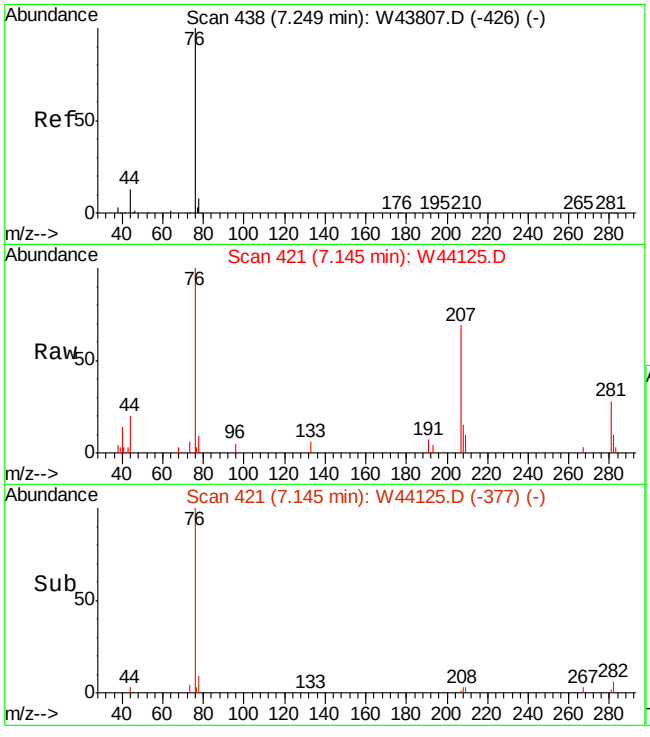


#22
PENTANE
Concen: 3.54 PPBV
RT: 6.50 min Scan# 315
Delta R.T. -0.03 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 57 Resp: 21126

Ion	Ratio	Lower	Upper
57	100		
42	347.3	352.7	392.7#
41	292.5	286.0	326.0

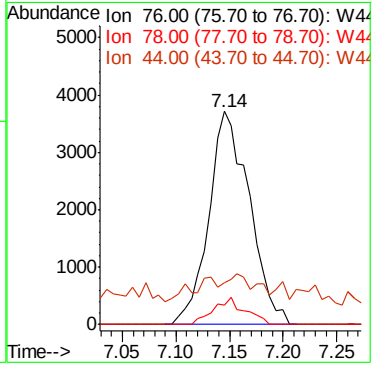


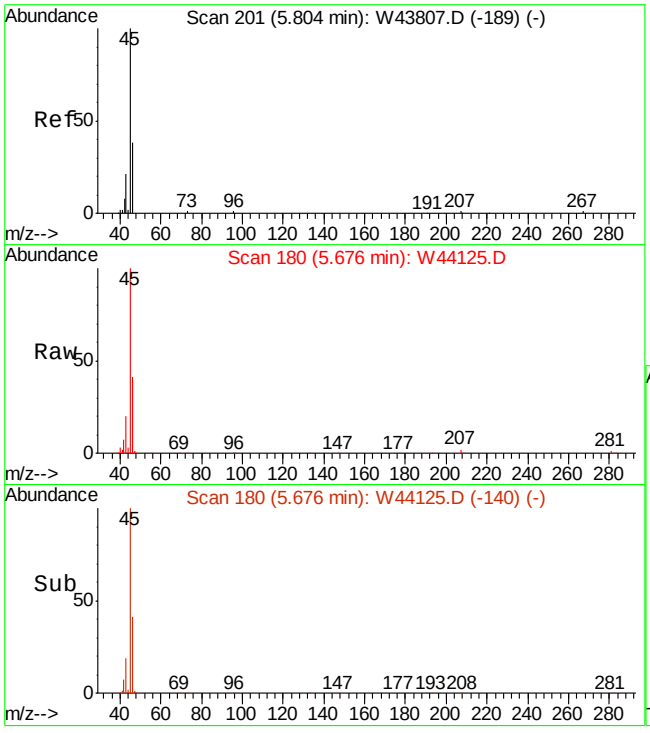


#26
CARBON DISULFIDE
Concen: 0.16 PPBV
RT: 7.14 min Scan# 421
Delta R.T. -0.03 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 76 Resp: 9766

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	29.0
44	25.2	0.0	31.4

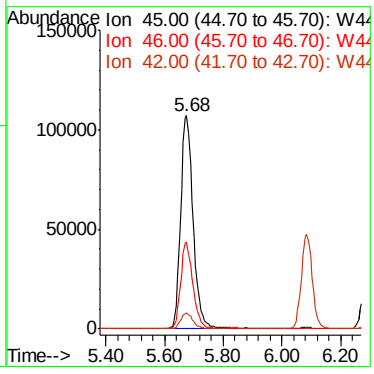


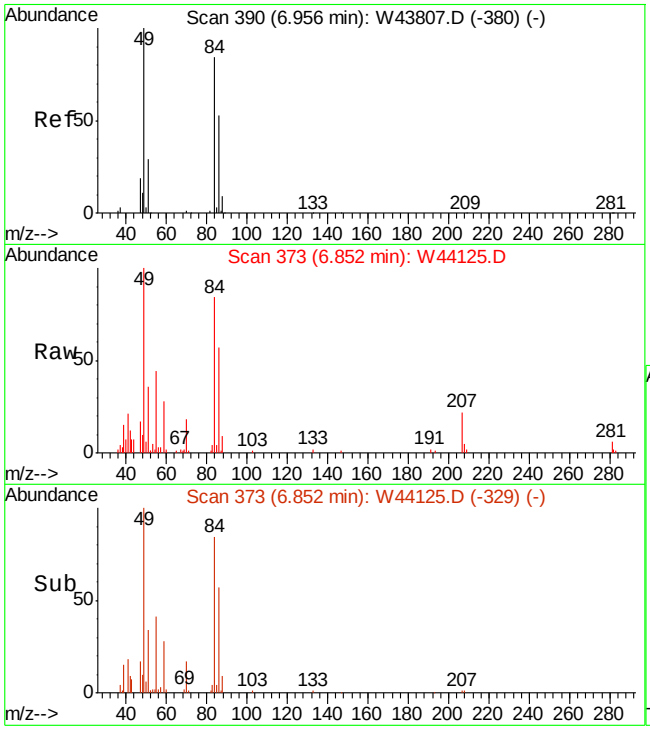


#27
ETHANOL
Concen: 41.45 PPBV
RT: 5.68 min Scan# 180
Delta R.T. -0.05 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 45 Resp: 318536

Ion	Ratio	Lower	Upper
45	100		
46	39.6	18.3	58.3
42	7.5	0.0	27.7

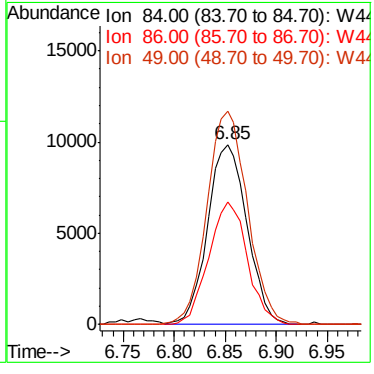


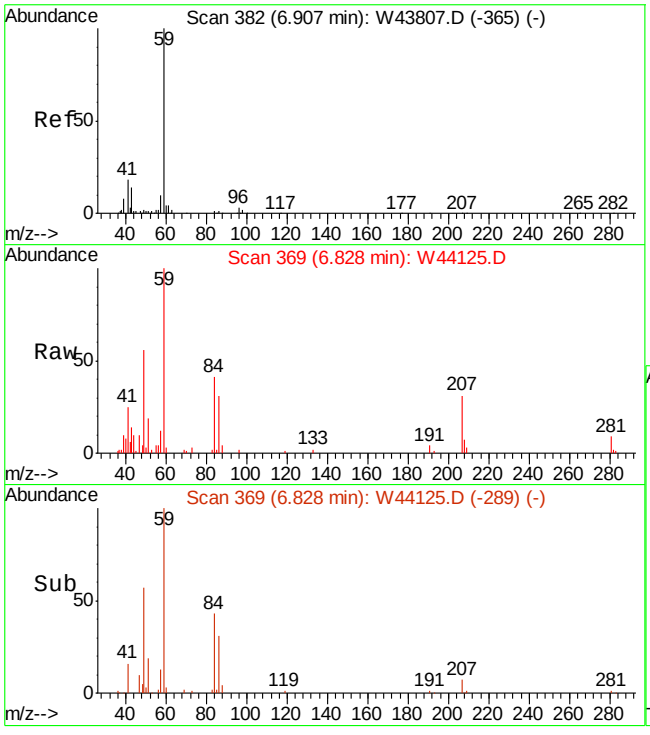


#30
METHYLENE CHLORIDE
Concen: 1.16 PPBV
RT: 6.85 min Scan# 373
Delta R.T. -0.03 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 84 Resp: 26533

Ion	Ratio	Lower	Upper
84	100		
86	66.6	43.2	83.2
49	122.1	0.0	320.8

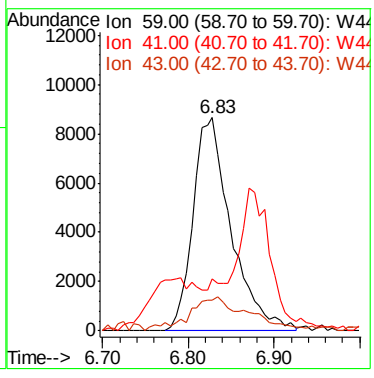


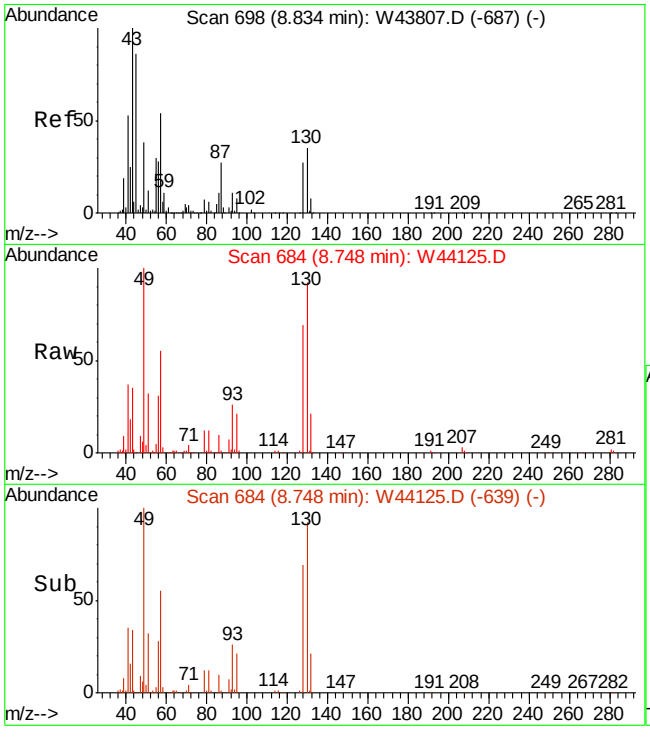


#34
TERTIARY BUTYL ALCOHOL
Concen: 0.82 PPBV
RT: 6.83 min Scan# 369
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 59 Resp: 26624

Ion	Ratio	Lower	Upper
59	100		
41	0.0	1.4	41.4#
43	25.8	0.0	32.3

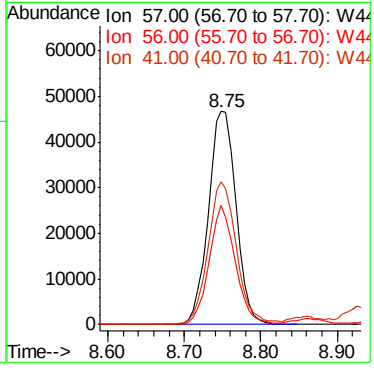


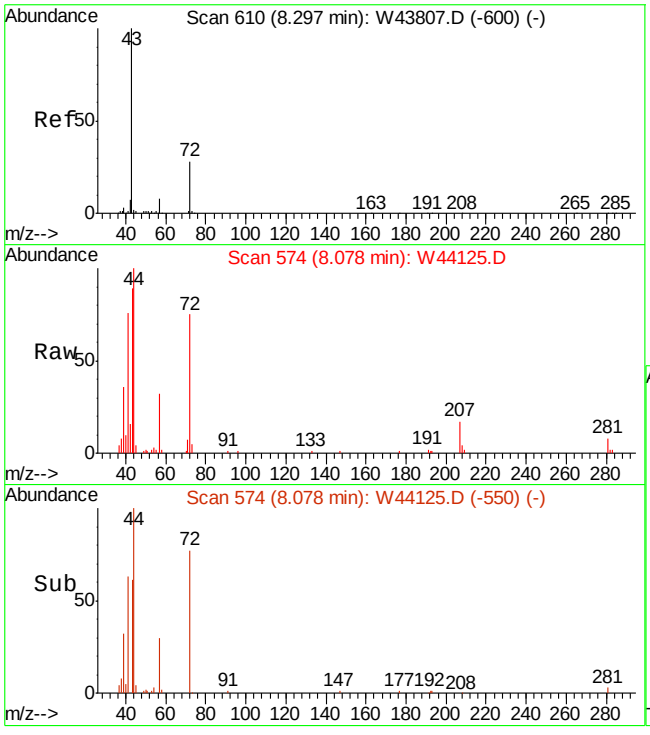


#37
HEXANE
Concen: 3.29 PPBV
RT: 8.75 min Scan# 684
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 57 Resp: 116989

Ion	Ratio	Lower	Upper
57	100		
56	52.7	32.2	72.2
41	69.2	74.7	114.7#

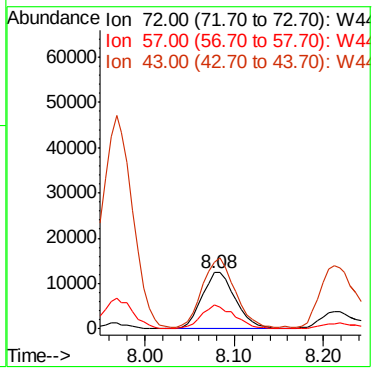


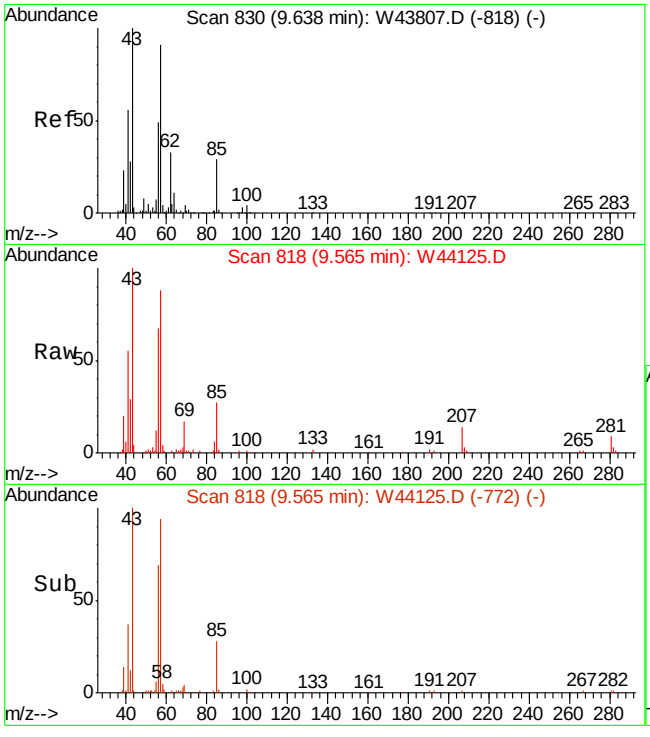


#40
METHYL ETHYL KETONE
Concen: 3.07 PPBV
RT: 8.08 min Scan# 574
Delta R.T. -0.15 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 72 Resp: 32411

Ion	Ratio	Lower	Upper
72	100		
57	42.9	10.3	50.3
43	119.4	364.5	404.5#

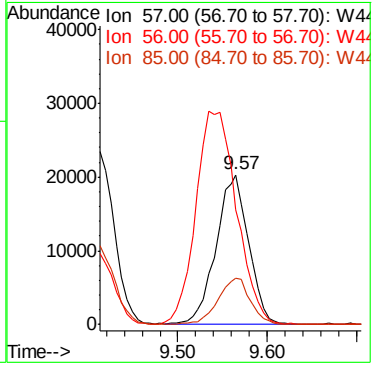


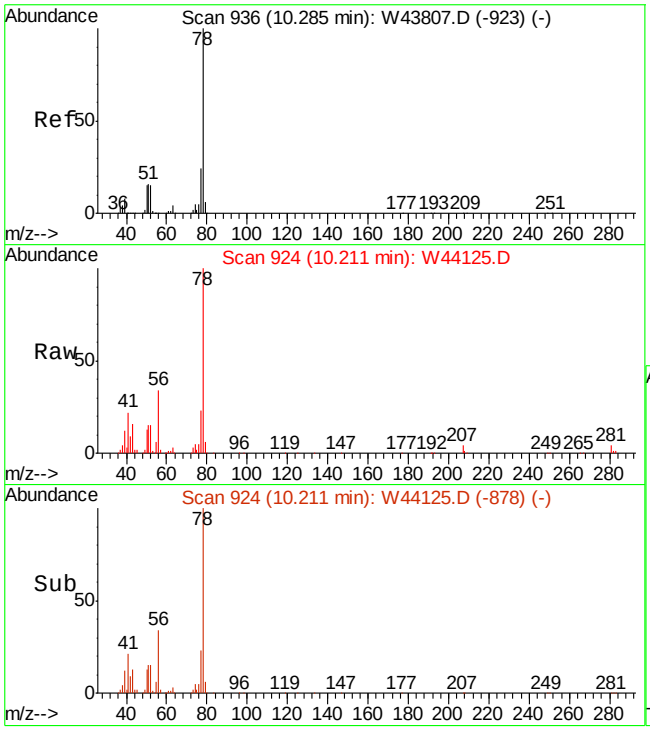


#46
2,4-DIMETHYLPENTANE
Concen: 1.23 PPBV
RT: 9.57 min Scan# 818
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 57 Resp: 51559

Ion	Ratio	Lower	Upper
57	100		
56	0.0	44.5	66.7#
85	30.5	24.4	36.6

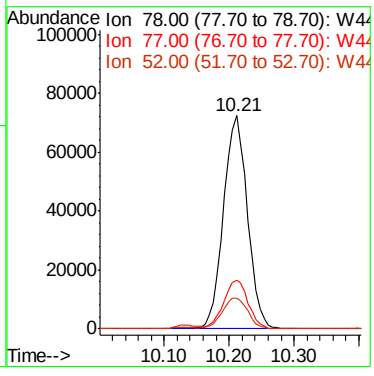


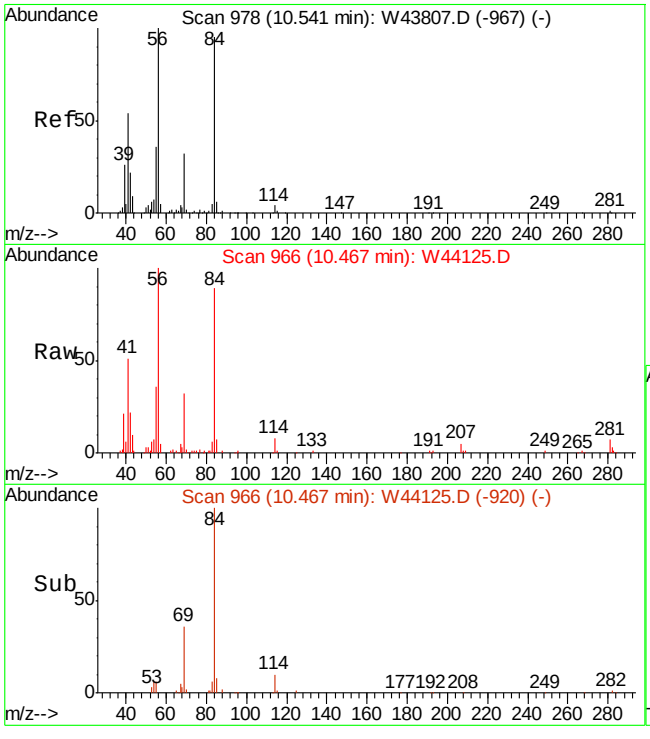


#51
BENZENE
Concen: 2.81 PPBV
RT: 10.21 min Scan# 924
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 78 Resp: 187234

Ion	Ratio	Lower	Upper
78	100		
77	23.6	3.7	43.7
52	15.0	0.0	35.0

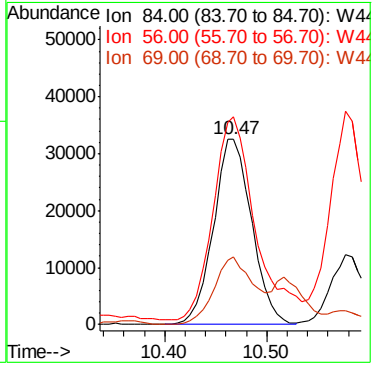




#52
CYCLOHEXANE
Concen: 2.81 PPBV
RT: 10.47 min Scan# 966
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

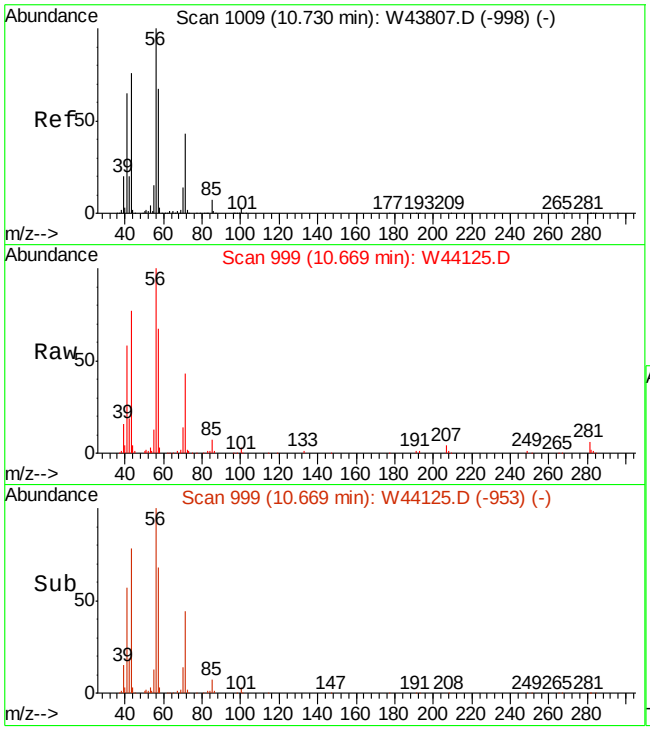
Tgt Ion: 84 Resp: 84892

Ion	Ratio	Lower	Upper
84	100		
56	122.1	96.7	136.7
69	39.9	20.6	60.6



7.4.1

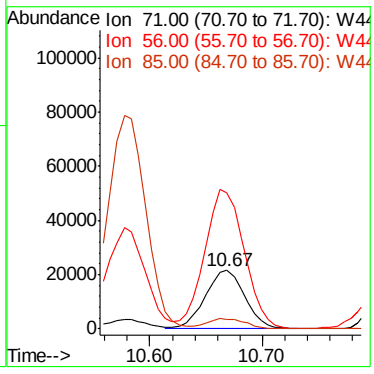
7

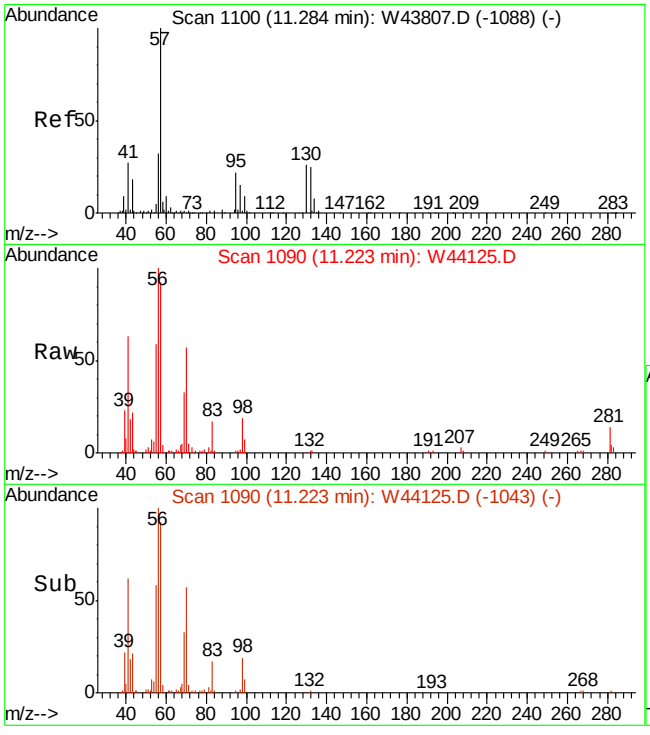


#53
2,3-DIMETHYLPENTANE
Concen: 3.43 PPBV
RT: 10.67 min Scan# 999
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 71 Resp: 52380

Ion	Ratio	Lower	Upper
71	100		
56	236.8	196.2	294.4
85	16.8	13.4	20.0

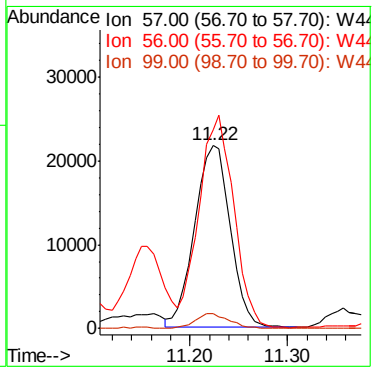


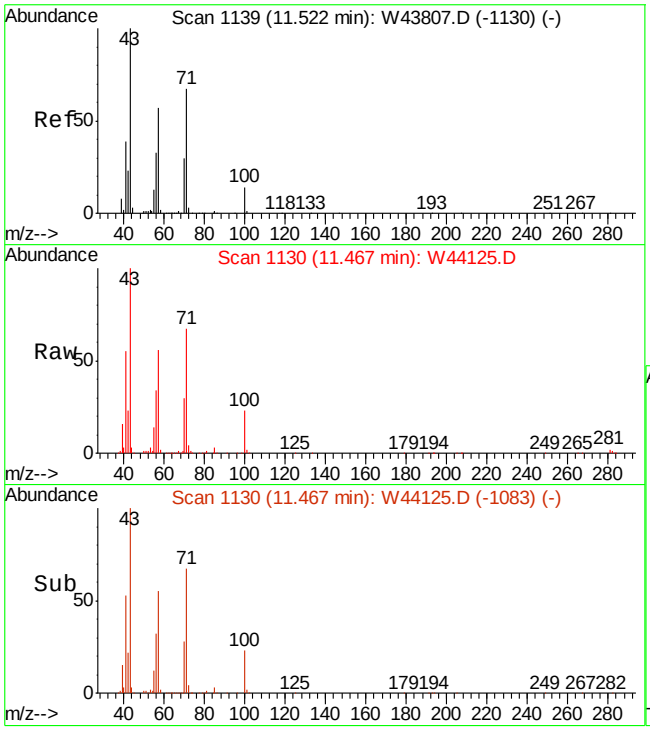


#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.52 PPBV
RT: 11.22 min Scan# 1090
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 57 Resp: 55143

Ion	Ratio	Lower	Upper
57	100		
56	115.3	12.2	52.2#
99	7.6	0.0	28.0

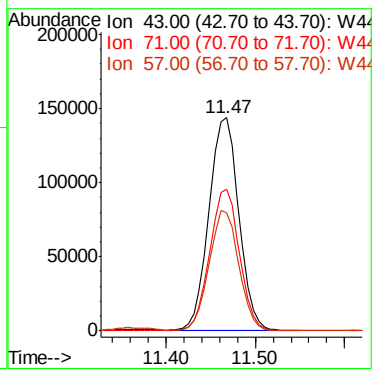


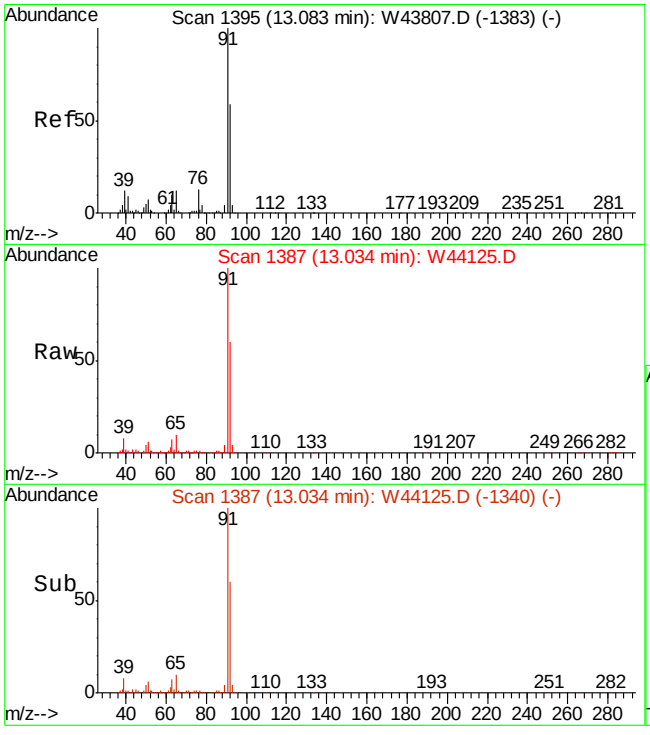


#62
HEPTANE
Concen: 9.09 PPBV
RT: 11.47 min Scan# 1130
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 43 Resp: 333662

Ion	Ratio	Lower	Upper
43	100		
71	66.2	43.7	83.7
57	56.3	34.7	74.7

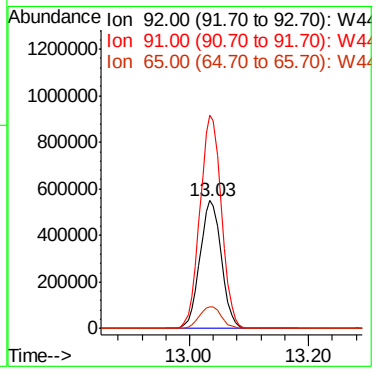




#66
TOLUENE
Concen: 29.22 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 92 Resp: 1363037

Ion	Ratio	Lower	Upper
92	100		
91	168.0	148.0	188.0
65	17.6	0.5	40.5



7.4.1

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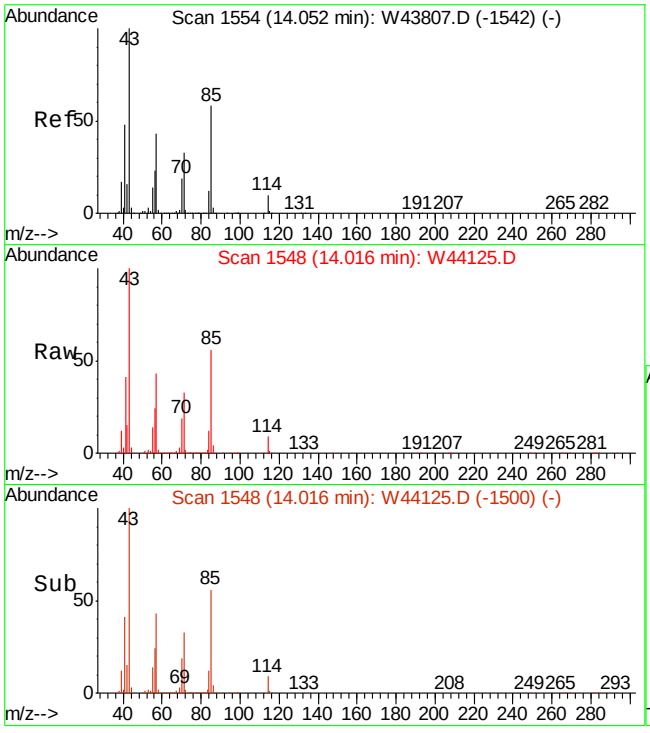
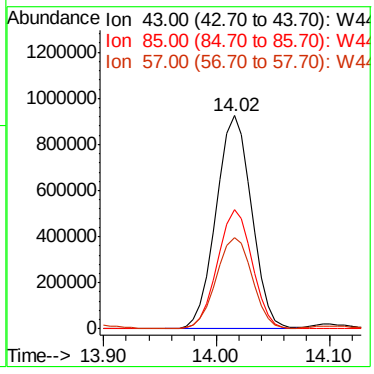
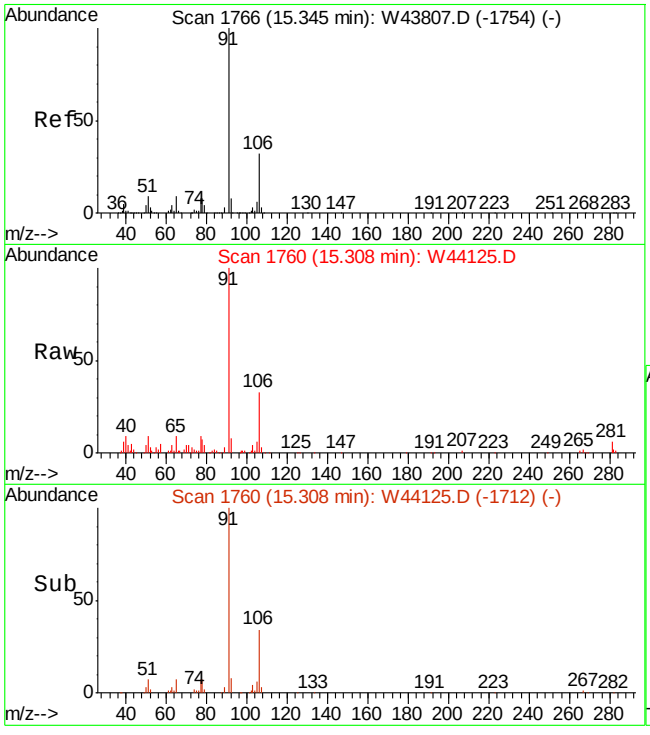


#75
OCTANE
Concen: 39.84 PPBV
RT: 14.02 min Scan# 1548
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 43 Resp: 2011439

Ion	Ratio	Lower	Upper
43	100		
85	55.3	41.1	61.7
57	43.4	33.4	50.2

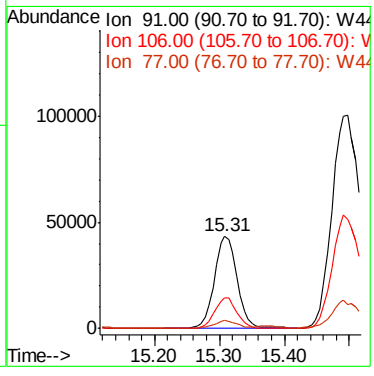


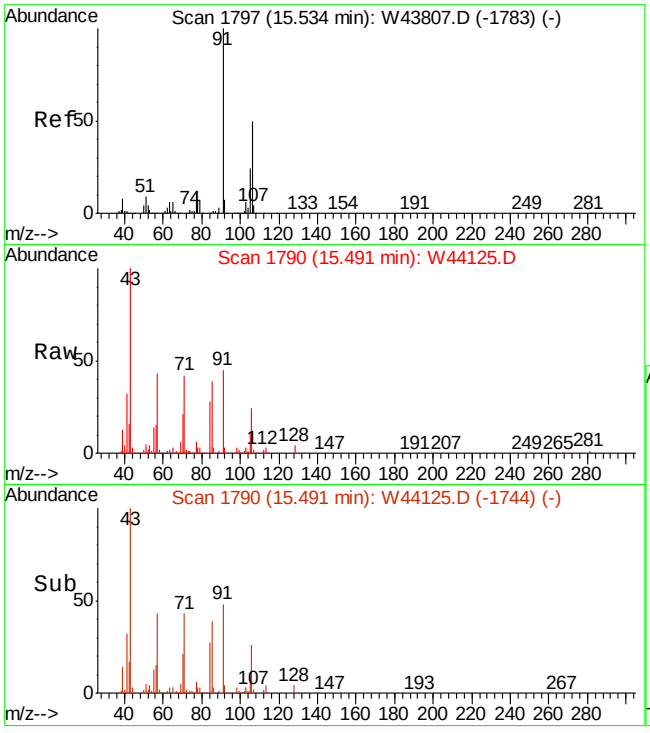


#78
ETHYLBENZENE
Concen: 1.10 PPBV
RT: 15.31 min Scan# 1760
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 91 Resp: 106831

Ion	Ratio	Lower	Upper
91	100		
106	32.2	12.3	52.3
77	7.9	0.0	28.1

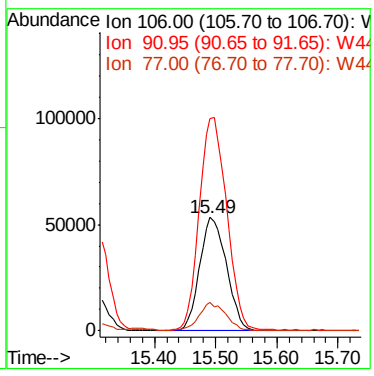


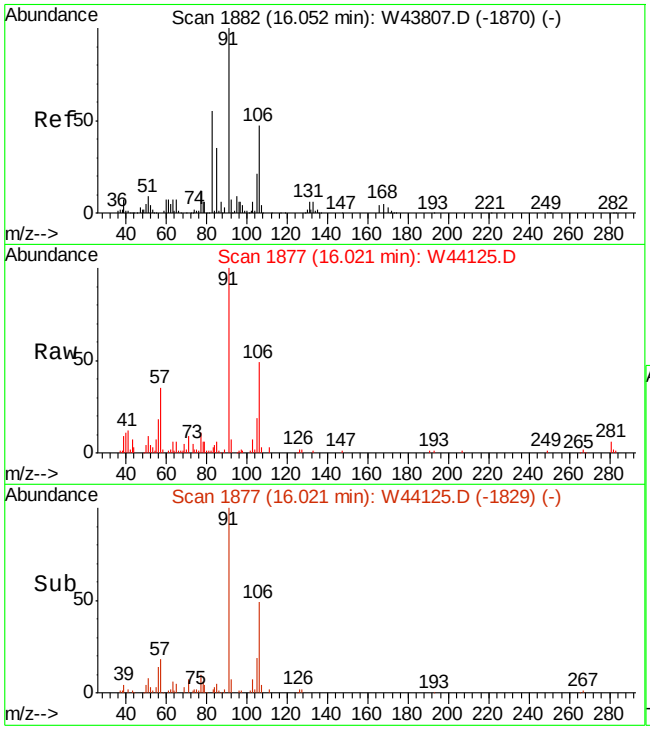


#79
m,p-XYLENE
Concen: 4.30 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion:106 Resp: 162738

Ion	Ratio	Lower	Upper
106	100		
91	187.9	151.2	226.8
77	25.4	18.7	28.1

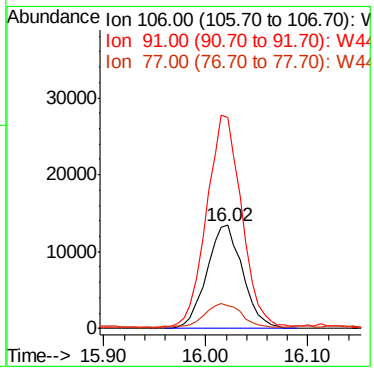




#80
o-XYLENE
Concen: 0.92 PPBV
RT: 16.02 min Scan# 1877
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion:106 Resp: 33007

Ion	Ratio	Lower	Upper
106	100		
91	209.2	182.5	222.5
77	26.6	3.8	43.8



7.4.1

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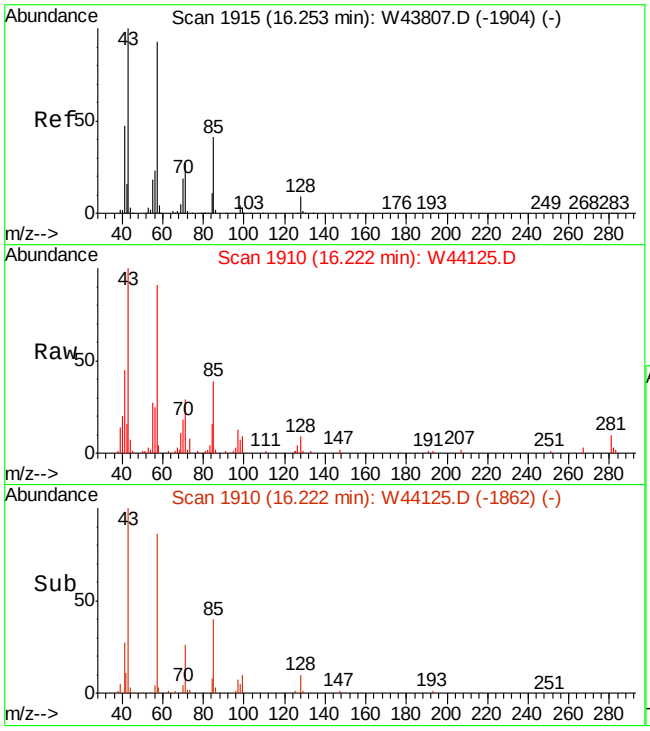
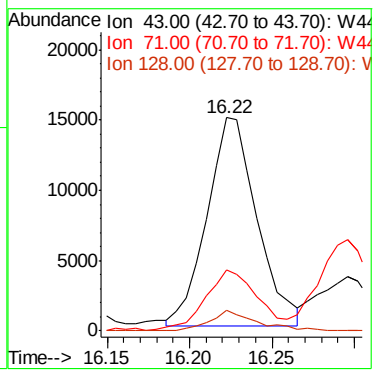
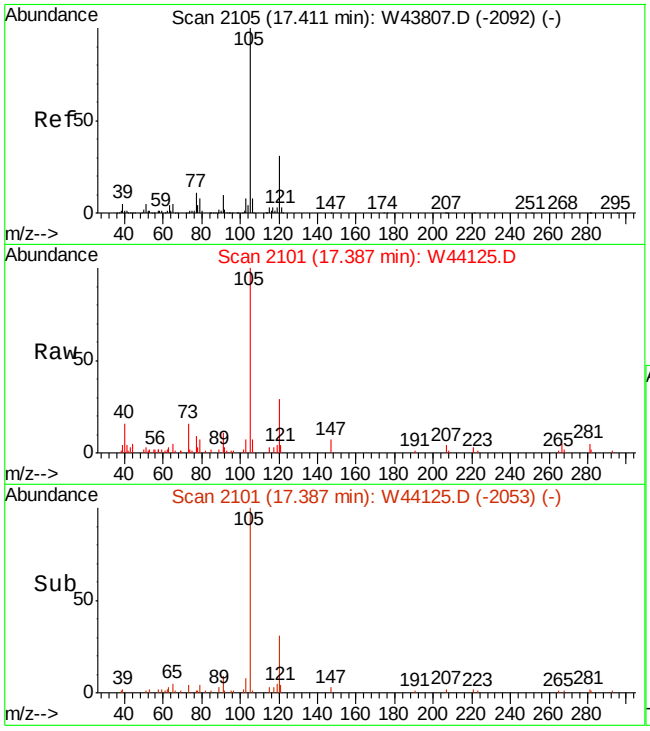


#83
NONANE
Concen: 0.66 PPBV
RT: 16.22 min Scan# 1910
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion: 43 Resp: 31262

Ion	Ratio	Lower	Upper
43	100		
71	30.7	7.3	47.3
128	8.9	0.0	28.0

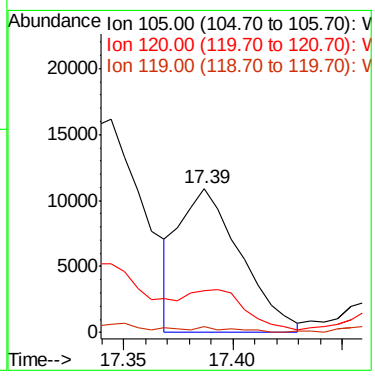


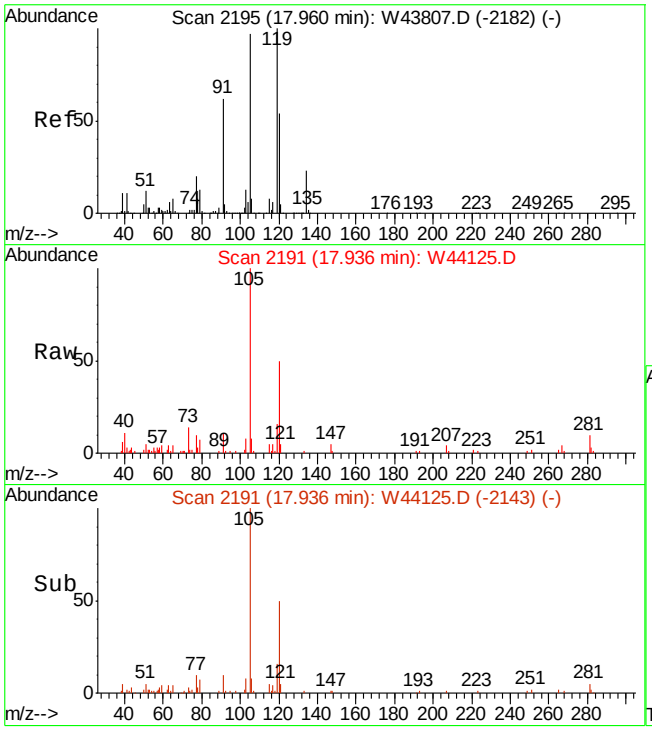


#91
4-ETHYLTOLUENE
Concen: 0.24 PPBV m
RT: 17.39 min Scan# 2101
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion:105 Resp: 21256

Ion	Ratio	Lower	Upper
105	100		
120	90.5	10.9	50.9#
119	10.2	0.0	22.7

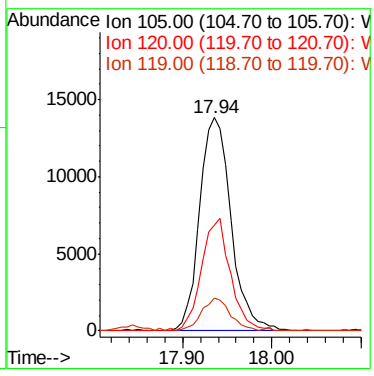




#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 17.94 min Scan# 2191
Delta R.T. -0.01 min
Lab File: W44125.D
Acq: 17 Oct 2013 2:25 pm

Tgt Ion:105 Resp: 33640

Ion	Ratio	Lower	Upper
105	100		
120	48.3	39.1	79.1
119	13.9	102.1	142.1#



7.4.1

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Manual Integration Approval Summary

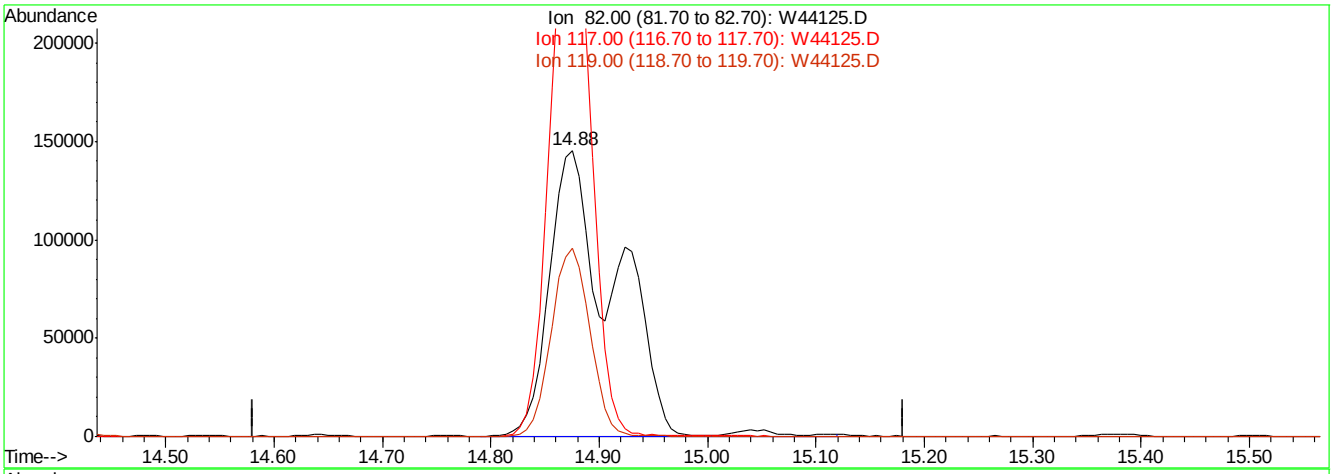
Sample Number:	JB50050-1DUP	**Method:**	TO-15
Lab FileID:	W44125.D	**Analyst approved:**	10/21/13 10:40 Dana Tryon
Injection Time:	10/17/13 14:25	**Supervisor approved:**	10/22/13 16:21 Kanya Veerawat

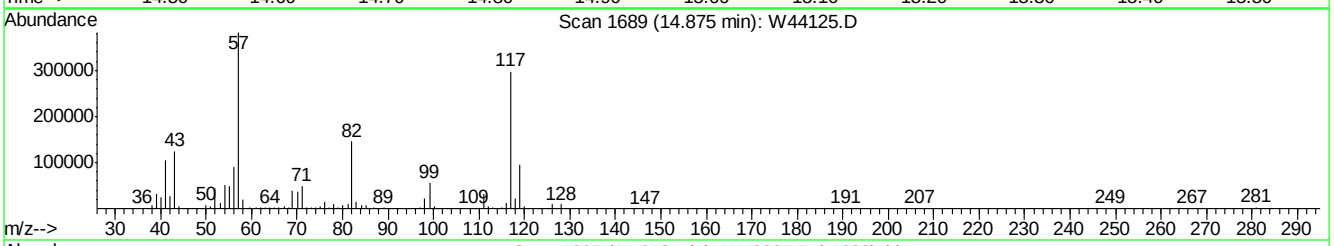
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorobenzene-D5	3114-55-4		14.88	Poor instrument integration
4-Ethyltoluene	622-96-8		17.39	Poor instrument integration

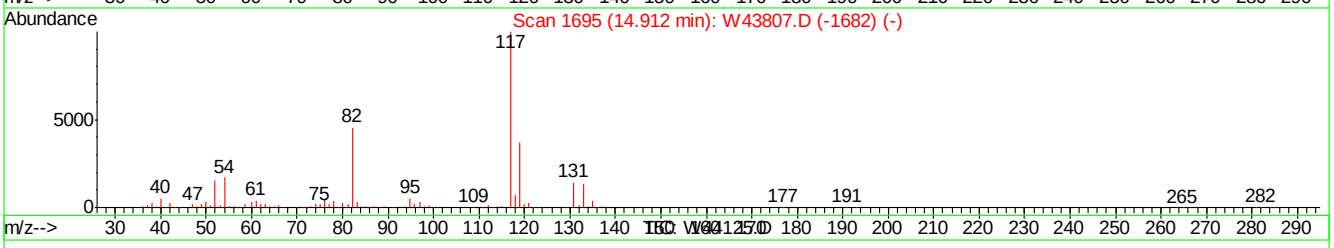
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44125.D Vial: 2
Acq On : 17 Oct 2013 2:25 pm Operator: danat
Sample : jb50050-1dup Inst : MSW
Misc : MS56442,VW1767,40,,,,1.55 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:35 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration







(69) CHLOROBENZENE-D5 (I)

14.88min 10.00PPBV

response 611542

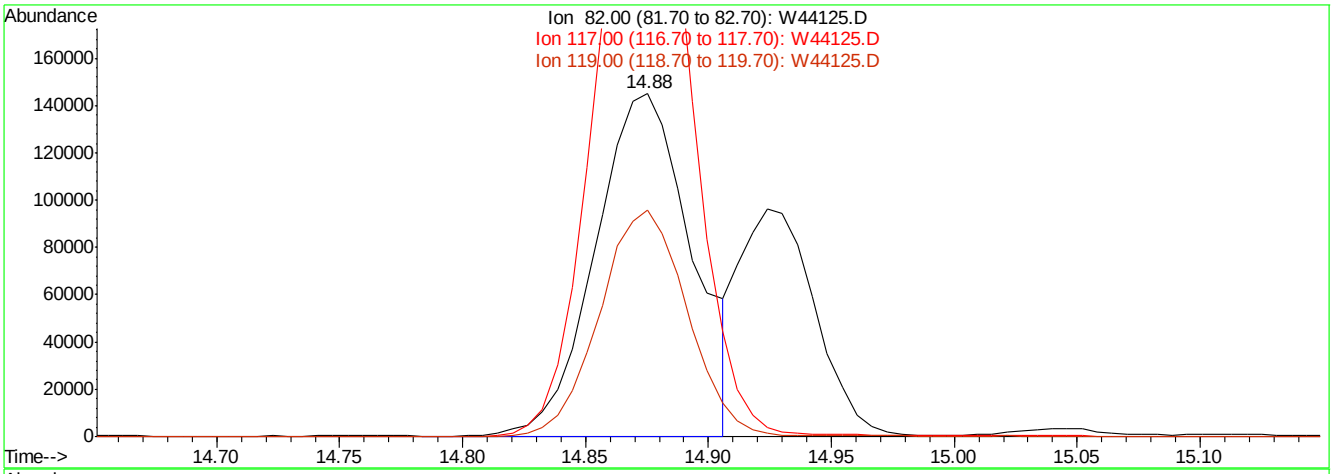
Ion	Exp%	Act%
82.00	100	100
117.00	245.50	120.16#
119.00	115.50	39.01#
0.00	0.00	0.00

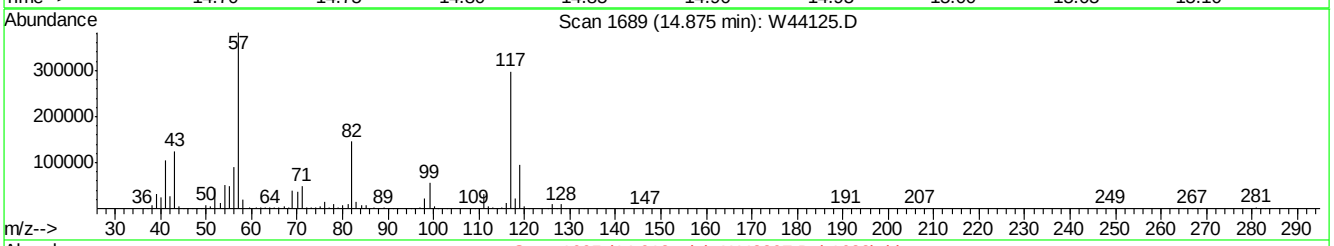
W44125.D MW1765.M Mon Oct 21 10:39:35 2013 MSW

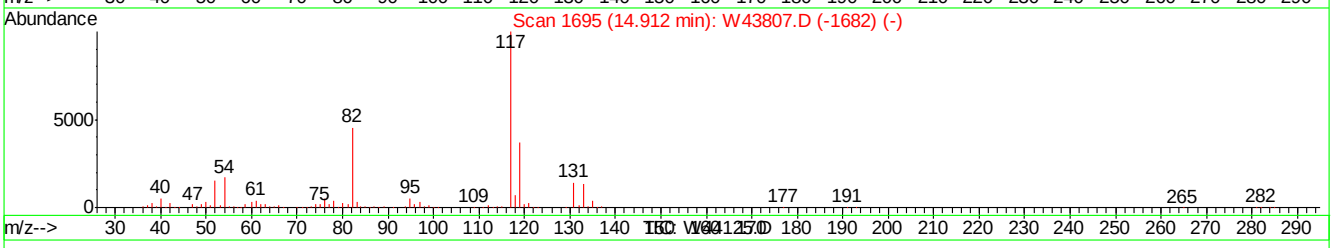
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44125.D Vial: 2
Acq On : 17 Oct 2013 2:25 pm Operator: danat
Sample : jb50050-1dup Inst : MSW
Misc : MS56442,VW1767,40,,,,1.55 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:39 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration







(69) CHLOROBENZENE-D5 (I)

14.88min 10.00PPBV m

response 394163

Ion	Exp%	Act%
82.00	100	100
117.00	245.50	186.42#
119.00	115.50	60.53#
0.00	0.00	0.00

W44125.D MW1765.M Mon Oct 21 10:39:48 2013 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44152.D Vial: 2
Acq On : 18 Oct 2013 1:43 pm Operator: danat
Sample : jb49460-1dup Inst : MSW
Misc : MS56045,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 17:01:02 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

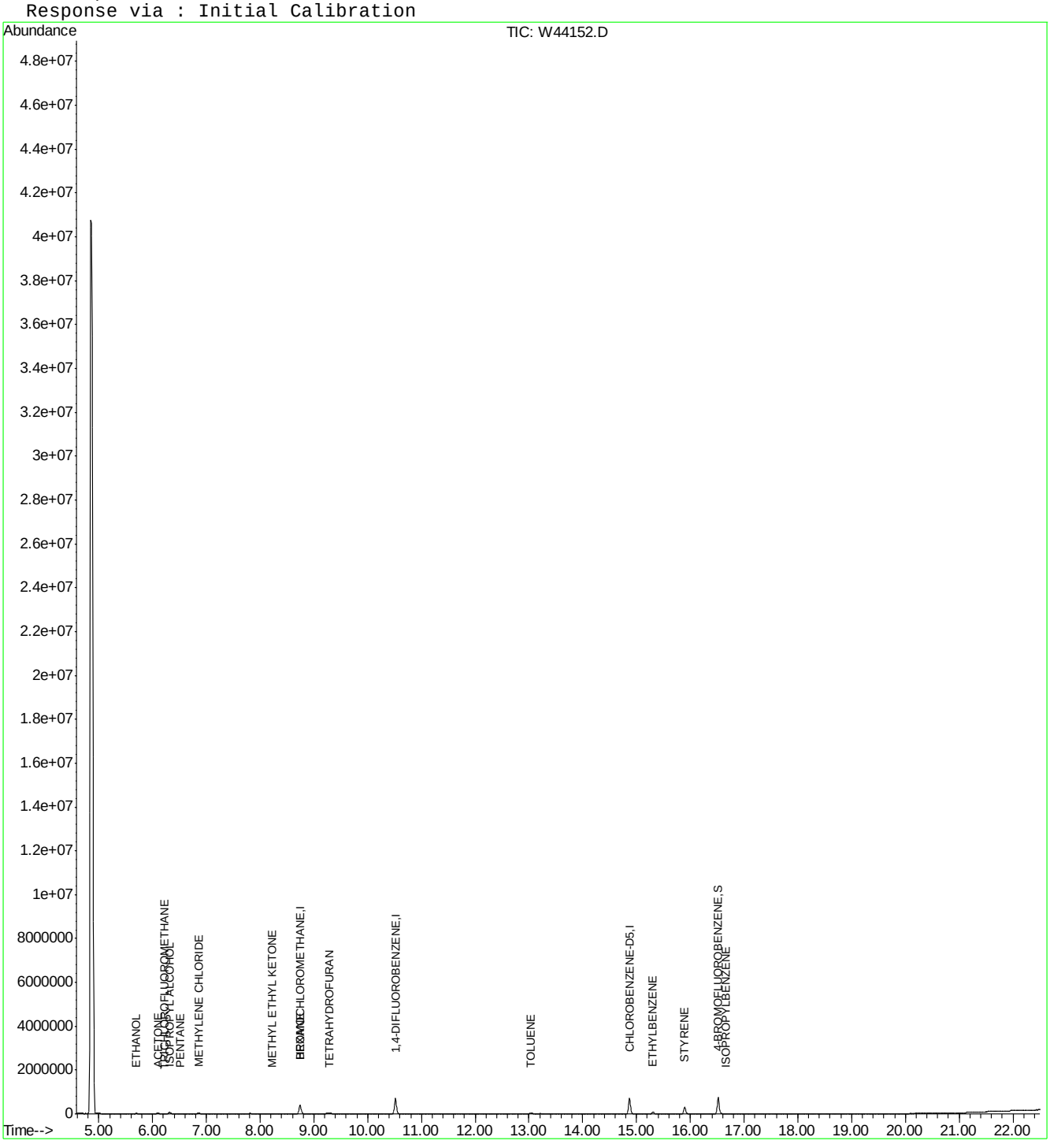
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	169157	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	859658	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	332602	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	382288	9.69	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.90%			
Target Compounds						Qvalue
18) TRICHLOROFLUOROMETHANE	6.23	101	6844	0.14	PPBV	98
19) ISOPROPYL ALCOHOL	6.31	45	103147	3.55	PPBV	98
20) ACETONE	6.10	58	24543	2.23	PPBV	97
22) PENTANE	6.50	57	1494	0.27	PPBV #	91
27) ETHANOL	5.69	45	27630	3.73	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	36526	1.65	PPBV	99
36) TETRAHYDROFURAN	9.30	72	10247	1.01	PPBV #	83
37) HEXANE	8.75	57	10452	0.30	PPBV #	84
40) METHYL ETHYL KETONE	8.23	72	5491	0.54	PPBV #	85
66) TOLUENE	13.03	92	6223	0.13	PPBV	95
78) ETHYLBENZENE	15.31	91	88272	1.08	PPBV	99
81) STYRENE	15.90	104	243262	5.32	PPBV	99
87) ISOPROPYLBENZENE	16.66	105	9879	0.11	PPBV	98

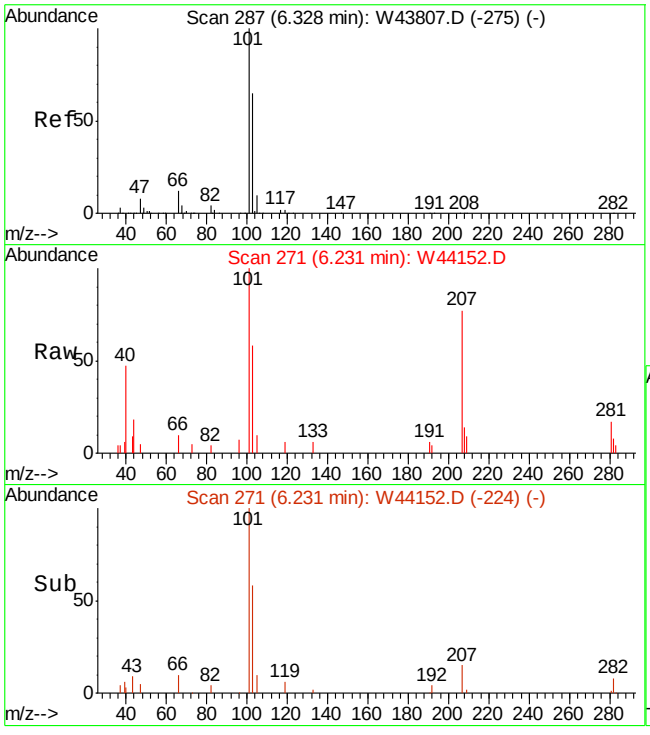
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44152.D Vial: 2
Acq On : 18 Oct 2013 1:43 pm Operator: danat
Sample : jb49460-1dup Inst : MSW
Misc : MS56045,VW1768,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 17:06 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

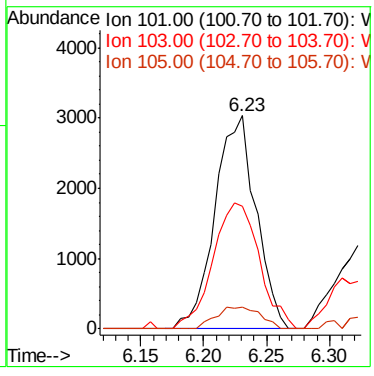


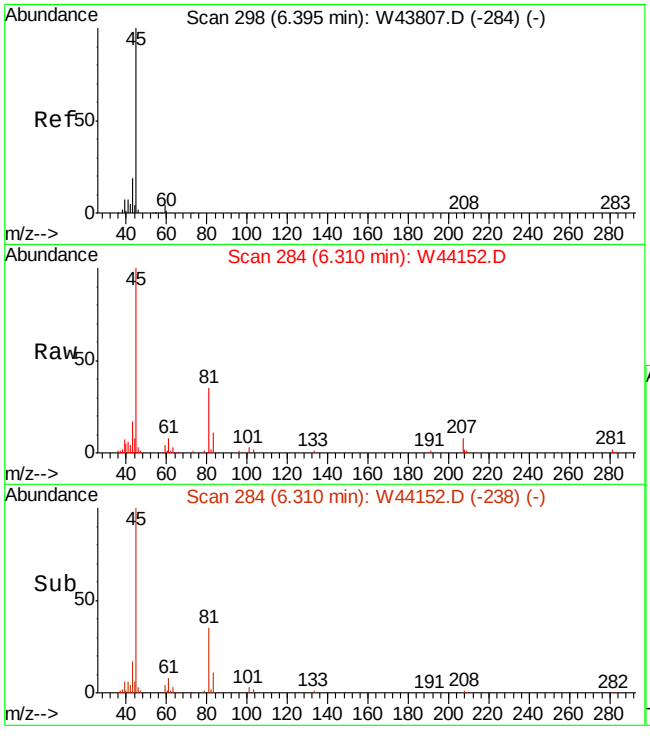


#18
TRICHLOROFLUOROMETHANE
Concen: 0.14 PPBV
RT: 6.23 min Scan# 271
Delta R.T. -0.01 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion:101 Resp: 6844

Ion	Ratio	Lower	Upper
101	100		
103	66.8	45.1	85.1
105	11.2	0.0	30.4

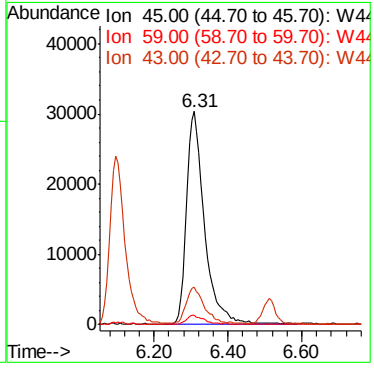




#19
ISOPROPYL ALCOHOL
Concen: 3.55 PPBV
RT: 6.31 min Scan# 284
Delta R.T. -0.02 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 45 Resp: 103147

Ion	Ratio	Lower	Upper
45	100		
59	4.2	0.0	24.3
43	17.5	0.0	36.4



7.4.2

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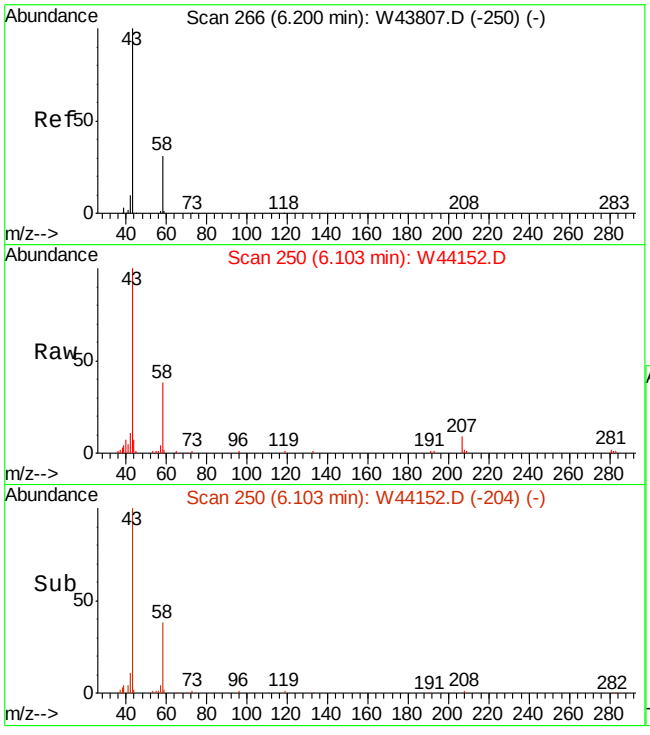
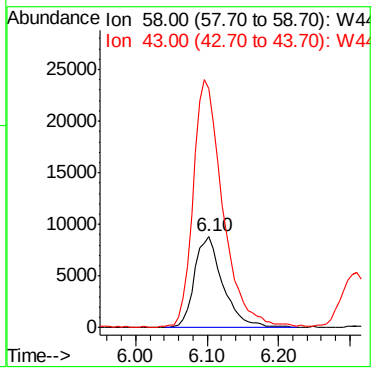
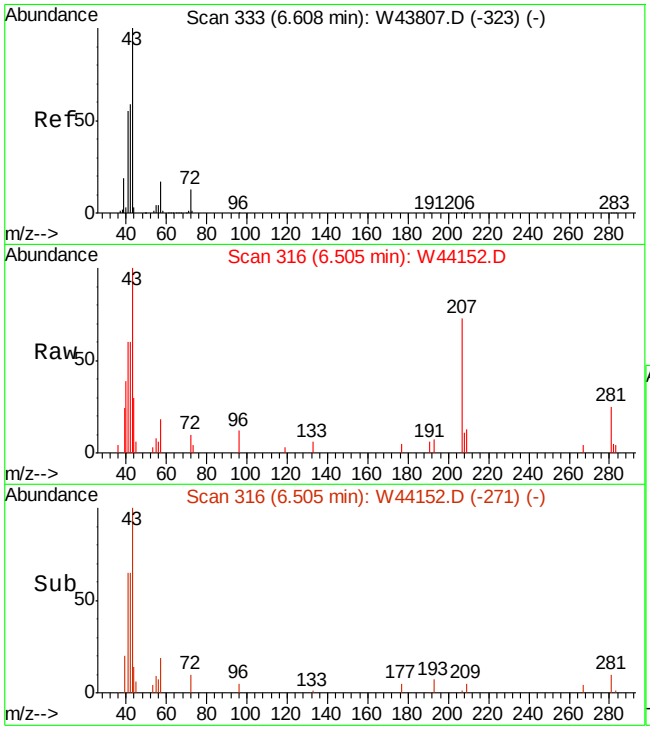


#20
ACETONE
Concen: 2.23 PPBV
RT: 6.10 min Scan# 250
Delta R.T. -0.02 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 58 Resp: 24543

Ion	Ratio	Lower	Upper
58	100		
43	284.0	270.7	310.7

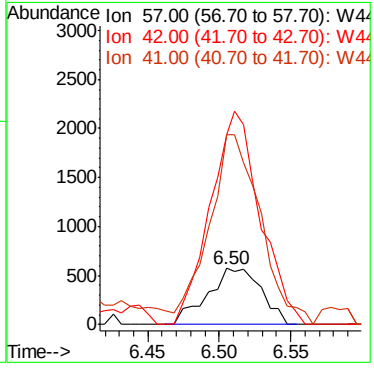




#22
PENTANE
Concen: 0.27 PPBV
RT: 6.50 min Scan# 316
Delta R.T. -0.02 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 57 Resp: 1494

Ion	Ratio	Lower	Upper
57	100		
42	352.6	352.7	392.7#
41	323.4	286.0	326.0



7.4.2

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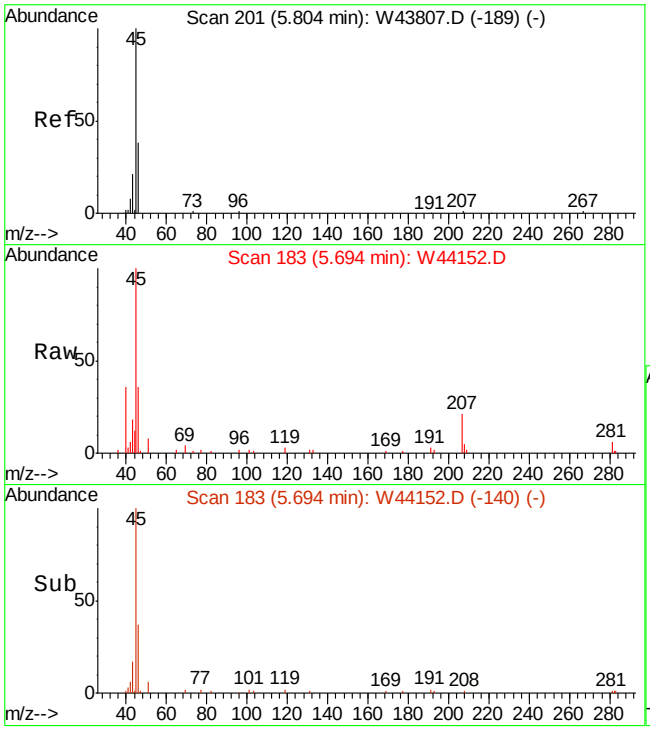
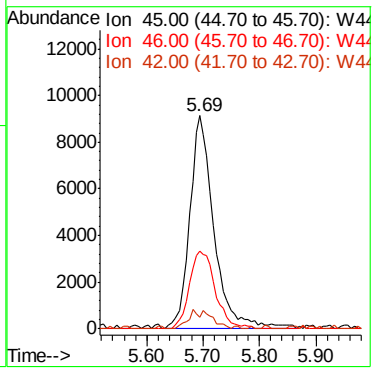
ACCUTEST LABORATORIES JB50276

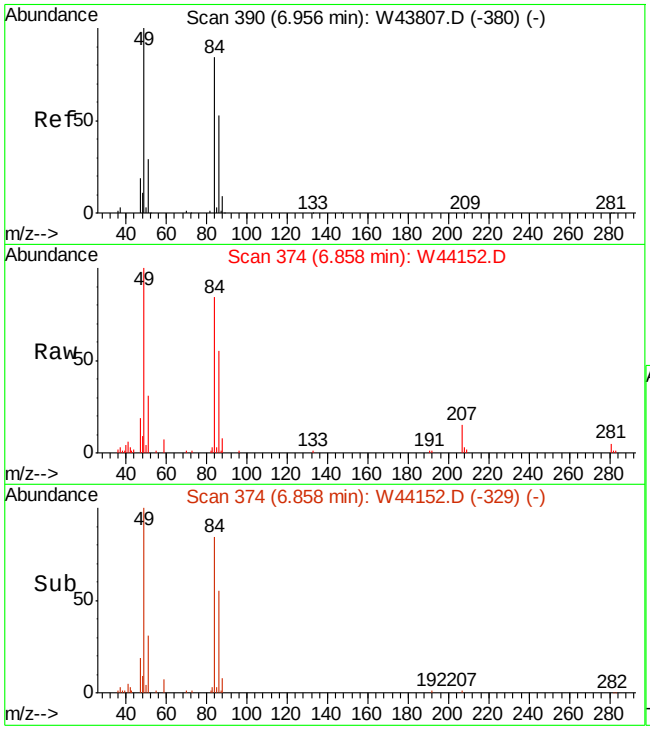


#27
ETHANOL
Concen: 3.73 PPBV
RT: 5.69 min Scan# 183
Delta R.T. -0.04 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 45 Resp: 27630

Ion	Ratio	Lower	Upper
45	100		
46	38.9	18.3	58.3
42	8.2	0.0	27.7

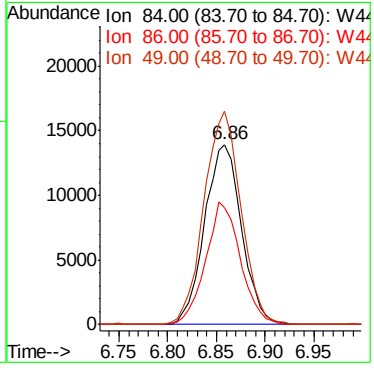




#30
METHYLENE CHLORIDE
Concen: 1.65 PPBV
RT: 6.86 min Scan# 374
Delta R.T. -0.02 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

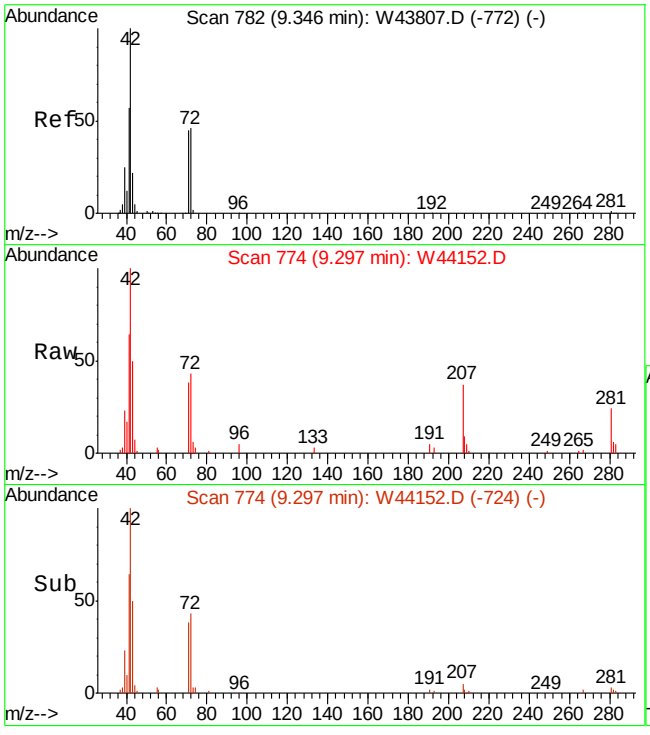
Tgt Ion: 84 Resp: 36526

Ion	Ratio	Lower	Upper
84	100		
86	64.1	43.2	83.2
49	119.1	0.0	320.8



7.4.2

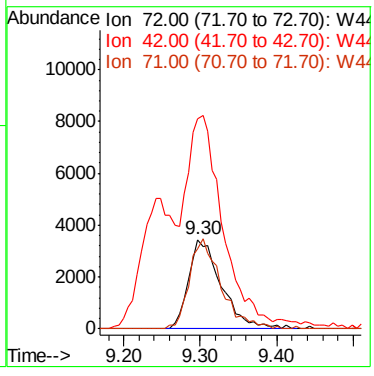
7

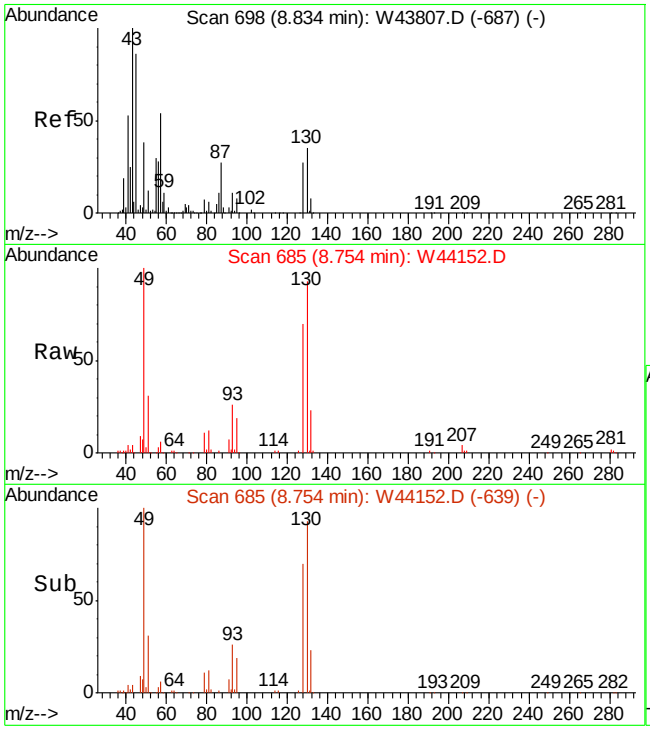


#36
TETRAHYDROFURAN
Concen: 1.01 PPBV
RT: 9.30 min Scan# 774
Delta R.T. 0.01 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 72 Resp: 10247

Ion	Ratio	Lower	Upper
72	100		
42	262.8	206.0	246.0#
71	97.0	74.0	114.0

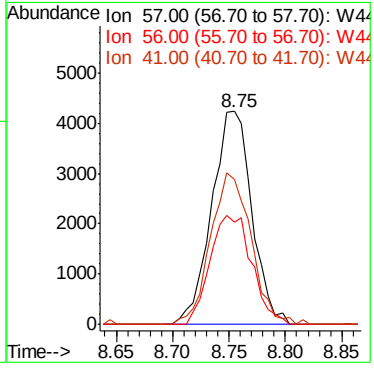




#37
HEXANE
Concen: 0.30 PPBV
RT: 8.75 min Scan# 685
Delta R.T. -0.02 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

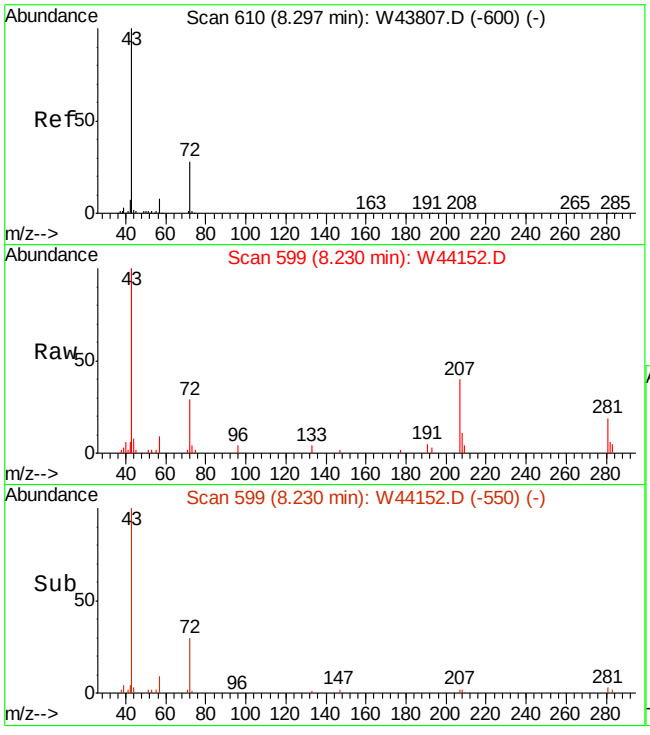
Tgt Ion: 57 Resp: 10452

Ion	Ratio	Lower	Upper
57	100		
56	53.2	32.2	72.2
41	71.9	74.7	114.7#



7.4.2

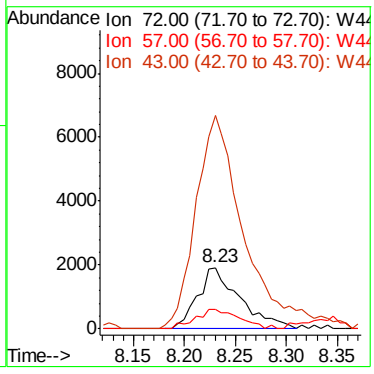
7

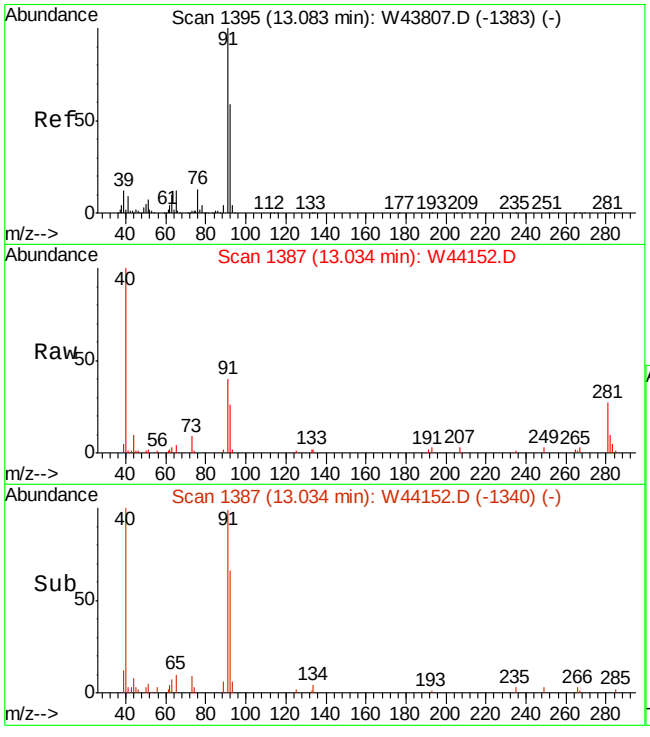


#40
METHYL ETHYL KETONE
Concen: 0.54 PPBV
RT: 8.23 min Scan# 599
Delta R.T. 0.00 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 72 Resp: 5491

Ion	Ratio	Lower	Upper
72	100		
57	30.9	10.3	50.3
43	347.0	364.5	404.5#

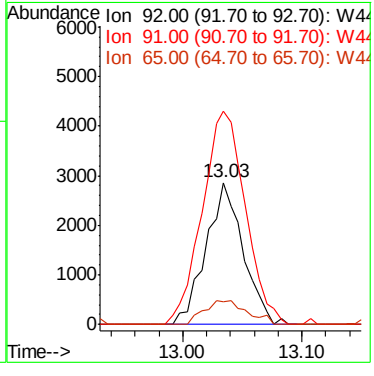




#66
TOLUENE
Concen: 0.13 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

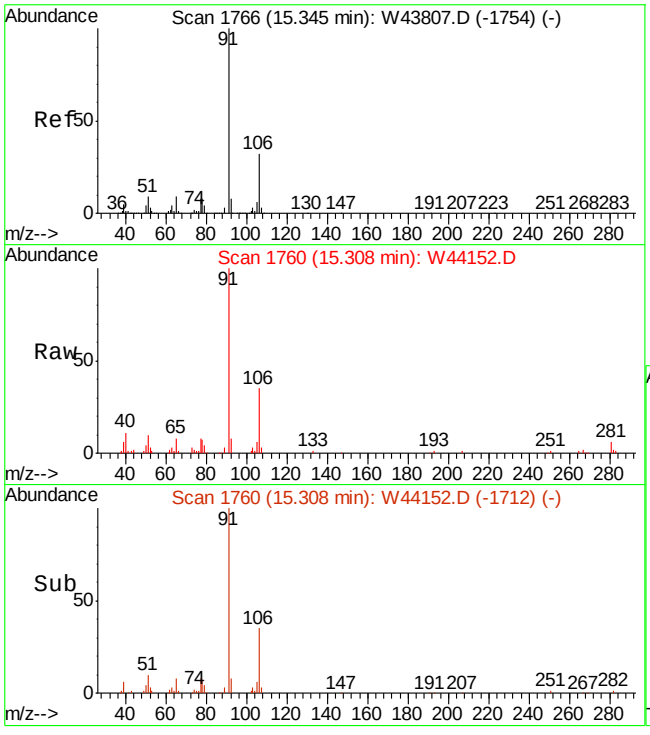
Tgt Ion: 92 Resp: 6223

Ion	Ratio	Lower	Upper
92	100		
91	174.6	148.0	188.0
65	19.6	0.5	40.5



7.4.2

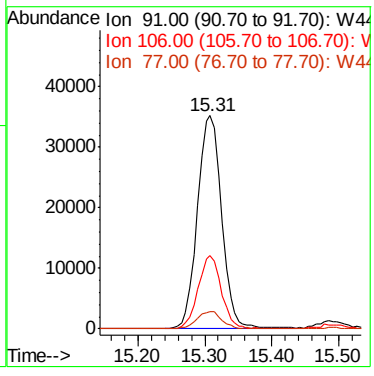
7

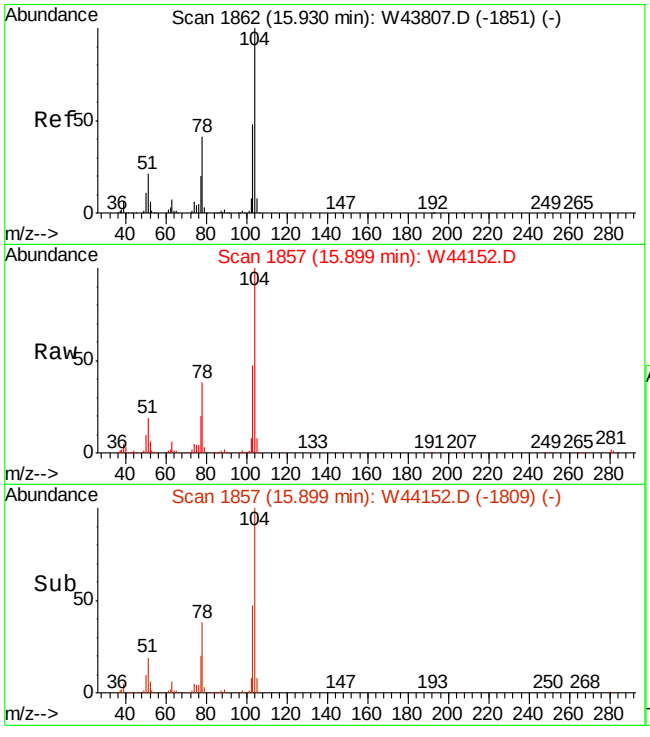


#78
ETHYLBENZENE
Concen: 1.08 PPBV
RT: 15.31 min Scan# 1760
Delta R.T. -0.01 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion: 91 Resp: 88272

Ion	Ratio	Lower	Upper
91	100		
106	32.8	12.3	52.3
77	8.2	0.0	28.1

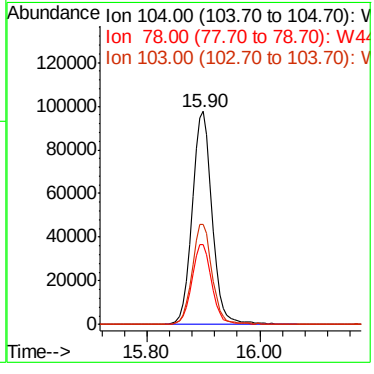




#81
STYRENE
Concen: 5.32 PPBV
RT: 15.90 min Scan# 1857
Delta R.T. -0.01 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

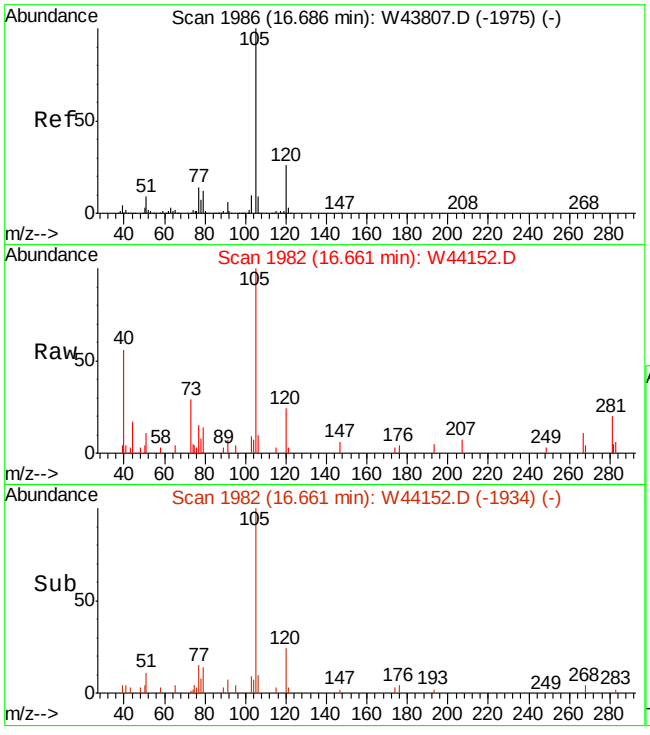
Tgt Ion:104 Resp: 243262

Ion	Ratio	Lower	Upper
104	100		
78	37.6	18.7	58.7
103	47.7	27.3	67.3



7.4.2

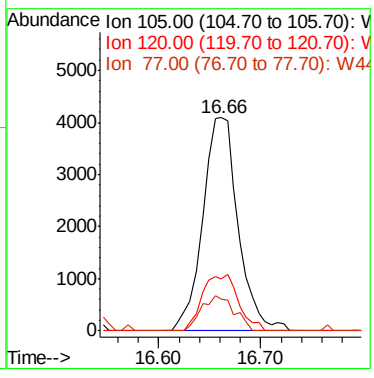
7



#87
ISOPROPYLBENZENE
Concen: 0.11 PPBV
RT: 16.66 min Scan# 1982
Delta R.T. -0.01 min
Lab File: W44152.D
Acq: 18 Oct 2013 1:43 pm

Tgt Ion:105 Resp: 9879

Ion	Ratio	Lower	Upper
105	100		
120	26.8	7.4	47.4
77	15.2	0.0	34.1



7.4.2

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44227.D Vial: 6
Acq On : 22 Oct 2013 4:40 pm Operator: danat
Sample : jb50614-4dup Inst : MSW
Misc : MS57076,VW1771,400,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 17:11:35 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

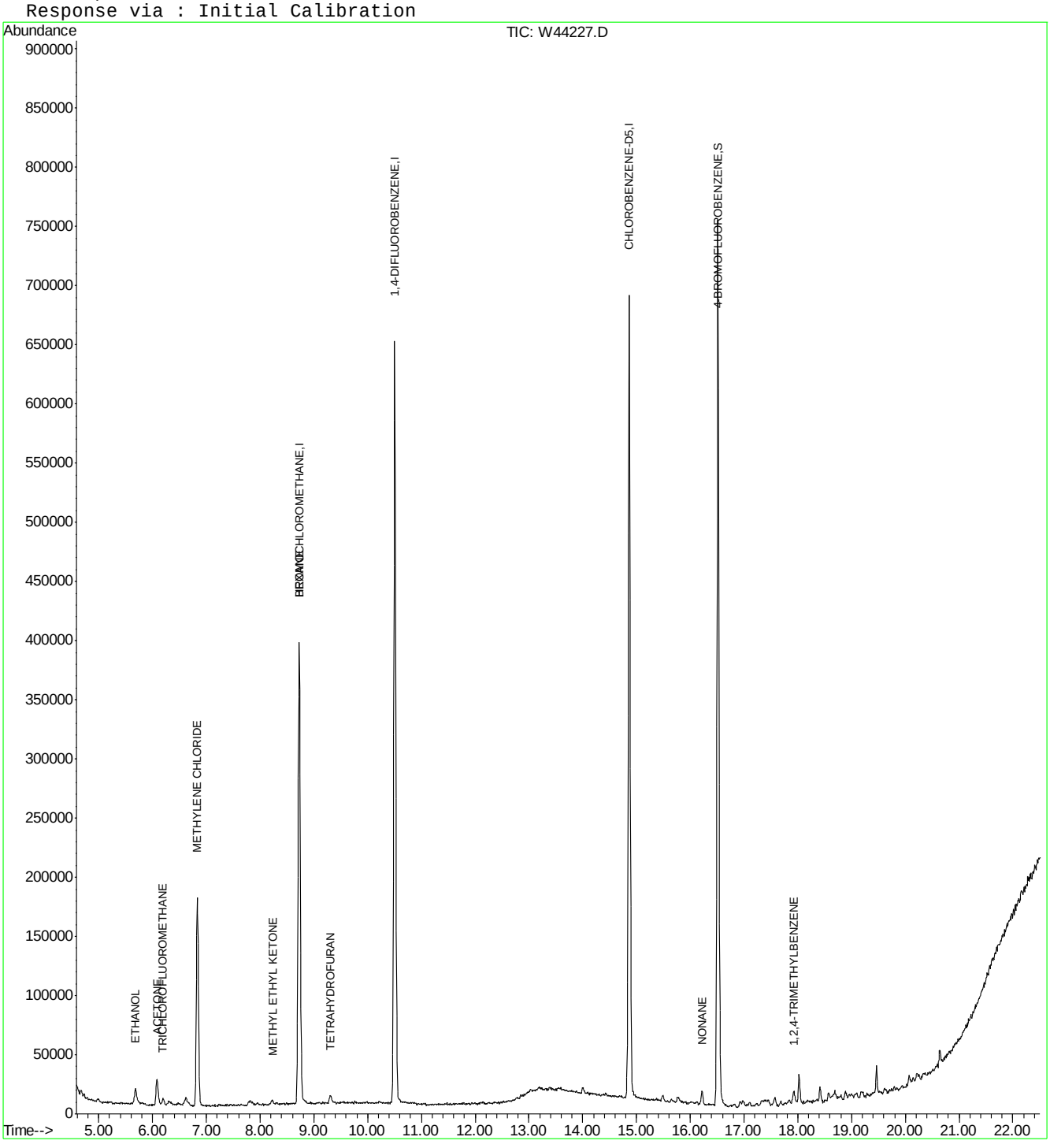
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	164237	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.50	114	784812	10.00	PPBV	-0.04
69) CHLOROBENZENE-D5	14.86	82	309146	10.00	PPBV	-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	356340	9.71	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.10%			
Target Compounds						Qvalue
18) TRICHLOROFLUOROMETHANE	6.19	101	6080	0.13	PPBV	95
20) ACETONE	6.08	58	13088	1.22	PPBV	99
27) ETHANOL	5.68	45	22031	3.06	PPBV	96
30) METHYLENE CHLORIDE	6.83	84	123889	5.76	PPBV	97
36) TETRAHYDROFURAN	9.30	72	2841	0.29	PPBV	92
37) HEXANE	8.73	57	24452	0.73	PPBV #	80
40) METHYL ETHYL KETONE	8.24	72	1819	0.18	PPBV #	38
83) NONANE	16.22	43	5098	0.14	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.94	105	6436	0.12	PPBV #	31

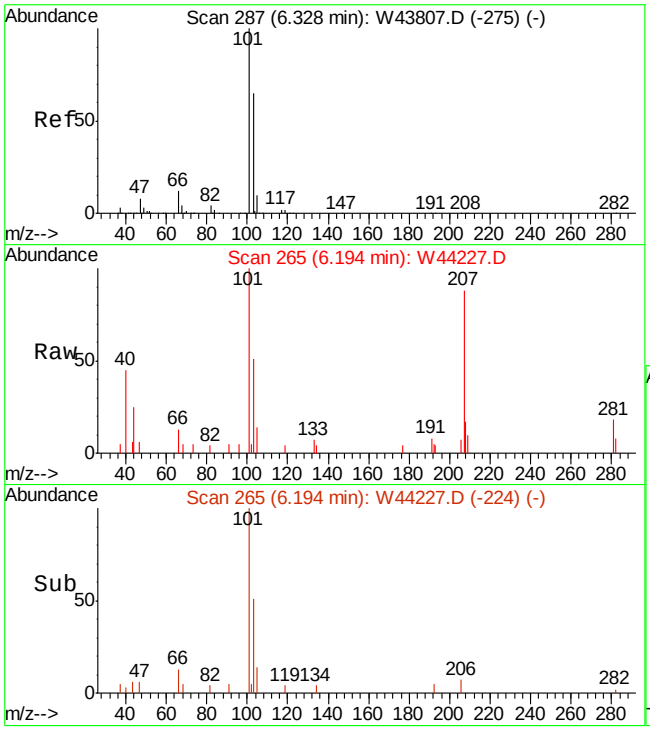
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W44227.D MW1765.M Tue Oct 22 17:47:36 2013 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44227.D Vial: 6
Acq On : 22 Oct 2013 4:40 pm Operator: danat
Sample : jb50614-4dup Inst : MSW
Misc : MS57076,VW1771,400,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 17:13 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

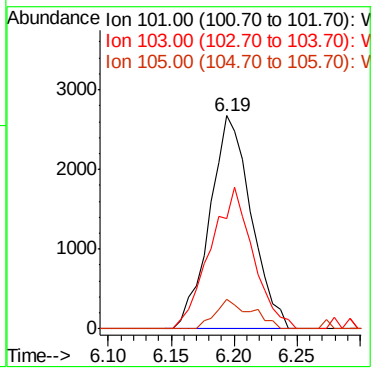


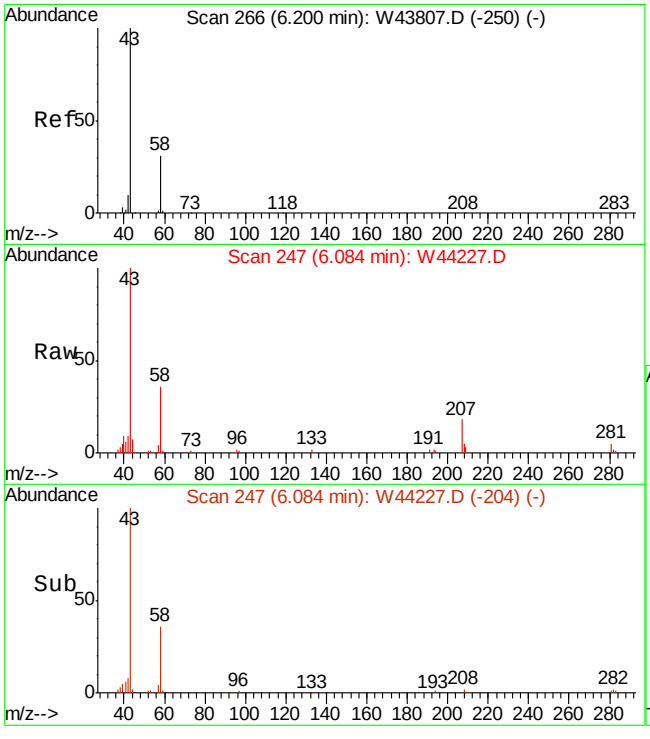


#18
TRICHLOROFLUOROMETHANE
Concen: 0.13 PPBV
RT: 6.19 min Scan# 265
Delta R.T. -0.05 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion:101 Resp: 6080

Ion	Ratio	Lower	Upper
101	100		
103	68.8	45.1	85.1
105	12.3	0.0	30.4

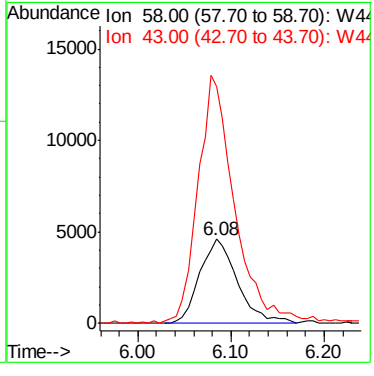




#20
ACETONE
Concen: 1.22 PPBV
RT: 6.08 min Scan# 247
Delta R.T. -0.04 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 58 Resp: 13088

Ion	Ratio	Lower	Upper
58	100		
43	288.3	270.7	310.7



7.4.3

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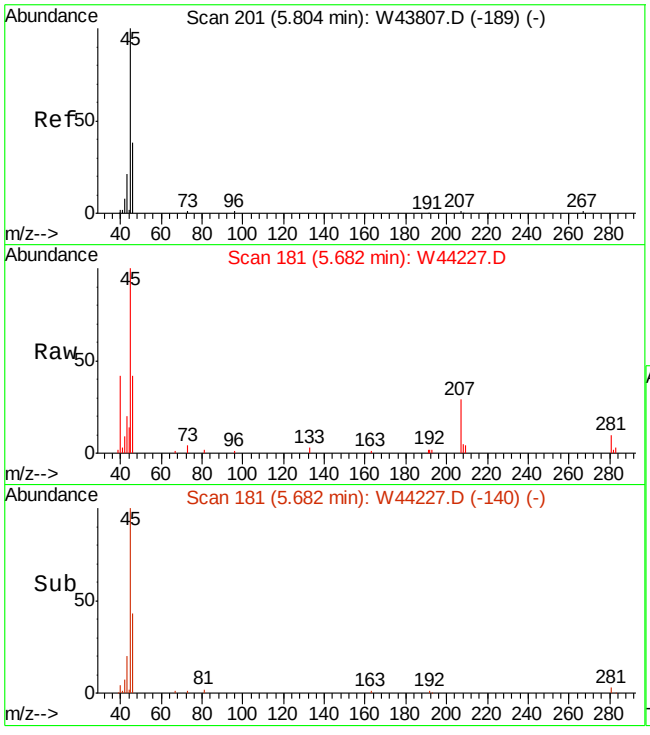
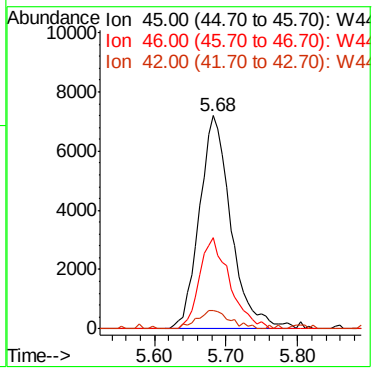
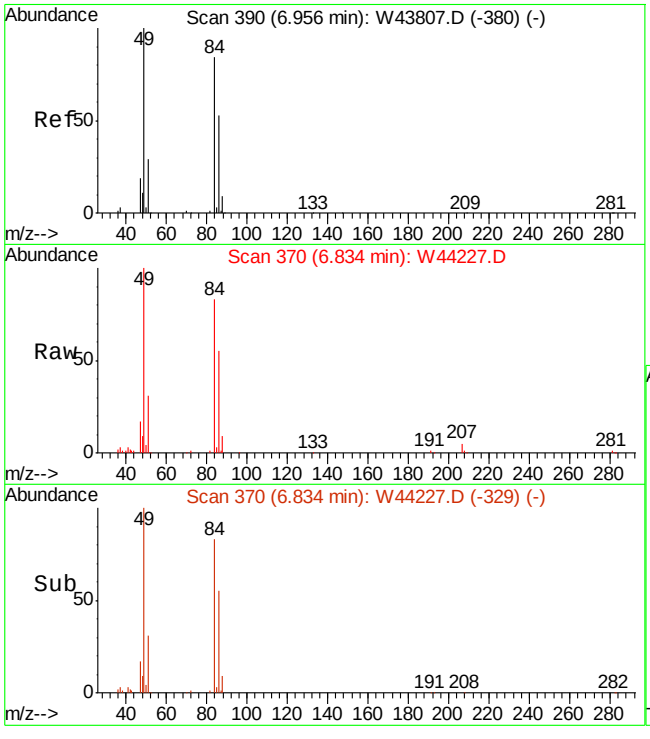


#27
ETHANOL
Concen: 3.06 PPBV
RT: 5.68 min Scan# 181
Delta R.T. -0.05 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 45 Resp: 22031

Ion	Ratio	Lower	Upper
45	100		
46	40.6	18.3	58.3
42	9.1	0.0	27.7

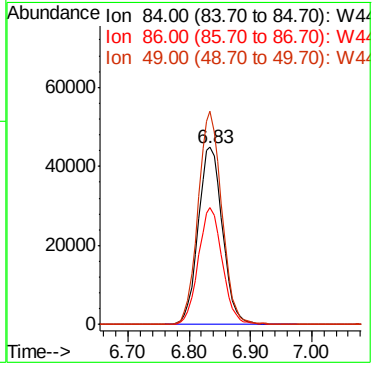




#30
METHYLENE CHLORIDE
Concen: 5.76 PPBV
RT: 6.83 min Scan# 370
Delta R.T. -0.05 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 84 Resp: 123889

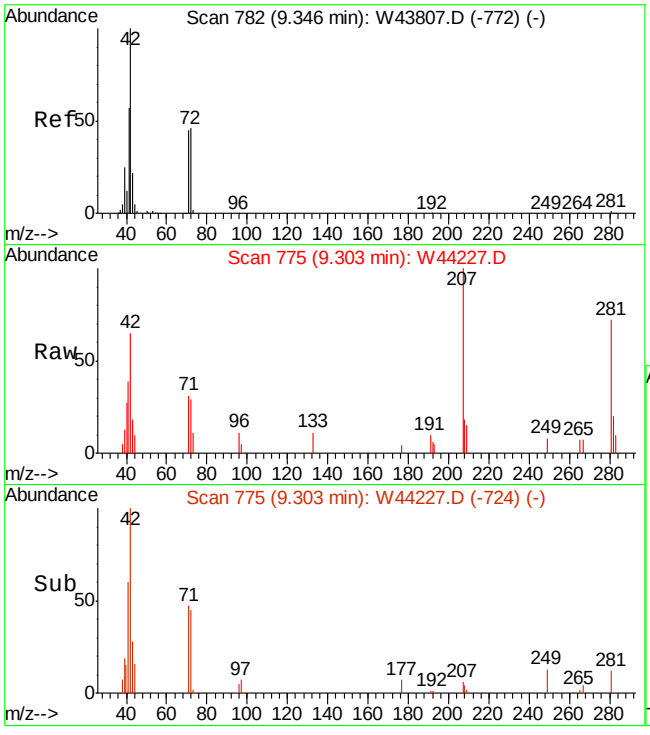
Ion	Ratio	Lower	Upper
84	100		
86	64.9	43.2	83.2
49	117.0	0.0	320.8



7.4.3

7

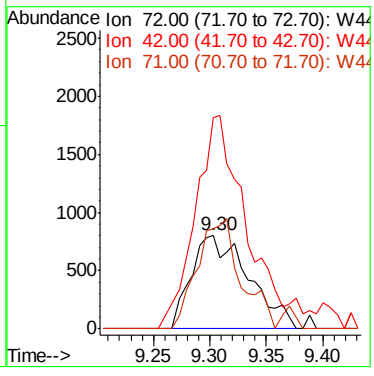
ACCUTEST LABORATORIES
JB50276

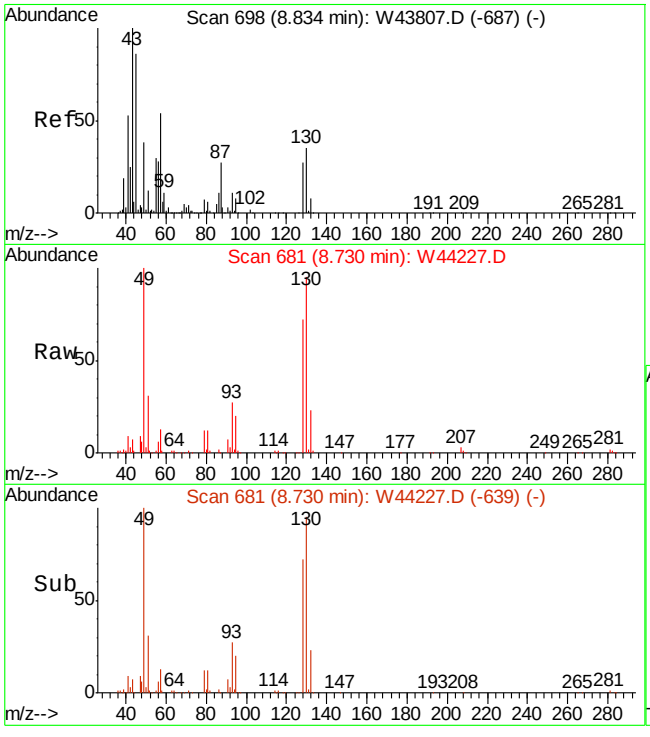


#36
TETRAHYDROFURAN
Concen: 0.29 PPBV
RT: 9.30 min Scan# 775
Delta R.T. 0.01 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 72 Resp: 2841

Ion	Ratio	Lower	Upper
72	100		
42	209.2	206.0	246.0
71	89.9	74.0	114.0

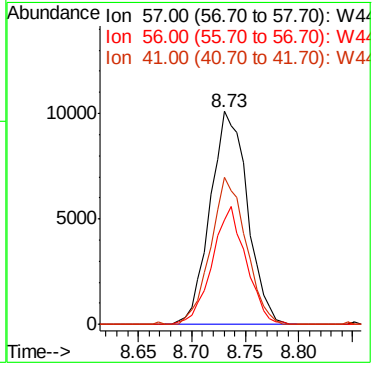




#37
HEXANE
Concen: 0.73 PPBV
RT: 8.73 min Scan# 681
Delta R.T. -0.04 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 57 Resp: 24452

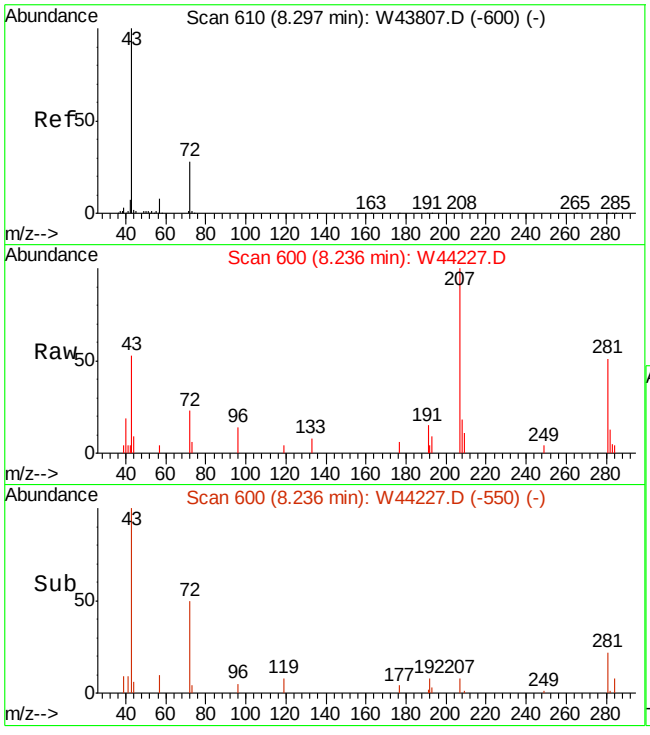
Ion	Ratio	Lower	Upper
57	100		
56	50.4	32.2	72.2
41	65.5	74.7	114.7#



7.4.3

7

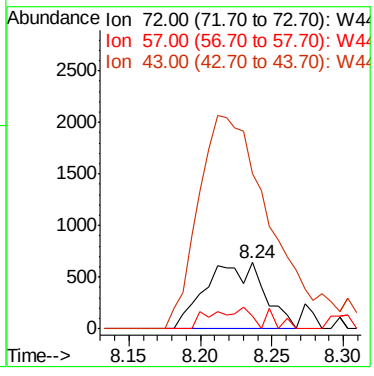
ACCUTEST LABORATORIES JB50276

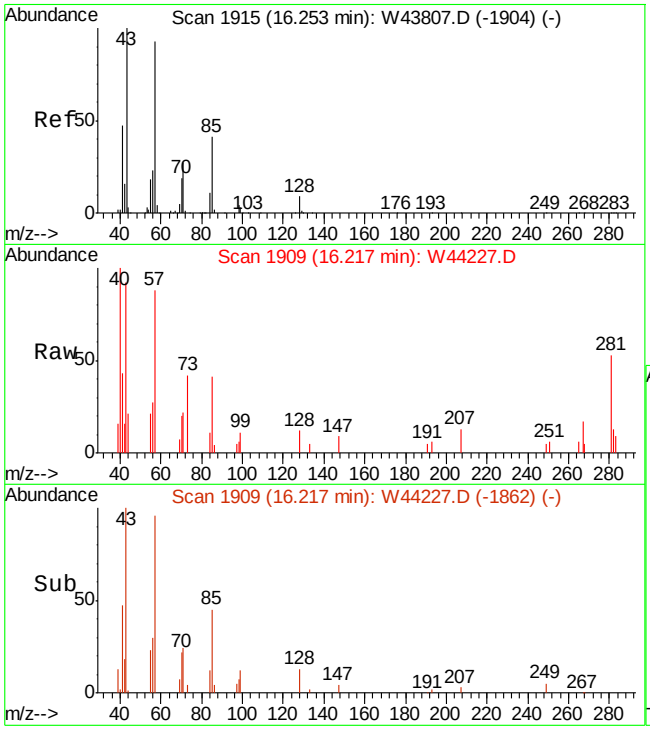


#40
METHYL ETHYL KETONE
Concen: 0.18 PPBV
RT: 8.24 min Scan# 600
Delta R.T. 0.01 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 72 Resp: 1819

Ion	Ratio	Lower	Upper
72	100		
57	19.5	10.3	50.3
43	234.1	364.5	404.5#

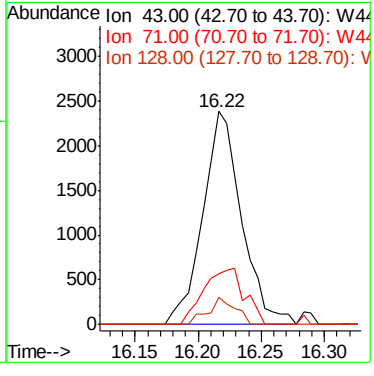




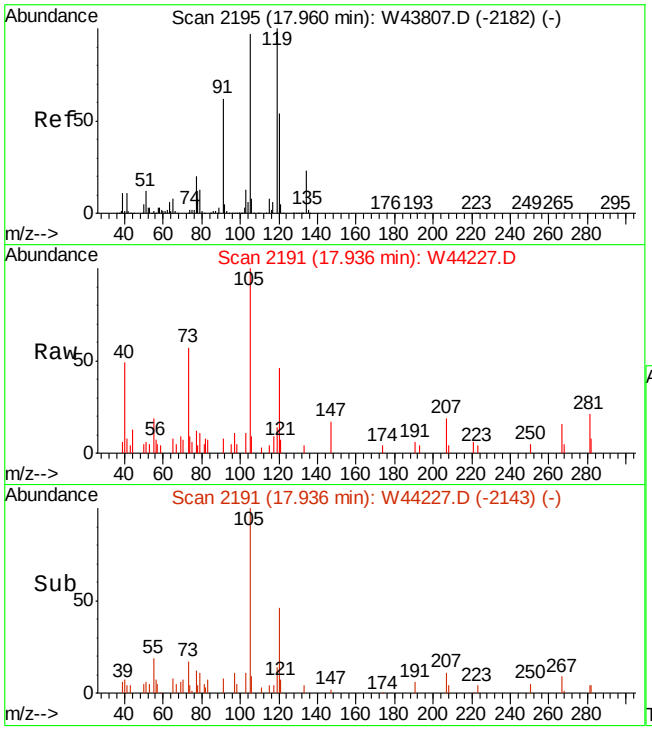
#83
NONANE
Concen: 0.14 PPBV
RT: 16.22 min Scan# 1909
Delta R.T. -0.01 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion: 43 Resp: 5098

Ion	Ratio	Lower	Upper
43	100		
71	27.6	7.3	47.3
128	8.8	0.0	28.0



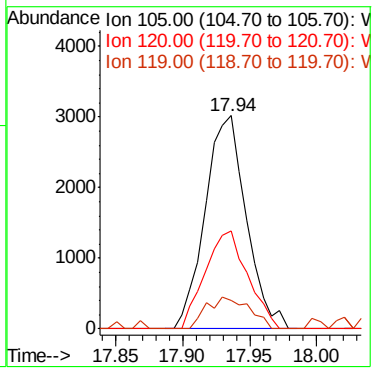
ACCUTEST LABORATORIES JB50276



#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 17.94 min Scan# 2191
Delta R.T. -0.01 min
Lab File: W44227.D
Acq: 22 Oct 2013 4:40 pm

Tgt Ion:105 Resp: 6436

Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.1	79.1
119	15.5	102.1	142.1#



7.4.3

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36346.D Vial: 13
Acq On : 7 Oct 2013 8:05 pm Operator: YOUMINH
Sample : SCC(A936) Inst : MS3W
Misc : MS56044,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:57:24 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	123170	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.89	114	566574	10.00	PPBV	-0.07
68) CHLOROBENZENE-D5	13.03	82	208260	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	214768	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	198011	8.46	PPBV	-0.07

Spiked Amount 10.000 Range 65 - 128 Recovery = 84.60%

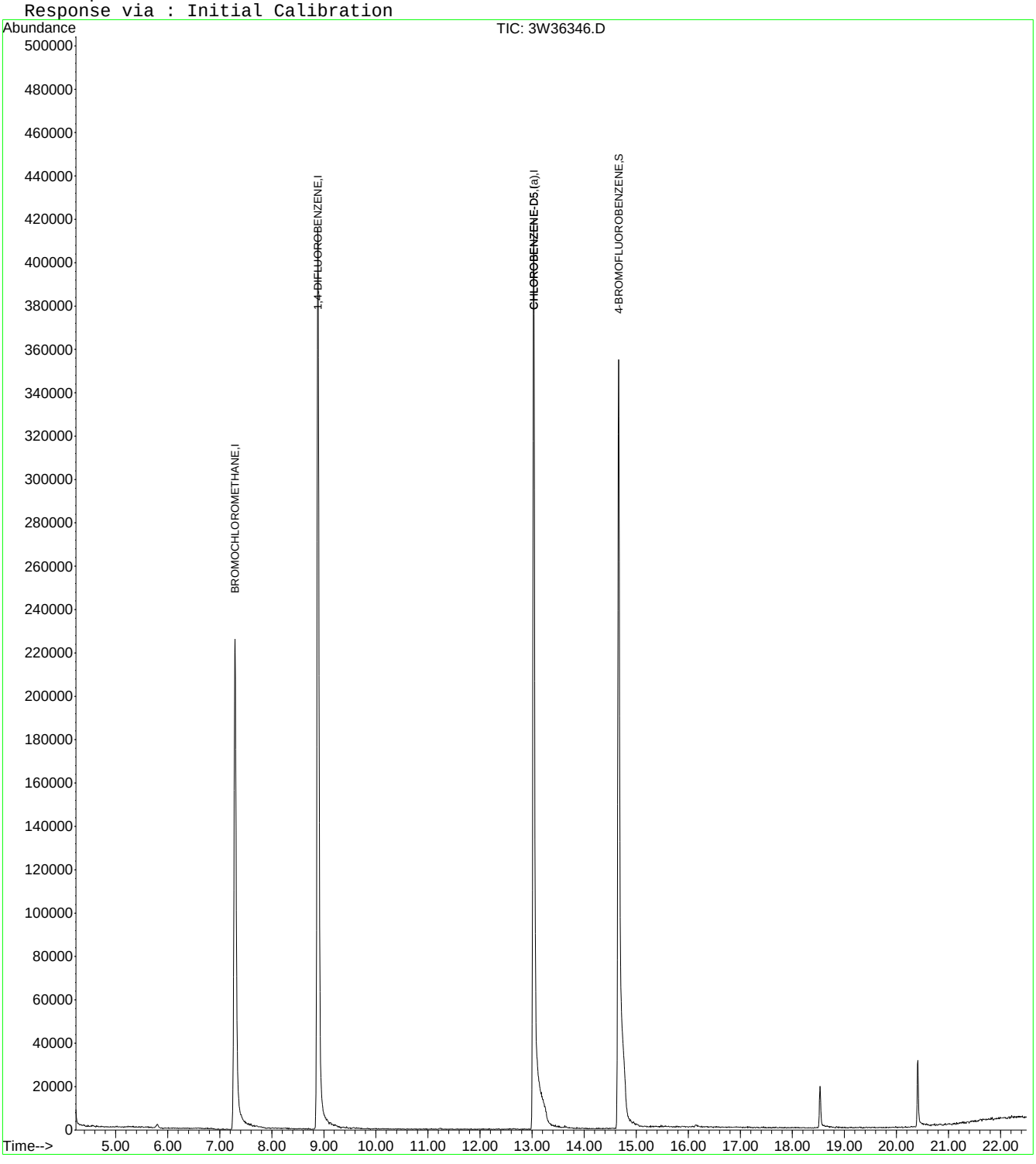
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36346.D M3W1350.M Tue Oct 08 10:21:33 2013 MS3W

Quantitation Report (QT Reviewed)

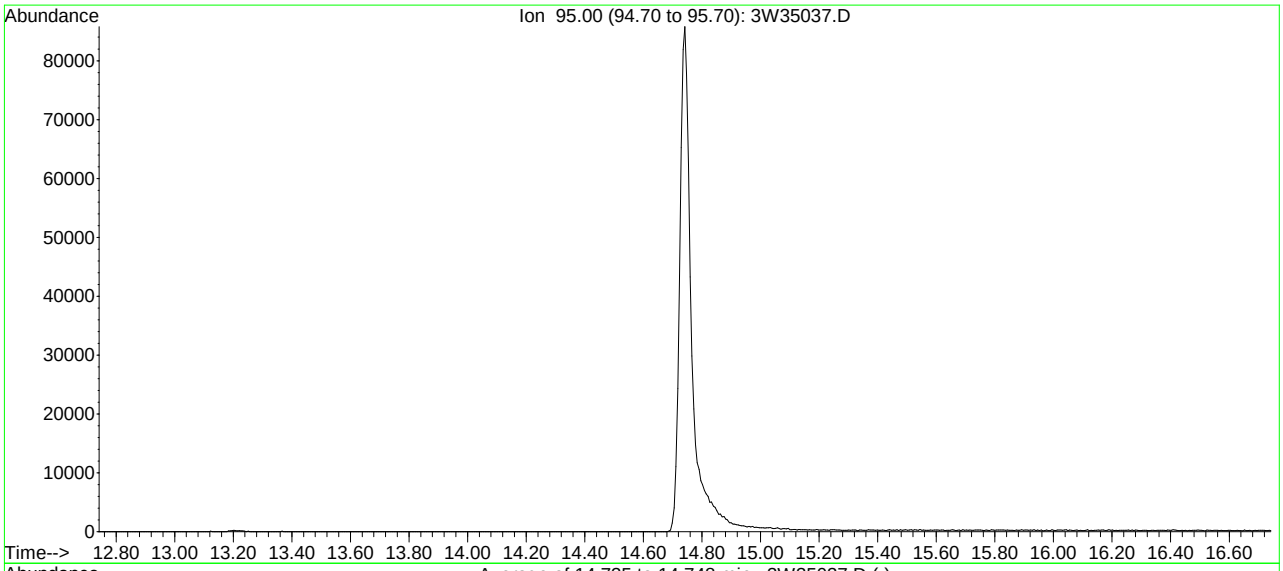
Data File : C:\MSDCHEM\1\DATA\3W36346.D Vial: 13
Acq On : 7 Oct 2013 8:05 pm Operator: YOUMINH
Sample : SCC(A936) Inst : MS3W
Misc : MS56044,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:21 2013 Quant Results File: M3W1350.RES

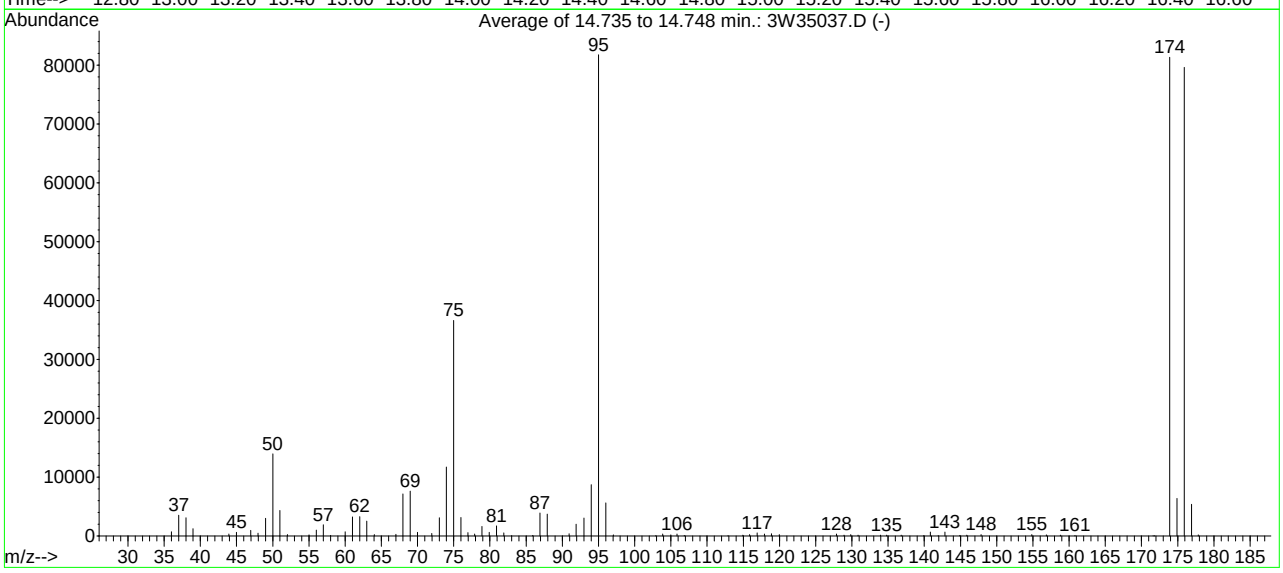
Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



BFB

Data File : C:\MSDCHEM\1\DATA\3W35037.D Vial: 15
Acq On : 23 Jul 2013 8:09 am Operator: YOUMINH
Sample : BFB Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um





AutoFind: Scans 1727, 1728, 1729; Background Corrected with Scan 1716

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.1	13945	PASS
75	95	30	66	44.8	36632	PASS
95	95	100	100	100.0	81770	PASS
96	95	5	9	6.8	5579	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.5	81373	PASS
175	174	4	9	7.8	6376	PASS
176	174	93	101	97.9	79640	PASS
177	176	5	9	6.8	5381	PASS

3W35037.D M3W1350.M Wed Jul 24 08:38:45 2013 MS3W

Average of 14.735 to 14.748 min.: 3W35037.D
BFB
Modified:subtracted

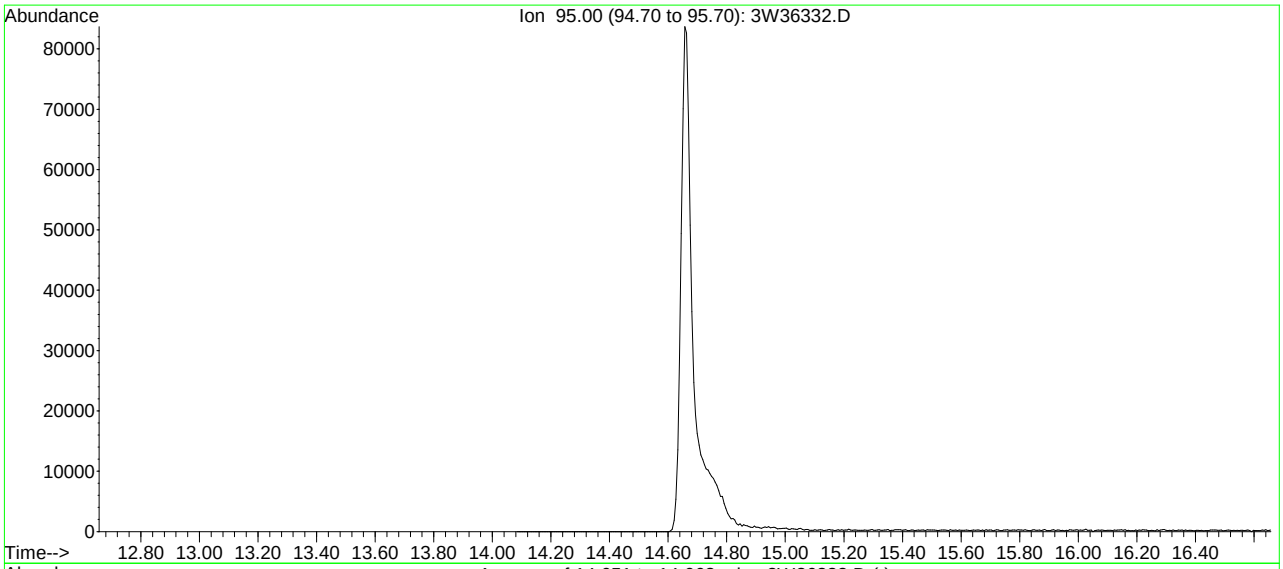
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	705	52.05	232	68.00	7148	79.90	610
37.00	3519	55.00	186	69.00	7610	80.90	1695
38.00	3081	56.00	993	70.00	597	81.90	504
39.00	1201	57.00	1886	71.95	426	83.00	25
43.95	318	58.00	77	73.00	3094	85.90	88
45.00	614	60.00	718	74.00	11693	86.90	3877
46.95	947	61.00	3204	75.00	36632	87.90	3687
47.95	459	62.00	3275	76.00	3124	90.95	345
49.00	2998	63.00	2490	76.95	541	91.90	1979
50.00	13945	64.05	232	77.90	302	93.00	3020
51.00	4330	67.00	241	78.90	1611	94.00	8706

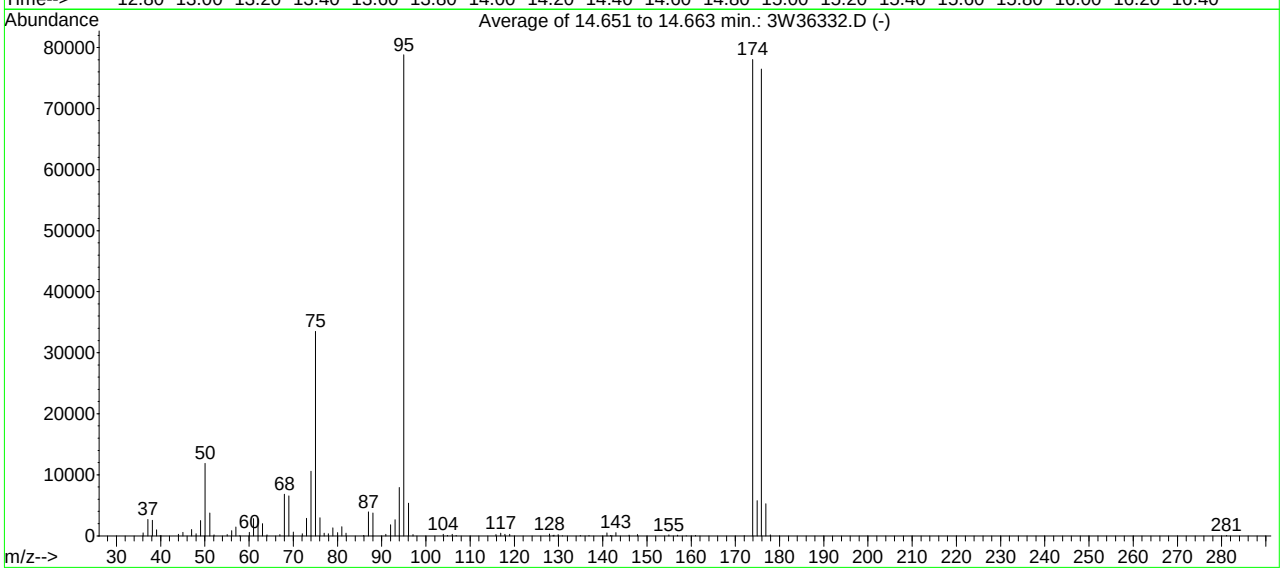
Average of 14.735 to 14.748 min.: 3W35037.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	81770	116.90	495	139.90	27	171.60	32
96.00	5579	117.90	293	140.85	636	171.80	27
97.05	169	118.90	351	141.90	29	173.90	81373
102.90	26	119.95	197	142.85	653	174.90	6376
103.85	312	127.85	311	144.90	59	175.90	79640
105.00	168	128.90	119	145.85	134	176.90	5381
105.85	321	129.85	235	147.85	215	177.85	179
106.85	94	130.85	131	154.85	212		
112.90	25	133.95	114	156.85	179		
114.95	110	134.80	133	158.80	104		
115.85	214	136.80	122	160.80	99		

BFB

Data File : C:\MSDCHEM\1\DATA\3W36332.D Vial: 5
Acq On : 7 Oct 2013 8:30 am Operator: YOUMINH
Sample : BFB Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um





AutoFind: Scans 94, 95, 96; Background Corrected with Scan 84

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.0	11858	PASS
75	95	30	66	42.5	33482	PASS
95	95	100	100	100.0	78797	PASS
96	95	5	9	6.8	5343	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.0	78016	PASS
175	174	4	9	7.4	5787	PASS
176	174	93	101	98.0	76461	PASS
177	176	5	9	6.9	5283	PASS

3W36332.D M3W1350.M Tue Oct 08 10:24:21 2013 MS3W

Average of 14.651 to 14.663 min.: 3W36332.D
BFB
Modified:subtracted

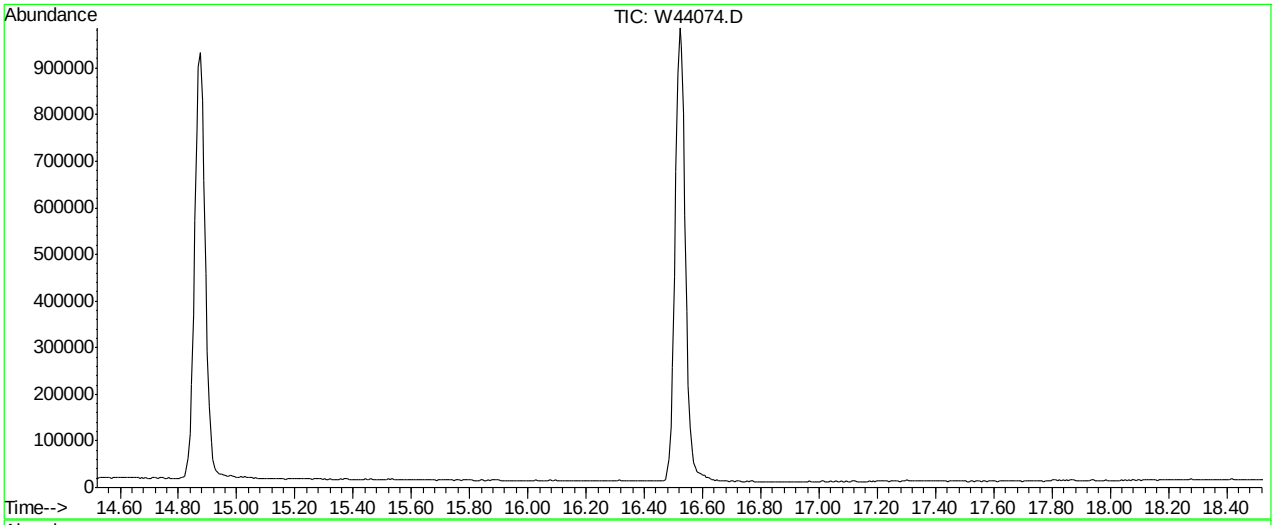
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	502	50.05	11858	64.05	172	77.95	366
37.10	2708	51.10	3727	67.00	193	78.95	1327
38.10	2549	52.05	185	68.00	6807	80.00	542
39.05	1007	55.05	190	69.00	6562	80.95	1480
39.90	33	56.05	854	70.00	607	81.95	454
40.10	39	57.00	1439	72.05	370	85.95	82
44.00	259	57.90	36	73.00	2872	87.00	3908
45.05	590	60.05	560	74.00	10598	88.00	3733
47.00	1020	61.00	2814	75.00	33482	90.95	248
48.00	363	62.00	2773	76.05	2950	92.00	1822
49.00	2510	63.05	1982	77.00	456	93.00	2622

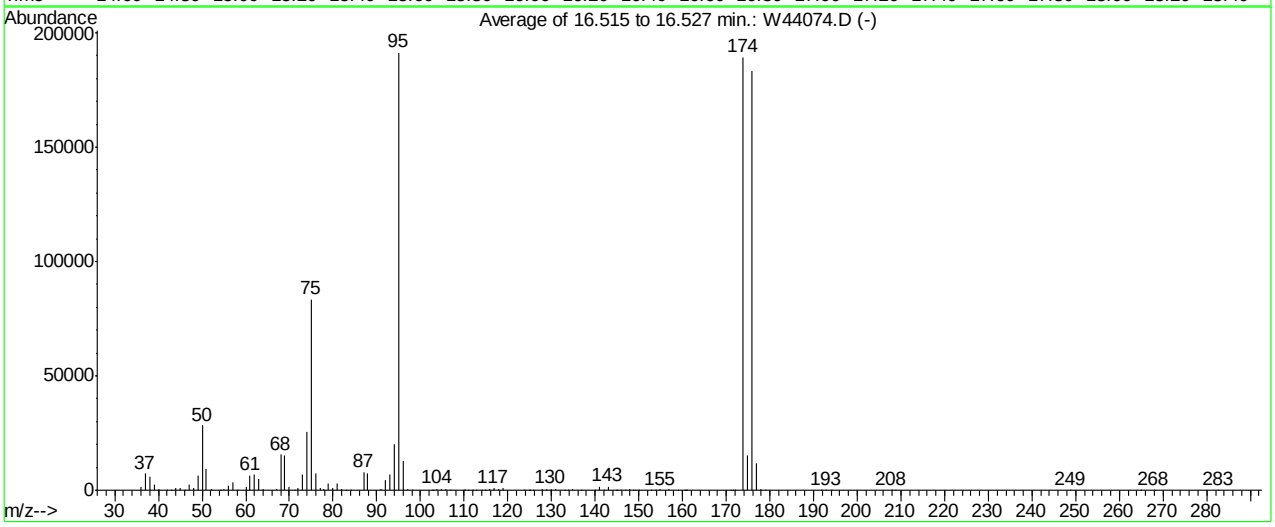
Average of 14.651 to 14.663 min.: 3W36332.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	7934	118.95	241	142.95	549	176.90	5283
95.00	78797	127.95	290	145.95	111	177.90	180
96.05	5343	128.80	48	147.85	196	281.10	80
97.05	188	128.95	102	154.95	171		
103.95	264	129.95	220	156.95	113		
104.85	88	130.90	34	158.90	38		
105.95	246	134.90	55	161.00	56		
106.85	77	136.90	83	172.00	40		
115.85	190	140.95	480	173.90	78016		
116.95	450	141.80	76	174.90	5787		
117.90	262	142.10	36	175.90	76461		

BFB

Data File : C:\MSDCHEM\1\DATA\W44074.D Vial: 1
Acq On : 14 Oct 2013 6:22 pm Operator: danat
Sample : bfb Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1958, 1959, 1960; Background Corrected with Scan 1947

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.8	28394	PASS
75	95	30	66	43.6	83464	PASS
95	95	100	100	100.0	191446	PASS
96	95	5	9	6.6	12705	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.9	189418	PASS
175	174	4	9	8.1	15253	PASS
176	174	93	101	96.9	183530	PASS
177	176	5	9	6.6	12030	PASS

W44074.D MW1765.M Wed Oct 16 08:38:41 2013 MSW

Average of 16.515 to 16.527 min.: W44074.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1519	47.95	991	61.00	6633	74.00	25489
37.00	7190	49.00	6341	62.00	6645	75.00	83464
38.00	6113	50.00	28394	63.00	4702	76.00	7176
39.00	2477	51.00	9110	63.95	540	76.95	1119
40.00	379	52.05	388	67.10	265	77.95	747
41.95	22	54.10	43	68.00	15564	78.90	2906
43.00	61	55.00	322	68.95	15454	79.90	972
44.00	888	55.95	2036	70.00	1297	80.90	2934
44.95	1118	57.00	3615	71.05	195	81.90	593
46.00	44	58.00	237	71.95	984	83.00	45
47.00	2444	60.00	1455	73.00	6952	84.00	70

Average of 16.515 to 16.527 min.: W44074.D
bfb
Modified:subtracted

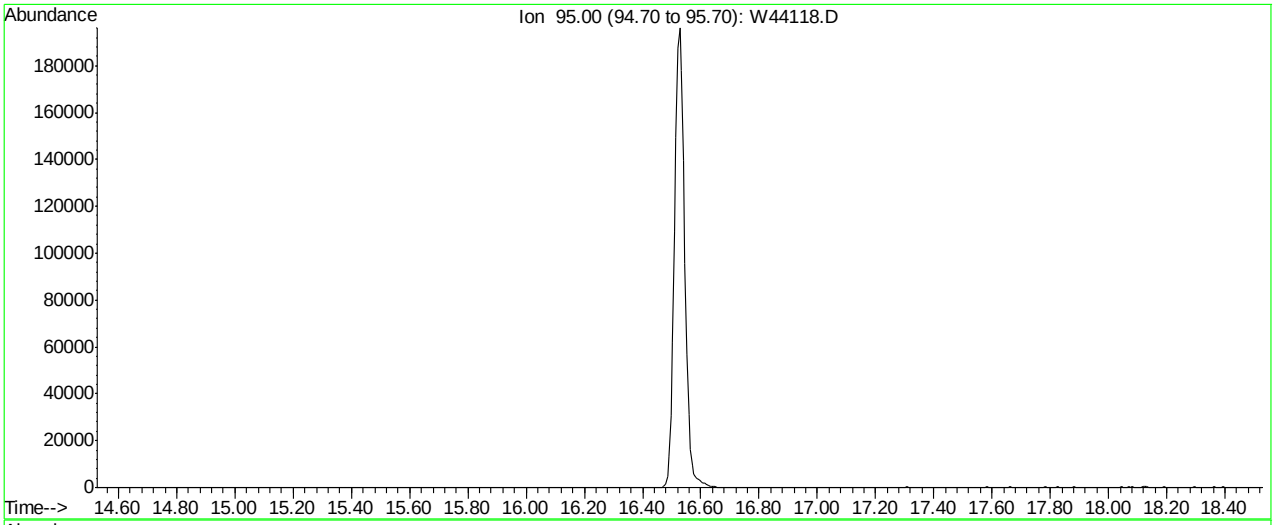
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	7853	102.90	37	114.90	158	129.85	719
87.95	7414	103.85	617	115.85	577	130.85	267
90.90	637	104.85	270	116.85	801	132.95	92
91.95	4447	105.85	594	117.90	532	133.90	40
93.00	7096	106.85	138	118.85	784	134.85	283
94.00	20088	109.80	45	123.80	35	136.80	251
95.00	191446	110.10	89	124.70	38	139.90	67
96.00	12705	110.95	145	125.00	42	140.90	1489
97.00	402	111.90	112	125.85	145	141.95	225
98.05	92	112.80	37	127.85	540	142.90	1544
102.60	44	114.00	35	128.95	307	144.70	74

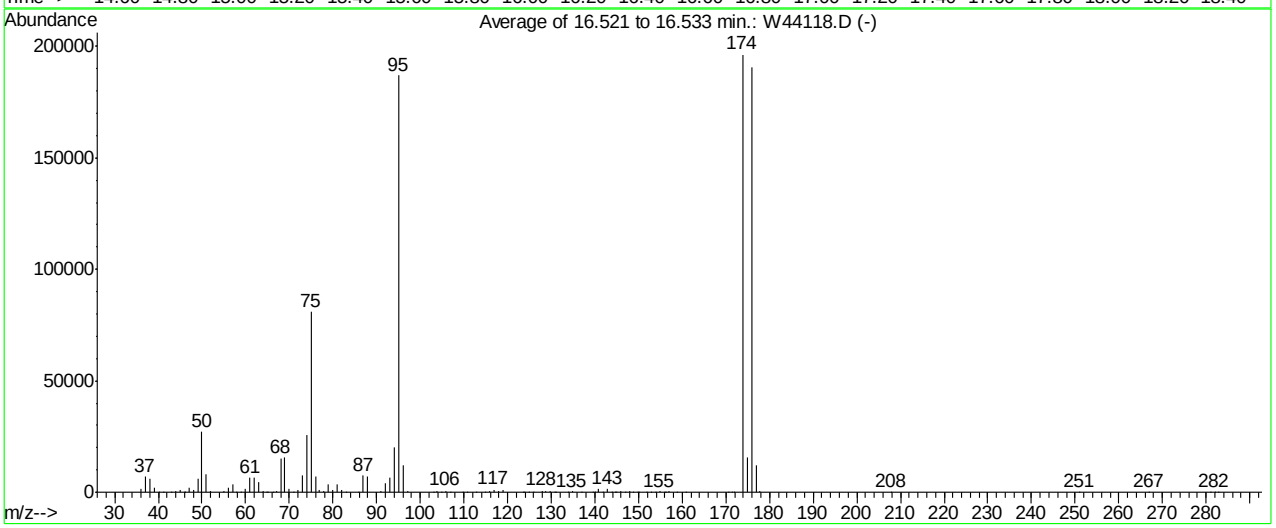
Average of 16.515 to 16.527 min.: W44074.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	74	158.95	182	177.85	341		
145.80	244	160.50	52	178.85	70		
146.90	260	160.80	187	191.90	46		
147.85	435	161.00	68	192.90	77		
148.70	49	171.00	37	194.00	57		
149.10	40	171.50	45	207.95	129		
149.90	206	172.00	69	208.70	34		
152.85	121	173.90	189418	248.80	27		
153.90	169	174.90	15253	264.90	27		
154.90	398	175.90	183530	267.90	37		
156.90	342	176.90	12030	282.70	56		

BFB

Data File : C:\MSDCHEM\1\DATA\W44118.D Vial: 1
Acq On : 17 Oct 2013 8:46 am Operator: danat
Sample : bfb Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1959, 1960, 1961; Background Corrected with Scan 1947

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.5	27032	PASS
75	95	30	66	43.2	80817	PASS
95	95	100	100	100.0	187050	PASS
96	95	5	9	6.4	12026	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	105.0	196437	PASS
175	174	4	9	7.8	15391	PASS
176	174	93	101	97.1	190826	PASS
177	176	5	9	6.4	12262	PASS

W44118.D MW1765.M Fri Oct 18 09:45:19 2013 MSW

Average of 16.521 to 16.533 min.: W44118.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1338	47.00	2061	60.00	1479	70.00	1310
37.00	6872	48.00	911	61.00	6368	70.90	43
38.00	5856	49.00	5896	62.00	6691	72.00	948
39.00	2235	50.00	27032	63.00	4769	73.00	7381
40.00	9	51.00	8232	63.95	472	74.00	25706
41.05	119	52.00	427	64.80	40	75.00	80817
42.95	164	55.00	483	65.00	37	76.00	7144
43.95	686	56.00	2070	66.40	35	76.95	1084
45.00	1035	56.95	3689	67.05	315	77.95	632
45.90	37	57.95	205	68.00	15166	78.90	3338
46.10	41	58.90	51	69.00	15517	79.95	1068

Average of 16.521 to 16.533 min.: W44118.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	3371	96.00	12026	115.80	628	130.80	58
81.85	793	97.05	460	116.85	1030	130.95	152
82.90	108	102.95	75	117.85	535	133.80	40
85.90	205	103.85	637	118.90	910	134.85	357
86.95	7383	104.85	204	123.60	39	136.80	230
88.00	7310	105.85	664	123.80	46	139.60	35
90.95	541	106.80	171	124.90	48	139.95	146
91.95	4251	109.80	36	126.00	46	140.90	1437
93.00	6510	110.85	139	127.85	722	141.85	158
94.00	19890	112.80	46	128.80	274	142.85	1466
95.00	187050	114.85	190	129.85	707	143.75	75

Average of 16.521 to 16.533 min.: W44118.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.70	79	154.85	394	175.90	190826		
144.85	115	155.80	46	176.90	12262		
145.85	304	156.10	38	177.85	357		
147.00	123	156.85	379	207.90	42		
147.85	444	158.85	205	251.00	44		
148.85	163	160.85	194	266.90	124		
149.80	126	170.50	34	281.00	12		
150.00	62	171.30	67	281.90	93		
151.80	104	171.90	132	282.80	45		
152.90	136	173.90	196437				
153.85	110	174.90	15391				

BFB

```
Data File : C:\MSDCHEM\1\DATA\W44145.D                    Vial: 1
Acq On    : 18 Oct 2013   9:00 am                    Operator: danat
Sample    : bfb                                      Inst    : MSW
Misc      : MS56739,VW1768,,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title     : TO15 by GCMS w/Rtx-1, 60m  X 0.32mm ID X 1.0 um
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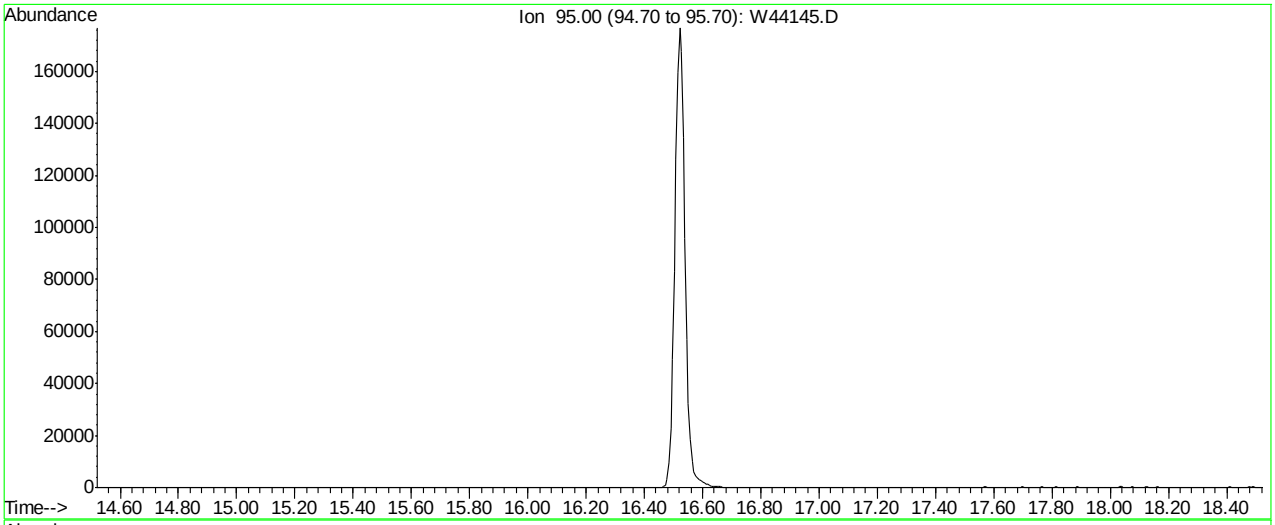
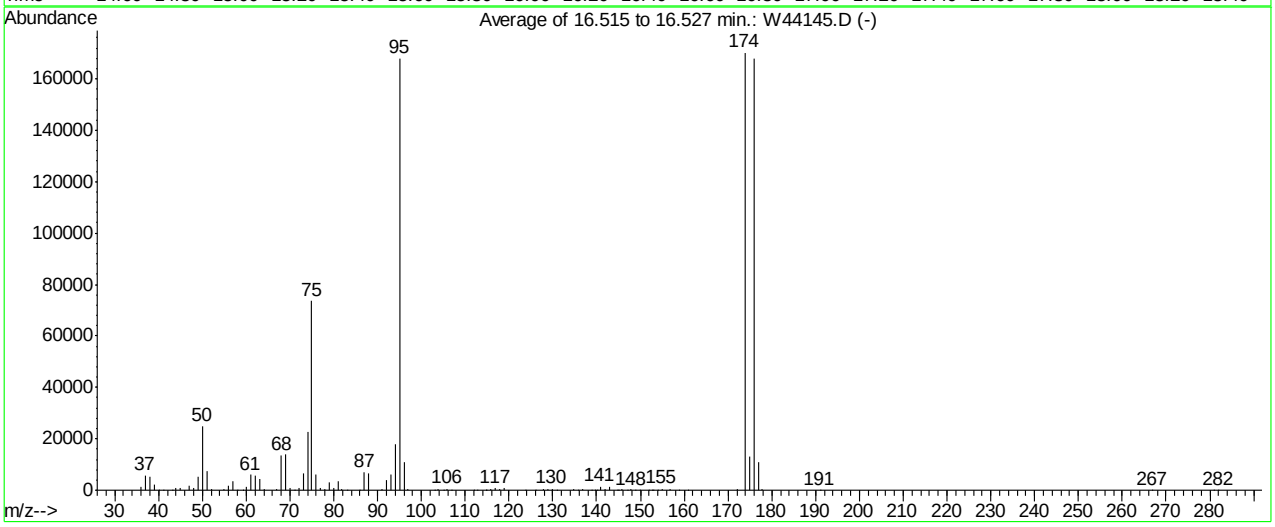




AutoFind: Scans 1958, 1959, 1960; Background Corrected with Scan 1946

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.9	25074	PASS
75	95	30	66	43.8	73594	PASS
95	95	100	100	100.0	167936	PASS
96	95	5	9	6.6	11045	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.4	170240	PASS
175	174	4	9	7.7	13039	PASS
176	174	93	101	98.6	167786	PASS
177	176	5	9	6.5	10839	PASS

W44145.D MW1765.M Fri Oct 18 16:58:36 2013 MSW

Average of 16.515 to 16.527 min.: W44145.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1160	49.00	5391	62.00	5851	75.00	73594
37.00	5851	50.00	25074	63.00	4379	76.00	6152
38.00	5081	51.00	7527	64.05	489	77.00	983
39.00	2165	52.00	374	67.05	374	78.00	625
40.00	28	55.00	324	68.00	13617	78.90	2885
41.00	58	55.95	1720	69.00	14069	79.95	956
43.05	225	57.00	3528	70.00	1053	80.90	3360
44.00	769	58.05	149	71.00	131	81.90	595
45.00	1093	59.20	38	72.00	810	82.95	144
47.00	1715	60.00	1156	73.00	6540	85.90	71
47.95	858	61.00	5931	74.00	22594	86.95	6988

Average of 16.515 to 16.527 min.: W44145.D
bfb
Modified:subtracted

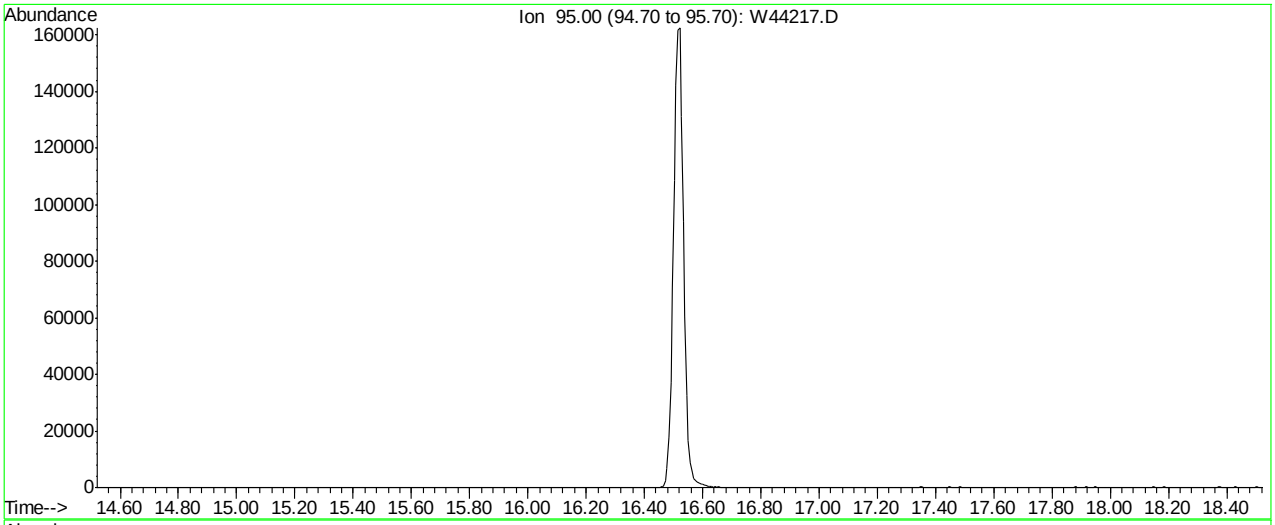
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	6525	105.85	594	126.00	40	140.85	1330
90.95	478	106.85	88	127.85	550	141.90	244
92.00	4133	112.00	36	128.80	269	142.90	1277
93.00	5912	112.85	97	129.90	596	144.70	53
94.00	17869	114.70	84	130.90	220	144.90	120
95.00	167936	114.90	66	134.85	267	145.85	251
96.00	11045	115.90	504	135.90	35	146.95	121
97.00	349	116.90	779	136.85	265	147.85	405
102.90	51	117.85	457	138.90	36	148.85	149
103.90	523	118.85	730	139.70	105	149.85	131
104.95	199	123.80	38	140.10	48	151.90	33

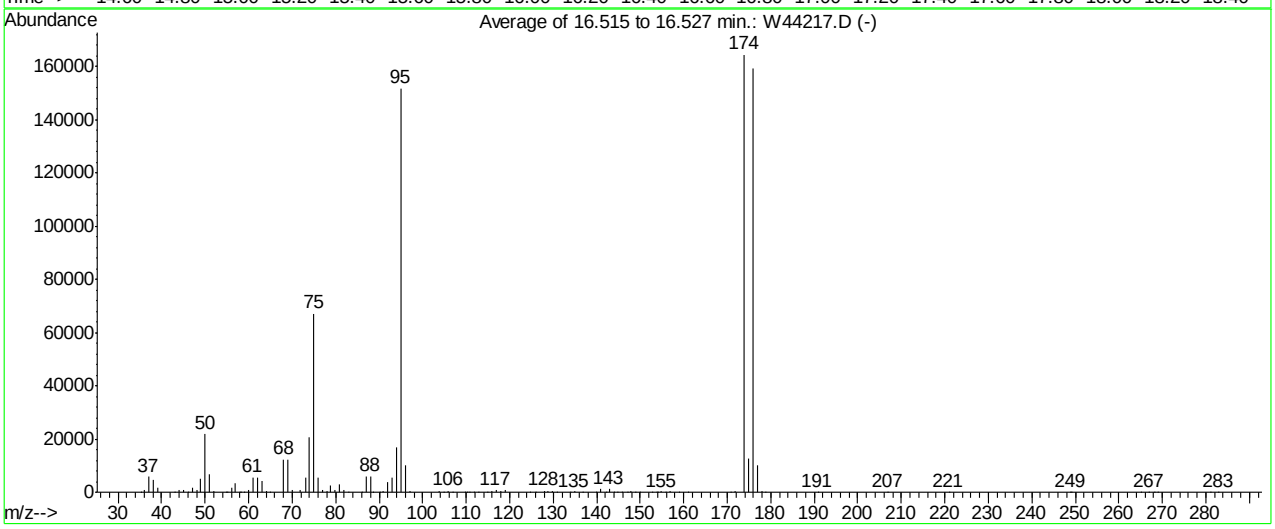
Average of 16.515 to 16.527 min.: W44145.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.70	52	176.90	10839				
152.90	42	177.85	296				
153.95	139	190.95	74				
154.85	484	266.90	26				
156.85	303	280.95	40				
158.85	159	281.95	115				
160.90	180						
172.00	297						
173.90	170240						
174.90	13039						
175.90	167786						

BFB

Data File : C:\MSDCHEM\1\DATA\W44217.D Vial: 1
Acq On : 22 Oct 2013 9:38 am Operator: danat
Sample : bfb Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1958, 1959, 1960; Background Corrected with Scan 1946

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.3	21754	PASS
75	95	30	66	44.2	66997	PASS
95	95	100	100	100.0	151664	PASS
96	95	5	9	6.5	9924	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	108.5	164480	PASS
175	174	4	9	7.8	12813	PASS
176	174	93	101	96.7	159104	PASS
177	176	5	9	6.5	10293	PASS

W44217.D MW1765.M Tue Oct 22 12:15:17 2013 MSW

Average of 16.515 to 16.527 min.: W44217.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.20	37	49.00	4919	60.00	1069	74.00	20852
36.00	1041	50.00	21754	61.00	5510	75.00	66997
37.00	5777	51.00	6682	62.00	5424	76.00	5502
38.00	4813	52.00	260	63.00	4176	77.00	828
39.05	1888	54.90	221	64.05	418	77.95	542
43.00	136	55.10	74	64.90	157	78.90	2719
44.00	650	56.00	1719	68.00	12422	79.90	892
45.00	938	57.00	3205	69.00	12390	80.90	2994
46.05	99	57.90	42	69.95	948	81.90	748
47.00	1757	58.15	82	71.95	760	82.90	40
48.00	711	58.90	99	73.00	5653	85.95	163

Average of 16.515 to 16.527 min.: W44217.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	5825	103.85	503	116.90	768	136.85	174
87.95	5988	104.85	191	117.85	464	139.90	42
88.70	49	105.85	513	118.90	720	140.85	1174
90.10	35	106.90	54	124.70	41	142.10	67
90.90	425	109.80	35	125.95	79	142.85	1248
92.00	3813	110.20	37	127.90	532	144.00	90
93.00	5369	110.80	37	128.80	268	144.85	129
94.00	16669	111.80	41	129.85	480	145.90	215
95.00	151664	112.85	70	130.80	194	146.95	76
96.00	9924	114.90	181	133.90	35	147.85	414
96.95	382	115.85	478	134.90	224	148.80	130

Average of 16.515 to 16.527 min.: W44217.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.90	101	173.90	164480	264.95	23		
152.85	91	174.90	12813	266.90	151		
153.70	38	175.90	159104	268.10	69		
153.95	74	176.90	10293	269.00	69		
154.90	395	177.90	291	280.95	32		
155.95	68	178.70	43	282.95	42		
156.85	325	190.85	117				
158.85	164	206.90	13				
160.85	216	221.00	86				
170.80	48	248.80	37				
171.85	355	249.00	48				

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35039.D Vial: 1
Acq On : 23 Jul 2013 10:20 am Operator: YOUMINH
Sample : ICC1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:03 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	113224	10.00	PPBV	-0.04
49) 1,4-DIFLUOROBENZENE	8.96	114	514163	10.00	PPBV	-0.05
68) CHLOROBENZENE-D5	13.10	82	253225	10.00	PPBV	-0.05
105) CHLOROBENZENE-D5 (a)	13.10	82	253499	10.00	PPBV	-0.05
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.74	95	302914	11.29	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.90%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	106557	10.13	PPBV	98
4) CHLORODIFLUOROMETHANE	4.35	67	39013	10.36	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.41	85	404148	10.04	PPBV	99
6) PROPYLENE	4.36	41	130458	9.09	PPBV	99
7) FREON 114	4.55	85	434716	10.45	PPBV	98
8) CHLOROMETHANE	4.50	50	190338	9.63	PPBV	99
9) VINYL CHLORIDE	4.62	62	188025	10.54	PPBV	100
10) 1,3-BUTADIENE	4.69	54	136667	10.49	PPBV	99
11) n-BUTANE	4.72	43	256973	9.14	PPBV	99
12) BROMOMETHANE	4.86	94	174539	11.14	PPBV	99
13) CHLOROETHANE	4.94	64	100486	11.30	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	374634	10.46	PPBV	100
15) ACETONITRILE	5.17	41	107552	10.56	PPBV	99
16) FREON 123	5.21	83	410586	11.02	PPBV	99
17) FREON 123A	5.24	117	239605	10.99	PPBV	91
18) TRICHLOROFLUOROMETHANE	5.38	101	398857	10.17	PPBV	99
19) ISOPROPYL ALCOHOL	5.45	45	250877	10.12	PPBV #	5
20) ACETONE	5.29	58	70564	9.74	PPBV	96
21) PENTANE	5.55	42	166463	9.14	PPBV	99
23) IODOMETHANE	5.73	142	467151	11.54	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.77	96	167405	11.04	PPBV	94
25) CARBON DISULFIDE	6.04	76	456774	10.04	PPBV	98
26) ETHANOL	5.05	45	62443	10.79	PPBV	98
27) BROMOETHENE	5.15	106	181506	11.52	PPBV	100
28) ACRYLONITRILE	5.59	52	91644	11.56	PPBV	94
29) METHYLENE CHLORIDE	5.85	84	146201	8.97	PPBV	98
30) 3-CHLOROPROPENE	5.91	76	76340	11.08	PPBV #	64
31) FREON 113	5.99	151	287364	11.41	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	171000	11.79	PPBV	96
33) TERTIARY BUTYL ALCOHOL	5.80	59	331373	11.92	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.61	73	432440	10.81	PPBV	99
35) TETRAHYDROFURAN	7.77	72	76603	11.51	PPBV	95
36) HEXANE	7.29	57	261949	10.62	PPBV	97
37) VINYL ACETATE	6.69	86	35744	11.37	PPBV #	81
38) 1,1-DICHLOROETHANE	6.60	63	318772	10.55	PPBV	99
39) METHYL ETHYL KETONE	6.88	72	74352	11.42	PPBV #	87
40) cis-1,2-DICHLOROETHYLENE	7.25	96	184805	11.53	PPBV	96
41) DIISOPROPYL ETHER	7.31	45	554121	10.23	PPBV	97
42) ETHYL ACETATE	7.37	61	52485	10.05	PPBV #	93
43) METHYL ACRYLATE	7.39	55	254070	10.84	PPBV #	100
44) CHLOROFORM	7.45	83	340237	10.83	PPBV	91
45) 2,4-DIMETHYLPENTANE	7.99	57	328476	10.61	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.24	97	341210	10.89	PPBV	99
47) CARBON TETRACHLORIDE	8.77	117	347228	10.79	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	192559	10.83	PPBV	99
50) BENZENE	8.65	78	533673	10.72	PPBV	99
51) CYCLOHEXANE	8.81	84	282389	11.10	PPBV	96
52) 2,3-DIMETHYLPENTANE	8.99	71	119742	9.84	PPBV	99

(#) = qualifier out of range (m) = manual integration
3W35039.D M3W1350.M Thu Jul 25 10:23:41 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35039.D Vial: 1
Acq On : 23 Jul 2013 10:20 am Operator: YOUMINH
Sample : ICC1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:03 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

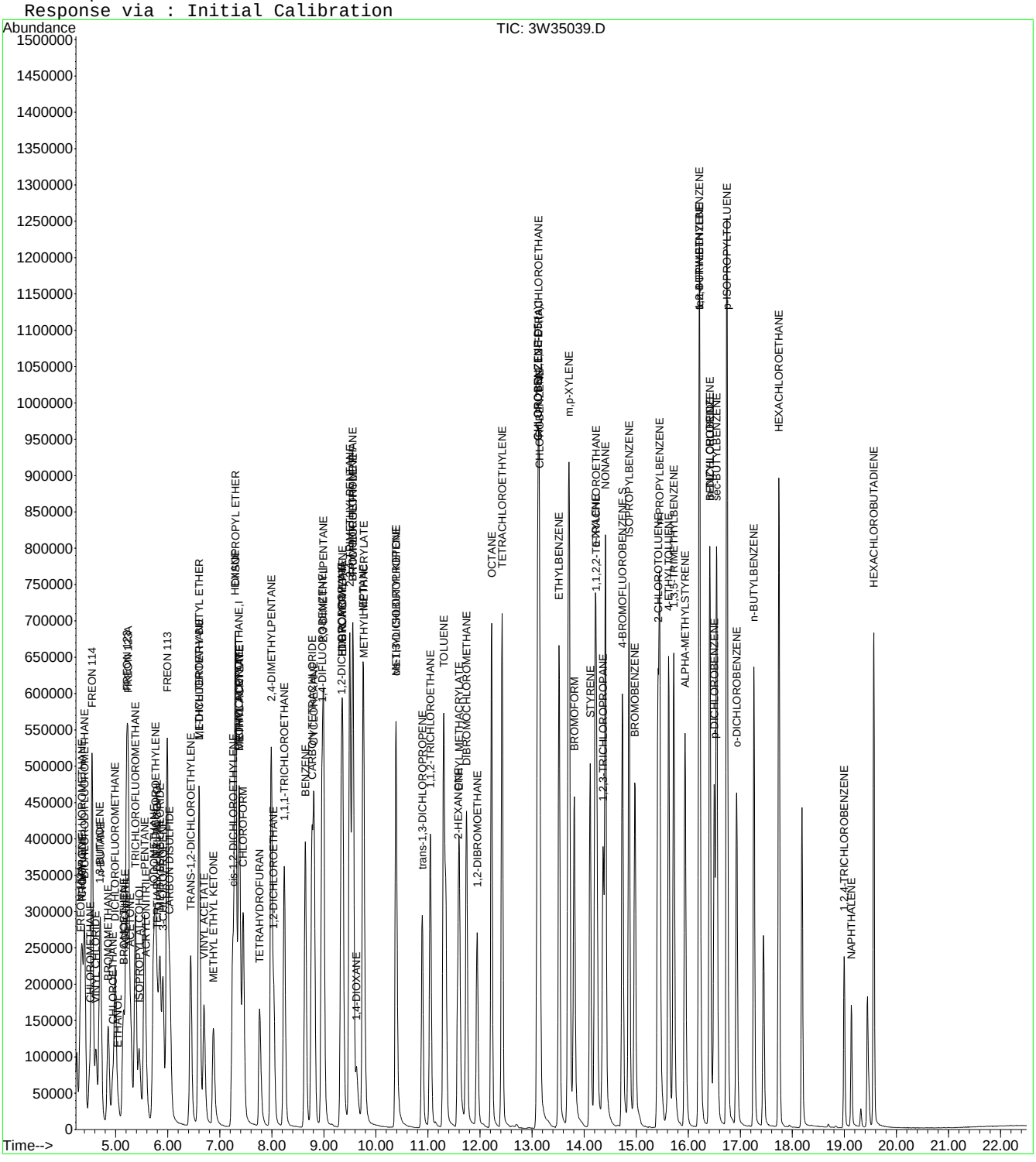
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.56	95	211959	10.91	PPBV		96
54)	1,2-DICHLOROPROPANE	9.33	63	193853	9.43	PPBV		98
55)	DIBROMOMETHANE	9.36	174	214845	11.67	PPBV		97
56)	ETHYL ACRYLATE	9.36	55	304564	9.07	PPBV	#	91
57)	BROMODICHLOROMETHANE	9.55	83	360700	10.75	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	841936	10.27	PPBV		98
59)	1,4-DIOXANE	9.63	88	102924	11.58	PPBV	#	1
60)	HEPTANE	9.75	43	303146	9.46	PPBV		93
62)	METHYL METHACRYLATE	9.77	69	165470	10.88	PPBV	#	100
63)	METHYL ISOBUTYL KETONE	10.39	58	125892	10.15	PPBV		97
64)	cis-1,3-DICHLOROPROPENE	10.39	75	269616	11.25	PPBV		98
65)	TOLUENE	11.30	92	359078	11.37	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.89	75	251064	11.87	PPBV		97
67)	1,1,2-TRICHLOROETHANE	11.04	83	178797	11.14	PPBV		99
69)	2-HEXANONE	11.58	58	167362	11.40	PPBV		97
70)	ETHYL METHACRYLATE	11.60	69	244818	11.24	PPBV		96
71)	TETRACHLOROETHYLENE	12.42	164	242486	11.97	PPBV		99
72)	DIBROMOCHLOROMETHANE	11.74	129	355822	11.46	PPBV		100
73)	1,2-DIBROMOETHANE	11.94	107	288487	11.92	PPBV		99
74)	OCTANE	12.22	43	397218	10.13	PPBV		97
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	257110	11.41	PPBV		98
76)	CHLOROBENZENE	13.15	112	423366	11.35	PPBV		98
77)	ETHYLBENZENE	13.52	91	701729	11.19	PPBV		98
78)	m,p-XYLENE	13.71	106	539083	23.04	PPBV		95
79)	o-XYLENE	14.21	106	260309	11.33	PPBV	#	99
80)	STYRENE	14.11	104	406724	12.69	PPBV		82
81)	NONANE	14.41	43	388903	10.38	PPBV		97
82)	BROMOFORM	13.81	173	342827	11.95	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.24	83	378554	12.16	PPBV		98
85)	1,2,3-TRICHLOROPROPANE	14.36	75	270236	12.32	PPBV		100
86)	ISOPROPYLBENZENE	14.86	105	753629	11.45	PPBV		99
87)	BROMOBENZENE	14.97	77	319330	11.21	PPBV		94
88)	2-CHLOROTOLUENE	15.42	126	180077	12.64	PPBV		99
89)	n-PROPYLBENZENE	15.45	120	188385	13.39	PPBV		99
90)	4-ETHYLTOLUENE	15.62	105	640951	14.10	PPBV		100
91)	1,3,5-TRIMETHYLBENZENE	15.72	105	565584	14.88	PPBV		99
92)	ALPHA-METHYLSTYRENE	15.94	118	261164	18.60	PPBV		99
93)	tert-BUTYLBENZENE	16.21	134	129753	16.36	PPBV		97
94)	1,2,4-TRIMETHYLBENZENE	16.22	105	502881	16.40	PPBV	#	84
95)	m-DICHLOROBENZENE	16.41	146	317422	17.31	PPBV		99
96)	BENZYL CHLORIDE	16.41	91	360629	21.27	PPBV		97
97)	p-DICHLOROBENZENE	16.50	146	311465	17.40	PPBV		100
98)	sec-BUTYLBENZENE	16.55	134	150835	17.25	PPBV	#	93
99)	p-ISOPROPYLTOLUENE	16.74	134	158377	20.52	PPBV		98
100)	o-DICHLOROBENZENE	16.93	146	294376	17.73	PPBV		98
101)	n-BUTYLBENZENE	17.26	134	127373	25.89	PPBV	#	90
102)	HEXACHLOROETHANE	17.74	117	225740	14.55	PPBV		97
103)	HEXACHLOROBUTADIENE	19.57	225	166907	22.23	PPBV		82
104)	1,2,4-TRICHLOROBENZENE	19.00	180	102537	22.38	PPBV		98
106)	NAPHTHALENE	19.13	128	170082	22.39	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35039.D M3W1350.M Thu Jul 25 10:23:42 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35039.D Vial: 1
Acq On : 23 Jul 2013 10:20 am Operator: YOUMINH
Sample : ICC1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:23 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
07/25/13 11:35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:09 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	115384	10.00	PPBV	-0.05
49) 1,4-DIFLUOROBENZENE	8.96	114	516654	10.00	PPBV	-0.05
68) CHLOROBENZENE-D5	13.10	82	253999	10.00	PPBV	-0.06
105) CHLOROBENZENE-D5 (a)	13.10	82	254275	10.00	PPBV	-0.06

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.73	95	304447	11.31	PPBV	-0.07

Spiked Amount 10.000 Range 65 - 128 Recovery = 113.10%

Target Compounds						Qvalue
3) FREON 152A	4.31	65	53061	4.95	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	19413	5.06	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.40	85	205306	5.01	PPBV	100
6) PROPYLENE	4.36	41	67251	4.60	PPBV	100
7) FREON 114	4.55	85	214448	5.06	PPBV	97
8) CHLOROMETHANE	4.50	50	92265	4.58	PPBV	96
9) VINYL CHLORIDE	4.62	62	93415	5.14	PPBV	100
10) 1,3-BUTADIENE	4.69	54	67056	5.05	PPBV	98
11) n-BUTANE	4.71	43	130390	4.55	PPBV	99
12) BROMOMETHANE	4.85	94	86553	5.42	PPBV	99
13) CHLOROETHANE	4.94	64	47098	5.20	PPBV	98
14) DICHLOROFLUOROMETHANE	4.99	67	180690	4.95	PPBV	100
15) ACETONITRILE	5.17	41	48460	4.67	PPBV	97
16) FREON 123	5.20	83	199630	5.26	PPBV	99
17) FREON 123A	5.24	117	115120	5.18	PPBV	93
18) TRICHLOROFLUOROMETHANE	5.38	101	198386	4.96	PPBV	99
19) ISOPROPYL ALCOHOL	5.45	45	116141	4.60	PPBV #	6
20) ACETONE	5.29	58	32507	4.40	PPBV	92
21) PENTANE	5.55	42	81843	4.41	PPBV	98
23) IODOMETHANE	5.73	142	227136	5.51	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.76	96	81906	5.30	PPBV	94
25) CARBON DISULFIDE	6.04	76	229346	4.94	PPBV	98
26) ETHANOL	5.04	45	28725	4.87	PPBV	99
27) BROMOETHENE	5.14	106	88388	5.50	PPBV	99
28) ACRYLONITRILE	5.58	52	40121	4.96	PPBV	94
29) METHYLENE CHLORIDE	5.85	84	71370	4.30	PPBV	89
30) 3-CHLOROPROPENE	5.91	76	35680	5.08	PPBV #	66
31) FREON 113	5.99	151	140058	5.46	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	81044	5.48	PPBV	96
33) TERTIARY BUTYL ALCOHOL	5.82	59	147095	5.19	PPBV	91
34) METHYL TERTIARY BUTYL ETHE	6.61	73	199089	4.88	PPBV	99
35) TETRAHYDROFURAN	7.77	72	34600	5.10	PPBV	96
36) HEXANE	7.29	57	124528	4.95	PPBV	96
37) VINYL ACETATE	6.70	86	16185	5.05	PPBV #	79
38) 1,1-DICHLOROETHANE	6.59	63	151410	4.92	PPBV	100
39) METHYL ETHYL KETONE	6.88	72	32171	4.85	PPBV #	90
40) cis-1,2-DICHLOROETHYLENE	7.24	96	86330	5.29	PPBV	97
41) DIISOPROPYL ETHER	7.31	45	258304	4.68	PPBV	98
42) ETHYL ACETATE	7.38	61	23758	4.46	PPBV #	93
43) METHYL ACRYLATE	7.38	55	111716	4.68	PPBV #	99
44) CHLOROFORM	7.44	83	159313	4.98	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.98	57	158269	5.02	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.24	97	164313	5.15	PPBV	98
47) CARBON TETRACHLORIDE	8.77	117	166709	5.09	PPBV	99
48) 1,2-DICHLOROETHANE	8.03	62	87766	4.84	PPBV	99
50) BENZENE	8.64	78	251992	5.04	PPBV	99
51) CYCLOHEXANE	8.81	84	135707	5.31	PPBV	96
52) 2,3-DIMETHYLPENTANE	8.99	71	57964	4.74	PPBV	96

(#) = qualifier out of range (m) = manual integration
3W35040.D M3W1350.M Thu Jul 25 10:24:17 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:09 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

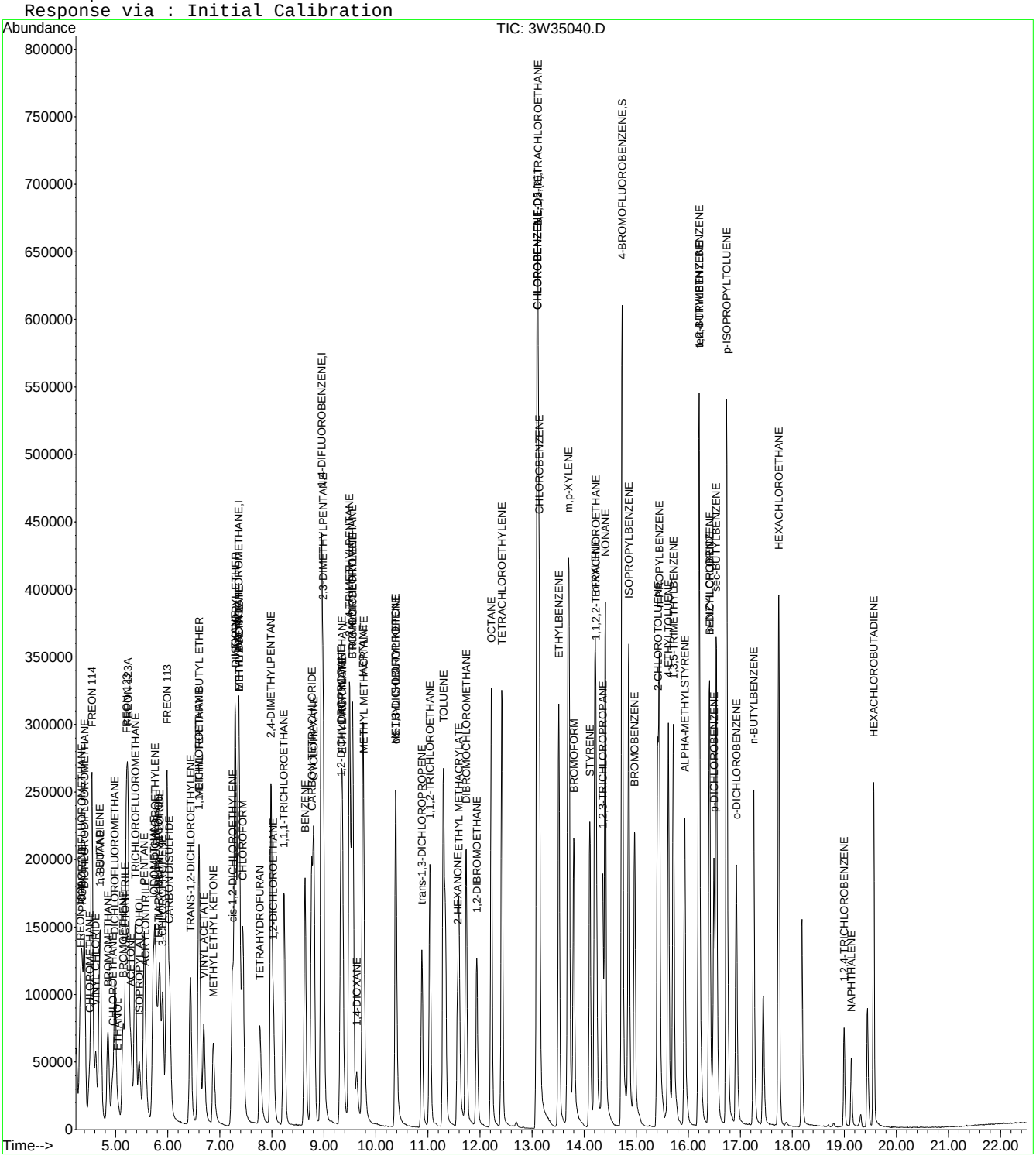
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.56	95	97883	5.01	PPBV		97
54)	1,2-DICHLOROPROPANE	9.32	63	90382	4.38	PPBV		98
55)	DIBROMOMETHANE	9.35	174	98309	5.31	PPBV		97
56)	ETHYL ACRYLATE	9.36	55	131534	3.90	PPBV	#	91
57)	BROMODICHLOROMETHANE	9.54	83	169366	5.02	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.49	57	411262	4.99	PPBV		98
59)	1,4-DIOXANE	9.63	88	43628	4.88	PPBV	#	1
60)	HEPTANE	9.75	43	141286	4.39	PPBV		94
62)	METHYL METHACRYLATE	9.77	69	72388	4.74	PPBV	#	100
63)	METHYL ISOBUTYL KETONE	10.39	58	53989	4.33	PPBV		98
64)	cis-1,3-DICHLOROPROPENE	10.38	75	121971	5.06	PPBV		98
65)	TOLUENE	11.30	92	166787	5.25	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.88	75	111054	5.22	PPBV		98
67)	1,1,2-TRICHLOROETHANE	11.04	83	82787	5.13	PPBV		98
69)	2-HEXANONE	11.57	58	69941	4.75	PPBV		99
70)	ETHYL METHACRYLATE	11.60	69	105629	4.84	PPBV		96
71)	TETRACHLOROETHYLENE	12.42	164	113829	5.60	PPBV		98
72)	DIBROMOCHLOROMETHANE	11.74	129	165930	5.33	PPBV		99
73)	1,2-DIBROMOETHANE	11.94	107	129612	5.34	PPBV		100
74)	OCTANE	12.22	43	189142	4.81	PPBV		98
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	120871	5.35	PPBV		98
76)	CHLOROBENZENE	13.14	112	195897	5.24	PPBV		99
77)	ETHYLBENZENE	13.51	91	323373	5.14	PPBV		99
78)	m,p-XYLENE	13.70	106	250447	10.67	PPBV		97
79)	o-XYLENE	14.21	106	123014	5.34	PPBV	#	97
80)	STYRENE	14.11	104	180086	5.60	PPBV		82
81)	NONANE	14.41	43	184384	4.91	PPBV		98
82)	BROMOFORM	13.80	173	155798	5.41	PPBV		100
84)	1,1,2,2-TETRACHLOROETHANE	14.23	83	174859	5.60	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.36	75	122832	5.58	PPBV		99
86)	ISOPROPYLBENZENE	14.86	105	352065	5.33	PPBV		99
87)	BROMOBENZENE	14.97	77	144035	5.04	PPBV		94
88)	2-CHLOROTOLUENE	15.41	126	82400	5.77	PPBV		100
89)	n-PROPYLBENZENE	15.44	120	86390	6.12	PPBV		98
90)	4-ETHYLTOLUENE	15.62	105	283490	6.22	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	260395	6.83	PPBV		97
92)	ALPHA-METHYLSTYRENE	15.93	118	112035	7.95	PPBV		99
93)	tert-BUTYLBENZENE	16.20	134	58562	7.36	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	226444	7.36	PPBV	#	85
95)	m-DICHLOROBENZENE	16.40	146	135620	7.37	PPBV		99
96)	BENZYL CHLORIDE	16.41	91	148904	8.76	PPBV		98
97)	p-DICHLOROBENZENE	16.49	146	136050	7.58	PPBV		99
98)	sec-BUTYLBENZENE	16.54	134	68043	7.76	PPBV		95
99)	p-ISOPROPYLTOLUENE	16.74	134	70327	9.08	PPBV		100
100)	o-DICHLOROBENZENE	16.93	146	130102	7.81	PPBV		98
101)	n-BUTYLBENZENE	17.26	134	52399	10.62	PPBV		97
102)	HEXACHLOROETHANE	17.73	117	103232	6.63	PPBV		98
103)	HEXACHLOROBUTADIENE	19.57	225	63252m	8.40	PPBV		
104)	1,2,4-TRICHLOROBENZENE	18.99	180	34249	7.45	PPBV		97
106)	NAPHTHALENE	19.13	128	56666	7.44	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35040.D M3W1350.M Thu Jul 25 10:24:17 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integration Approval Summary

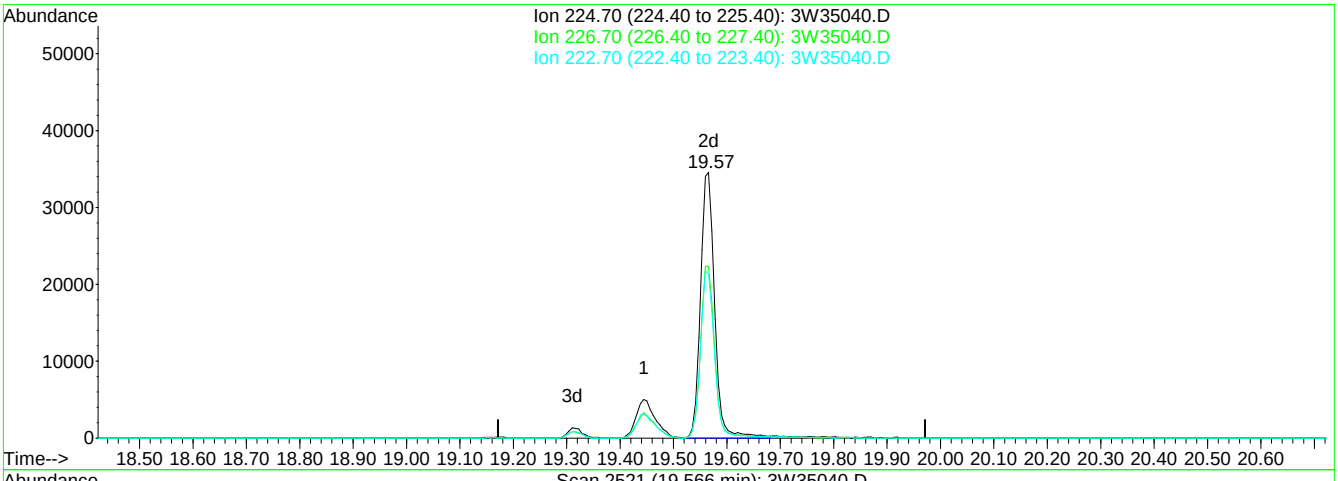
Sample Number:	V3W1350-IC1350	**Method:**	TO-15
Lab FileID:	3W35040.D	**Analyst approved:**	07/24/13 08:58 Dana Tryon
Injection Time:	07/23/13 11:05	**Supervisor approved:**	07/25/13 11:35 Jessica Reitan-Chu

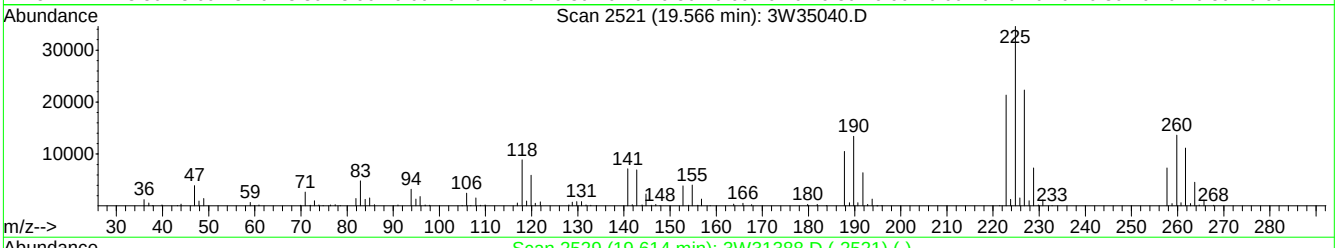
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorobutadiene	87-68-3		19.57	Missed peak

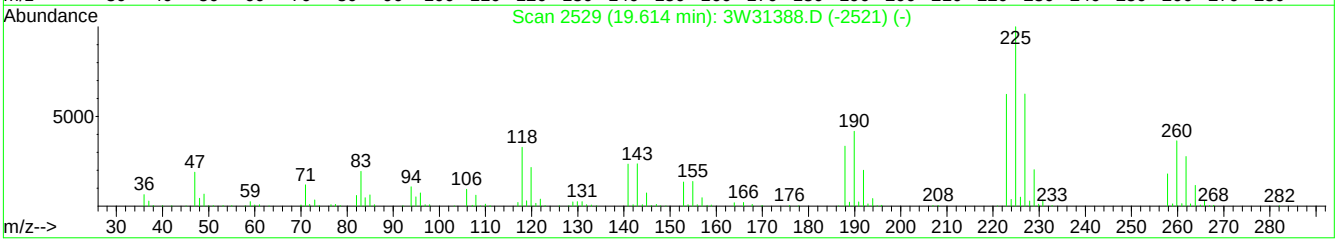
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:52 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Multiple Level Calibration







TIC: 3W35040.D

(103) HEXACHLOROBUTADIENE

19.57min 8.40PPBV m

response 63252

Ion	Exp%	Act%
224.70	100	100
226.70	84.80	12.55#
222.70	73.40	12.70#
0.00	0.00	0.00

3W35040.D M3W1350.M Wed Jul 24 08:40:10 2013 MS3W

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
07/25/13 11:35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:50:00 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	110932	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.95	114	471475	10.00	PPBV	-0.01
68) CHLOROBENZENE-D5	13.09	82	211383	10.00	PPBV	-0.01
105) CHLOROBENZENE-D5 (a)	13.09	82	211593	10.00	PPBV	-0.01

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.72	95	229341	9.31	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 93.10%

Target Compounds						Qvalue
3) FREON 152A	4.32	65	1990	0.20	PPBV	90
4) CHLORODIFLUOROMETHANE	4.34	67	702	0.18	PPBV	84
5) DICHLORODIFLUOROMETHANE	4.41	85	8613	0.21	PPBV	99
6) PROPYLENE	4.36	41	2848	0.22	PPBV	94
7) FREON 114	4.55	85	9040	0.21	PPBV	98
8) CHLOROMETHANE	4.50	50	4107	0.22	PPBV	98
9) VINYL CHLORIDE	4.62	62	3658	0.20	PPBV	96
10) 1,3-BUTADIENE	4.69	54	2564	0.20	PPBV	91
11) n-BUTANE	4.71	43	5750	0.22	PPBV #	92
12) BROMOMETHANE	4.86	94	3341	0.20	PPBV	99
13) CHLOROETHANE	4.93	64	1736	0.18	PPBV #	61
14) DICHLOROFLUOROMETHANE	4.99	67	7047	0.20	PPBV	98
15) ACETONITRILE	5.20	41	1316	0.13	PPBV #	63
16) FREON 123	5.21	83	7632	0.19	PPBV	97
17) FREON 123A	5.24	117	4551	0.20	PPBV	100
18) TRICHLOROFLUOROMETHANE	5.38	101	8005	0.20	PPBV	97
19) ISOPROPYL ALCOHOL	5.51	45	4057	0.17	PPBV #	24
20) ACETONE	5.35	58	953	0.15	PPBV #	45
21) PENTANE	5.54	42	3534	0.22	PPBV	87
23) IODOMETHANE	5.73	142	8686	0.19	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.76	96	2834	0.18	PPBV	91
25) CARBON DISULFIDE	6.04	76	9275	0.20	PPBV #	84
26) ETHANOL	5.10	45	898m	0.16	PPBV	
27) BROMOETHENE	5.15	106	3264	0.19	PPBV	96
28) ACRYLONITRILE	5.59	52	792	0.11	PPBV #	82
29) METHYLENE CHLORIDE	5.85	84	4426	0.29	PPBV	95
30) 3-CHLOROPROPENE	5.91	76	1146	0.16	PPBV #	35
31) FREON 113	5.99	151	5297	0.19	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	2508	0.16	PPBV	91
33) TERTIARY BUTYL ALCOHOL	5.89	59	4992	0.17	PPBV #	1
34) METHYL TERTIARY BUTYL ETHE	6.65	73	6771	0.17	PPBV	98
35) TETRAHYDROFURAN	7.85	72	716	0.11	PPBV #	63
36) HEXANE	7.29	57	4412	0.18	PPBV	92
37) VINYL ACETATE	6.72	86	177	0.06	PPBV #	1
38) 1,1-DICHLOROETHANE	6.60	63	5642	0.19	PPBV	98
39) METHYL ETHYL KETONE	6.94	72	741	0.12	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.24	96	2874	0.17	PPBV	95
41) DIISOPROPYL ETHER	7.34	45	8543	0.17	PPBV	88
42) ETHYL ACETATE	7.42	61	585m	0.13	PPBV	
43) METHYL ACRYLATE	7.42	55	2639	0.13	PPBV #	70
44) CHLOROFORM	7.43	83	5894	0.19	PPBV #	88
45) 2,4-DIMETHYLPENTANE	7.98	57	5802	0.19	PPBV	96
46) 1,1,1-TRICHLOROETHANE	8.23	97	6150	0.19	PPBV	97
47) CARBON TETRACHLORIDE	8.76	117	6500	0.20	PPBV	94
48) 1,2-DICHLOROETHANE	8.03	62	2912	0.17	PPBV	94
50) BENZENE	8.64	78	9452	0.20	PPBV	98
51) CYCLOHEXANE	8.81	84	5223	0.20	PPBV	98
52) 2,3-DIMETHYLPENTANE	8.98	71	2772	0.25	PPBV #	1

(#) = qualifier out of range (m) = manual integration
3W35042.D M3W1350.M Thu Jul 25 10:24:43 2013 MS3W

7.7.3
7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:50:00 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

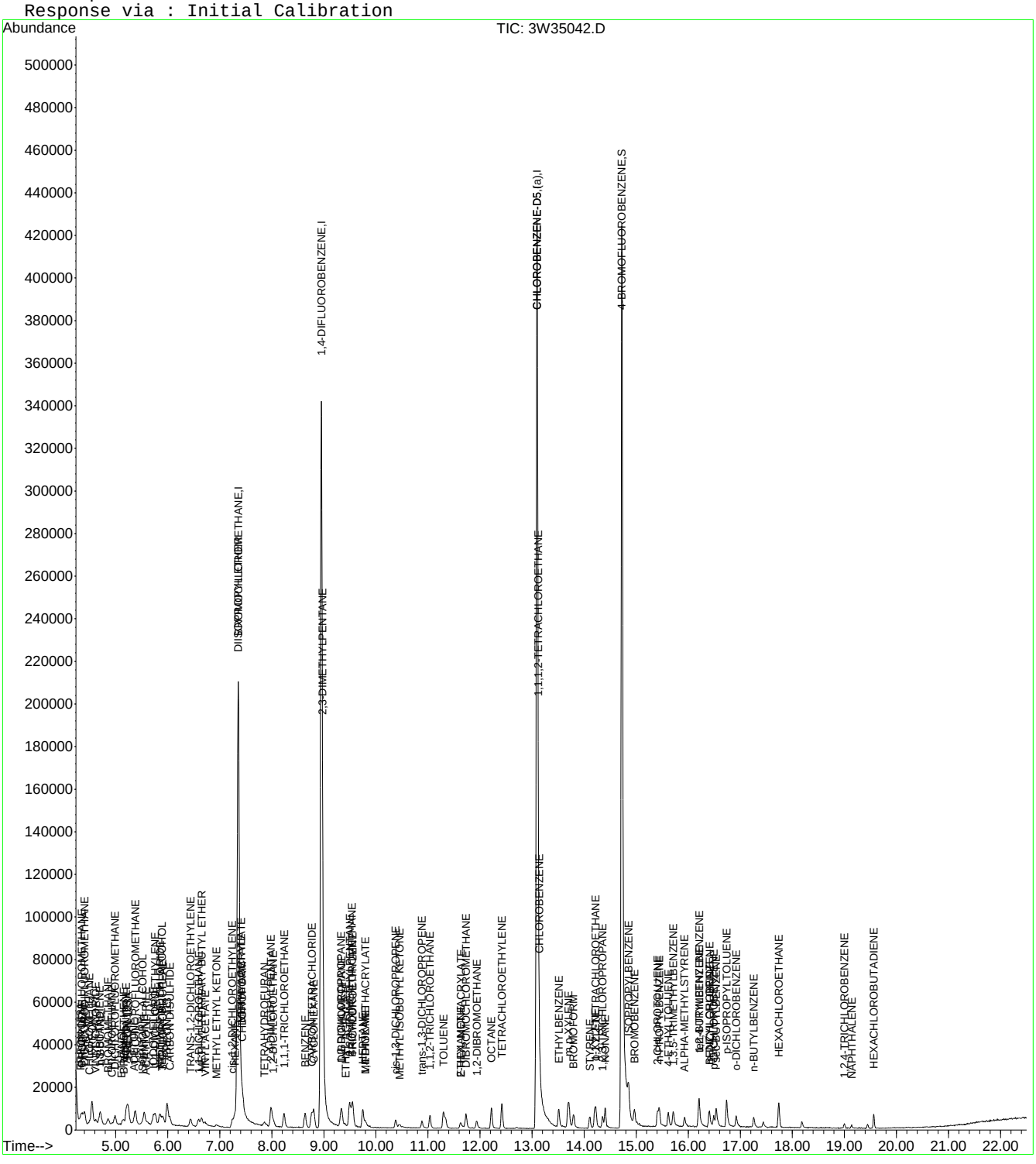
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.55	95	3837	0.20	PPBV		98
54)	1,2-DICHLOROPROPANE	9.33	63	4268	0.26	PPBV		78
55)	DIBROMOMETHANE	9.35	174	3527	0.19	PPBV		95
56)	ETHYL ACRYLATE	9.42	55	4158	0.16	PPBV	#	72
57)	BROMODICHLOROMETHANE	9.53	83	6045	0.19	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.49	57	15219	0.20	PPBV		98
59)	1,4-DIOXANE	9.80	88	1244m	0.17	PPBV		
60)	HEPTANE	9.75	43	5371	0.20	PPBV		95
62)	METHYL METHACRYLATE	9.80	69	1996	0.15	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.46	58	873m	0.09	PPBV		
64)	cis-1,3-DICHLOROPROPENE	10.38	75	3928	0.17	PPBV		95
65)	TOLUENE	11.30	92	5288	0.17	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.88	75	3076	0.15	PPBV		96
67)	1,1,2-TRICHLOROETHANE	11.04	83	2610	0.18	PPBV		99
69)	2-HEXANONE	11.64	58	981m	0.09	PPBV		
70)	ETHYL METHACRYLATE	11.62	69	2258	0.13	PPBV	#	90
71)	TETRACHLOROETHYLENE	12.42	164	4011	0.20	PPBV		97
72)	DIBROMOCHLOROMETHANE	11.73	129	5385	0.19	PPBV		98
73)	1,2-DIBROMOETHANE	11.94	107	3921	0.18	PPBV	#	96
74)	OCTANE	12.22	43	6021	0.19	PPBV		94
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	4024	0.20	PPBV		99
76)	CHLOROBENZENE	13.14	112	6345	0.19	PPBV	#	57
77)	ETHYLBENZENE	13.51	91	9687	0.18	PPBV		96
78)	m,p-XYLENE	13.71	106	7446	0.36	PPBV		97
79)	o-XYLENE	14.21	106	3452	0.17	PPBV	#	87
80)	STYRENE	14.11	104	4291	0.15	PPBV		98
81)	NONANE	14.40	43	5059	0.16	PPBV		94
82)	BROMOFORM	13.79	173	4667	0.18	PPBV		95
84)	1,1,2,2-TETRACHLOROETHANE	14.22	83	5606	0.19	PPBV		89
85)	1,2,3-TRICHLOROPROPANE	14.35	75	3707	0.18	PPBV		92
86)	ISOPROPYLBENZENE	14.86	105	10670	0.18	PPBV		98
87)	BROMOBENZENE	14.96	77	4243	0.17	PPBV		98
88)	2-CHLOROTOLUENE	15.40	126	2322	0.17	PPBV		91
89)	n-PROPYLBENZENE	15.45	120	2090	0.15	PPBV		94
90)	4-ETHYLTOLUENE	15.62	105	7224	0.15	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	7870	0.18	PPBV		94
92)	ALPHA-METHYLSTYRENE	15.93	118	2240	0.12	PPBV		89
93)	tert-BUTYLBENZENE	16.20	134	1679	0.17	PPBV	#	82
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	6150	0.16	PPBV		88
95)	m-DICHLOROBENZENE	16.40	146	3778	0.16	PPBV		97
96)	BENZYL CHLORIDE	16.41	91	4210	0.17	PPBV		88
97)	p-DICHLOROBENZENE	16.49	146	4016	0.17	PPBV		94
98)	sec-BUTYLBENZENE	16.54	134	1883	0.17	PPBV	#	87
99)	p-ISOPROPYLTOLUENE	16.74	134	1649	0.14	PPBV	#	66
100)	o-DICHLOROBENZENE	16.93	146	3951	0.18	PPBV		95
101)	n-BUTYLBENZENE	17.25	134	1138	0.13	PPBV	#	82
102)	HEXACHLOROETHANE	17.74	117	3543	0.20	PPBV		87
103)	HEXACHLOROBUTADIENE	19.56	225	1840	0.16	PPBV		98
104)	1,2,4-TRICHLOROBENZENE	19.00	180	1119	0.16	PPBV		91
106)	NAPHTHALENE	19.15	128	1634	0.14	PPBV	#	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35042.D M3W1350.M Thu Jul 25 10:24:44 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integration Approval Summary

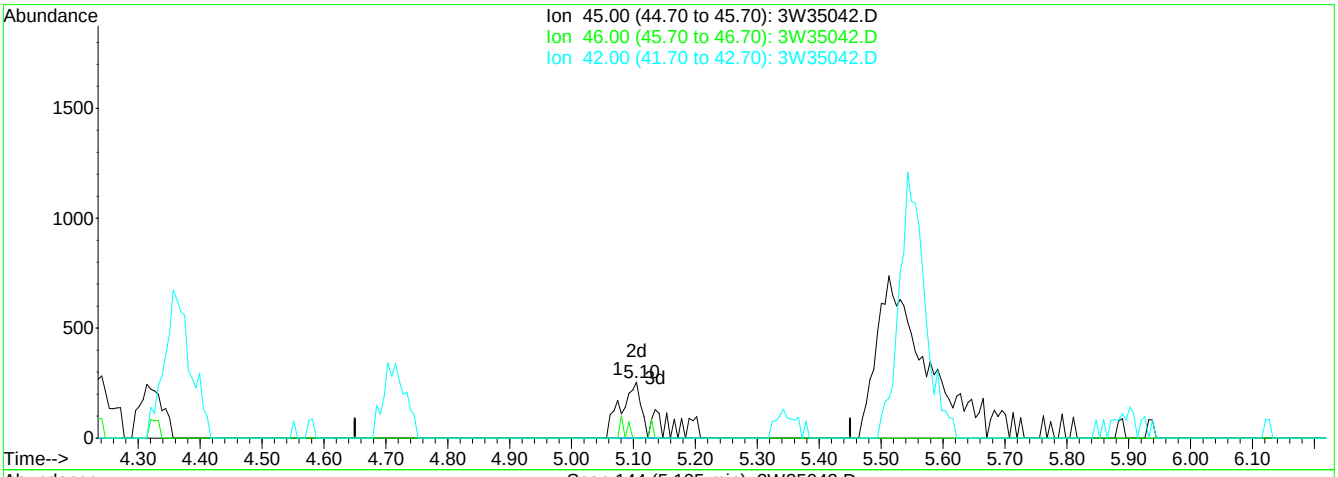
Sample Number:	V3W1350-IC1350	**Method:**	TO-15
Lab FileID:	3W35042.D	**Analyst approved:**	07/24/13 08:58 Dana Tryon
Injection Time:	07/23/13 12:23	**Supervisor approved:**	07/25/13 11:35 Jessica Reitan-Chu

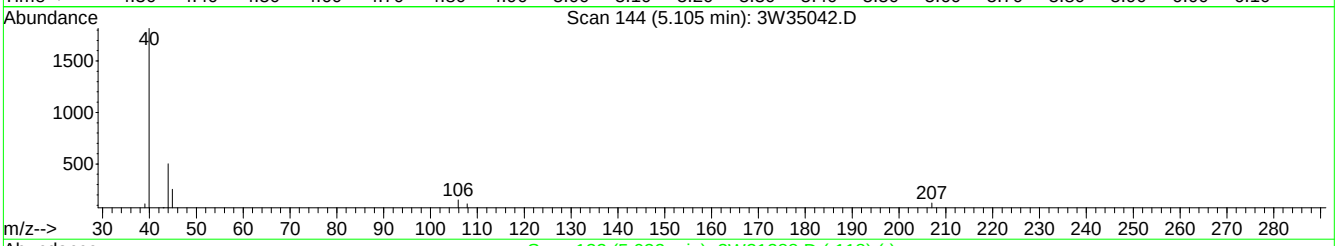
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		5.10	Missed peak
Ethyl Acetate	141-78-6		7.42	Missed peak
1,4-Dioxane	123-91-1		9.80	Missed peak
Methyl Isobutyl Ketone	108-10-1		10.46	Missed peak
2-Hexanone	591-78-6		11.64	Missed peak

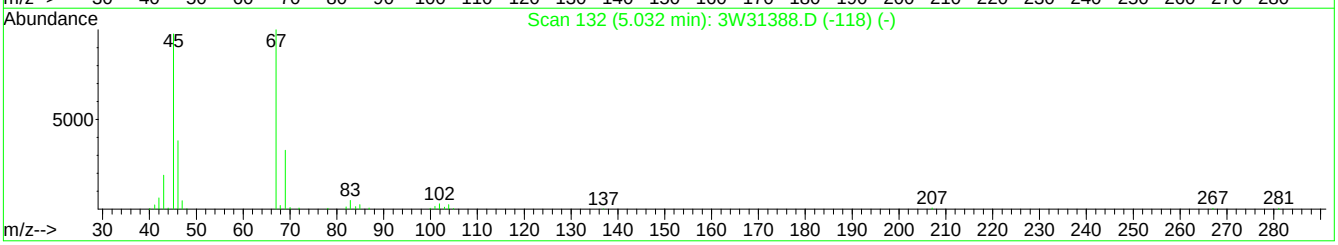
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35042.D

(26) ETHANOL

5.10min 0.16PPBV m

response 898

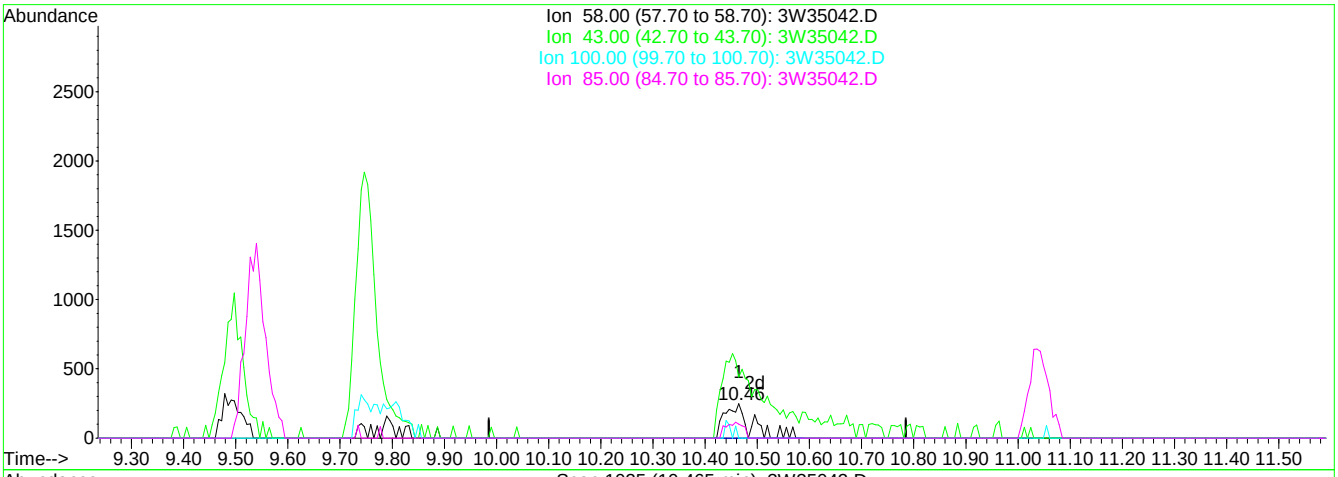
Ion	Exp%	Act%
45.00	100	100
46.00	35.30	0.00#
42.00	4.90	0.00
0.00	0.00	0.00

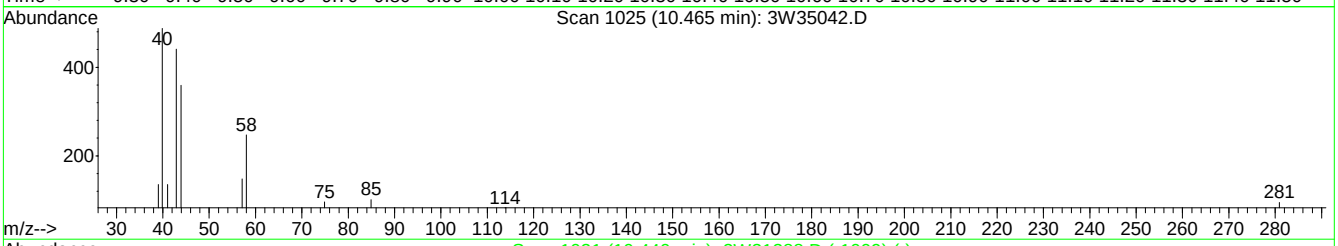
3W35042.D M3W1350.M Wed Jul 24 08:42:00 2013 MS3W

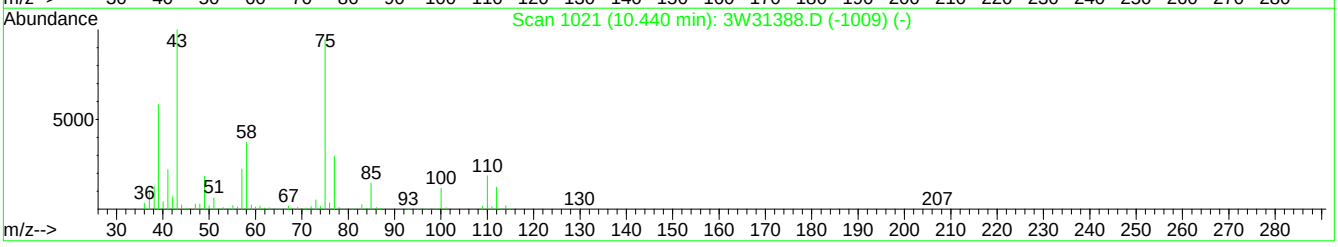
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35042.D

(63) METHYL ISOBUTYL KETONE

10.46min 0.09PPBV m

response 873

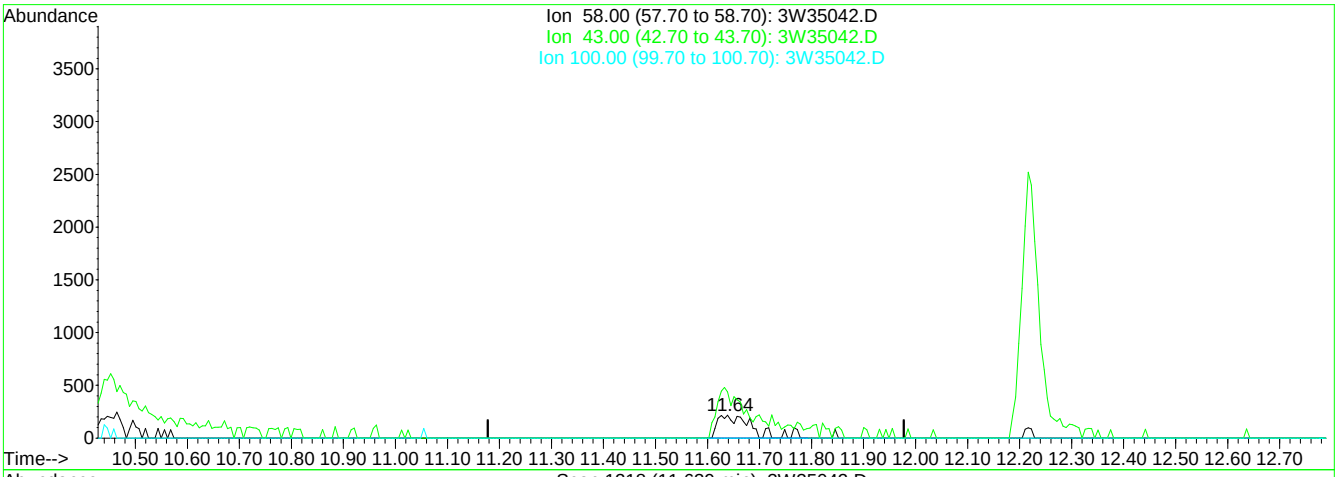
Ion	Exp%	Act%
58.00	100	100
43.00	239.30	452.81#
100.00	35.00	0.00#
85.00	44.80	31.04

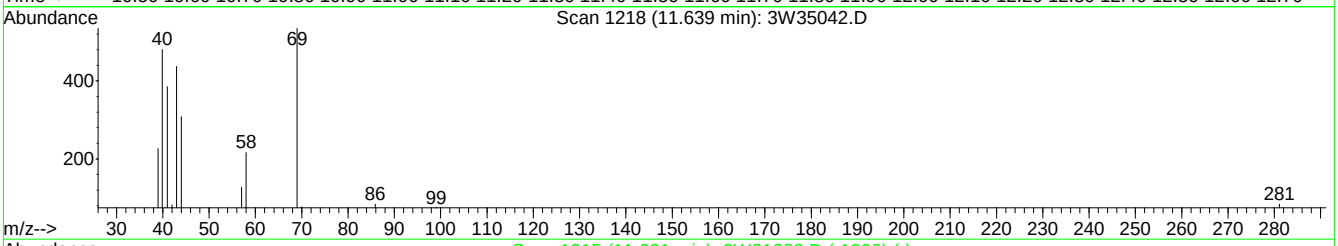
3W35042.D M3W1350.M Wed Jul 24 08:42:46 2013 MS3W

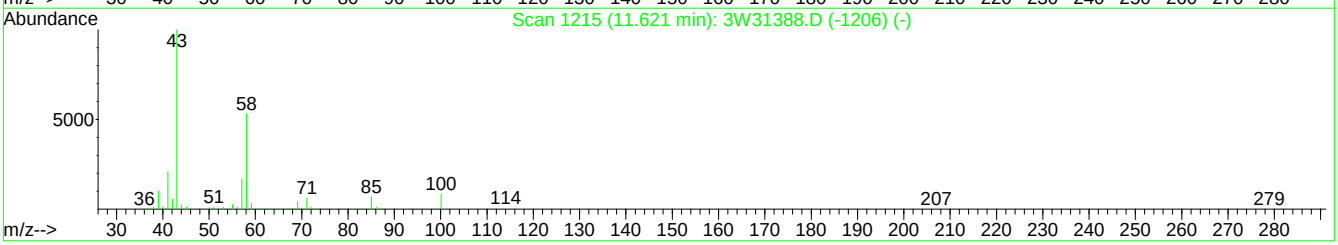
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35042.D

(69) 2-HEXANONE

11.64min 0.09PPBV m

response 981

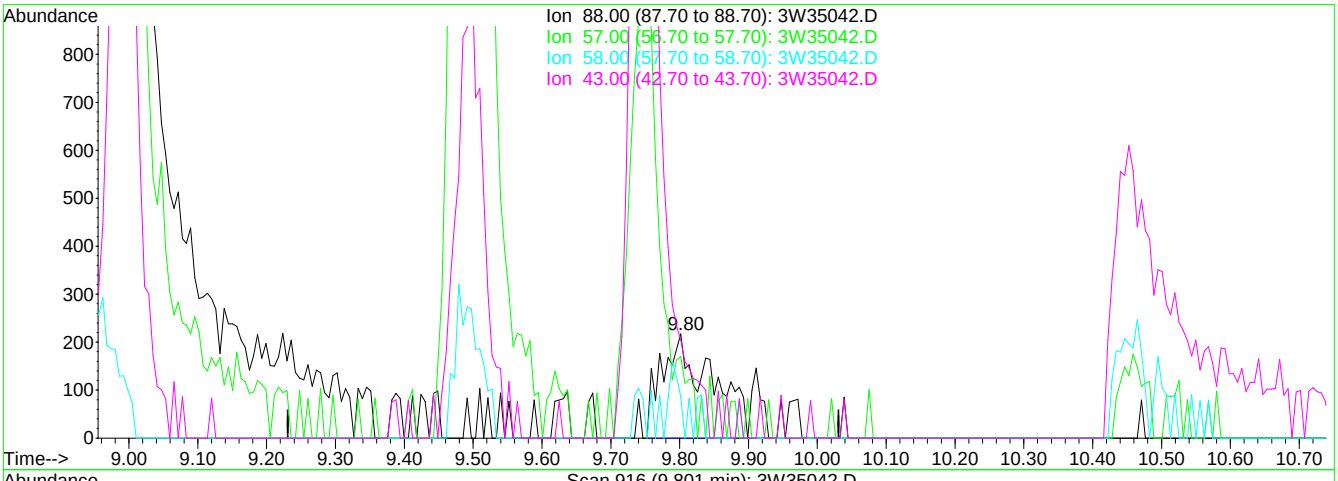
Ion	Exp%	Act%
58.00	100	100
43.00	171.50	258.00#
100.00	19.80	0.00
0.00	0.00	0.00

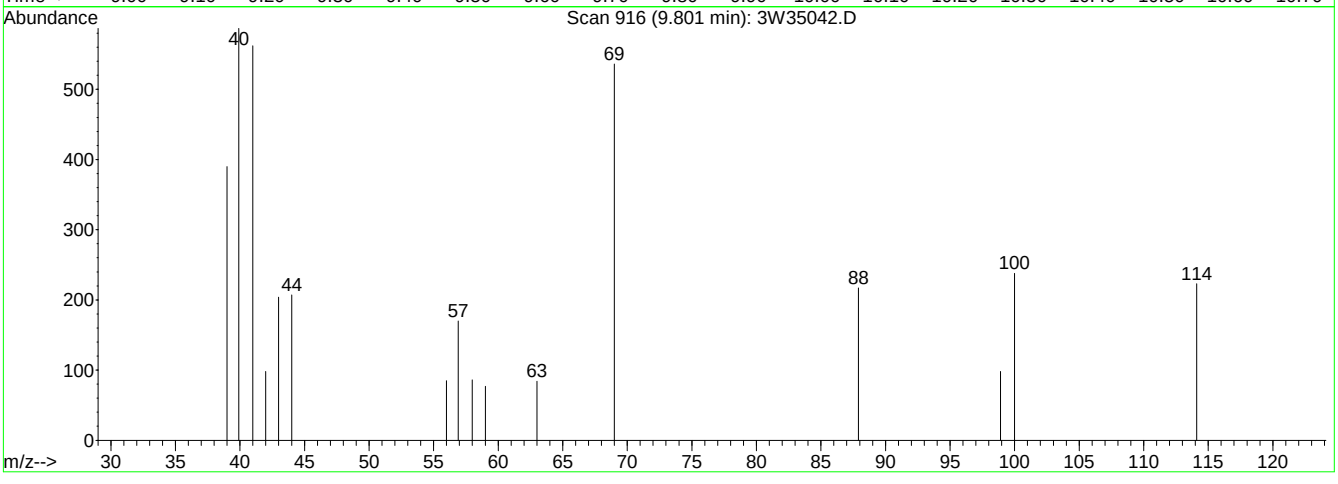
3W35042.D M3W1350.M Wed Jul 24 08:43:03 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35042.D

(59) 1,4-DIOXANE

9.80min 0.17PPBV m

response 1244

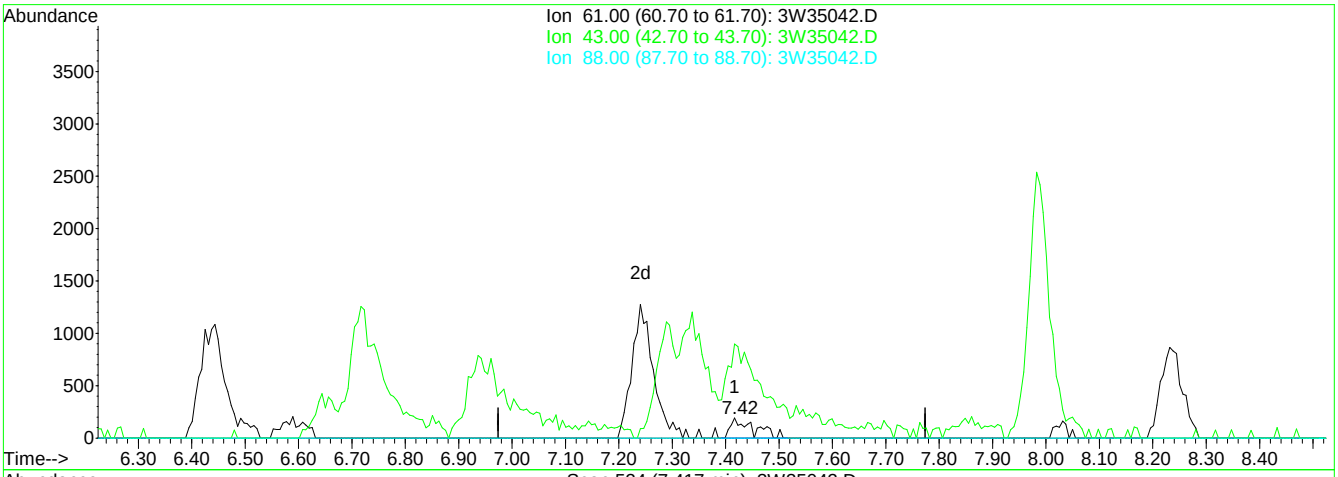
Ion	Exp%	Act%
88.00	100	100
57.00	24.60	78.34#
58.00	62.80	39.63#
43.00	26.40	94.01#

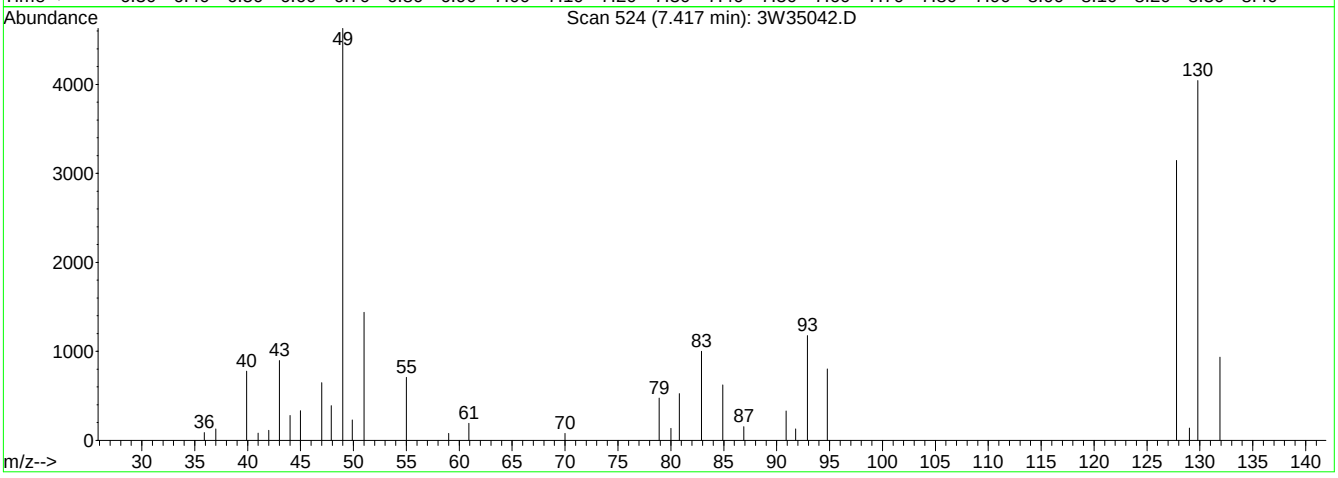
3W35042.D M3W1350.M Thu Jul 25 10:35:46 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Single Level Calibration





TIC: 3W35042.D

(42) ETHYL ACETATE

7.42min 0.13PPBV m

response 585

Ion	Exp%	Act%
61.00	100	100
43.00	592.50	991.45#
88.00	24.70	0.00#
0.00	0.00	0.00

3W35042.D M3W1350.M Thu Jul 25 10:37:16 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35043.D Vial: 1
Acq On : 23 Jul 2013 1:03 pm Operator: YOUMINH
Sample : IC1350-30 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:49:04 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.38	128	109141	10.00	PPBV	0.02
49) 1,4-DIFLUOROBENZENE	8.97	114	508144	10.00	PPBV	0.01
68) CHLOROBENZENE-D5	13.12	82	275918	10.00	PPBV	0.02
105) CHLOROBENZENE-D5 (a)	13.12	82	275918	10.00	PPBV	0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.75	95	315806	9.82	PPBV	0.02

Spiked Amount 10.000 Range 65 - 128 Recovery = 98.20%

Target Compounds						Qvalue
3) FREON 152A	4.32	65	293341	29.51	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	108615	28.82	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.41	85	1092395	27.07	PPBV	99
6) PROPYLENE	4.36	41	338920	26.13	PPBV	99
7) FREON 114	4.55	85	1192459	28.10	PPBV	97
8) CHLOROMETHANE	4.50	50	521876	27.96	PPBV	99
9) VINYL CHLORIDE	4.62	62	522526	28.99	PPBV	99
10) 1,3-BUTADIENE	4.69	54	380125	29.50	PPBV	96
11) n-BUTANE	4.72	43	685117	26.77	PPBV	99
12) BROMOMETHANE	4.86	94	491812	29.58	PPBV	100
13) CHLOROETHANE	4.95	64	271964	29.29	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	1013498	28.80	PPBV	99
15) ACETONITRILE	5.18	41	318654	33.20	PPBV	98
16) FREON 123	5.21	83	1103830	28.66	PPBV	98
17) FREON 123A	5.25	117	675485	29.88	PPBV	94
18) TRICHLOROFLUOROMETHANE	5.38	101	1105977	28.70	PPBV	99
19) ISOPROPYL ALCOHOL	5.48	45	776568	33.44	PPBV	100
20) ACETONE	5.29	58	214350	34.52	PPBV	98
21) PENTANE	5.56	42	445995	27.77	PPBV	99
23) IODOMETHANE	5.73	142	1320118	29.98	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	478188	30.60	PPBV	96
25) CARBON DISULFIDE	6.05	76	1273045	28.07	PPBV	100
26) ETHANOL	5.06	45	199032	36.67	PPBV	98
27) BROMOETHENE	5.15	106	518591	30.28	PPBV	100
28) ACRYLONITRILE	5.59	52	282317	38.95	PPBV	97
29) METHYLENE CHLORIDE	5.86	84	413308	27.56	PPBV	87
30) 3-CHLOROPROPENE	5.91	76	215678	31.11	PPBV	96
31) FREON 113	5.99	151	816510	30.09	PPBV	97
32) TRANS-1,2-DICHLOROETHYLENE	6.45	96	491664	32.74	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.83	59	972684	32.99	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.61	73	1270225	33.12	PPBV	99
35) TETRAHYDROFURAN	7.77	72	239777	37.75	PPBV	96
36) HEXANE	7.29	57	708429	29.23	PPBV	97
37) VINYL ACETATE	6.71	86	113817	40.17	PPBV #	92
38) 1,1-DICHLOROETHANE	6.61	63	860108	29.19	PPBV	99
39) METHYL ETHYL KETONE	6.89	72	244005	40.73	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.26	96	530655	31.57	PPBV	99
41) DIISOPROPYL ETHER	7.32	45	1571295	32.06	PPBV	99
42) ETHYL ACETATE	7.39	61	165308	36.63	PPBV #	93
43) METHYL ACRYLATE	7.40	55	790041	38.32	PPBV	97
44) CHLOROFORM	7.47	83	969709	31.04	PPBV	100
45) 2,4-DIMETHYLPENTANE	8.00	57	901940	29.60	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	959033	30.29	PPBV	99
47) CARBON TETRACHLORIDE	8.78	117	980096	30.29	PPBV	99
48) 1,2-DICHLOROETHANE	8.05	62	569365	33.51	PPBV	100
50) BENZENE	8.66	78	1525296	30.13	PPBV	99
51) CYCLOHEXANE	8.82	84	796146	28.99	PPBV	98
52) 2,3-DIMETHYLPENTANE	9.00	71	342241	28.80	PPBV	92

(#) = qualifier out of range (m) = manual integration
3W35043.D M3W1350.M Thu Jul 25 10:25:16 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35043.D Vial: 1
Acq On : 23 Jul 2013 1:03 pm Operator: YOUMINH
Sample : IC1350-30 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:49:04 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

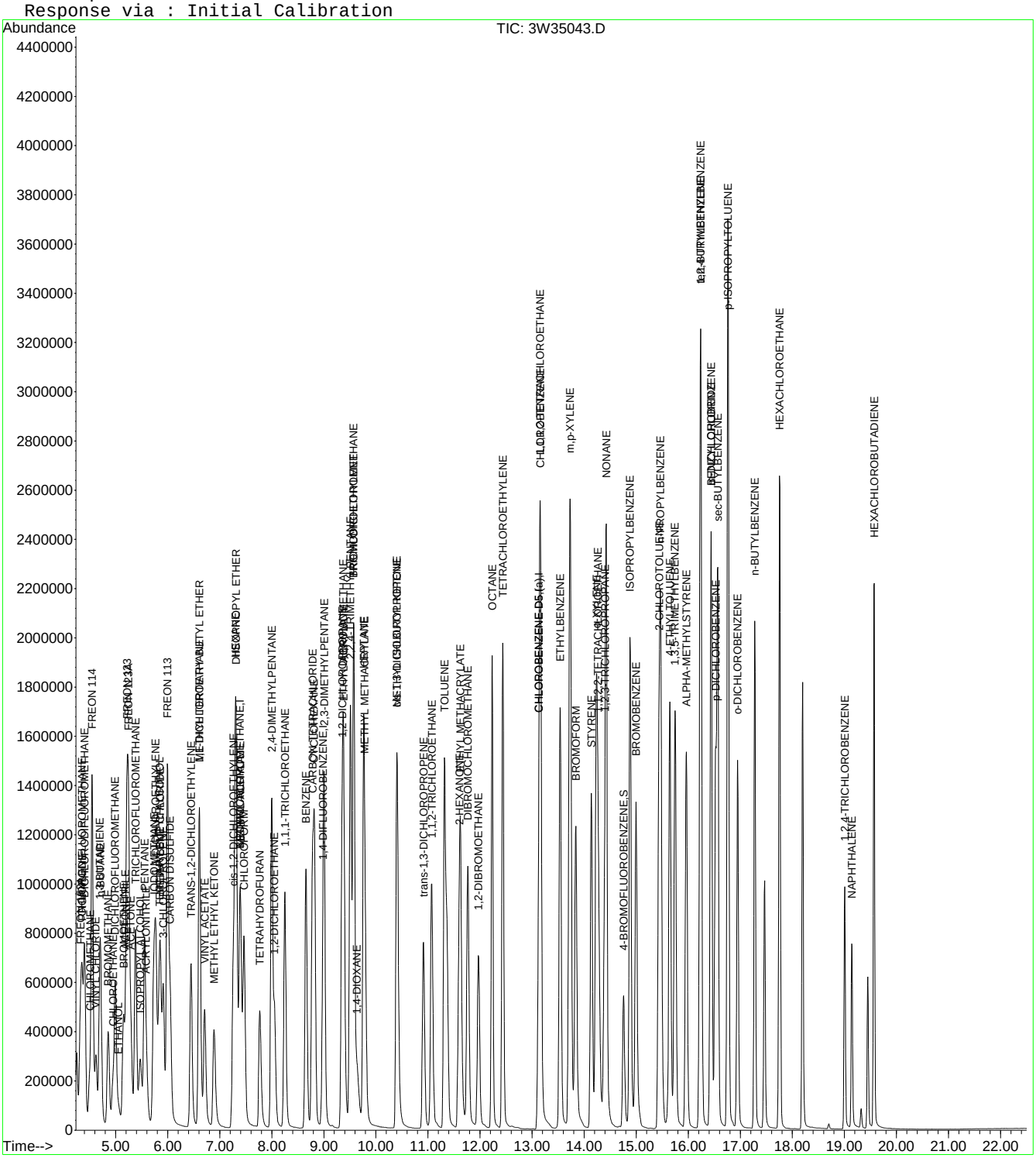
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.58	95	624683	30.45	PPBV		98
54)	1,2-DICHLOROPROPANE	9.35	63	565137	32.02	PPBV		99
55)	DIBROMOMETHANE	9.38	174	649085	32.68	PPBV		99
56)	ETHYL ACRYLATE	9.39	55	1011364	36.83	PPBV		99
57)	BROMODICHLOROMETHANE	9.56	83	1031438	30.11	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.51	57	2241946	27.16	PPBV		99
59)	1,4-DIOXANE	9.64	88	359056	44.98	PPBV		99
60)	HEPTANE	9.76	43	844942	28.63	PPBV		98
62)	METHYL METHACRYLATE	9.79	69	534110	37.58	PPBV		92
63)	METHYL ISOBUTYL KETONE	10.41	58	433232	42.14	PPBV		98
64)	cis-1,3-DICHLOROPROPENE	10.40	75	813966	33.28	PPBV		99
65)	TOLUENE	11.32	92	1073280	32.67	PPBV		97
66)	trans-1,3-DICHLOROPROPENE	10.91	75	794838	36.50	PPBV		100
67)	1,1,2-TRICHLOROETHANE	11.07	83	532274	33.12	PPBV		98
69)	2-HEXANONE	11.60	58	591472	42.95	PPBV		97
70)	ETHYL METHACRYLATE	11.63	69	886255	38.76	PPBV		97
71)	TETRACHLOROETHYLENE	12.44	164	731044	27.83	PPBV		99
72)	DIBROMOCHLOROMETHANE	11.77	129	1080995	29.03	PPBV		99
73)	1,2-DIBROMOETHANE	11.97	107	910976	31.46	PPBV		100
74)	OCTANE	12.23	43	1126249	26.68	PPBV		97
75)	1,1,1,2-TETRACHLOROETHANE	13.15	131	775206	29.26	PPBV		100
76)	CHLOROBENZENE	13.17	112	1296160	29.28	PPBV		99
77)	ETHYLBENZENE	13.54	91	2122861	29.82	PPBV		98
78)	m,p-XYLENE	13.73	106	1670207	61.25	PPBV		94
79)	o-XYLENE	14.24	106	828797	30.83	PPBV		96
80)	STYRENE	14.14	104	1309287	34.94	PPBV		99
81)	NONANE	14.42	43	1097732	27.18	PPBV		97
82)	BROMOFORM	13.84	173	1085905	31.30	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.27	83	1177908	30.56	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.39	75	852945	31.13	PPBV		98
86)	ISOPROPYLBENZENE	14.88	105	2313471	30.09	PPBV		98
87)	BROMOBENZENE	15.00	77	1006159	30.90	PPBV		98
88)	2-CHLOROTOLUENE	15.43	126	575967	32.20	PPBV		100
89)	n-PROPYLBENZENE	15.47	120	614578	32.71	PPBV		99
90)	4-ETHYLTOLUENE	15.65	105	2065561	33.69	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.75	105	1742649	31.11	PPBV		97
92)	ALPHA-METHYLSTYRENE	15.96	118	872458	36.81	PPBV		99
93)	tert-BUTYLBENZENE	16.23	134	419219	32.73	PPBV	#	92
94)	1,2,4-TRIMETHYLBENZENE	16.24	105	1587032	31.62	PPBV		98
95)	m-DICHLOROBENZENE	16.43	146	1057298	35.28	PPBV		99
96)	BENZYL CHLORIDE	16.44	91	1254164	39.28	PPBV		99
97)	p-DICHLOROBENZENE	16.52	146	1037242	34.06	PPBV		99
98)	sec-BUTYLBENZENE	16.57	134	500331	34.31	PPBV	#	88
99)	p-ISOPROPYLTOLUENE	16.76	134	528014	35.57	PPBV	#	87
100)	o-DICHLOROBENZENE	16.95	146	970655	33.20	PPBV		99
101)	n-BUTYLBENZENE	17.28	134	437272	38.87	PPBV		91
102)	HEXACHLOROETHANE	17.75	117	708608	30.57	PPBV		98
103)	HEXACHLOROBUTADIENE	19.57	225	536528	35.17	PPBV		100
104)	1,2,4-TRICHLOROBENZENE	19.01	180	419995	47.39	PPBV		99
106)	NAPHTHALENE	19.15	128	768644	51.34	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35043.D M3W1350.M Thu Jul 25 10:25:16 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35043.D Vial: 1
Acq On : 23 Jul 2013 1:03 pm Operator: YOUMINH
Sample : IC1350-30 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:25 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50276

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35044.D Vial: 1
Acq On : 23 Jul 2013 1:43 pm Operator: YOUMINH
Sample : IC1350-20 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:07:15 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:06:57 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	114945	10.00	PPBV	0.01
49) 1,4-DIFLUOROBENZENE	8.97	114	542685	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.11	82	276531	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.11	82	276256	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.75	95	319699	10.09	PPBV	0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.90%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	208628	20.05	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	75473	19.49	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.41	85	774897	18.41	PPBV	98
6) PROPYLENE	4.36	41	251432	18.59	PPBV	100
7) FREON 114	4.55	85	828113	18.59	PPBV	98
8) CHLOROMETHANE	4.50	50	361042	18.31	PPBV	98
9) VINYL CHLORIDE	4.62	62	356697	18.92	PPBV	98
10) 1,3-BUTADIENE	4.69	54	265881	19.74	PPBV	98
11) n-BUTANE	4.72	43	510284	18.94	PPBV	100
12) BROMOMETHANE	4.86	94	338154	19.41	PPBV	100
13) CHLOROETHANE	4.94	64	193318	20.19	PPBV	97
14) DICHLOROFLUOROMETHANE	4.99	67	729323	19.90	PPBV	100
15) ACETONITRILE	5.18	41	233599	24.17	PPBV	99
16) FREON 123	5.21	83	796841	19.92	PPBV	99
17) FREON 123A	5.24	117	476376	20.06	PPBV	94
18) TRICHLOROFLUOROMETHANE	5.38	101	777206	19.23	PPBV	99
19) ISOPROPYL ALCOHOL	5.46	45	562213	23.11	PPBV	100
20) ACETONE	5.29	58	151778	23.65	PPBV	99
21) PENTANE	5.56	42	328384	19.38	PPBV	99
23) IODOMETHANE	5.73	142	914038	19.83	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	329223	20.36	PPBV	100
25) CARBON DISULFIDE	6.04	76	886307	18.77	PPBV	99
26) ETHANOL	5.04	45	144818	25.15	PPBV	99
27) BROMOETHENE	5.15	106	351989	19.73	PPBV	100
28) ACRYLONITRILE	5.59	52	205841	27.88	PPBV	98
29) METHYLENE CHLORIDE	5.86	84	284424	16.77	PPBV	93
30) 3-CHLOROPROPENE	5.91	76	151784	21.43	PPBV	96
31) FREON 113	5.99	151	561380	19.79	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	333139	21.44	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.82	59	678965	22.16	PPBV	95
34) METHYL TERTIARY BUTYL ETHE	6.61	73	902886	22.48	PPBV	100
35) TETRAHYDROFURAN	7.77	72	164022	25.47	PPBV	98
36) HEXANE	7.30	57	491326	19.76	PPBV	97
37) VINYL ACETATE	6.71	86	75508	27.23	PPBV	99
38) 1,1-DICHLOROETHANE	6.60	63	603114	19.77	PPBV	98
39) METHYL ETHYL KETONE	6.89	72	169303	27.02	PPBV	100
40) cis-1,2-DICHLOROETHYLENE	7.26	96	361615	20.87	PPBV	98
41) DIISOPROPYL ETHER	7.31	45	1165918	22.93	PPBV	93
42) ETHYL ACETATE	7.39	61	115742	25.06	PPBV	97
43) METHYL ACRYLATE	7.40	55	566850	26.60	PPBV	98
44) CHLOROFORM	7.46	83	670213	20.52	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.99	57	662635	20.97	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	672396	20.31	PPBV	100
47) CARBON TETRACHLORIDE	8.78	117	680716	19.98	PPBV	100
48) 1,2-DICHLOROETHANE	8.05	62	390492	22.00	PPBV	99
50) BENZENE	8.65	78	1061840	19.60	PPBV	100
51) CYCLOHEXANE	8.82	84	557005	19.02	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.00	71	246852	18.64	PPBV	92

(#) = qualifier out of range (m) = manual integration
3W35044.D M3W1350.M Thu Jul 25 10:25:51 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35044.D Vial: 1
Acq On : 23 Jul 2013 1:43 pm Operator: YOUMINH
Sample : IC1350-20 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:07:15 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:06:57 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

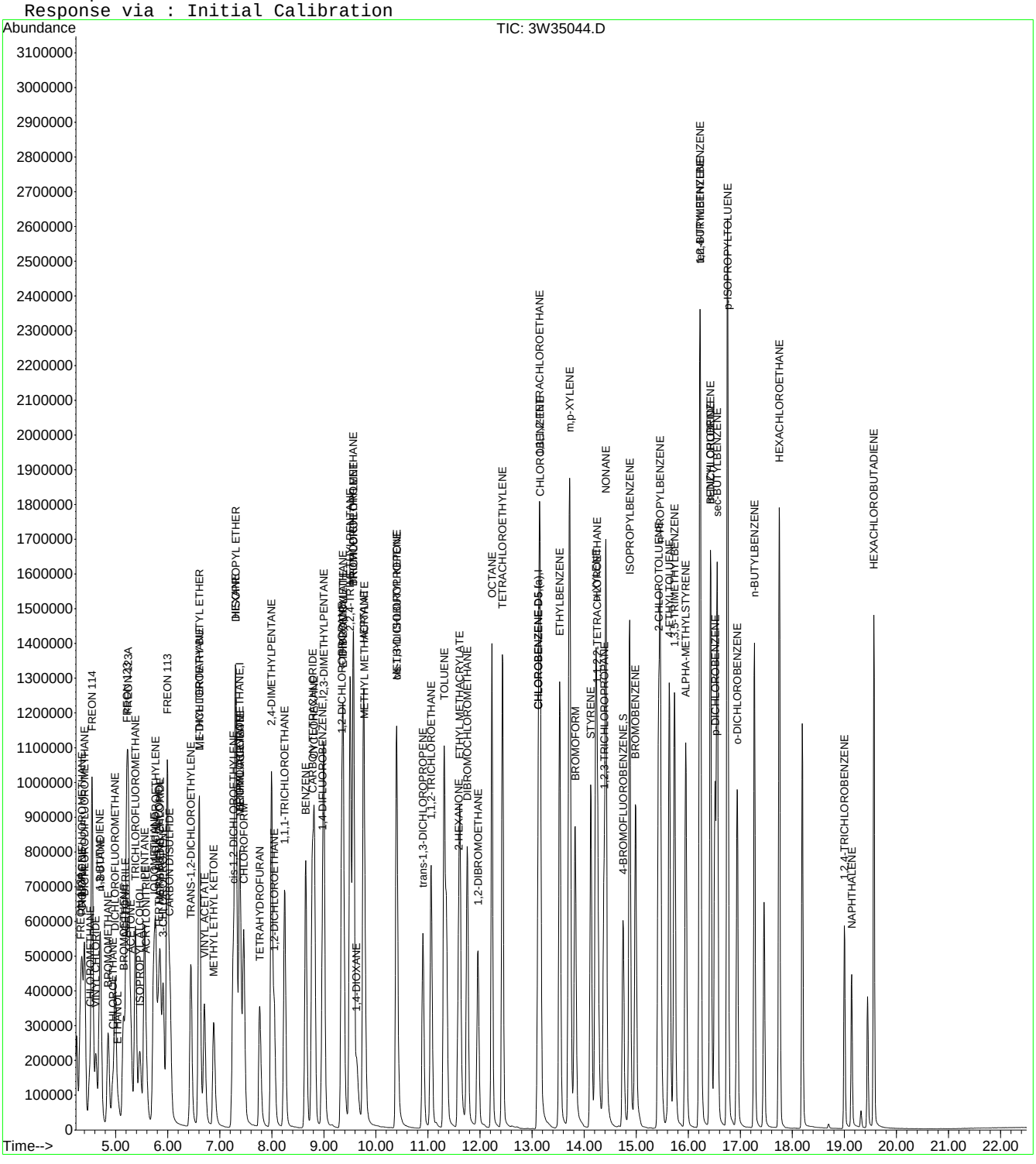
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.57	95	414539	18.83	PPBV	98
54)	1,2-DICHLOROPROPANE	9.34	63	400032	19.76	PPBV	99
55)	DIBROMOMETHANE	9.36	174	432287	20.19	PPBV	99
56)	ETHYL ACRYLATE	9.38	55	718143	24.27	PPBV	99
57)	BROMODICHLOROMETHANE	9.56	83	711647	19.63	PPBV	98
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	1664598	19.27	PPBV	100
59)	1,4-DIOXANE	9.63	88	244095	26.81	PPBV	97
60)	HEPTANE	9.76	43	610640	19.63	PPBV	100
62)	METHYL METHACRYLATE	9.78	69	373287	24.55	PPBV	94
63)	METHYL ISOBUTYL KETONE	10.40	58	294730	27.60	PPBV	99
64)	cis-1,3-DICHLOROPROPENE	10.40	75	550348	21.18	PPBV	99
65)	TOLUENE	11.31	92	728152	20.94	PPBV	98
66)	trans-1,3-DICHLOROPROPENE	10.90	75	516174	22.29	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.06	83	362597	21.22	PPBV	99
69)	2-HEXANONE	11.58	58	399494	29.56	PPBV	99
70)	ETHYL METHACRYLATE	11.61	69	608999	26.92	PPBV	99
71)	TETRACHLOROETHYLENE	12.43	164	487978	18.82	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.75	129	721653	19.69	PPBV	99
73)	1,2-DIBROMOETHANE	11.96	107	584376	20.41	PPBV	99
74)	OCTANE	12.23	43	810858	19.88	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.14	131	530167	20.10	PPBV	100
76)	CHLOROBENZENE	13.16	112	851138	19.53	PPBV	100
77)	ETHYLBENZENE	13.53	91	1456572	20.91	PPBV	99
78)	m,p-XYLENE	13.72	106	1103021	41.08	PPBV	98
79)	o-XYLENE	14.22	106	548100	20.91	PPBV	98
80)	STYRENE	14.13	104	801324	21.72	PPBV	94
81)	NONANE	14.42	43	785193	20.53	PPBV	99
82)	BROMOFORM	13.83	173	700619	20.47	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.25	83	771866	20.11	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.38	75	581278	21.51	PPBV	99
86)	ISOPROPYLBENZENE	14.88	105	1559181	20.61	PPBV	99
87)	BROMOBENZENE	14.98	77	676135	21.23	PPBV	99
88)	2-CHLOROTOLUENE	15.43	126	378018	21.43	PPBV	100
89)	n-PROPYLBENZENE	15.47	120	407044	22.44	PPBV	99
90)	4-ETHYLTOLUENE	15.64	105	1369970	22.79	PPBV	99
91)	1,3,5-TRIMETHYLBENZENE	15.74	105	1149274	20.66	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.95	118	562088	24.43	PPBV	100
93)	tert-BUTYLBENZENE	16.22	134	277263	21.83	PPBV	96
94)	1,2,4-TRIMETHYLBENZENE	16.23	105	1064737	21.80	PPBV	99
95)	m-DICHLOROBENZENE	16.43	146	684634	22.80	PPBV	100
96)	BENZYL CHLORIDE	16.43	91	813294	24.58	PPBV	100
97)	p-DICHLOROBENZENE	16.51	146	641789	21.05	PPBV	99
98)	sec-BUTYLBENZENE	16.55	134	324099	22.24	PPBV	95
99)	p-ISOPROPYLTOLUENE	16.76	134	339700	23.25	PPBV	95
100)	o-DICHLOROBENZENE	16.94	146	624974	21.38	PPBV	99
101)	n-BUTYLBENZENE	17.27	134	279348	25.00	PPBV	97
102)	HEXACHLOROETHANE	17.75	117	469370	20.14	PPBV	100
103)	HEXACHLOROBUTADIENE	19.57	225	346316	22.83	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.00	180	250486	26.09	PPBV	99
106)	NAPHTHALENE	19.14	128	443396	27.27	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35044.D M3W1350.M Thu Jul 25 10:25:51 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35044.D
Vial: 1
Acq On : 23 Jul 2013 1:43 pm
Operator: YOUMINH
Sample : IC1350-20
Inst : MS3W
Misc : MS51919,V3W1350,,,,,1
Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:25 2013
Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35045.D Vial: 1
Acq On : 23 Jul 2013 2:22 pm Operator: YOUMINH
Sample : IC1350-15 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:48:27 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:08:01 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	116094	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.97	114	544592	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.11	82	277708	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.11	82	277708	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.74	95	326862	10.26	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 102.60%

Target Compounds						Qvalue
3) FREON 152A	4.32	65	163983	15.60	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	58178	14.94	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.41	85	608750	14.51	PPBV	98
6) PROPYLENE	4.36	41	201189	14.90	PPBV	100
7) FREON 114	4.55	85	640120	14.40	PPBV	99
8) CHLOROMETHANE	4.50	50	282036	14.37	PPBV	99
9) VINYL CHLORIDE	4.62	62	279912	14.84	PPBV	99
10) 1,3-BUTADIENE	4.69	54	204189	15.04	PPBV	99
11) n-BUTANE	4.72	43	401725	14.89	PPBV	100
12) BROMOMETHANE	4.86	94	259700	14.83	PPBV	100
13) CHLOROETHANE	4.94	64	147567	15.23	PPBV	97
14) DICHLOROFLUOROMETHANE	5.00	67	566935	15.33	PPBV	100
15) ACETONITRILE	5.17	41	178912	17.71	PPBV	98
16) FREON 123	5.21	83	616802	15.28	PPBV	99
17) FREON 123A	5.24	117	358681	14.95	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.38	101	597709	14.74	PPBV	100
19) ISOPROPYL ALCOHOL	5.46	45	421179	16.71	PPBV	100
20) ACETONE	5.29	58	114438	17.14	PPBV	97
21) PENTANE	5.56	42	255643	15.02	PPBV	99
23) IODOMETHANE	5.73	142	700241	15.06	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	250868	15.31	PPBV	98
25) CARBON DISULFIDE	6.04	76	688877	14.60	PPBV	99
26) ETHANOL	5.05	45	110332	18.19	PPBV	99
27) BROMOETHENE	5.15	106	268259	14.92	PPBV	99
28) ACRYLONITRILE	5.59	52	154059	19.39	PPBV	96
29) METHYLENE CHLORIDE	5.85	84	218894	13.13	PPBV	94
30) 3-CHLOROPROPENE	5.91	76	116774	16.13	PPBV	95
31) FREON 113	5.99	151	427186	14.94	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	251249	15.82	PPBV	95
33) TERTIARY BUTYL ALCOHOL	5.82	59	518055	16.45	PPBV	95
34) METHYL TERTIARY BUTYL ETHE	6.61	73	690937	16.69	PPBV	100
35) TETRAHYDROFURAN	7.77	72	123560	18.17	PPBV	97
36) HEXANE	7.30	57	382116	15.25	PPBV	98
37) VINYL ACETATE	6.71	86	55800	18.79	PPBV	97
38) 1,1-DICHLOROETHANE	6.60	63	472017	15.35	PPBV	99
39) METHYL ETHYL KETONE	6.88	72	126797	18.93	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	7.25	96	271312	15.39	PPBV	96
41) DIISOPROPYL ETHER	7.31	45	899927	17.10	PPBV	93
42) ETHYL ACETATE	7.38	61	86444	17.78	PPBV	96
43) METHYL ACRYLATE	7.39	55	423694	18.66	PPBV	96
44) CHLOROFORM	7.46	83	513148	15.49	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.99	57	518759	16.12	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.24	97	519043	15.48	PPBV	99
47) CARBON TETRACHLORIDE	8.77	117	520994	15.15	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	295495	16.21	PPBV	99
50) BENZENE	8.65	78	809708	14.94	PPBV	100
51) CYCLOHEXANE	8.82	84	425109	14.59	PPBV	98
52) 2,3-DIMETHYLPENTANE	9.00	71	186579	14.20	PPBV	98

(#) = qualifier out of range (m) = manual integration
3W35045.D M3W1350.M Thu Jul 25 10:26:11 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35045.D Vial: 1
Acq On : 23 Jul 2013 2:22 pm Operator: YOUMINH
Sample : IC1350-15 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:48:27 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:08:01 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

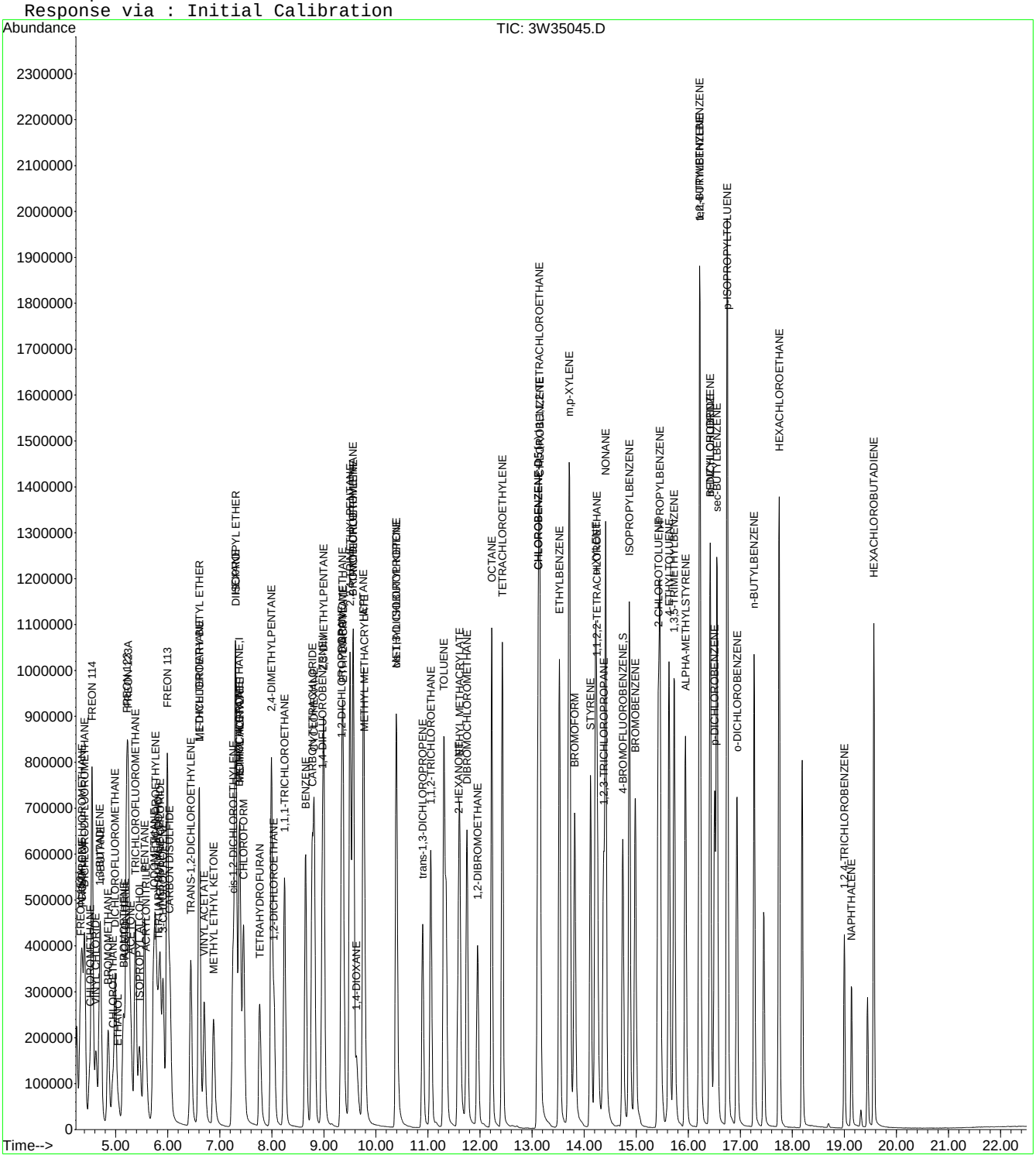
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.57	95	312399	14.28	PPBV	99
54)	1,2-DICHLOROPROPANE	9.33	63	303030	14.95	PPBV	100
55)	DIBROMOMETHANE	9.36	174	324247	15.07	PPBV	99
56)	ETHYL ACRYLATE	9.38	55	545090	17.73	PPBV	100
57)	BROMODICHLOROMETHANE	9.55	83	544677	15.02	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	1294609	15.03	PPBV	100
59)	1,4-DIOXANE	9.63	88	178084	18.45	PPBV	96
60)	HEPTANE	9.75	43	477304	15.34	PPBV	99
62)	METHYL METHACRYLATE	9.78	69	283963	17.93	PPBV	95
63)	METHYL ISOBUTYL KETONE	10.39	58	215952	18.95	PPBV	98
64)	cis-1,3-DICHLOROPROPENE	10.39	75	416496	15.81	PPBV	98
65)	TOLUENE	11.30	92	554638	15.77	PPBV	98
66)	trans-1,3-DICHLOROPROPENE	10.90	75	385810	16.29	PPBV	98
67)	1,1,2-TRICHLOROETHANE	11.05	83	275572	15.91	PPBV	99
69)	2-HEXANONE	11.58	58	292899	19.99	PPBV	99
70)	ETHYL METHACRYLATE	11.61	69	453560	18.87	PPBV	100
71)	TETRACHLOROETHYLENE	12.43	164	368408	14.29	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.75	129	548138	14.93	PPBV	99
73)	1,2-DIBROMOETHANE	11.95	107	437208	15.15	PPBV	100
74)	OCTANE	12.22	43	636534	15.56	PPBV	99
75)	1,1,1,2-TETRACHLOROETHANE	13.14	131	402187	15.17	PPBV	100
76)	CHLOROBENZENE	13.15	112	641229	14.71	PPBV	99
77)	ETHYLBENZENE	13.52	91	1109722	15.74	PPBV	99
78)	m,p-XYLENE	13.71	106	839710	31.00	PPBV	98
79)	o-XYLENE	14.22	106	415233	15.65	PPBV	99
80)	STYRENE	14.12	104	601654	16.01	PPBV	94
81)	NONANE	14.41	43	620005	16.07	PPBV	100
82)	BROMOFORM	13.82	173	527599	15.29	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.25	83	590480	15.31	PPBV	99
85)	1,2,3-TRICHLOROPROPANE	14.38	75	441004	16.05	PPBV	99
86)	ISOPROPYLBENZENE	14.87	105	1191516	15.61	PPBV	99
87)	BROMOBENZENE	14.98	77	508341	15.73	PPBV	99
88)	2-CHLOROTOLUENE	15.42	126	283842	15.83	PPBV	100
89)	n-PROPYLBENZENE	15.46	120	304493	16.38	PPBV	99
90)	4-ETHYLTOLUENE	15.63	105	1033569	16.73	PPBV	99
91)	1,3,5-TRIMETHYLBENZENE	15.73	105	869144	15.48	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.95	118	415288	17.33	PPBV	99
93)	tert-BUTYLBENZENE	16.21	134	207796	16.05	PPBV	98
94)	1,2,4-TRIMETHYLBENZENE	16.23	105	799843	16.07	PPBV	99
95)	m-DICHLOROBENZENE	16.42	146	504115	16.34	PPBV	100
96)	BENZYL CHLORIDE	16.43	91	595471	17.26	PPBV	100
97)	p-DICHLOROBENZENE	16.51	146	474008	15.34	PPBV	100
98)	sec-BUTYLBENZENE	16.55	134	241537	16.20	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.75	134	250946	16.65	PPBV	99
100)	o-DICHLOROBENZENE	16.94	146	461745	15.55	PPBV	100
101)	n-BUTYLBENZENE	17.27	134	202114	17.29	PPBV	98
102)	HEXACHLOROETHANE	17.75	117	350957	14.98	PPBV	100
103)	HEXACHLOROBUTADIENE	19.57	225	260643	16.72	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.00	180	179360	17.71	PPBV	99
106)	NAPHTHALENE	19.14	128	313149	18.07	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35045.D M3W1350.M Thu Jul 25 10:26:11 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35045.D Vial: 1
Acq On : 23 Jul 2013 2:22 pm Operator: YOUMINH
Sample : IC1350-15 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



3W35047.D

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
07/25/13 11:35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:29:25 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:49:02 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	106171	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	466196	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.10	82	200492	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.10	82	200492	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.73	95	214510	9.29	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 92.90%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	5195	0.54	PPBV	100
4) CHLORODIFLUOROMETHANE	4.34	67	1963	0.55	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.40	85	20735	0.54	PPBV	96
6) PROPYLENE	4.36	41	6559	0.53	PPBV	96
7) FREON 114	4.55	85	22278	0.55	PPBV	99
8) CHLOROMETHANE	4.50	50	9159	0.51	PPBV	91
9) VINYL CHLORIDE	4.62	62	9337	0.54	PPBV	99
10) 1,3-BUTADIENE	4.69	54	6257	0.50	PPBV	96
11) n-BUTANE	4.72	43	13459	0.55	PPBV #	97
12) BROMOMETHANE	4.86	94	8608	0.54	PPBV	98
13) CHLOROETHANE	4.95	64	4591	0.52	PPBV	99
14) DICHLOROFLUOROMETHANE	4.98	67	17481	0.52	PPBV	99
15) ACETONITRILE	5.20	41	3849	0.41	PPBV #	67
16) FREON 123	5.21	83	19096	0.52	PPBV	97
17) FREON 123A	5.24	117	11287	0.51	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.37	101	19808	0.54	PPBV	98
19) ISOPROPYL ALCOHOL	5.51	45	10652	0.45	PPBV #	33
20) ACETONE	5.34	58	2952	0.47	PPBV #	89
21) PENTANE	5.55	42	8537	0.55	PPBV	98
23) IODOMETHANE	5.73	142	22063	0.52	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.77	96	7986	0.53	PPBV	99
25) CARBON DISULFIDE	6.04	76	22404	0.52	PPBV	89
26) ETHANOL	5.10	45	2612	0.46	PPBV	90
27) BROMOETHENE	5.15	106	8746	0.53	PPBV	96
28) ACRYLONITRILE	5.60	52	2876m	0.38	PPBV	
29) METHYLENE CHLORIDE	5.86	84	8969	0.60	PPBV	85
30) 3-CHLOROPROPENE	5.91	76	3243	0.48	PPBV #	62
31) FREON 113	5.99	151	13657	0.52	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	7077	0.48	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.88	59	13754m	0.47	PPBV	
34) METHYL TERTIARY BUTYL ETHE	6.64	73	16977	0.44	PPBV	96
35) TETRAHYDROFURAN	7.85	72	2328	0.36	PPBV	98
36) HEXANE	7.29	57	10955	0.48	PPBV	93
37) VINYL ACETATE	6.72	86	1139m	0.40	PPBV	
38) 1,1-DICHLOROETHANE	6.60	63	14459	0.51	PPBV	98
39) METHYL ETHYL KETONE	6.92	72	2276	0.36	PPBV	91
40) cis-1,2-DICHLOROETHYLENE	7.24	96	7528	0.47	PPBV	95
41) DIISOPROPYL ETHER	7.33	45	21530	0.44	PPBV	97
42) ETHYL ACETATE	7.42	61	1940	0.43	PPBV #	1
43) METHYL ACRYLATE	7.42	55	7662	0.36	PPBV #	80
44) CHLOROFORM	7.44	83	15356	0.50	PPBV #	83
45) 2,4-DIMETHYLPENTANE	7.99	57	14536	0.49	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.24	97	15512	0.50	PPBV	99
47) CARBON TETRACHLORIDE	8.76	117	16183	0.51	PPBV	99
48) 1,2-DICHLOROETHANE	8.03	62	8022	0.48	PPBV	96
50) BENZENE	8.64	78	23081	0.50	PPBV	99
51) CYCLOHEXANE	8.80	84	12966	0.52	PPBV	100
52) 2,3-DIMETHYLPENTANE	8.99	71	5725	0.51	PPBV #	49

(#) = qualifier out of range (m) = manual integration
3W35047.D M3W1350.M Thu Jul 25 10:26:39 2013 MS3W

7.2.7

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:29:25 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:49:02 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

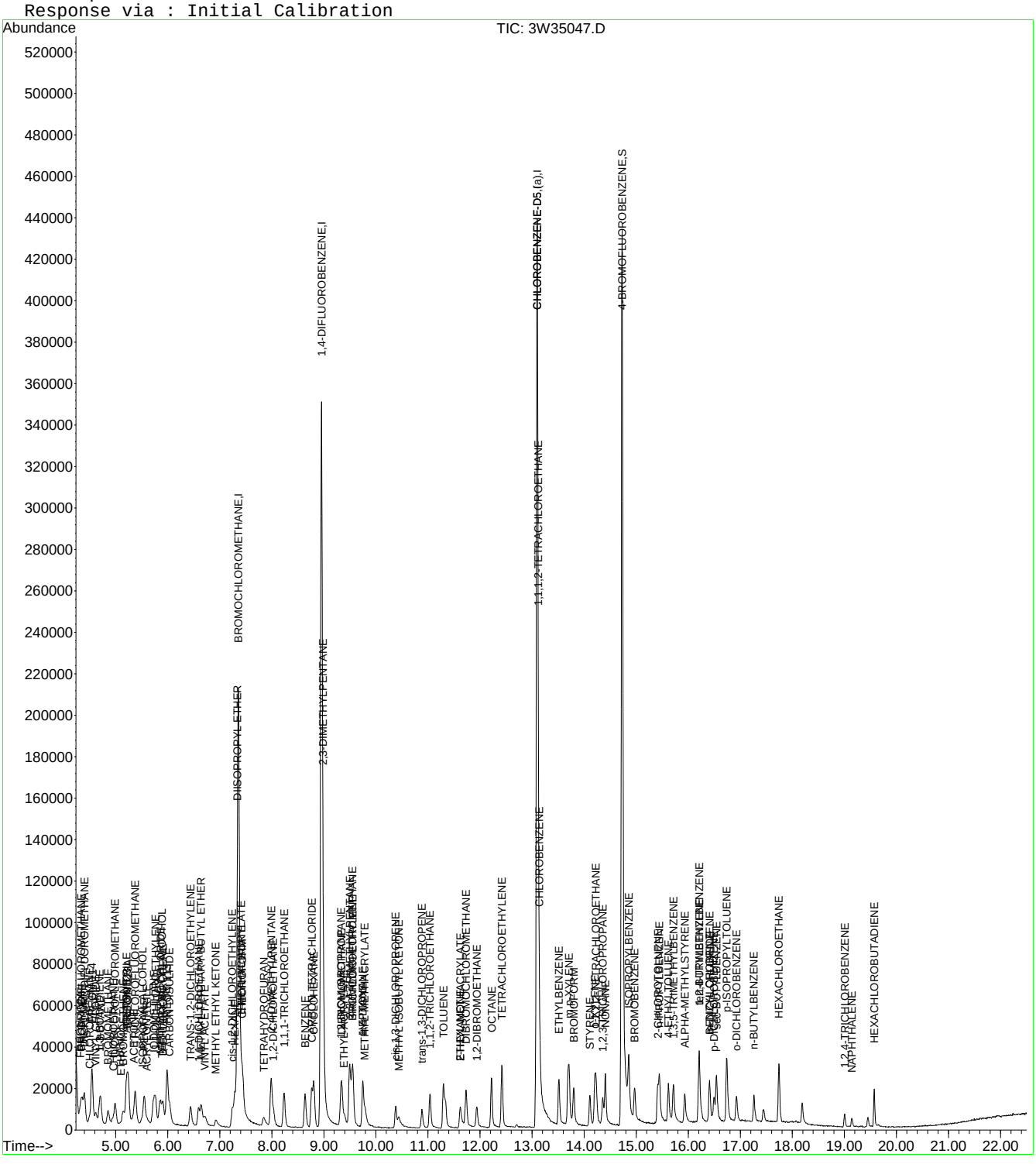
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.56	95	9594	0.52	PPBV		98
54)	1,2-DICHLOROPROPANE	9.32	63	8231	0.47	PPBV		97
55)	DIBROMOMETHANE	9.35	174	9237	0.50	PPBV		98
56)	ETHYL ACRYLATE	9.39	55	11692	0.43	PPBV	#	90
57)	BROMODICHLOROMETHANE	9.54	83	15786	0.51	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	37245	0.50	PPBV		96
59)	1,4-DIOXANE	9.75	88	3769m	0.44	PPBV		
60)	HEPTANE	9.75	43	14195	0.53	PPBV		91
62)	METHYL METHACRYLATE	9.79	69	5676	0.41	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.44	58	3837m	0.38	PPBV		
64)	cis-1,3-DICHLOROPROPENE	10.38	75	9809	0.43	PPBV		99
65)	TOLUENE	11.29	92	13626	0.45	PPBV		98
66)	trans-1,3-DICHLOROPROPENE	10.88	75	7905	0.39	PPBV		96
67)	1,1,2-TRICHLOROETHANE	11.04	83	6862	0.46	PPBV		97
69)	2-HEXANONE	11.63	58	4725m	0.43	PPBV		
70)	ETHYL METHACRYLATE	11.62	69	7919	0.44	PPBV		97
71)	TETRACHLOROETHYLENE	12.42	164	10961	0.59	PPBV		96
72)	DIBROMOCHLOROMETHANE	11.73	129	14644	0.55	PPBV		99
73)	1,2-DIBROMOETHANE	11.94	107	10527	0.50	PPBV		100
74)	OCTANE	12.22	43	15489	0.52	PPBV		95
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	9931	0.52	PPBV		100
76)	CHLOROBENZENE	13.14	112	16235	0.52	PPBV		82
77)	ETHYLBENZENE	13.52	91	24852	0.48	PPBV		98
78)	m,p-XYLENE	13.71	106	17986	0.92	PPBV		99
79)	o-XYLENE	14.21	106	9329	0.48	PPBV		94
80)	STYRENE	14.11	104	10807	0.39	PPBV		91
81)	NONANE	14.41	43	11929	0.42	PPBV		100
82)	BROMOFORM	13.80	173	12578	0.50	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.23	83	13045	0.47	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.36	75	9444	0.47	PPBV		98
86)	ISOPROPYLBENZENE	14.86	105	25440	0.46	PPBV		98
87)	BROMOBENZENE	14.97	77	11916	0.51	PPBV		91
88)	2-CHLOROTOLUENE	15.42	126	6306	0.48	PPBV		97
89)	n-PROPYLBENZENE	15.45	120	6080	0.45	PPBV		94
90)	4-ETHYLTOLUENE	15.62	105	17808	0.39	PPBV		96
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	17452	0.43	PPBV		98
92)	ALPHA-METHYLSTYRENE	15.93	118	6591	0.37	PPBV		94
93)	tert-BUTYLBENZENE	16.21	134	4274	0.45	PPBV		95
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	14951	0.41	PPBV		90
95)	m-DICHLOROBENZENE	16.41	146	8634	0.38	PPBV		97
96)	BENZYL CHLORIDE	16.41	91	9064	0.36	PPBV		97
97)	p-DICHLOROBENZENE	16.50	146	8278	0.37	PPBV		93
98)	sec-BUTYLBENZENE	16.54	134	4463	0.41	PPBV		99
99)	p-ISOPROPYLTOLUENE	16.74	134	4586	0.41	PPBV		96
100)	o-DICHLOROBENZENE	16.93	146	9381	0.44	PPBV		95
101)	n-BUTYLBENZENE	17.27	134	3075	0.36	PPBV	#	89
102)	HEXACHLOROETHANE	17.74	117	8301	0.49	PPBV		93
103)	HEXACHLOROBUTADIENE	19.57	225	4548	0.40	PPBV		83
104)	1,2,4-TRICHLOROBENZENE	19.00	180	2916	0.39	PPBV		99
106)	NAPHTHALENE	19.15	128	5268	0.41	PPBV		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35047.D M3W1350.M Thu Jul 25 10:26:39 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integration Approval Summary

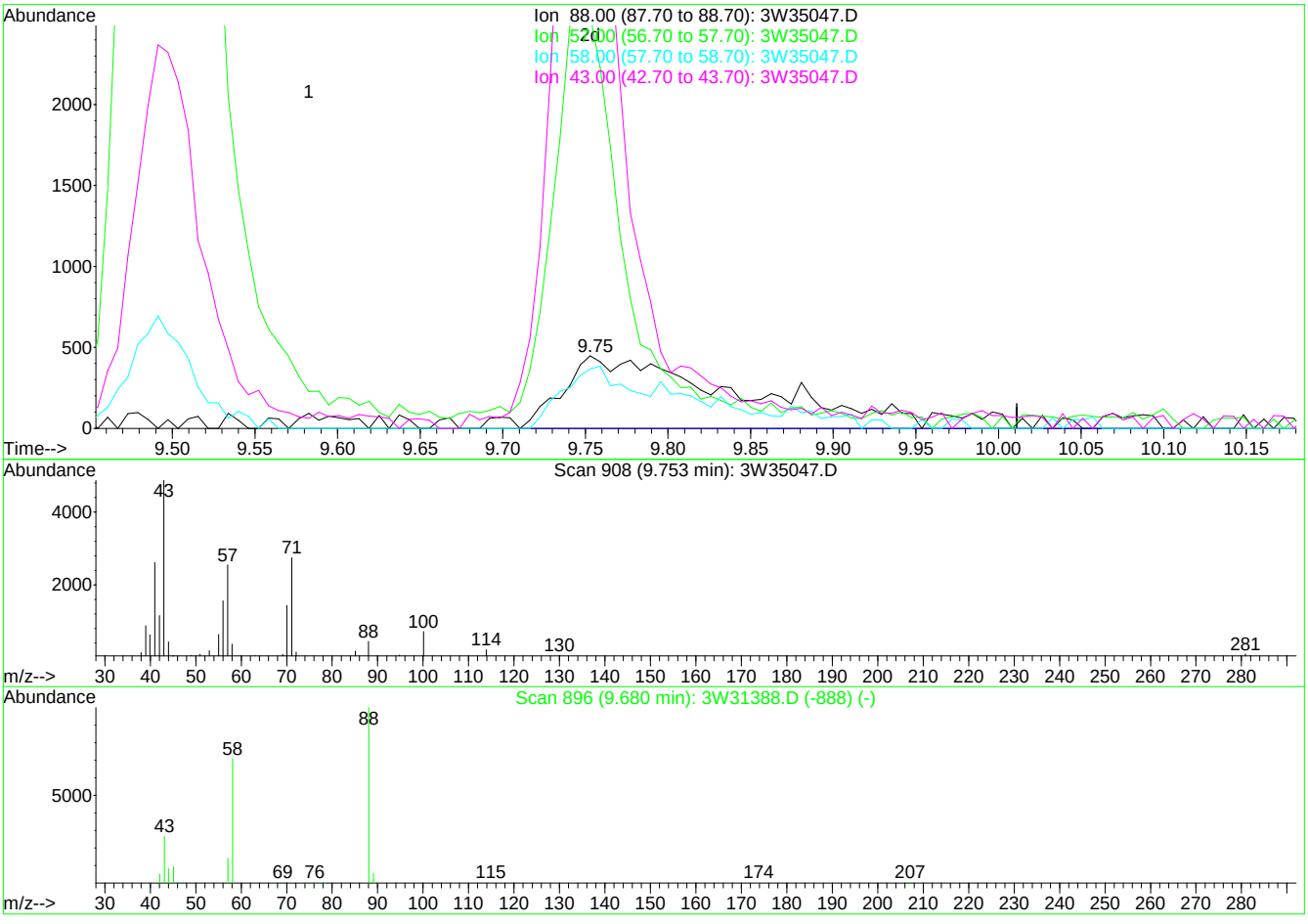
Sample Number:	V3W1350-IC1350	**Method:**	TO-15
Lab FileID:	3W35047.D	**Analyst approved:**	07/24/13 08:58 Dana Tryon
Injection Time:	07/23/13 17:03	**Supervisor approved:**	07/25/13 11:35 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrylonitrile	107-13-1		5.60	Missed peak
Tertiary Butyl Alcohol	75-65-0		5.88	Missed peak
Vinyl Acetate	108-05-4		6.72	Missed peak
1,4-Dioxane	123-91-1		9.75	Missed peak
Methyl Isobutyl Ketone	108-10-1		10.44	Missed peak
2-Hexanone	591-78-6		11.63	Missed peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:31 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Multiple Level Calibration



TIC: 3W35047.D

(59) 1,4-DIOXANE

9.75min 0.44PPBV m

response 3769

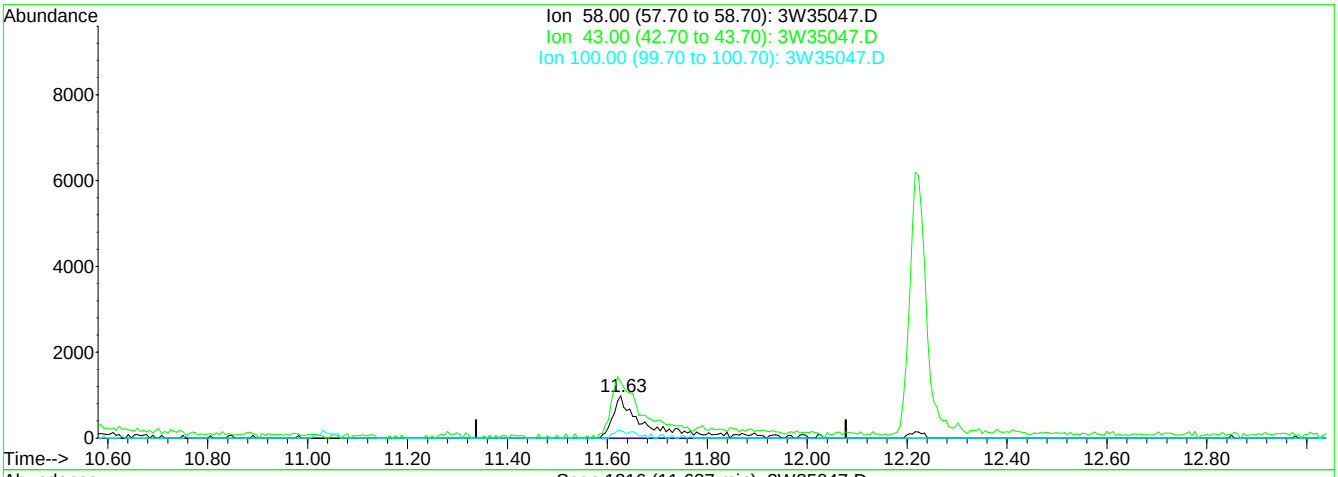
Ion	Exp%	Act%
88.00	100	100
57.00	24.60	570.47#
58.00	62.80	82.10
43.00	26.40	1090.38#

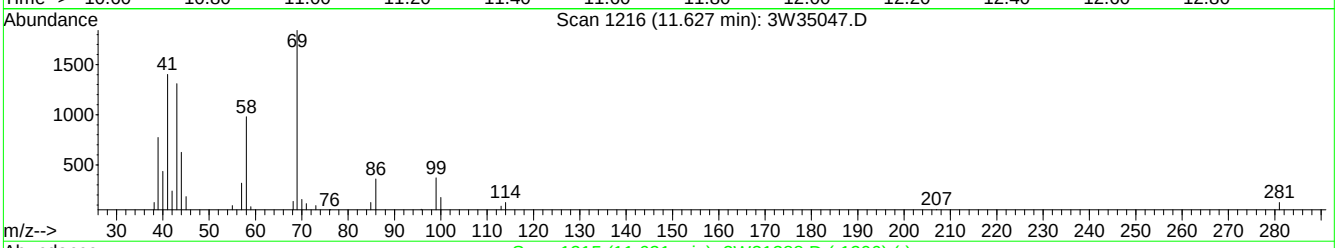
3W35047.D M3W1350.M Wed Jul 24 08:45:06 2013 MS3W

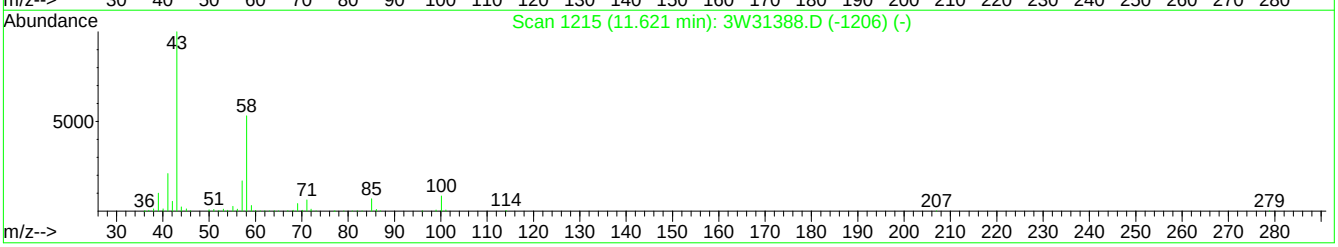
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:31 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35047.D

(69) 2-HEXANONE

11.63min 0.43PPBV m

response 4725

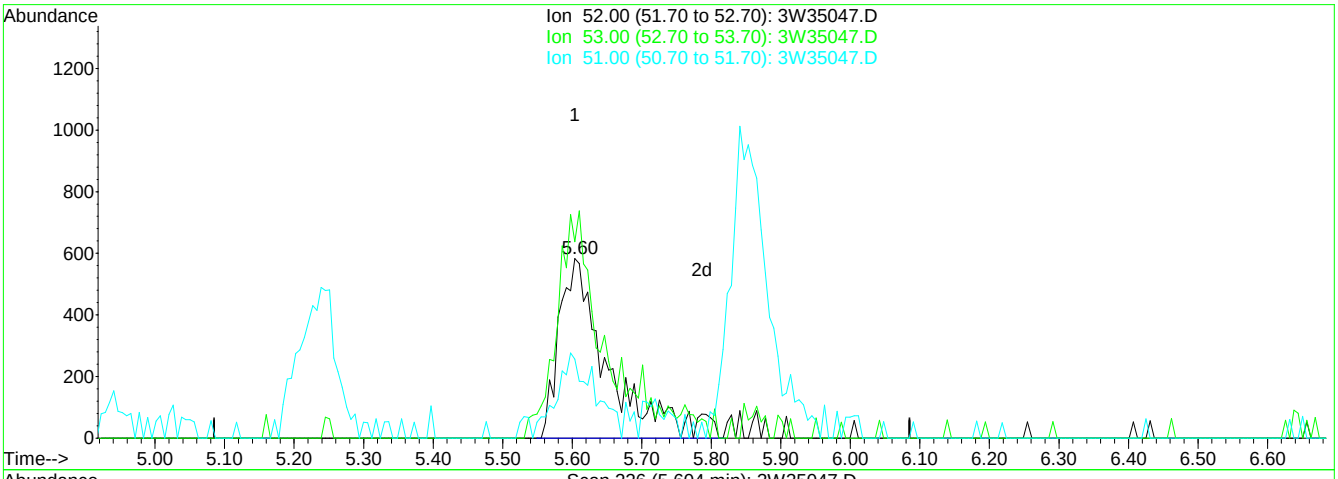
Ion	Exp%	Act%
58.00	100	100
43.00	171.50	135.94#
100.00	19.80	10.88
0.00	0.00	0.00

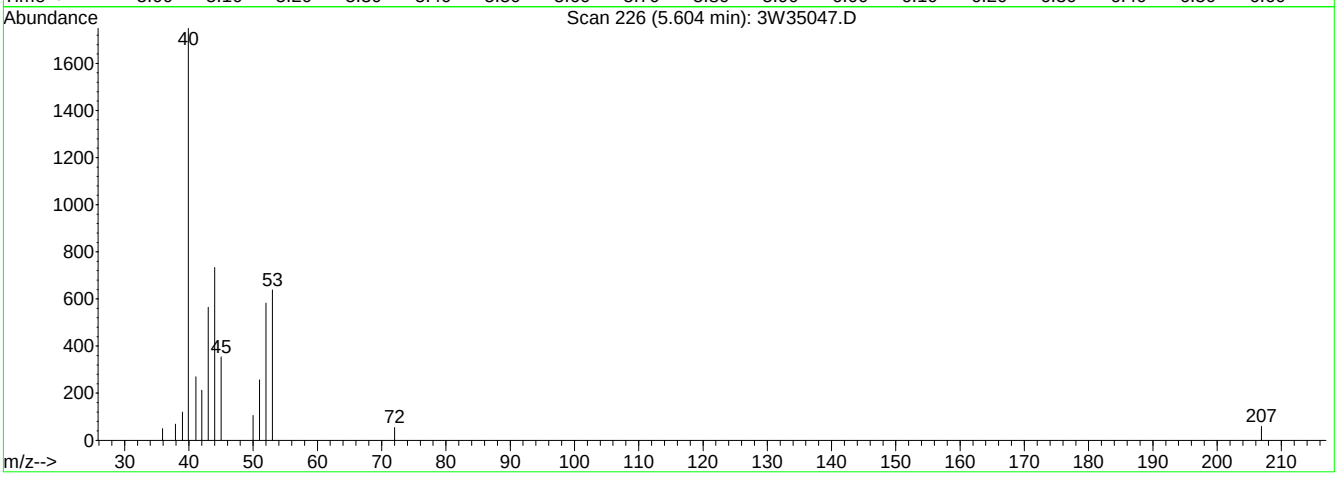
3W35047.D M3W1350.M Wed Jul 24 08:45:31 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35047.D

(28) ACRYLONITRILE

5.60min 0.38PPBV m

response 2876

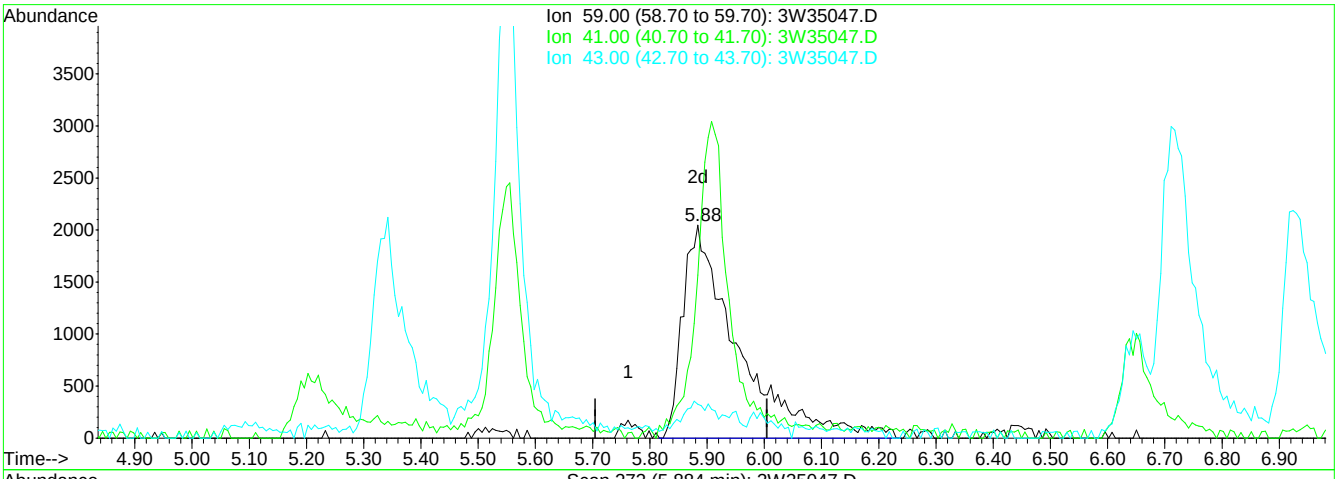
Ion	Exp%	Act%
52.00	100	100
53.00	117.70	126.04
51.00	44.30	36.30
0.00	0.00	0.00

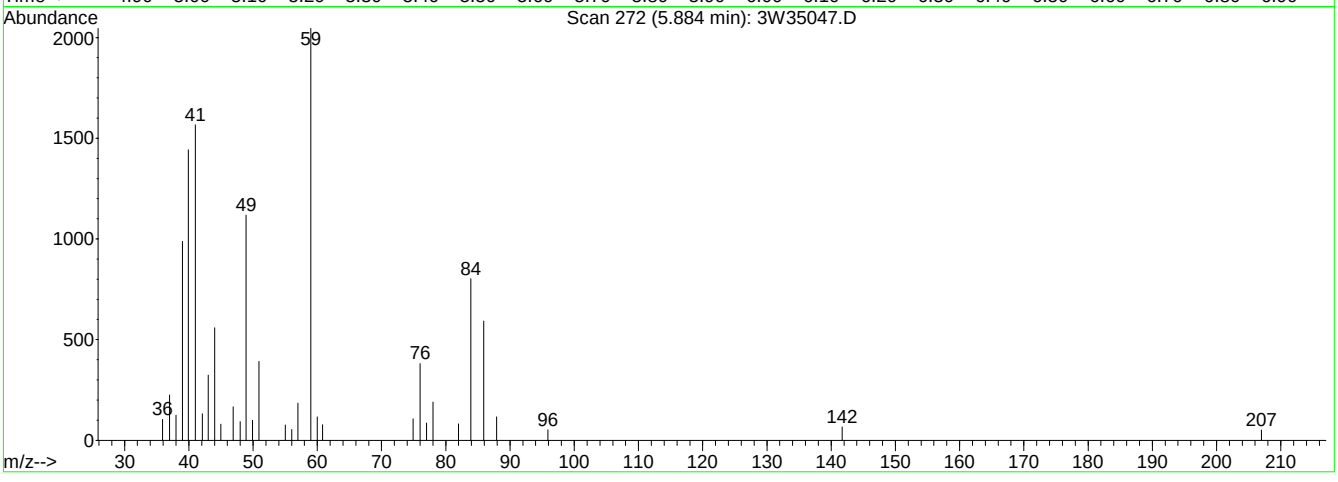
3W35047.D M3W1350.M Thu Jul 25 10:36:10 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35047.D

(33) TERTIARY BUTYL ALCOHOL

5.88min 0.47PPBV m

response 13754

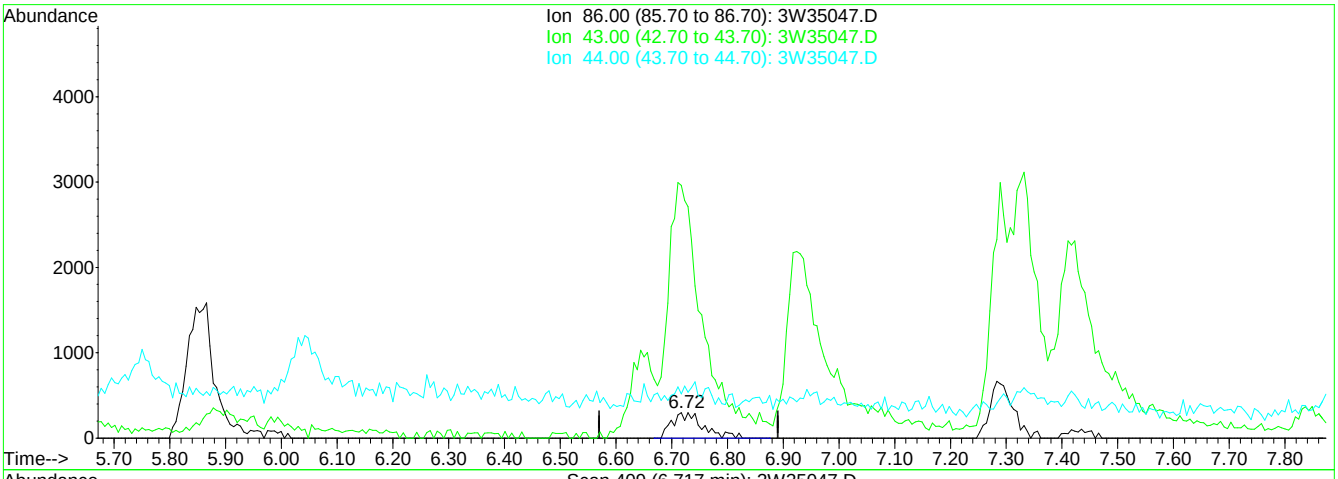
Ion	Exp%	Act%
59.00	100	100
41.00	16.20	0.00
43.00	15.40	0.00
0.00	0.00	0.00

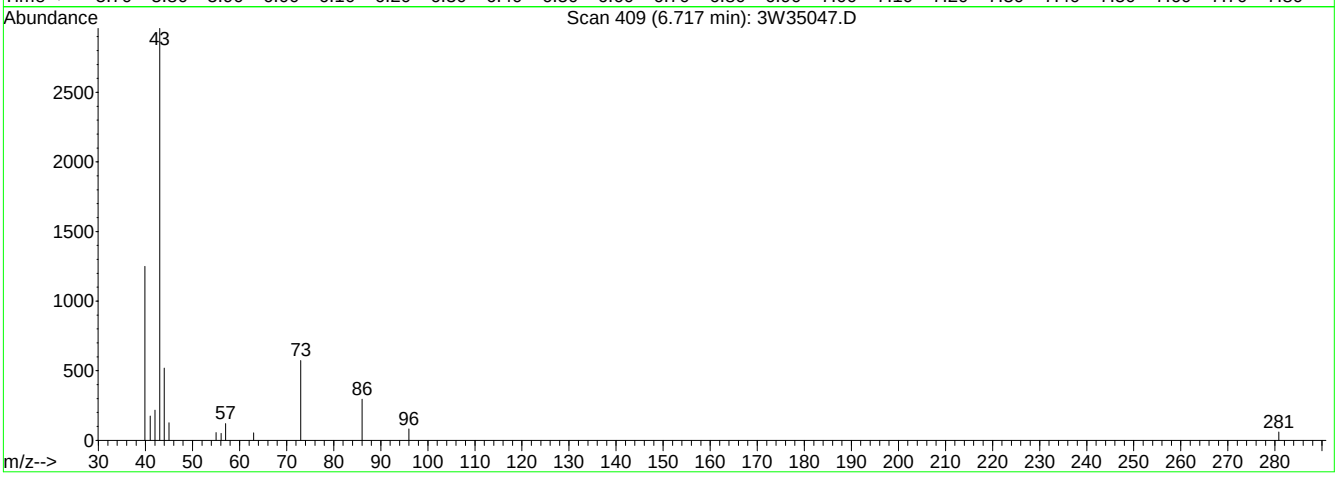
3W35047.D M3W1350.M Thu Jul 25 10:37:55 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35047.D

(37) VINYL ACETATE

6.72min 0.40PPBV m

response 1139

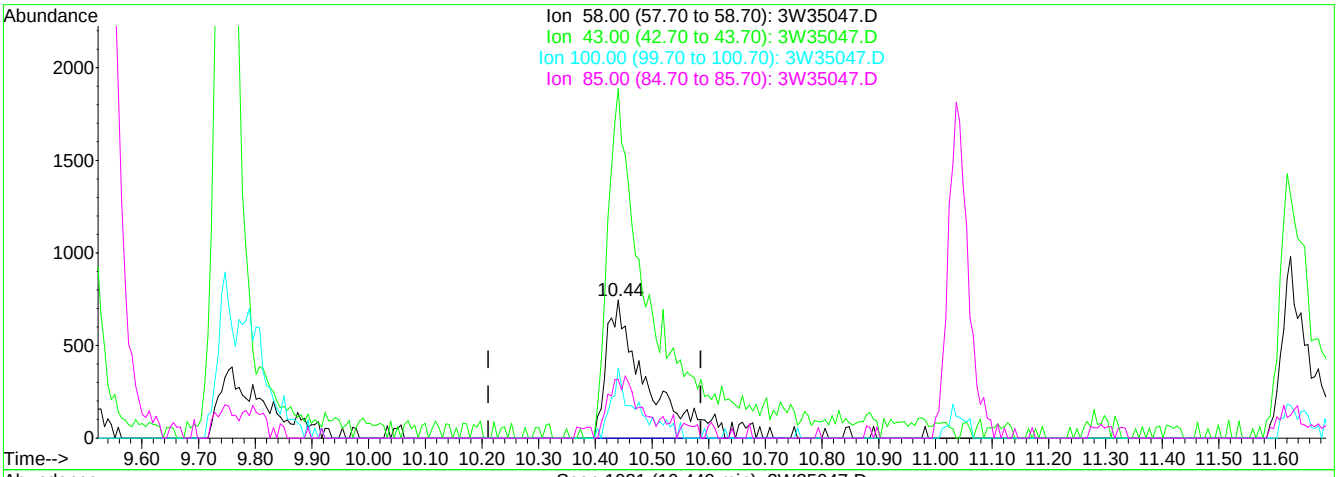
Ion	Exp%	Act%
86.00	100	100
43.00	1097.20	1010.27#
44.00	54.60	0.00#
0.00	0.00	0.00

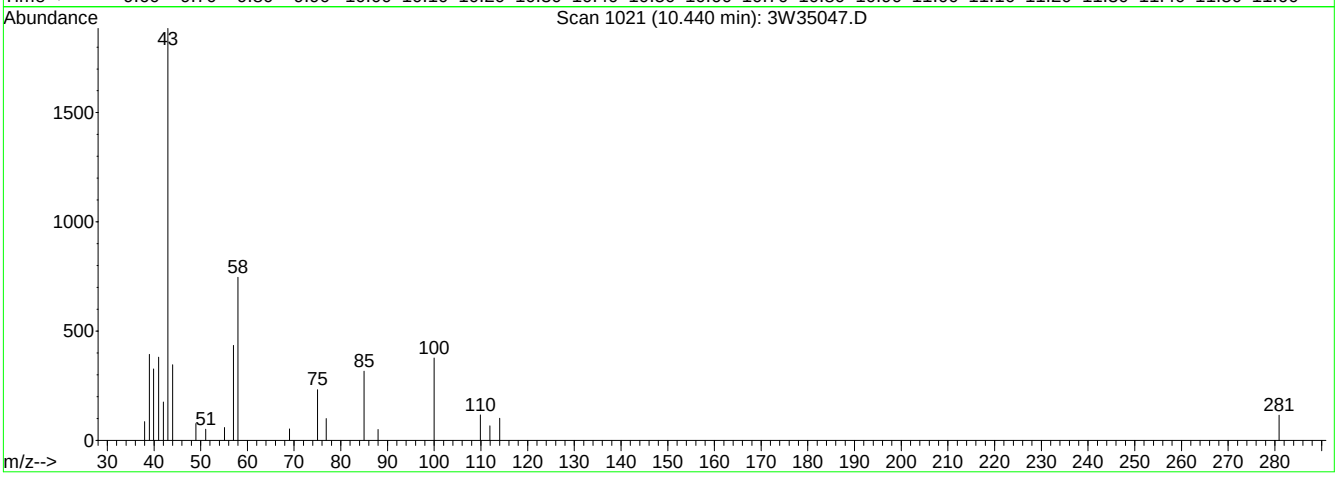
3W35047.D M3W1350.M Thu Jul 25 10:39:33 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Single Level Calibration





TIC: 3W35047.D

(63) METHYL ISOBUTYL KETONE

10.44min 0.38PPBV m

response 3837

Ion	Exp%	Act%
58.00	100	100
43.00	239.30	212.09#
100.00	35.00	30.73
85.00	44.80	36.67

3W35047.D M3W1350.M Thu Jul 25 10:43:43 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35048.D Vial: 3
Acq On : 23 Jul 2013 5:45 pm Operator: YOUMINH
Sample : IC1350-0.1 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 18:13:59 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 17:32:20 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	100679	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	430193	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.09	82	192761	10.00	PPBV	-0.01
105) CHLOROBENZENE-D5 (a)	13.09	82	191875	10.00	PPBV	-0.01
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.72	95	200207	9.06	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.60%			
Target Compounds						Qvalue
3) FREON 152A	4.33	65	909	0.10	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.40	85	3858	0.11	PPBV #	92
7) FREON 114	4.55	85	4080	0.11	PPBV	95
9) VINYL CHLORIDE	4.62	62	1588	0.10	PPBV #	91
12) BROMOMETHANE	4.86	94	1533	0.10	PPBV #	93
13) CHLOROETHANE	4.94	64	795	0.09	PPBV #	59
14) DICHLOROFLUOROMETHANE	4.99	67	3020	0.09	PPBV #	93
16) FREON 123	5.21	83	3482	0.10	PPBV	94
17) FREON 123A	5.24	117	2202	0.11	PPBV	93
18) TRICHLOROFLUOROMETHANE	5.38	101	3553	0.10	PPBV	94
20) ACETONE	5.34	58	673	0.11	PPBV #	85
21) PENTANE	5.55	42	1637	0.11	PPBV #	82
23) IODOMETHANE	5.72	142	3907	0.10	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.77	96	1394	0.10	PPBV	98
25) CARBON DISULFIDE	6.04	76	4338	0.11	PPBV	90
27) BROMOETHENE	5.15	106	1639	0.10	PPBV #	86
30) 3-CHLOROPROPENE	5.91	76	580	0.09	PPBV #	46
31) FREON 113	5.99	151	2509	0.10	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.45	96	1206	0.09	PPBV	97
34) METHYL TERTIARY BUTYL ETHE	6.67	73	2868	0.08	PPBV #	77
36) HEXANE	7.29	57	1965	0.09	PPBV	94
38) 1,1-DICHLOROETHANE	6.60	63	2541	0.09	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	7.24	96	1237	0.08	PPBV	87
44) CHLOROFORM	7.44	83	2748	0.09	PPBV #	86
45) 2,4-DIMETHYLPENTANE	7.99	57	2563	0.09	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.23	97	2774	0.09	PPBV	95
47) CARBON TETRACHLORIDE	8.77	117	3183	0.11	PPBV	94
48) 1,2-DICHLOROETHANE	8.03	62	1318	0.08	PPBV #	88
50) BENZENE	8.63	78	4510	0.11	PPBV	97
51) CYCLOHEXANE	8.81	84	2419	0.11	PPBV	91
53) TRICHLOROETHYLENE	9.55	95	1766	0.10	PPBV #	88
54) 1,2-DICHLOROPROPANE	9.33	63	1543	0.09	PPBV	87
55) DIBROMOMETHANE	9.35	174	1610	0.09	PPBV #	86
57) BROMODICHLOROMETHANE	9.53	83	2717	0.09	PPBV	97
58) 2,2,4-TRIMETHYLPENTANE	9.49	57	6857	0.10	PPBV	99
60) HEPTANE	9.75	43	2268	0.09	PPBV	95
64) cis-1,3-DICHLOROPROPENE	10.39	75	1648	0.08	PPBV	92
65) TOLUENE	11.30	92	2359	0.08	PPBV	93
67) 1,1,2-TRICHLOROETHANE	11.04	83	1199	0.09	PPBV	97
71) TETRACHLOROETHYLENE	12.42	164	1818	0.10	PPBV	98
72) DIBROMOCHLOROMETHANE	11.74	129	2468	0.10	PPBV	98
73) 1,2-DIBROMOETHANE	11.94	107	1689	0.08	PPBV #	99
74) OCTANE	12.22	43	2696	0.09	PPBV	89
75) 1,1,1,2-TETRACHLOROETHANE	13.12	131	1785	0.10	PPBV	81
76) CHLOROBENZENE	13.15	112	3001	0.10	PPBV #	48
77) ETHYLBENZENE	13.51	91	4395	0.09	PPBV	94
78) m,p-XYLENE	13.70	106	3244	0.17	PPBV	88
79) o-XYLENE	14.21	106	1459	0.08	PPBV #	78

(#) = qualifier out of range (m) = manual integration
3W35048.D M3W1350.M Thu Jul 25 10:27:01 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35048.D Vial: 3
Acq On : 23 Jul 2013 5:45 pm Operator: YOUMINH
Sample : IC1350-0.1 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 18:13:59 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 17:32:20 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

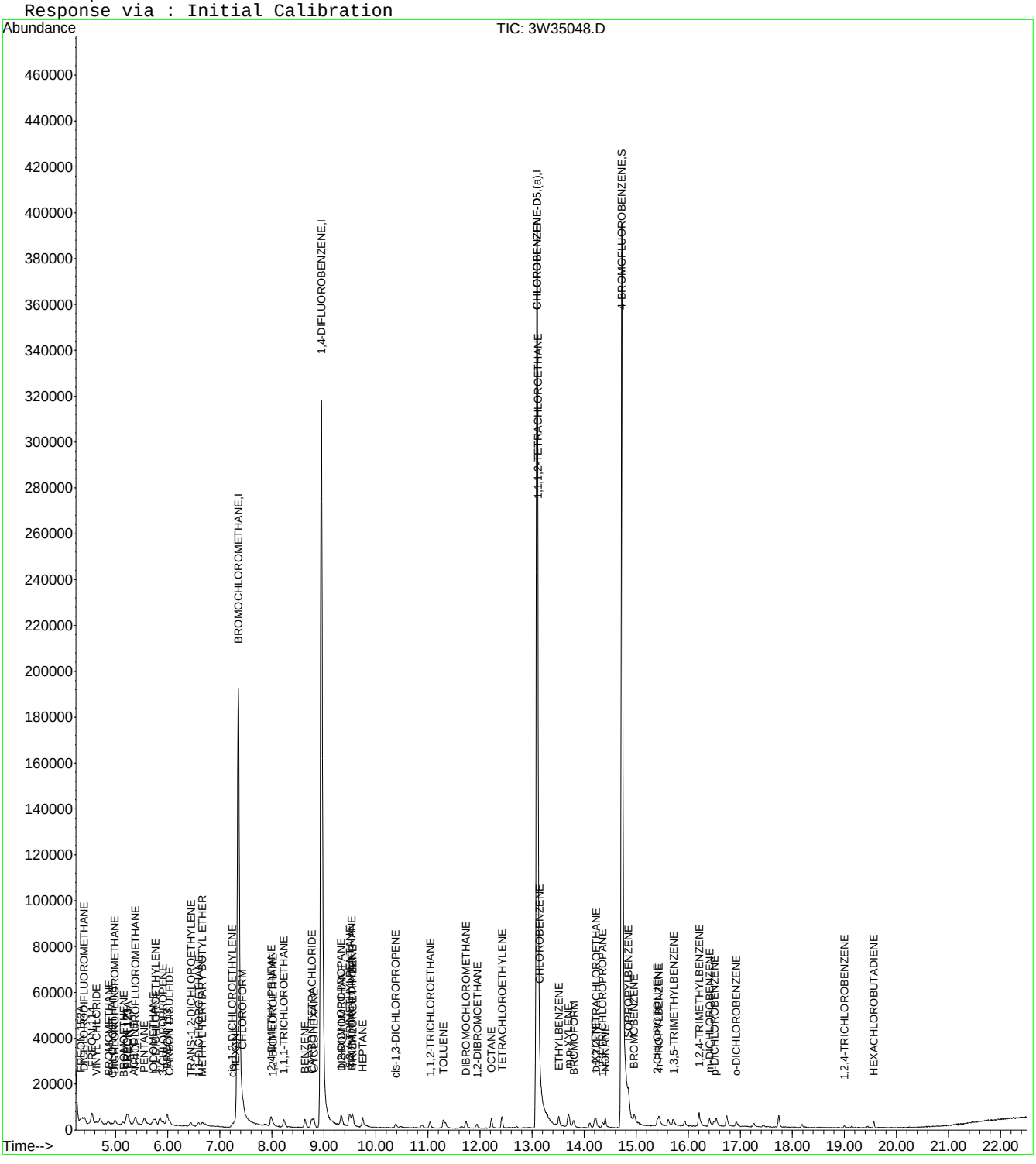
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	NONANE	14.41	43	2232	0.08	PPBV	#	88
82)	BROMOFORM	13.80	173	2253	0.09	PPBV		90
84)	1,1,2,2-TETRACHLOROETHANE	14.24	83	2458	0.09	PPBV		91
85)	1,2,3-TRICHLOROPROPANE	14.36	75	1704	0.09	PPBV		87
86)	ISOPROPYLBENZENE	14.85	105	5157	0.10	PPBV		96
87)	BROMOBENZENE	14.96	77	1923	0.08	PPBV		100
88)	2-CHLOROTOLUENE	15.40	126	993	0.08	PPBV		93
89)	n-PROPYLBENZENE	15.43	120	966	0.07	PPBV		60
91)	1,3,5-TRIMETHYLBENZENE	15.72	105	2988	0.08	PPBV		98
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	2567	0.07	PPBV	#	80
95)	m-DICHLOROBENZENE	16.41	146	1848	0.09	PPBV		98
97)	p-DICHLOROBENZENE	16.51	146	1830	0.09	PPBV		97
100)	o-DICHLOROBENZENE	16.93	146	1680	0.08	PPBV		96
103)	HEXACHLOROBUTADIENE	19.57	225	786	0.07	PPBV		96
104)	1,2,4-TRICHLOROBENZENE	18.99	180	500	0.07	PPBV	#	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35048.D M3W1350.M Thu Jul 25 10:27:01 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35048.D Vial: 3
Acq On : 23 Jul 2013 5:45 pm Operator: YOUMINH
Sample : IC1350-0.1 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35049.D Vial: 3
Acq On : 23 Jul 2013 6:23 pm Operator: YOUMINH
Sample : IC1350-0.04 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:11:17 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 18:17:25 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	102105	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	435104	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.10	82	192155	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.10	82	192155	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.72	95	199854	9.18	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 91.80%

Target Compounds						Qvalue
7) FREON 114	4.55	85	1472	0.04	PPBV	95
9) VINYL CHLORIDE	4.62	62	662	0.04	PPBV #	73
14) DICHLOROFLUOROMETHANE	5.00	67	1218	0.04	PPBV #	85
16) FREON 123	5.20	83	1481	0.04	PPBV	90
17) FREON 123A	5.24	117	811	0.04	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.38	101	1483	0.04	PPBV	94
23) IODOMETHANE	5.73	142	1547	0.04	PPBV	93
24) 1,1-DICHLOROETHYLENE	5.77	96	579	0.04	PPBV	93
25) CARBON DISULFIDE	6.04	76	1611	0.04	PPBV	68
27) BROMOETHENE	5.15	106	598	0.04	PPBV #	93
31) FREON 113	5.99	151	824	0.03	PPBV	92
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	463	0.03	PPBV #	86
34) METHYL TERTIARY BUTYL ETHE	6.69	73	1240	0.03	PPBV #	71
36) HEXANE	7.29	57	747	0.03	PPBV	92
38) 1,1-DICHLOROETHANE	6.58	63	934	0.03	PPBV #	64
40) cis-1,2-DICHLOROETHYLENE	7.24	96	606	0.04	PPBV #	76
44) CHLOROFORM	7.43	83	1026	0.04	PPBV #	87
46) 1,1,1-TRICHLOROETHANE	8.23	97	1090	0.04	PPBV	98
47) CARBON TETRACHLORIDE	8.76	117	1113	0.04	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	478	0.03	PPBV #	49
50) BENZENE	8.64	78	2230	0.05	PPBV	95
51) CYCLOHEXANE	8.80	84	941	0.04	PPBV	90
53) TRICHLOROETHYLENE	9.55	95	751	0.04	PPBV #	83
55) DIBROMOMETHANE	9.36	174	765	0.04	PPBV #	85
57) BROMODICHLOROMETHANE	9.54	83	1146	0.04	PPBV	93
58) 2,2,4-TRIMETHYLPENTANE	9.49	57	2918	0.04	PPBV #	96
60) HEPTANE	9.74	43	986	0.04	PPBV	88
64) cis-1,3-DICHLOROPROPENE	10.38	75	605	0.03	PPBV	92
65) TOLUENE	11.29	92	939	0.03	PPBV	91
67) 1,1,2-TRICHLOROETHANE	11.04	83	493	0.04	PPBV	94
71) TETRACHLOROETHYLENE	12.42	164	765	0.04	PPBV	98
72) DIBROMOCHLOROMETHANE	11.73	129	1029	0.04	PPBV	95
73) 1,2-DIBROMOETHANE	11.93	107	619	0.03	PPBV #	86
74) OCTANE	12.22	43	1056	0.04	PPBV	90
75) 1,1,1,2-TETRACHLOROETHANE	13.12	131	771	0.04	PPBV	94
76) CHLOROBENZENE	13.14	112	1142	0.04	PPBV #	20
77) ETHYLBENZENE	13.52	91	1770	0.04	PPBV	90
78) m,p-XYLENE	13.71	106	1249	0.07	PPBV #	83
79) o-XYLENE	14.20	106	543	0.03	PPBV #	72
80) STYRENE	14.11	104	686	0.03	PPBV	91
81) NONANE	14.41	43	681	0.03	PPBV #	91
82) BROMOFORM	13.80	173	783	0.03	PPBV #	90
84) 1,1,2,2-TETRACHLOROETHANE	14.23	83	846	0.03	PPBV #	91
85) 1,2,3-TRICHLOROPROPANE	14.36	75	649	0.03	PPBV	76
86) ISOPROPYLBENZENE	14.86	105	1863	0.04	PPBV	95
87) BROMOBENZENE	14.96	77	970	0.04	PPBV #	83
88) 2-CHLOROTOLUENE	15.41	126	447	0.04	PPBV #	42
89) n-PROPYLBENZENE	15.45	120	335	0.03	PPBV #	62

(#) = qualifier out of range (m) = manual integration
3W35049.D M3W1350.M Thu Jul 25 10:27:19 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35049.D Vial: 3
Acq On : 23 Jul 2013 6:23 pm Operator: YOUMINH
Sample : IC1350-0.04 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:11:17 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 18:17:25 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

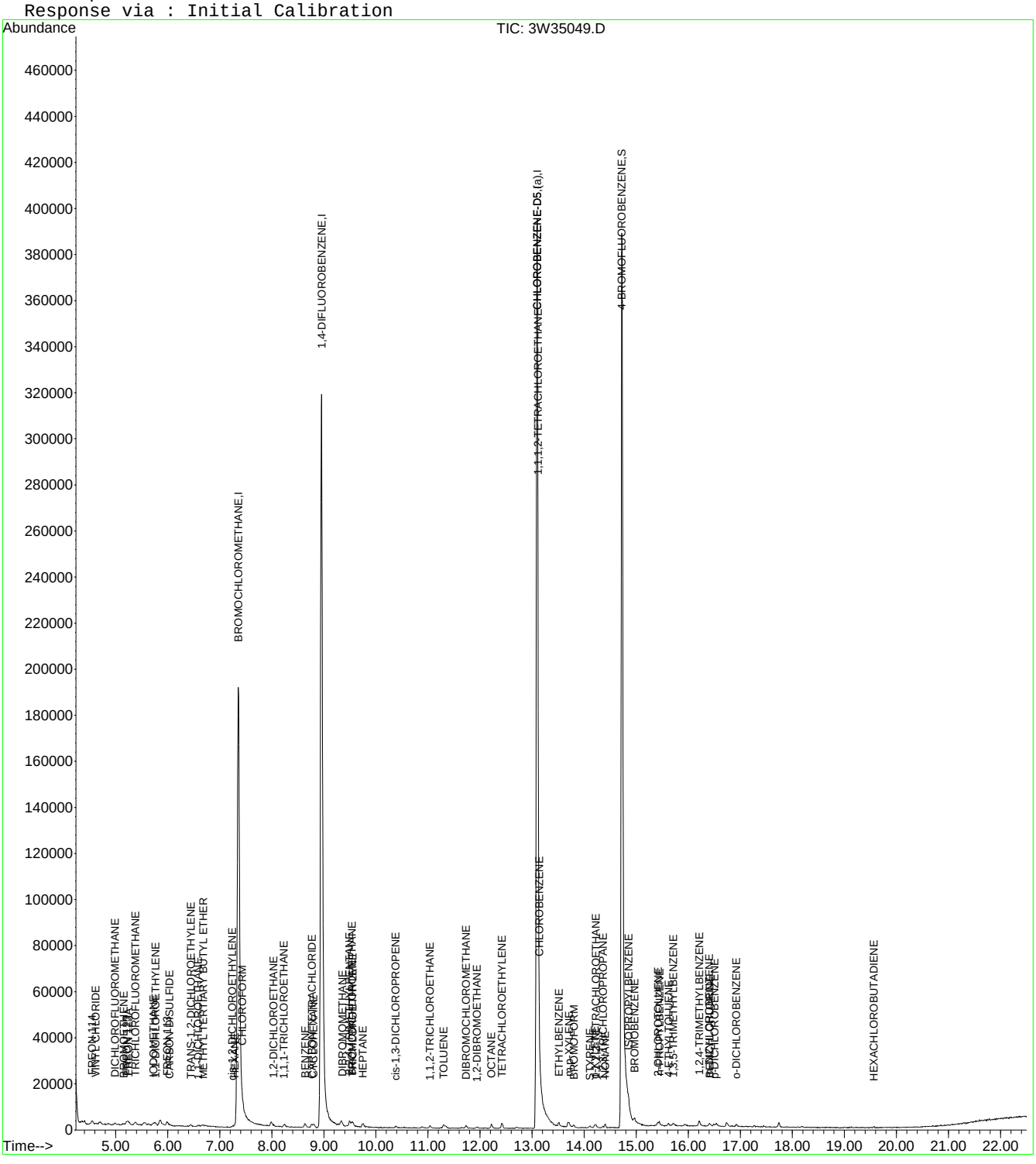
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
90)	4-ETHYLTOLUENE	15.62	105	1152	0.03	PPBV		92
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	1261	0.03	PPBV	#	86
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	872	0.03	PPBV	#	71
95)	m-DICHLOROBENZENE	16.40	146	635	0.03	PPBV		90
96)	BENZYL CHLORIDE	16.41	91	658	0.03	PPBV	#	59
97)	p-DICHLOROBENZENE	16.50	146	695	0.03	PPBV		91
100)	o-DICHLOROBENZENE	16.93	146	672	0.03	PPBV		94
103)	HEXACHLOROBUTADIENE	19.55	225	278	0.03	PPBV		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35049.D M3W1350.M Thu Jul 25 10:27:19 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35049.D Vial: 3
Acq On : 23 Jul 2013 6:23 pm Operator: YOUMINH
Sample : IC1350-0.04 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:27 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35050.D Vial: 1
Acq On : 23 Jul 2013 7:05 pm Operator: YOUMINH
Sample : IC1350-40 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:29:53 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:13:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.39	128	102769	10.00	PPBV	0.02
49) 1,4-DIFLUOROBENZENE	8.99	114	487642	10.00	PPBV	0.02
68) CHLOROBENZENE-D5	13.14	82	270229	10.00	PPBV	0.03
105) CHLOROBENZENE-D5 (a)	13.14	82	270229	10.00	PPBV	0.03
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.77	95	305601	10.07	PPBV	0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.70%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	349221	36.81	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	131180	37.84	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.40	85	1357786	36.51	PPBV	97
6) PROPYLENE	4.36	41	399617	33.52	PPBV	100
7) FREON 114	4.55	85	1423803	36.24	PPBV	95
8) CHLOROMETHANE	4.50	50	596803	34.92	PPBV	99
9) VINYL CHLORIDE	4.62	62	602140	36.02	PPBV	98
10) 1,3-BUTADIENE	4.69	54	448728	37.30	PPBV	96
11) n-BUTANE	4.72	43	825569	34.55	PPBV	99
12) BROMOMETHANE	4.86	94	601914	38.54	PPBV	99
13) CHLOROETHANE	4.95	64	327425	38.27	PPBV	98
14) DICHLOROFLUOROMETHANE	5.00	67	1234677	38.05	PPBV	99
15) ACETONITRILE	5.18	41	385338	42.85	PPBV	99
16) FREON 123	5.21	83	1338205	37.10	PPBV	97
17) FREON 123A	5.25	117	834210	39.16	PPBV	89
18) TRICHLOROFLUOROMETHANE	5.38	101	1360297	37.64	PPBV	99
19) ISOPROPYL ALCOHOL	5.49	45	934749	41.61	PPBV	100
20) ACETONE	5.30	58	257188	42.27	PPBV	99
21) PENTANE	5.56	42	546170	35.51	PPBV	95
23) IODOMETHANE	5.74	142	1636894	40.01	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.77	96	578717	39.55	PPBV	95
25) CARBON DISULFIDE	6.05	76	1491534	35.92	PPBV	99
26) ETHANOL	5.07	45	240674	42.94	PPBV	99
27) BROMOETHENE	5.15	106	631182	39.48	PPBV	99
28) ACRYLONITRILE	5.60	52	347536	46.91	PPBV	97
29) METHYLENE CHLORIDE	5.86	84	495315	33.84	PPBV	88
30) 3-CHLOROPROPENE	5.92	76	264726	41.33	PPBV #	88
31) FREON 113	6.00	151	999138	40.09	PPBV	97
32) TRANS-1,2-DICHLOROETHYLENE	6.45	96	596874	43.19	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.86	59	1145712	40.61	PPBV #	78
34) METHYL TERTIARY BUTYL ETHE	6.61	73	1536906	43.17	PPBV	99
35) TETRAHYDROFURAN	7.78	72	287800	46.75	PPBV	98
36) HEXANE	7.30	57	814306	37.93	PPBV	98
37) VINYL ACETATE	6.72	86	137141	49.50	PPBV #	85
38) 1,1-DICHLOROETHANE	6.61	63	1017760	37.96	PPBV	97
39) METHYL ETHYL KETONE	6.90	72	299419	48.71	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.26	96	643202	42.33	PPBV	99
41) DIISOPROPYL ETHER	7.33	45	1877740	39.58	PPBV	99
42) ETHYL ACETATE	7.40	61	196856	44.56	PPBV #	91
43) METHYL ACRYLATE	7.42	55	968504	46.70	PPBV #	80
44) CHLOROFORM	7.48	83	1183735	40.84	PPBV	88
45) 2,4-DIMETHYLPENTANE	8.00	57	1104513	38.80	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.26	97	1192565	40.46	PPBV	99
47) CARBON TETRACHLORIDE	8.79	117	1214843	39.75	PPBV	99
48) 1,2-DICHLOROETHANE	8.06	62	702308	45.03	PPBV	100
50) BENZENE	8.66	78	1862242	36.93	PPBV	100
51) CYCLOHEXANE	8.82	84	978311	37.28	PPBV	98
52) 2,3-DIMETHYLPENTANE	9.01	71	431814	36.96	PPBV #	87

(#) = qualifier out of range (m) = manual integration
3W35050.D M3W1350.M Thu Jul 25 10:27:39 2013 MS3W

7.7.10

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35050.D Vial: 1
Acq On : 23 Jul 2013 7:05 pm Operator: YOUMINH
Sample : IC1350-40 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:29:53 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:13:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

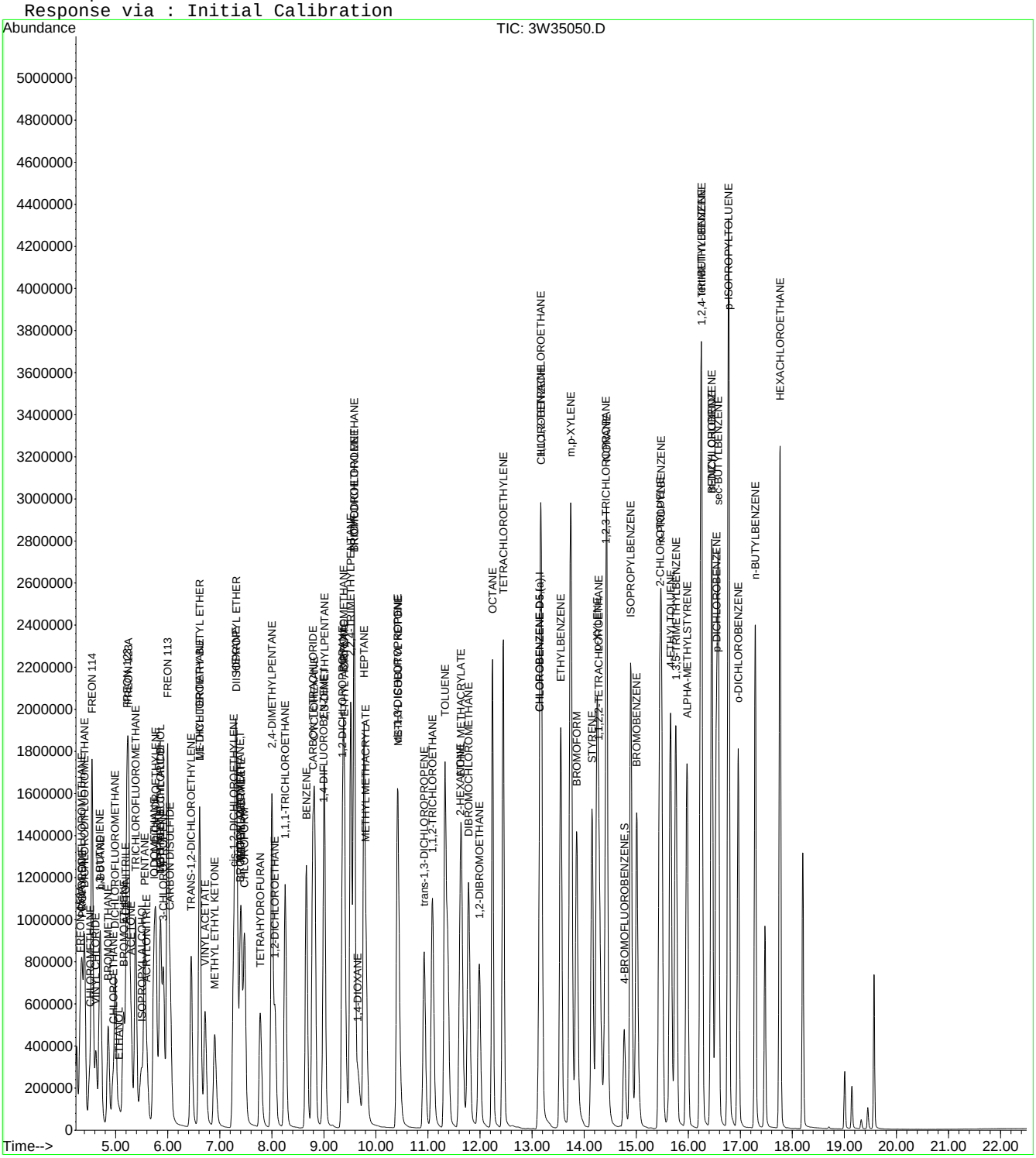
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.59	95	752487	38.30	PPBV		96
54)	1,2-DICHLOROPROPANE	9.35	63	681895	37.27	PPBV		99
55)	DIBROMOMETHANE	9.38	174	824531	42.23	PPBV		98
56)	ETHYL ACRYLATE	9.40	55	1254329	44.61	PPBV		99
57)	BROMODICHLOROMETHANE	9.58	83	1261014	39.02	PPBV		98
58)	2,2,4-TRIMETHYLPENTANE	9.52	57	2726162	35.18	PPBV		99
59)	1,4-DIOXANE	9.66	88	461696	49.42	PPBV		98
60)	HEPTANE	9.77	43	1026869	37.09	PPBV		96
62)	METHYL METHACRYLATE	9.81	69	671070	45.89	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.43	58	533581	50.02	PPBV		97
64)	cis-1,3-DICHLOROPROPENE	10.41	75	1004835	45.06	PPBV		99
65)	TOLUENE	11.33	92	1332789	43.68	PPBV		96
66)	trans-1,3-DICHLOROPROPENE	10.93	75	968241	45.53	PPBV		99
67)	1,1,2-TRICHLOROETHANE	11.09	83	662144	43.31	PPBV		98
69)	2-HEXANONE	11.61	58	736181	47.03	PPBV		96
70)	ETHYL METHACRYLATE	11.64	69	1110585	45.07	PPBV		97
71)	TETRACHLOROETHYLENE	12.45	164	918202	36.04	PPBV		99
72)	DIBROMOCHLOROMETHANE	11.78	129	1365503	37.92	PPBV		99
73)	1,2-DIBROMOETHANE	11.99	107	1123781	41.47	PPBV		100
74)	OCTANE	12.24	43	1358705	34.40	PPBV		95
75)	1,1,1,2-TETRACHLOROETHANE	13.16	131	984584	37.69	PPBV		100
76)	CHLOROBENZENE	13.18	112	1582977	37.60	PPBV		99
77)	ETHYLBENZENE	13.55	91	2659854	39.31	PPBV		98
78)	m,p-XYLENE	13.74	106	2039983	79.97	PPBV		93
79)	o-XYLENE	14.25	106	1031183	41.90	PPBV		95
80)	STYRENE	14.15	104	1548615	43.73	PPBV		94
81)	NONANE	14.43	43	1308862	37.41	PPBV		96
82)	BROMOFORM	13.86	173	1366203	41.47	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.29	83	1437879	39.54	PPBV		98
85)	1,2,3-TRICHLOROPROPANE	14.41	75	1055632	40.31	PPBV		98
86)	ISOPROPYLBENZENE	14.89	105	2872819	39.24	PPBV		97
87)	BROMOBENZENE	15.01	77	1274351	40.40	PPBV		97
88)	2-CHLOROTOLUENE	15.45	126	726992	42.51	PPBV		100
89)	n-PROPYLBENZENE	15.48	120	778260	45.70	PPBV		99
90)	4-ETHYLTOLUENE	15.66	105	2577922	44.37	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	2134630	40.98	PPBV		97
92)	ALPHA-METHYLSTYRENE	15.98	118	1101530	46.26	PPBV		99
93)	tert-BUTYLBENZENE	16.24	134	533462	41.83	PPBV	#	89
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	1984954	44.24	PPBV		98
95)	m-DICHLOROBENZENE	16.45	146	1360470	47.26	PPBV		99
96)	BENZYL CHLORIDE	16.46	91	1601020	48.52	PPBV		99
97)	p-DICHLOROBENZENE	16.54	146	1299239	45.64	PPBV		99
98)	sec-BUTYLBENZENE	16.58	134	639208	43.66	PPBV	#	84
99)	p-ISOPROPYLTOLUENE	16.77	134	658779	43.97	PPBV	#	86
100)	o-DICHLOROBENZENE	16.96	146	1234004	44.60	PPBV		98
101)	n-BUTYLBENZENE	17.29	134	548656	47.22	PPBV	#	88
102)	HEXACHLOROETHANE	17.76	117	899766	39.39	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35050.D M3W1350.M Thu Jul 25 10:27:39 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35050.D Vial: 1
Acq On : 23 Jul 2013 7:05 pm Operator: YOUMINH
Sample : IC1350-40 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:27 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:28:30 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	113462	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	518334	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.10	82	255042	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.10	82	255042	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.74	95	301716	10.53	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 105.30%

Target Compounds						Qvalue
3) FREON 152A	4.31	65	99539	9.59	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	36772	9.67	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.40	85	385606	9.48	PPBV	98
6) PROPYLENE	4.36	41	123541	9.58	PPBV	100
7) FREON 114	4.55	85	407830	9.49	PPBV	99
8) CHLOROMETHANE	4.50	50	174411	9.39	PPBV	99
9) VINYL CHLORIDE	4.62	62	173675	9.50	PPBV	99
10) 1,3-BUTADIENE	4.69	54	125332	9.52	PPBV	100
11) n-BUTANE	4.71	43	246806	9.52	PPBV	99
12) BROMOMETHANE	4.86	94	162474	9.46	PPBV	99
13) CHLOROETHANE	4.94	64	90410	9.62	PPBV	98
14) DICHLOROFLUOROMETHANE	4.99	67	347770	9.76	PPBV	99
15) ACETONITRILE	5.18	41	94330	9.42	PPBV	93
16) FREON 123	5.21	83	380909	9.64	PPBV	100
17) FREON 123A	5.25	117	223054	9.50	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.38	101	374802	9.45	PPBV	100
19) ISOPROPYL ALCOHOL	5.46	45	229841	9.22	PPBV	99
20) ACETONE	5.29	58	64938	9.60	PPBV	98
21) PENTANE	5.55	42	155756	9.29	PPBV	99
23) IODOMETHANE	5.73	142	438416	9.71	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	156718	9.71	PPBV	100
25) CARBON DISULFIDE	6.04	76	419044	9.24	PPBV	99
26) ETHANOL	5.05	45	55476	8.88	PPBV	98
27) BROMOETHENE	5.15	106	168197	9.54	PPBV	100
28) ACRYLONITRILE	5.59	52	84015	10.06	PPBV	97
29) METHYLENE CHLORIDE	5.85	84	139387	8.80	PPBV	89
30) 3-CHLOROPROPENE	5.91	76	70837	9.98	PPBV	94
31) FREON 113	5.99	151	270123	9.82	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	152770	9.93	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.82	59	294727	9.44	PPBV	96
34) METHYL TERTIARY BUTYL ETHE	6.61	73	398236	10.05	PPBV	100
35) TETRAHYDROFURAN	7.78	72	69693	10.04	PPBV	100
36) HEXANE	7.30	57	231638	9.82	PPBV	99
37) VINYL ACETATE	6.70	86	31416	9.97	PPBV #	94
38) 1,1-DICHLOROETHANE	6.60	63	283896	9.64	PPBV	99
39) METHYL ETHYL KETONE	6.88	72	69461	9.96	PPBV	98
40) cis-1,2-DICHLOROETHYLENE	7.25	96	164593	9.75	PPBV	98
41) DIISOPROPYL ETHER	7.31	45	513433	9.81	PPBV	88
42) ETHYL ACETATE	7.38	61	47626	9.63	PPBV #	92
43) METHYL ACRYLATE	7.39	55	233911	10.01	PPBV	99
44) CHLOROFORM	7.45	83	309395	9.65	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.99	57	305226	9.74	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.24	97	313822	9.63	PPBV	100
47) CARBON TETRACHLORIDE	8.77	117	321331	9.53	PPBV	100
48) 1,2-DICHLOROETHANE	8.04	62	172098	9.87	PPBV	99
50) BENZENE	8.65	78	480386	9.03	PPBV	100
51) CYCLOHEXANE	8.81	84	258109	9.32	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.00	71	112004	9.11	PPBV	97

(#) = qualifier out of range (m) = manual integration
3W35053.D M3W1350.M Thu Jul 25 10:28:48 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:28:30 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

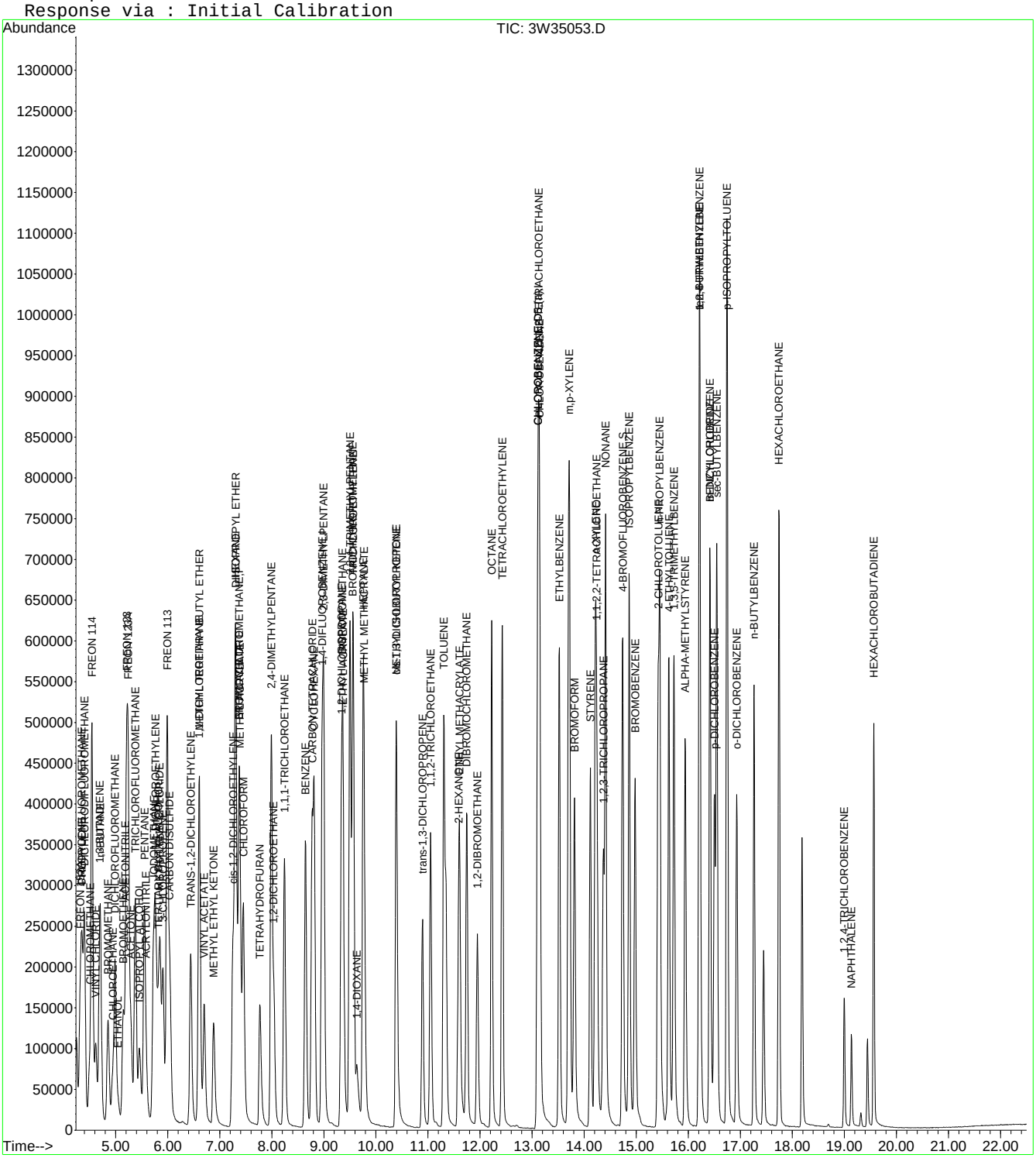
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.57	95	185240	8.91	PPBV	98
54)	1,2-DICHLOROPROPANE	9.33	63	175672	9.10	PPBV	100
55)	DIBROMOMETHANE	9.36	174	194309	9.31	PPBV	100
56)	ETHYL ACRYLATE	9.38	55	284504	9.38	PPBV	99
57)	BROMODICHLOROMETHANE	9.55	83	322838	9.42	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	781007	9.60	PPBV	100
59)	1,4-DIOXANE	9.64	88	95209	9.31	PPBV	96
60)	HEPTANE	9.75	43	275384	9.43	PPBV	100
62)	METHYL METHACRYLATE	9.78	69	154425	9.76	PPBV	99
63)	METHYL ISOBUTYL KETONE	10.40	58	111086	9.50	PPBV	99
64)	cis-1,3-DICHLOROPROPENE	10.39	75	239725	9.99	PPBV	99
65)	TOLUENE	11.30	92	320284	9.79	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.90	75	214939	9.35	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.05	83	157401	9.61	PPBV	98
69)	2-HEXANONE	11.58	58	147050	9.74	PPBV	100
70)	ETHYL METHACRYLATE	11.60	69	230187	9.74	PPBV	99
71)	TETRACHLOROETHYLENE	12.43	164	216803	9.11	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.74	129	316827	9.37	PPBV	100
73)	1,2-DIBROMOETHANE	11.95	107	250279	9.75	PPBV	99
74)	OCTANE	12.22	43	361301	9.83	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.13	131	232435	9.48	PPBV	100
76)	CHLOROBENZENE	13.15	112	370630	9.38	PPBV	100
77)	ETHYLBENZENE	13.52	91	633234	9.93	PPBV	100
78)	m,p-XYLENE	13.71	106	473313	19.66	PPBV	99
79)	o-XYLENE	14.22	106	234785	10.06	PPBV	99
80)	STYRENE	14.12	104	331554	9.43	PPBV	94
81)	NONANE	14.41	43	348382	10.62	PPBV	100
82)	BROMOFORM	13.82	173	300745	9.64	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.24	83	327408	9.55	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.37	75	242502	9.80	PPBV	100
86)	ISOPROPYLBENZENE	14.86	105	677580	9.82	PPBV	100
87)	BROMOBENZENE	14.98	77	283114	9.50	PPBV	99
88)	2-CHLOROTOLUENE	15.42	126	162537	10.01	PPBV	100
89)	n-PROPYLBENZENE	15.45	120	171433	10.52	PPBV	99
90)	4-ETHYLTOLUENE	15.63	105	577611	10.02	PPBV	98
91)	1,3,5-TRIMETHYLBENZENE	15.73	105	482650	9.79	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.94	118	226619	9.89	PPBV	100
93)	tert-BUTYLBENZENE	16.21	134	117351	9.69	PPBV	100
94)	1,2,4-TRIMETHYLBENZENE	16.23	105	446930	10.44	PPBV	99
95)	m-DICHLOROBENZENE	16.41	146	278805	10.08	PPBV	100
96)	BENZYL CHLORIDE	16.42	91	316600	9.56	PPBV	99
97)	p-DICHLOROBENZENE	16.51	146	263452	9.67	PPBV	100
98)	sec-BUTYLBENZENE	16.55	134	135716	9.71	PPBV	99
99)	p-ISOPROPYLTOLUENE	16.74	134	139170	9.72	PPBV	98
100)	o-DICHLOROBENZENE	16.93	146	255380	9.67	PPBV	100
101)	n-BUTYLBENZENE	17.27	134	108519	9.68	PPBV	97
102)	HEXACHLOROETHANE	17.74	117	195215	9.07	PPBV	100
103)	HEXACHLOROBUTADIENE	19.57	225	121436	9.09	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	19.00	180	72704	7.92	PPBV	100
106)	NAPHTHALENE	19.13	128	116887	7.11	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35053.D M3W1350.M Thu Jul 25 10:28:48 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:28 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:47 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.29	128	110889	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.88	114	513599	10.00	PPBV	-0.08
68) CHLOROBENZENE-D5	13.03	82	225012	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	231217	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	242000	9.57	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.70%			
Target Compounds						Qvalue
3) FREON 152A	4.28	65	108344	10.68	PPBV	94
4) CHLORODIFLUOROMETHANE	4.31	67	34461	9.28	PPBV #	41
5) DICHLORODIFLUOROMETHANE	4.36	85	374179	9.42	PPBV	97
6) PROPYLENE	4.32	41	153165	12.15	PPBV	96
7) FREON 114	4.50	85	427560	10.18	PPBV	95
8) CHLOROMETHANE	4.46	50	203964	11.24	PPBV	97
9) VINYL CHLORIDE	4.58	62	200722	11.24	PPBV	99
10) 1,3-BUTADIENE	4.64	54	141680	11.01	PPBV	92
11) n-BUTANE	4.67	43	288268	11.37	PPBV	99
12) BROMOMETHANE	4.81	94	170438	10.16	PPBV	100
13) CHLOROETHANE	4.89	64	100278	10.92	PPBV	100
14) DICHLOROFLUOROMETHANE	4.94	67	369404	10.60	PPBV	99
15) ACETONITRILE	5.11	41	125198	12.79	PPBV	98
16) FREON 123	5.15	83	389074	10.07	PPBV	98
17) FREON 123A	5.19	117	217257	9.47	PPBV	89
18) TRICHLOROFLUOROMETHANE	5.32	101	340896	8.79	PPBV	100
19) ISOPROPYL ALCOHOL	5.36	45	291587	11.97	PPBV	94
20) ACETONE	5.23	58	85455	12.92	PPBV #	83
21) PENTANE	5.49	42	183164	11.17	PPBV	91
23) IODOMETHANE	5.66	142	430468	9.75	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.71	96	160540	10.18	PPBV	97
25) CARBON DISULFIDE	5.98	76	484289	10.92	PPBV	99
26) ETHANOL	4.96	45	67904	11.13	PPBV	97
27) BROMOETHENE	5.09	106	167447	9.72	PPBV	99
28) ACRYLONITRILE	5.52	52	99679	12.21	PPBV	93
29) METHYLENE CHLORIDE	5.79	84	147404	9.52	PPBV	98
30) 3-CHLOROPROPENE	5.85	76	74883	10.80	PPBV #	89
31) FREON 113	5.93	151	260243	9.68	PPBV	95
32) TRANS-1,2-DICHLOROETHYLENE	6.38	96	156945	10.44	PPBV	94
33) TERTIARY BUTYL ALCOHOL	5.71	59	336718	11.04	PPBV	94
34) METHYL TERTIARY BUTYL ETHE	6.53	73	398581	10.29	PPBV	98
35) TETRAHYDROFURAN	7.68	72	78430	11.56	PPBV	92
36) HEXANE	7.22	57	251719	10.92	PPBV	94
37) VINYL ACETATE	6.62	86	33770	10.97	PPBV	97
38) 1,1-DICHLOROETHANE	6.53	63	285356	9.92	PPBV	99
39) METHYL ETHYL KETONE	6.80	72	77533	11.38	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	7.17	96	158534	9.61	PPBV	95
41) DIISOPROPYL ETHER	7.23	45	565767	11.07	PPBV	98
42) ETHYL ACETATE	7.29	61	56079	11.60	PPBV	97
43) METHYL ACRYLATE	7.31	55	250649	10.97	PPBV	97
44) CHLOROFORM	7.37	83	287315	9.17	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.92	57	320264	10.46	PPBV	97
46) 1,1,1-TRICHLOROETHANE	8.16	97	276266	8.68	PPBV	99
47) CARBON TETRACHLORIDE	8.70	117	279979	8.49	PPBV	100
48) 1,2-DICHLOROETHANE	7.96	62	152160	8.93	PPBV	99
50) BENZENE	8.57	78	476542	9.04	PPBV	99
51) CYCLOHEXANE	8.74	84	251208	9.15	PPBV	92
52) 2,3-DIMETHYLPENTANE	8.92	71	116577	9.56	PPBV	97

(#) = qualifier out of range (m) = manual integration
3W36333.D M3W1350.M Tue Oct 08 10:24:29 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:47 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

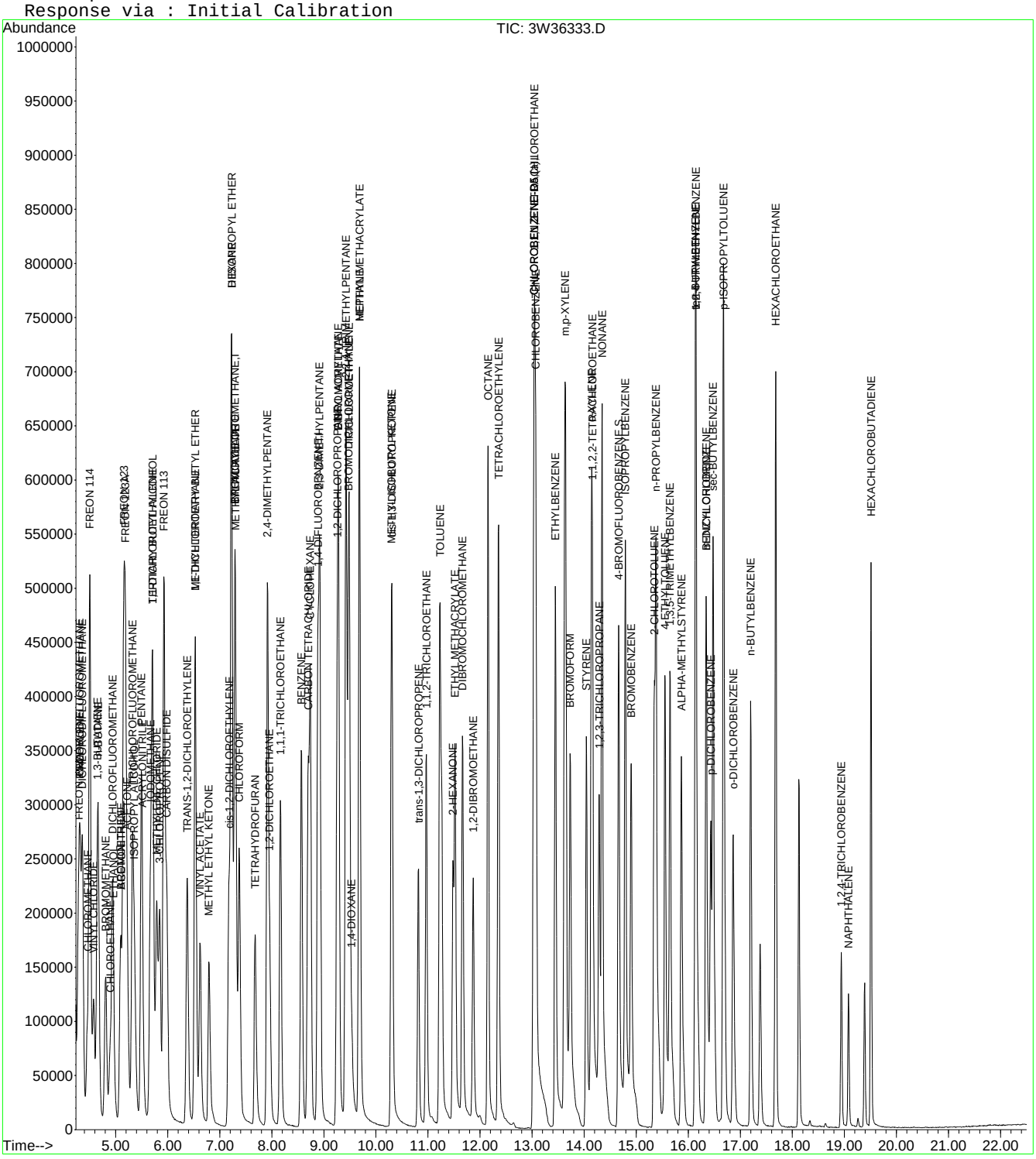
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.49	95	179913	8.73	PPBV	96
54)	1,2-DICHLOROPROPANE	9.25	63	188627	9.86	PPBV	95
55)	DIBROMOMETHANE	9.28	174	183461	8.87	PPBV	97
56)	ETHYL ACRYLATE	9.28	55	313424	10.43	PPBV	99
57)	BROMODICHLOROMETHANE	9.47	83	290558	8.56	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.42	57	840356	10.42	PPBV	99
59)	1,4-DIOXANE	9.53	88	89955	8.88	PPBV	93
60)	HEPTANE	9.68	43	297963	10.29	PPBV	98
62)	METHYL METHACRYLATE	9.69	69	159781	10.19	PPBV	95
63)	METHYL ISOBUTYL KETONE	10.29	58	126995	10.96	PPBV	98
64)	cis-1,3-DICHLOROPROPENE	10.31	75	250734	10.54	PPBV	94
65)	TOLUENE	11.22	92	298972	9.22	PPBV	99
66)	trans-1,3-DICHLOROPROPENE	10.82	75	193777	8.50	PPBV	98
67)	1,1,2-TRICHLOROETHANE	10.97	83	151744	9.35	PPBV	99
69)	2-HEXANONE	11.48	58	172357	12.94	PPBV	96
70)	ETHYL METHACRYLATE	11.52	69	258601	12.41	PPBV	97
71)	TETRACHLOROETHYLENE	12.36	164	197776	9.42	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.66	129	294803	9.88	PPBV	99
73)	1,2-DIBROMOETHANE	11.87	107	232268	10.26	PPBV	100
74)	OCTANE	12.16	43	398270	12.28	PPBV	95
75)	1,1,1,2-TETRACHLOROETHANE	13.05	131	212621	9.83	PPBV	96
76)	CHLOROBENZENE	13.07	112	345751	9.92	PPBV	98
77)	ETHYLBENZENE	13.45	91	565099	10.05	PPBV	99
78)	m,p-XYLENE	13.63	106	420004	19.77	PPBV	97
79)	o-XYLENE	14.14	106	211176	10.26	PPBV	96
80)	STYRENE	14.04	104	275127	8.87	PPBV	96
81)	NONANE	14.35	43	369030	12.75	PPBV	97
82)	BROMOFORM	13.73	173	243075	8.83	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.16	83	298855	9.88	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.29	75	222474	10.19	PPBV	96
86)	ISOPROPYLBENZENE	14.79	105	582692	9.58	PPBV	99
87)	BROMOBENZENE	14.90	77	250538	9.53	PPBV	96
88)	2-CHLOROTOLUENE	15.34	126	137376	9.59	PPBV	100
89)	n-PROPYLBENZENE	15.38	120	146880	10.21	PPBV	99
90)	4-ETHYLTOLUENE	15.55	105	418093	8.22	PPBV	98
91)	1,3,5-TRIMETHYLBENZENE	15.65	105	403253	9.28	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.87	118	175240	8.67	PPBV	99
93)	tert-BUTYLBENZENE	16.14	134	98295	9.20	PPBV	99
94)	1,2,4-TRIMETHYLBENZENE	16.15	105	356896	9.45	PPBV	96
95)	m-DICHLOROBENZENE	16.34	146	215274	8.82	PPBV	99
96)	BENZYL CHLORIDE	16.35	91	251807	8.61	PPBV	100
97)	p-DICHLOROBENZENE	16.43	146	205534	8.55	PPBV	99
98)	sec-BUTYLBENZENE	16.48	134	107592	8.73	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.68	134	108626	8.60	PPBV	100
100)	o-DICHLOROBENZENE	16.86	146	194792	8.36	PPBV	100
101)	n-BUTYLBENZENE	17.20	134	84673	8.56	PPBV	95
102)	HEXACHLOROETHANE	17.68	117	184670	9.73	PPBV	95
103)	HEXACHLOROBUTADIENE	19.51	225	118305	10.03	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	18.94	180	69581	8.59	PPBV	97
106)	NAPHTHALENE	19.08	128	121543	8.16	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36333.D M3W1350.M Tue Oct 08 10:24:29 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50276

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44075.D Vial: 2
Acq On : 14 Oct 2013 7:02 pm Operator: danat
Sample : ic1765-0.04 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:32:10 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:30:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

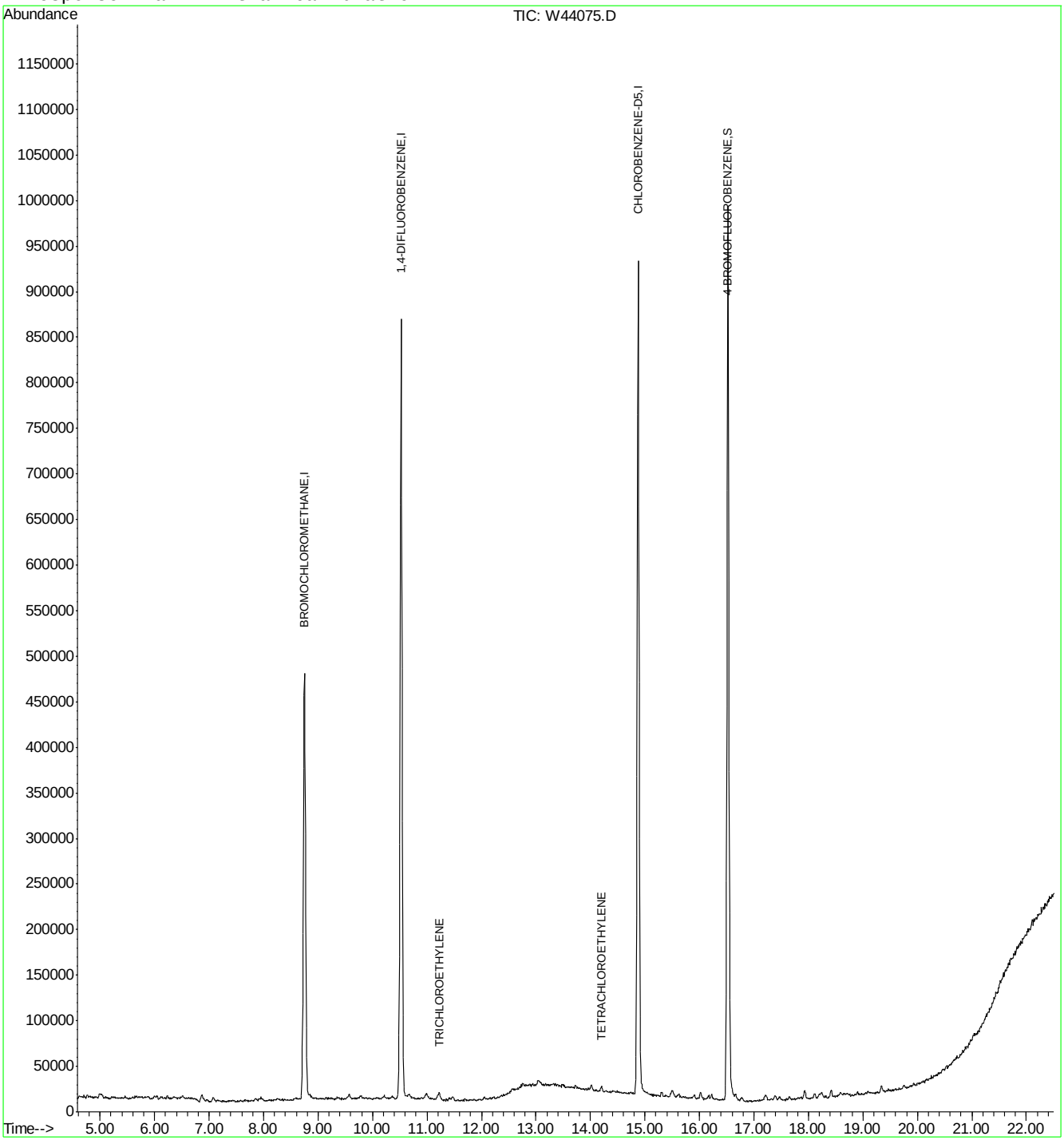
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	208494	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	1033789	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	422361	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	493364	9.97	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.70%			
Target Compounds						Qvalue
54) TRICHLOROETHYLENE	11.22	95	1712	0.05	PPBV	91
72) TETRACHLOROETHYLENE	14.20	164	1770	0.05	PPBV	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44075.D Vial: 2
Acq On : 14 Oct 2013 7:02 pm Operator: danat
Sample : ic1765-0.04 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:38 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 10/18/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:39:21 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	206945	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	1035480	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	424821	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	503209	9.98	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.80%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.76	85	6766	0.12	PPBV	98
7) FREON 114	4.99	85	7106	0.12	PPBV	93
9) VINYL CHLORIDE	5.11	62	2665	0.11	PPBV	93
10) 1,3-BUTADIENE	5.22	54	2438	0.13	PPBV #	61
12) BROMOMETHANE	5.46	94	2600	0.11	PPBV #	77
13) CHLOROETHANE	5.59	64	1433	0.10	PPBV	77
16) FREON 123	5.99	83	6419	0.12	PPBV #	87
17) FREON 123A	6.04	117	4142	0.12	PPBV	82
18) TRICHLOROFLUOROMETHANE	6.23	101	6417	0.11	PPBV	94
24) IODOMETHANE	6.72	142	6946	0.11	PPBV	99
26) CARBON DISULFIDE	7.16	76	7827	0.11	PPBV #	82
29) BROMOETHENE	5.89	106	2750	0.11	PPBV #	92
31) 3-CHLOROPROPENE	6.96	76	1334	0.12	PPBV #	87
32) FREON 113	7.08	151	5289	0.12	PPBV	97
35) METHYL TERTIARY BUTYL ETHE	7.94	73	8409	0.12	PPBV	91
36) TETRAHYDROFURAN	9.35	72	1353	0.11	PPBV #	55
38) VINYL ACETATE	7.96	86	774	0.12	PPBV #	85
39) 1,1-DICHLOROETHANE	7.85	63	4934	0.11	PPBV	93
40) METHYL ETHYL KETONE	8.25	72	1364	0.11	PPBV #	78
42) DI-ISOPROPYL ETHER	8.77	45	10148	0.12	PPBV	97
43) ETHYL ACETATE	8.80	61	782	0.10	PPBV #	1
44) METHYL ACRYLATE	8.80	55	5066	0.11	PPBV #	84
45) CHLOROFORM	8.85	83	6084	0.12	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.57	57	6026	0.13	PPBV	97
47) 1,1,1-TRICHLOROETHANE	9.78	97	6257	0.13	PPBV	92
48) CARBON TETRACHLORIDE	10.36	117	5780	0.12	PPBV	97
49) 1,2-DICHLOROETHANE	9.55	62	3369	0.11	PPBV	91
51) BENZENE	10.23	78	9433	0.12	PPBV	96
54) TRICHLOROETHYLENE	11.21	95	3979	0.12	PPBV	91
55) DIBROMOMETHANE	10.97	174	3816	0.11	PPBV	91
56) 1,2-DICHLOROPROPANE	10.99	63	3559	0.12	PPBV	90
57) ETHYL ACRYLATE	10.99	55	5688	0.11	PPBV #	94
58) BROMODICHLOROMETHANE	11.18	83	5982	0.12	PPBV	98
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	13937	0.11	PPBV	89
64) METHYL ISOBUTYL KETONE	12.14	43	5236	0.11	PPBV	90
65) cis-1,3-DICHLOROPROPENE	12.05	75	5228	0.12	PPBV	93
66) TOLUENE	13.03	92	6058	0.11	PPBV	88
67) trans-1,3-DICHLOROPROPENE	12.57	75	4503	0.12	PPBV	81
68) 1,1,2-TRICHLOROETHANE	12.77	83	3352	0.13	PPBV	95
72) TETRACHLOROETHYLENE	14.20	164	4603	0.12	PPBV	98
74) 1,2-DIBROMOETHANE	13.74	107	4784	0.12	PPBV #	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:39:21 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

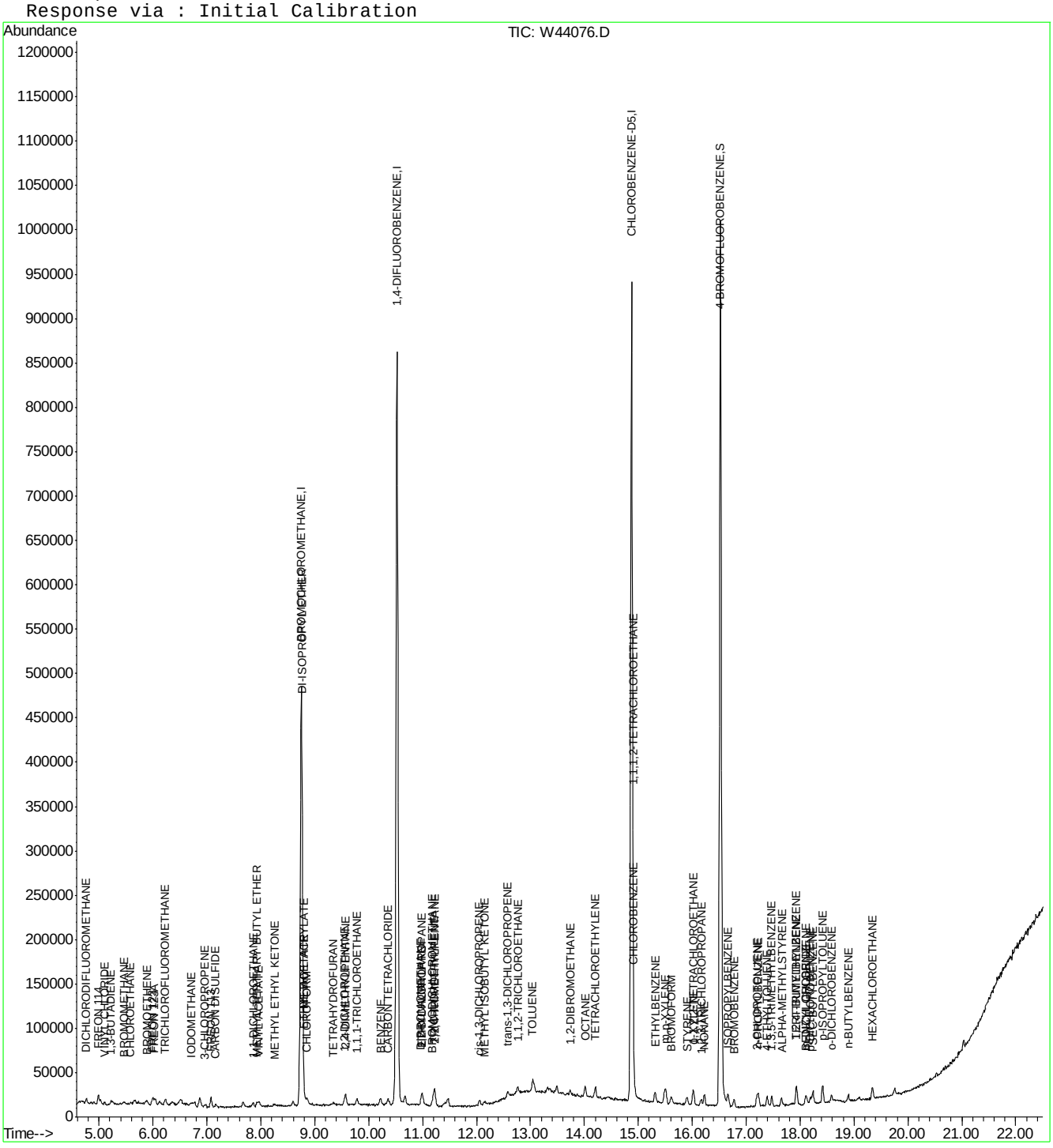
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	OCTANE	14.01	43	6427	0.12	PPBV	#	85
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	4375	0.12	PPBV	#	87
77)	CHLOROBENZENE	14.92	112	7849	0.12	PPBV	#	45
78)	ETHYLBENZENE	15.31	91	12416	0.12	PPBV		97
79)	m,p-XYLENE	15.49	106	9291	0.23	PPBV		87
80)	o-XYLENE	16.02	106	4451	0.12	PPBV		91
81)	STYRENE	15.90	104	6962	0.12	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.17	75	4829	0.13	PPBV		93
83)	NONANE	16.23	43	6045	0.12	PPBV		93
84)	BROMOFORM	15.61	173	5096	0.11	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	6042	0.13	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	13365	0.12	PPBV		96
88)	BROMOBENZENE	16.78	156	3810	0.11	PPBV		95
89)	2-CHLOROTOLUENE	17.20	126	3227	0.12	PPBV	#	97
90)	n-PROPYLBENZENE	17.23	120	3108	0.11	PPBV		86
91)	4-ETHYLTOLUENE	17.39	105	9987	0.11	PPBV		97
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	9121	0.12	PPBV		97
93)	ALPHA-METHYLSTYRENE	17.66	118	4091	0.11	PPBV		87
94)	TERT-BUTYLBENZENE	17.93	134	2428	0.11	PPBV		89
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	8040	0.11	PPBV		91
96)	m-DICHLOROBENZENE	18.12	146	4423m	0.10	PPBV		
97)	BENZYL CHLORIDE	18.11	91	4964	0.11	PPBV		98
98)	p-DICHLOROBENZENE	18.19	146	4454	0.10	PPBV		98
99)	SEC-BUTYLBENZENE	18.23	134	2788	0.11	PPBV	#	94
100)	p-ISOPROPYLTOLUENE	18.41	134	2512	0.11	PPBV		87
101)	o-DICHLOROBENZENE	18.58	146	4443	0.11	PPBV		88
102)	n-BUTYLBENZENE	18.89	134	1953	0.11	PPBV		86
103)	HEXACHLOROETHANE	19.34	201	3329	0.11	PPBV	#	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:42 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Manual Integration Approval Summary

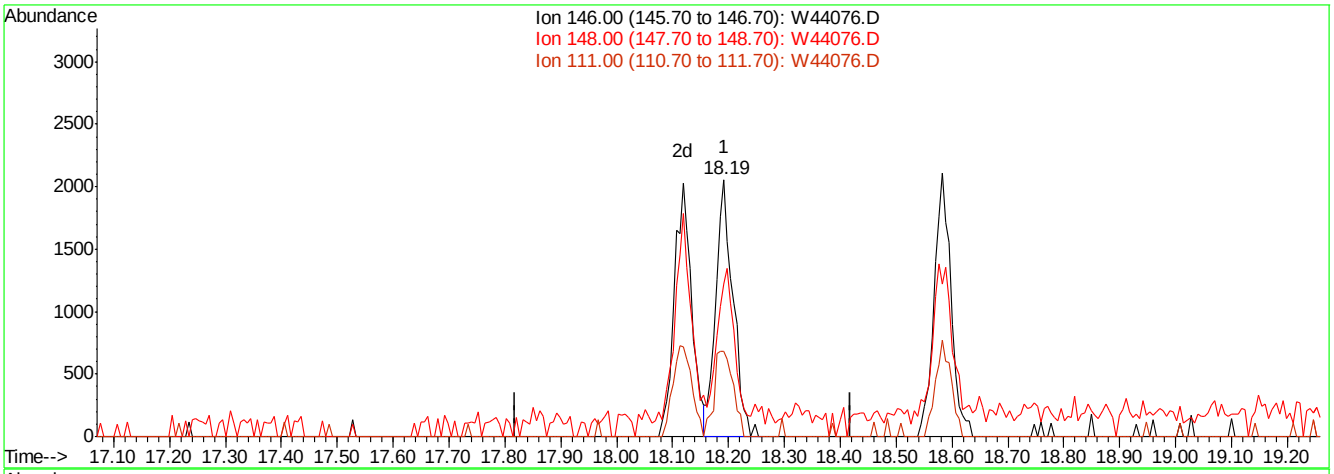
Sample Number:	VW1765-IC1765	**Method:**	TO-15
Lab FileID:	W44076.D	**Analyst approved:**	10/16/13 09:33 Dana Tryon
Injection Time:	10/14/13 19:42	**Supervisor approved:**	10/18/13 14:19 Jessica Reitan-Chu

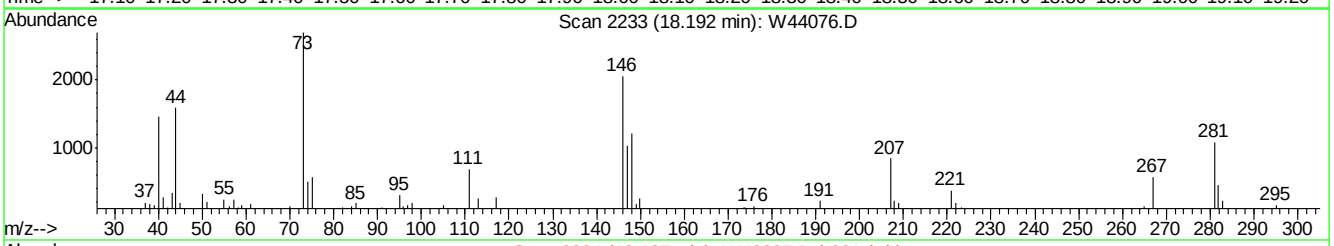
Parameter	CAS	Sig#	R.T. (min.)	Reason
m-Dichlorobenzene	541-73-1		18.12	Missed peak

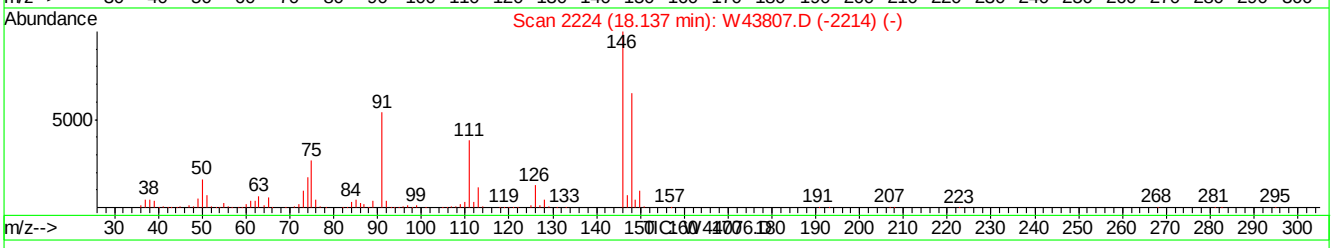
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:41 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Multiple Level Calibration







(96) m-DICHLOROBENZENE

18.19min 0.10PPBV

response 4454

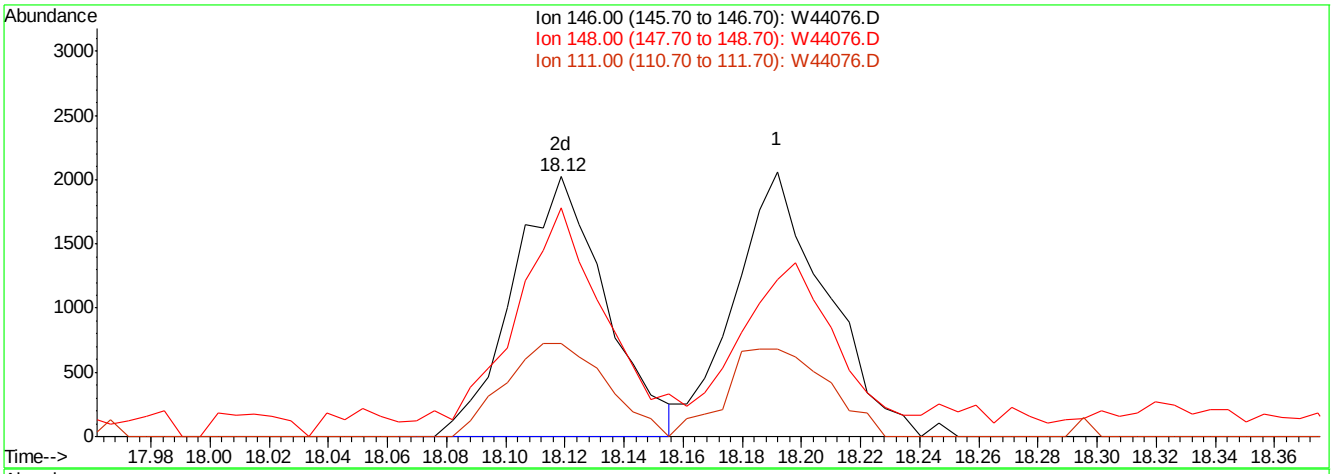
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	70.95
111.00	35.50	36.80
0.00	0.00	0.00

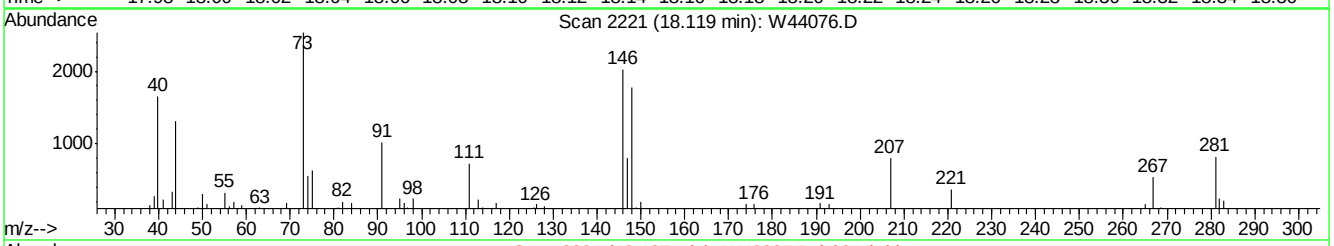
W44076.D MW1765.M Tue Oct 15 17:42:16 2013 MSW

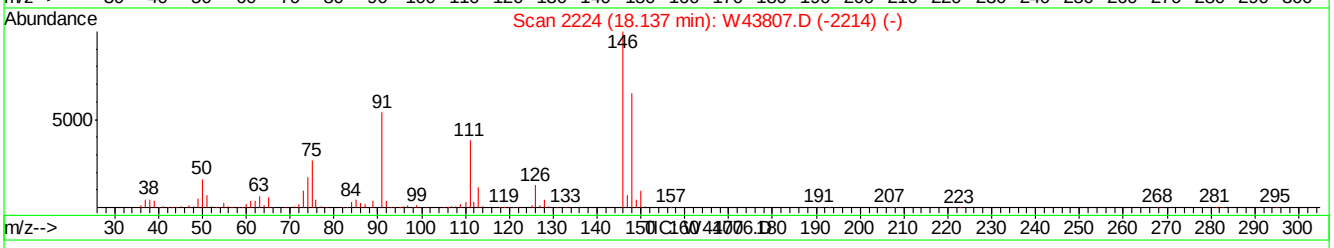
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:42 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Multiple Level Calibration







(96) m-DICHLOROBENZENE

18.12min 0.10PPBV m

response 4423

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	71.44
111.00	35.50	37.06
0.00	0.00	0.00

W44076.D MW1765.M Tue Oct 15 17:42:23 2013 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 10/18/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27:03 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.80	128	257782	10.00	PPBV	0.03
50) 1,4-DIFLUOROBENZENE	10.56	114	1332577	10.00	PPBV	0.02
69) CHLOROBENZENE-D5	14.89	82	565963	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	677871	10.31	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.10%			
Target Compounds						Qvalue
3) FREON 152A	4.71	65	4897	0.25	PPBV #	81
4) CHLORODIFLUOROMETHANE	4.76	67	1856m	0.25	PPBV	
5) DICHLORODIFLUOROMETHANE	4.84	85	14813	0.20	PPBV	97
6) PROPYLENE	4.79	41	7161	0.29	PPBV	91
7) FREON 114	5.07	85	15415	0.20	PPBV	95
8) CHLOROMETHANE	4.98	52	2177m	0.24	PPBV	
9) VINYL CHLORIDE	5.19	62	6304	0.20	PPBV	97
10) 1,3-BUTADIENE	5.30	54	5461	0.22	PPBV	93
11) n-BUTANE	5.35	58	1477	0.22	PPBV #	95
12) BROMOMETHANE	5.54	94	5730	0.19	PPBV	94
13) CHLOROETHANE	5.68	64	3567	0.20	PPBV	97
14) DICHLOROFLUOROMETHANE	5.74	67	13411	0.20	PPBV #	89
15) ACROLEIN	6.08	56	3597m	0.28	PPBV	
16) FREON 123	6.07	83	14305	0.20	PPBV #	69
17) FREON 123A	6.12	117	9017	0.19	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.30	101	14872	0.20	PPBV	99
19) ISOPROPYL ALCOHOL	6.49	45	9363	0.20	PPBV	78
20) ACETONE	6.19	58	5793	0.34	PPBV #	82
21) ACRYLONITRILE	6.57	53	5160	0.22	PPBV	95
22) PENTANE	6.58	57	1827m	0.20	PPBV	
24) IODOMETHANE	6.80	142	16112	0.19	PPBV	98
25) 1,1-DICHLOROETHYLENE	6.84	96	6357	0.20	PPBV	95
26) CARBON DISULFIDE	7.22	76	17910	0.19	PPBV	98
27) ETHANOL	5.86	45	2914m	0.23	PPBV	
28) ACETONITRILE	5.97	41	5691m	0.24	PPBV	
29) BROMOETHENE	5.97	106	5981	0.19	PPBV #	96
30) METHYLENE CHLORIDE	6.93	84	11430	0.34	PPBV	97
31) 3-CHLOROPROPENE	7.04	76	2500	0.17	PPBV #	55
32) FREON 113	7.14	151	11633	0.20	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.73	96	6473	0.19	PPBV	97
34) TERTIARY BUTYL ALCOHOL	7.04	59	7843m	0.17	PPBV	
35) METHYL TERTIARY BUTYL ETHE	7.98	73	16411	0.18	PPBV	76
36) TETRAHYDROFURAN	9.39	72	3157	0.19	PPBV #	83
37) HEXANE	8.81	57	11758	0.22	PPBV	97
38) VINYL ACETATE	8.03	86	1388	0.17	PPBV #	1
39) 1,1-DICHLOROETHANE	7.91	63	11233	0.19	PPBV	96
40) METHYL ETHYL KETONE	8.28	72	3071	0.19	PPBV #	68
41) cis-1,2-DICHLOROETHYLENE	8.65	96	6638	0.20	PPBV	92
42) DI-ISOPROPYL ETHER	8.82	45	20929	0.18	PPBV	97
43) ETHYL ACETATE	8.84	61	1672	0.16	PPBV #	1
44) METHYL ACRYLATE	8.83	55	10268	0.18	PPBV	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27:03 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.91	83	12271	0.19	PPBV		95
46)	2,4-DIMETHYLPENTANE	9.61	57	12479	0.20	PPBV		95
47)	1,1,1-TRICHLOROETHANE	9.82	97	11211	0.17	PPBV		96
48)	CARBON TETRACHLORIDE	10.39	117	10145	0.16	PPBV		99
49)	1,2-DICHLOROETHANE	9.59	62	7271	0.19	PPBV		99
51)	BENZENE	10.25	78	20987	0.20	PPBV		100
52)	CYCLOHEXANE	10.51	84	10187	0.21	PPBV	#	68
53)	2,3-DIMETHYLPENTANE	10.71	71	5100	0.21	PPBV		95
54)	TRICHLOROETHYLENE	11.24	95	8827	0.20	PPBV		93
55)	DIBROMOMETHANE	11.01	174	8747	0.19	PPBV		94
56)	1,2-DICHLOROPROPANE	11.03	63	7076	0.18	PPBV		99
57)	ETHYL ACRYLATE	11.03	55	12826	0.19	PPBV	#	91
58)	BROMODICHLOROMETHANE	11.21	83	11979	0.18	PPBV		96
59)	2,2,4-TRIMETHYLPENTANE	11.25	57	32168	0.19	PPBV		97
60)	1,4-DIOXANE	11.49	88	2177	0.11	PPBV	#	1
61)	METHYL METHACRYLATE	11.45	69	6523	0.18	PPBV	#	78
62)	HEPTANE	11.49	43	11857	0.20	PPBV		97
64)	METHYL ISOBUTYL KETONE	12.19	43	9072	0.14	PPBV		86
65)	cis-1,3-DICHLOROPROPENE	12.08	75	9790	0.17	PPBV		93
66)	TOLUENE	13.06	92	14647	0.19	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.60	75	7482	0.15	PPBV		97
68)	1,1,2-TRICHLOROETHANE	12.78	83	6669	0.20	PPBV		98
70)	ETHYL METHACRYLATE	13.34	69	9130	0.17	PPBV	#	97
71)	2-HEXANONE	13.40	43	8420	0.16	PPBV		93
72)	TETRACHLOROETHYLENE	14.21	164	10012	0.19	PPBV		97
73)	DIBROMOCHLOROMETHANE	13.50	129	11217	0.16	PPBV		98
74)	1,2-DIBROMOETHANE	13.76	107	9089	0.16	PPBV		97
75)	OCTANE	14.03	43	14495	0.18	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.92	131	8174	0.16	PPBV	#	100
77)	CHLOROBENZENE	14.94	112	17830	0.19	PPBV		94
78)	ETHYLBENZENE	15.32	91	28636	0.19	PPBV		99
79)	m,p-XYLENE	15.51	106	21768	0.37	PPBV		98
80)	o-XYLENE	16.03	106	10339	0.19	PPBV		98
81)	STYRENE	15.91	104	15374	0.19	PPBV		97
82)	1,2,3-TRICHLOROPROPANE	16.17	75	9628	0.18	PPBV		99
83)	NONANE	16.23	43	12667	0.18	PPBV		96
84)	BROMOFORM	15.62	173	9260	0.15	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	12513	0.19	PPBV		100
87)	ISOPROPYLBENZENE	16.67	105	30721	0.19	PPBV		98
88)	BROMOBENZENE	16.79	156	9034	0.19	PPBV		95
89)	2-CHLOROTOLUENE	17.20	126	6979	0.19	PPBV	#	98
90)	n-PROPYLBENZENE	17.23	120	7599	0.19	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	24059	0.19	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	21920	0.20	PPBV		96
93)	ALPHA-METHYLSTYRENE	17.66	118	9500	0.19	PPBV		96
94)	TERT-BUTYLBENZENE	17.94	134	5858	0.19	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	19351	0.19	PPBV		94
96)	m-DICHLOROBENZENE	18.12	146	11485	0.20	PPBV		96
97)	BENZYL CHLORIDE	18.11	91	9189	0.17	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27:03 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

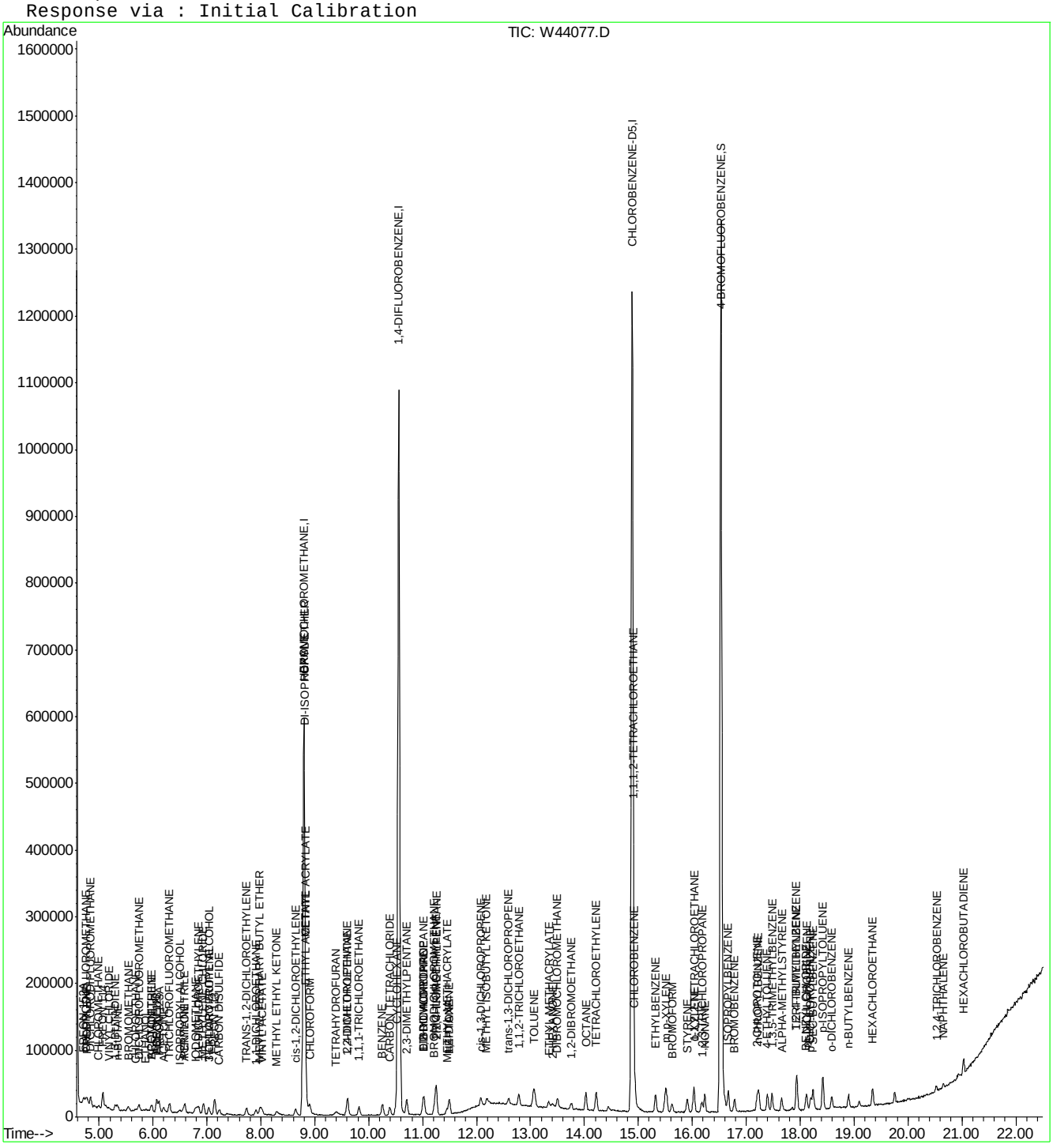
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	11131	0.20	PPBV	97
99)	SEC-BUTYLBENZENE	18.24	134	6400	0.20	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.41	134	6574	0.22	PPBV	95
101)	o-DICHLOROBENZENE	18.59	146	10666	0.20	PPBV	92
102)	n-BUTYLBENZENE	18.90	134	4507	0.22	PPBV	98
103)	HEXACHLOROETHANE	19.35	201	5513	0.14	PPBV	90
104)	HEXACHLOROBUTADIENE	21.03	225	5656	0.35	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	2910	0.31	PPBV	93
106)	NAPHTHALENE	20.65	128	6701	0.36	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:17 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration



Manual Integration Approval Summary

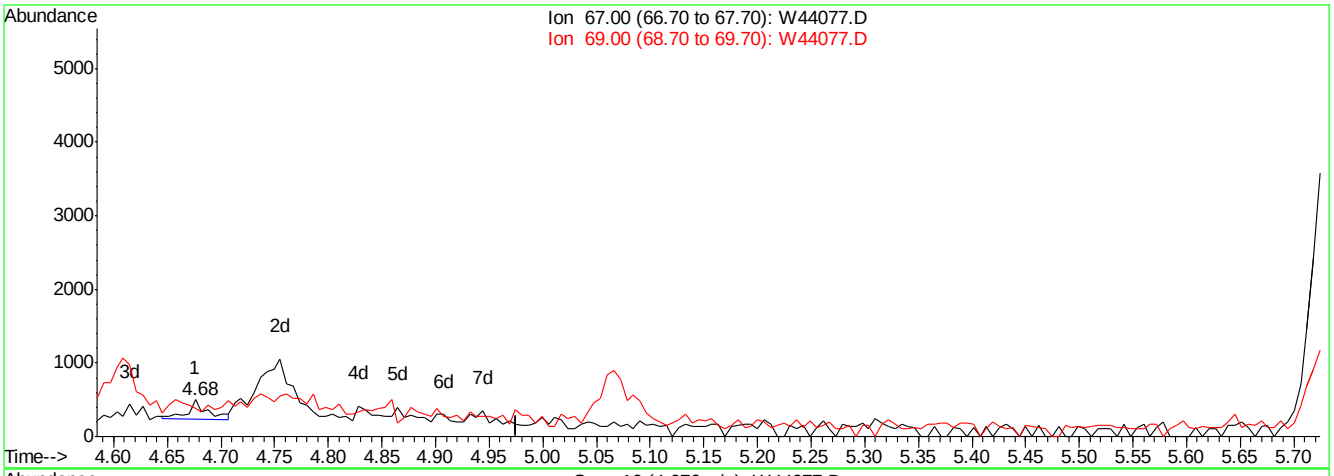
Sample Number:	VW1765-IC1765	**Method:**	TO-15
Lab FileID:	W44077.D	**Analyst approved:**	10/18/13 09:25 Dana Tryon
Injection Time:	10/15/13 08:51	**Supervisor approved:**	10/18/13 14:19 Jessica Reitan-Chu

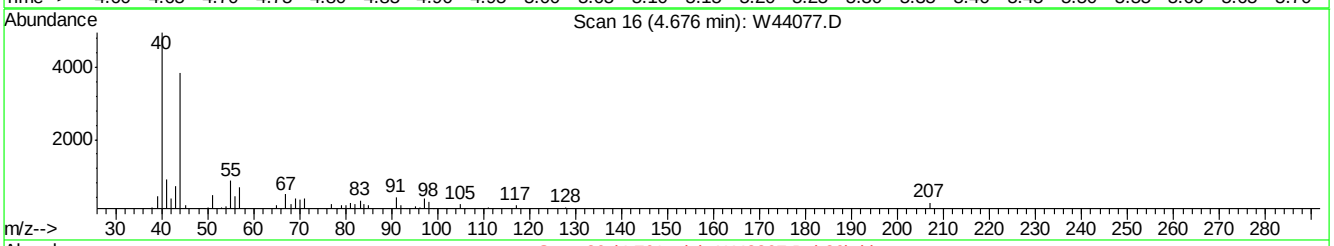
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		4.76	Missed peak
Chloromethane	74-87-3		4.98	Missed peak
Ethanol	64-17-5		5.86	Missed peak
Acetonitrile	75-05-8		5.97	Missed peak
Acrolein	107-02-8		6.08	Missed peak
Pentane	109-66-0		6.58	Missed peak
Tertiary Butyl Alcohol	75-65-0		7.04	Missed peak

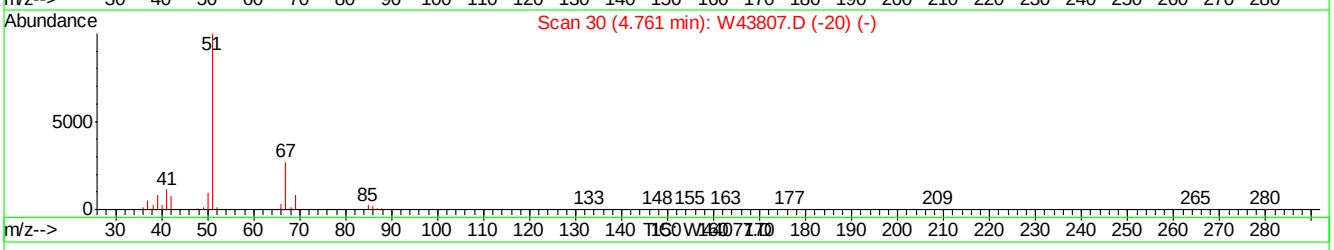
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(4) CHLORODIFLUOROMETHANE

4.68min 0.04PPBV

response 318

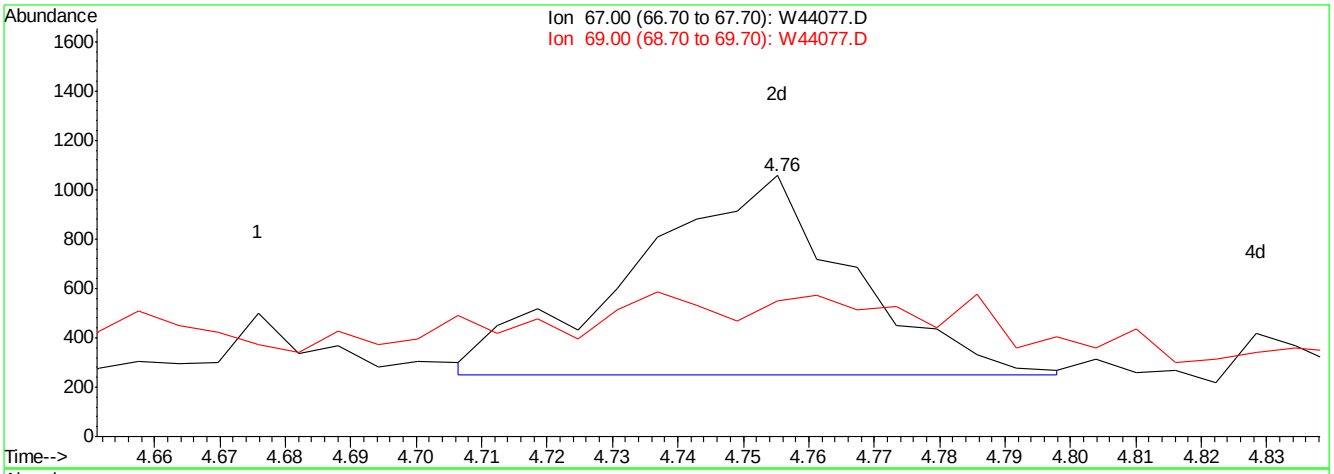
Ion	Exp%	Act%
67.00	100	100
69.00	33.10	72.96#
0.00	0.00	0.00
0.00	0.00	0.00

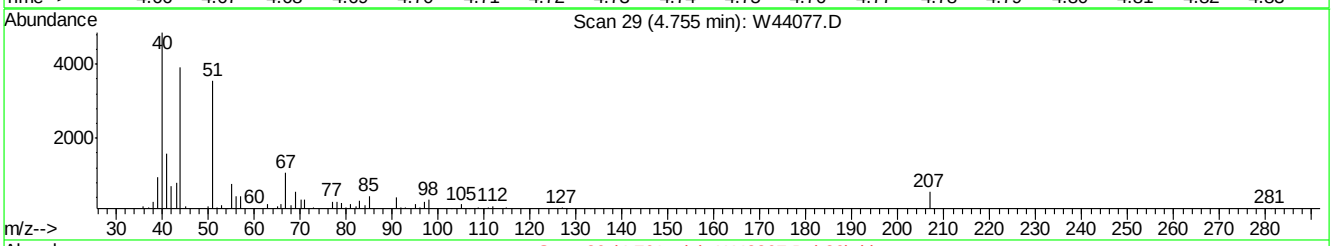
W44077.D MW1765.M Tue Oct 15 11:27:23 2013 MSW

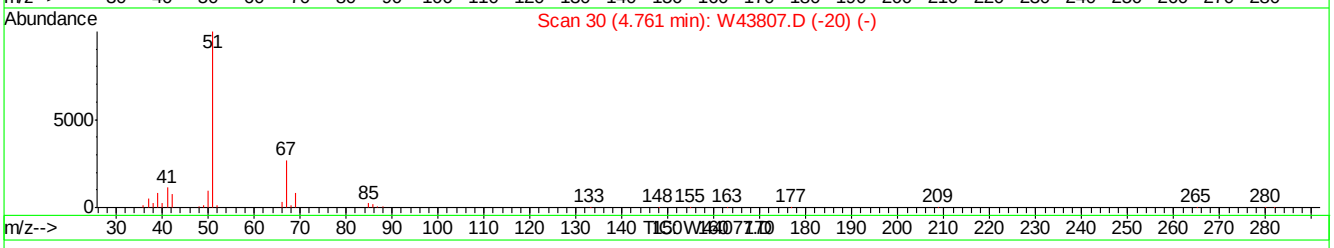
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(4) CHLORODIFLUOROMETHANE

4.76min 0.25PPBV m

response 1856

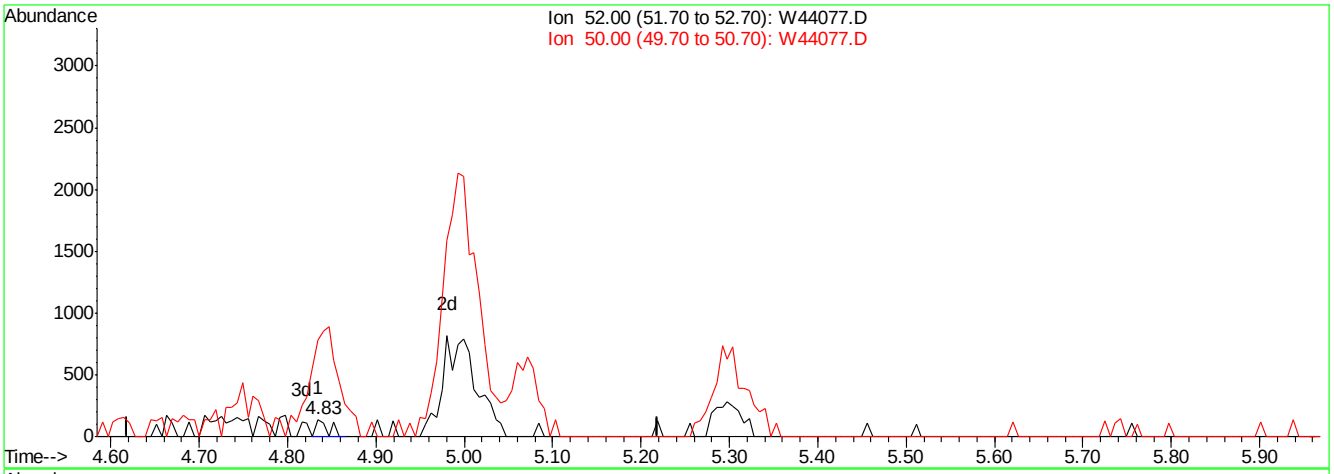
Ion	Exp%	Act%
67.00	100	100
69.00	33.10	12.50#
0.00	0.00	0.00
0.00	0.00	0.00

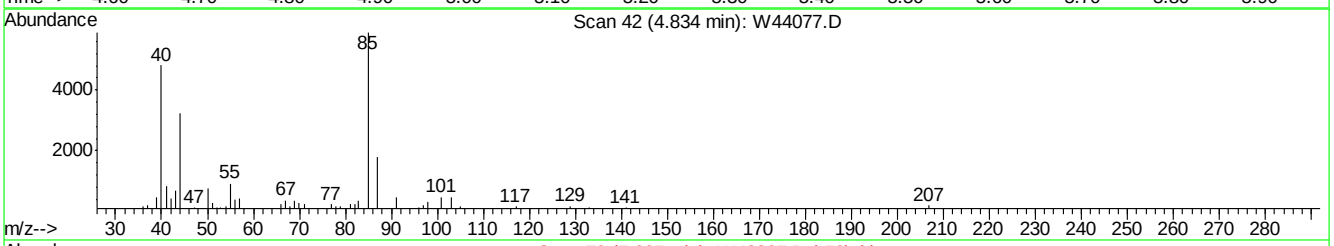
W44077.D MW1765.M Tue Oct 15 11:27:46 2013 MSW

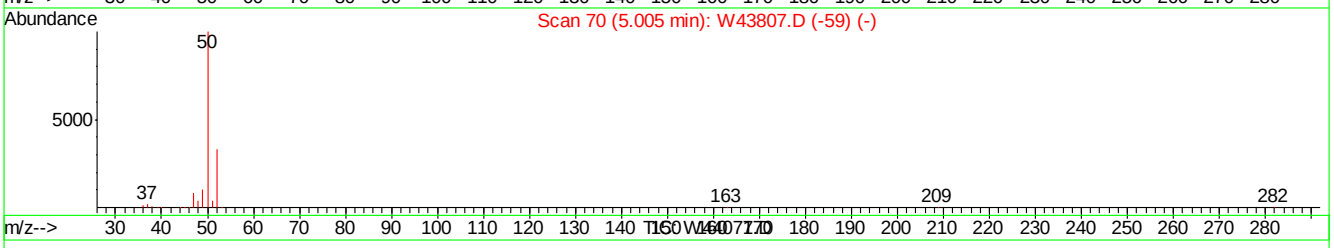
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.83min 0.02PPBV

response 134

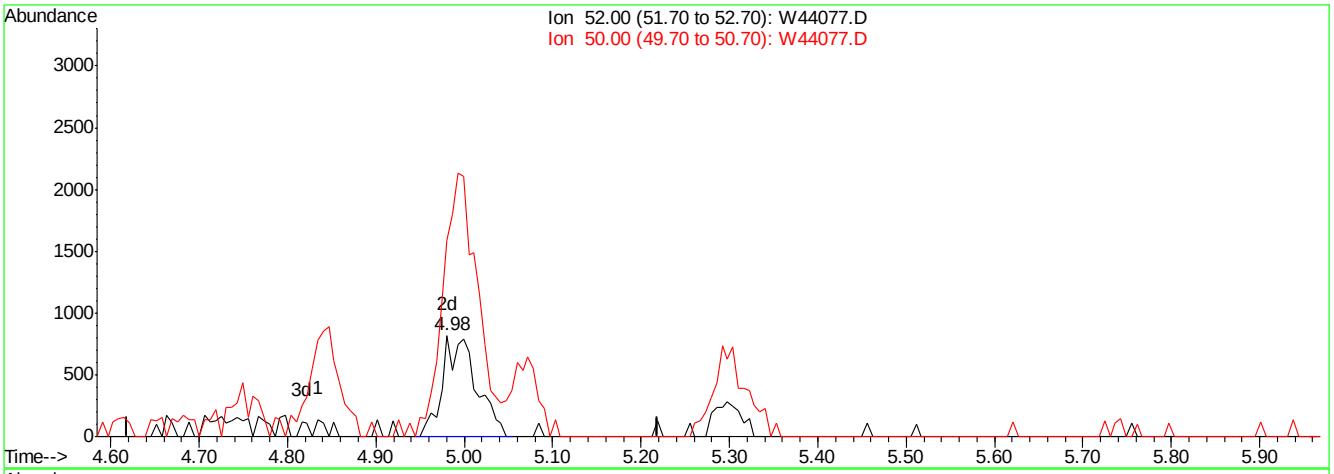
Ion	Exp%	Act%
52.00	100	100
50.00	263.60	268.98
0.00	0.00	0.00
0.00	0.00	0.00

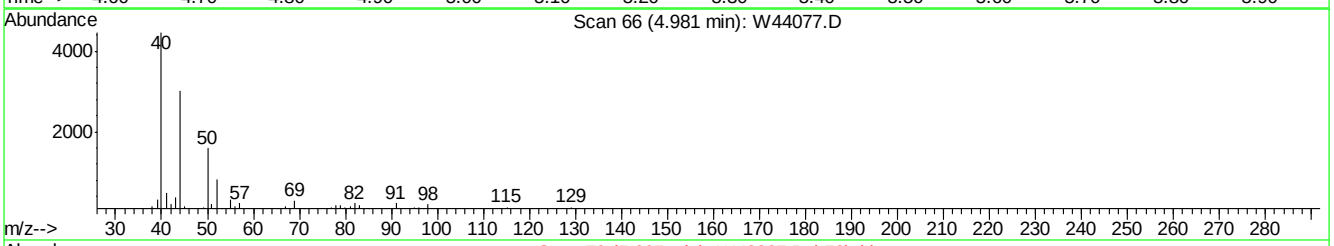
W44077.D MW1765.M Tue Oct 15 11:27:54 2013 MSW

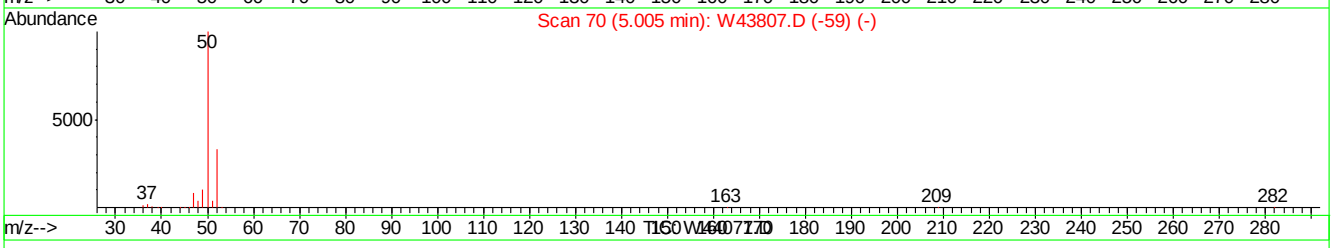
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.98min 0.24PPBV m

response 2177

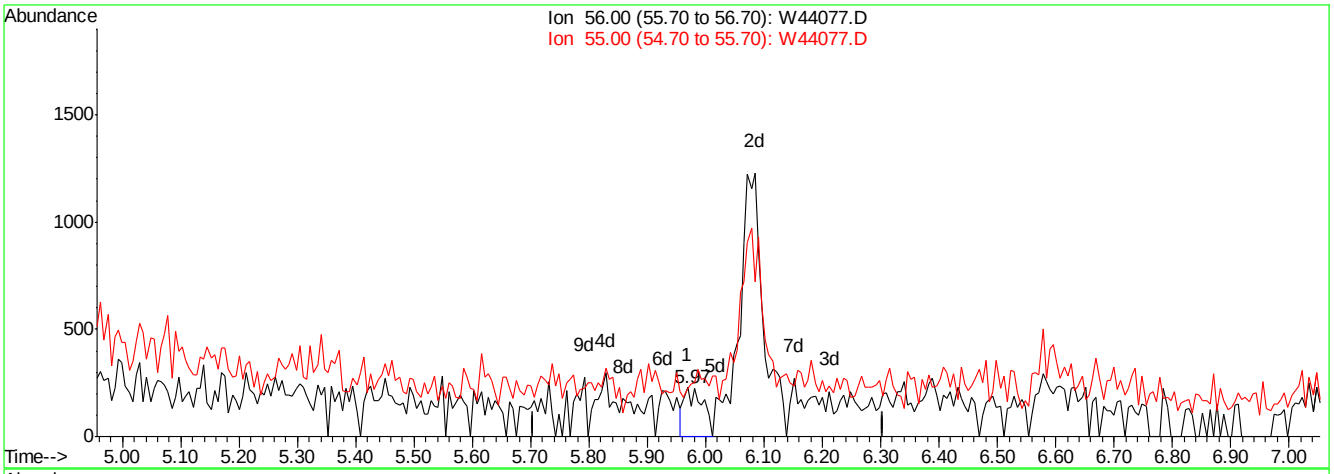
Ion	Exp%	Act%
52.00	100	100
50.00	263.60	194.37#
0.00	0.00	0.00
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:28:00 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(15) ACROLEIN

5.97min 0.04PPBV

response 494

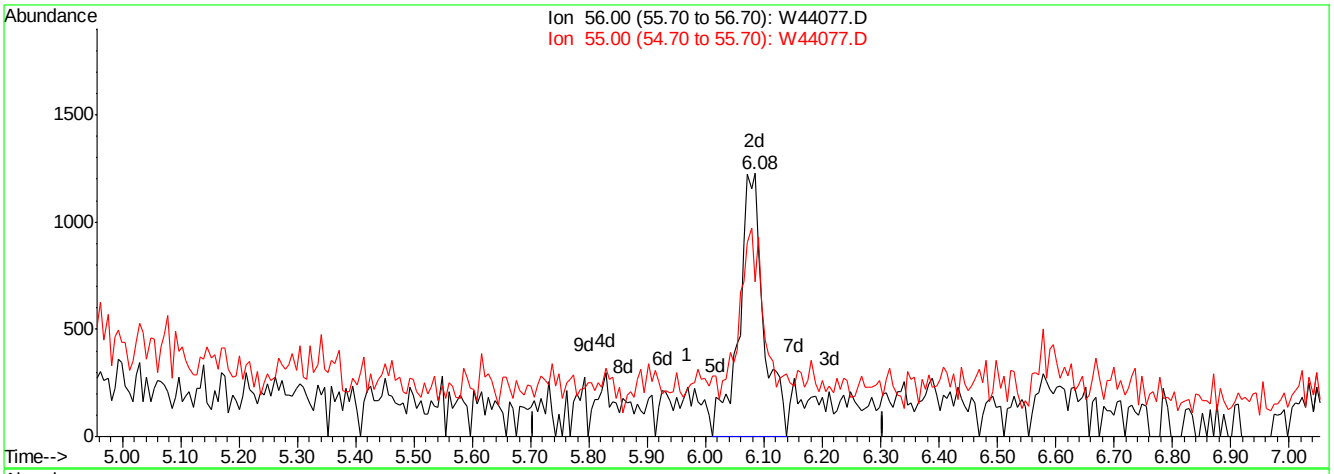
Ion	Exp%	Act%
56.00	100	100
55.00	71.00	61.54
0.00	0.00	0.00
0.00	0.00	0.00

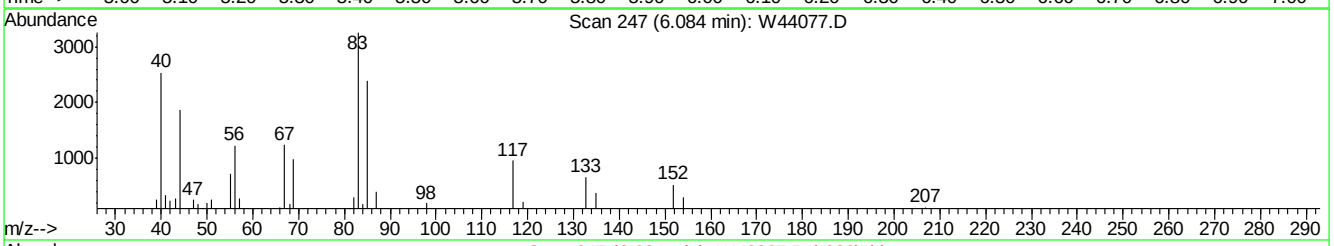
W44077.D MW1765.M Tue Oct 15 11:28:13 2013 MSW

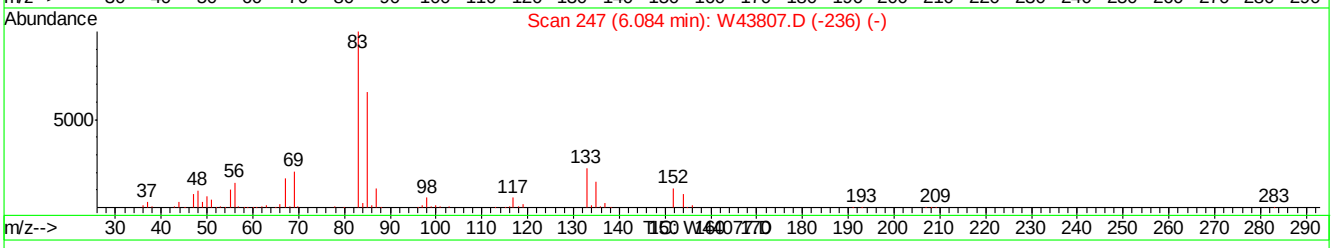
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:28 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(15) ACROLEIN

6.08min 0.28PPBV m

response 3597

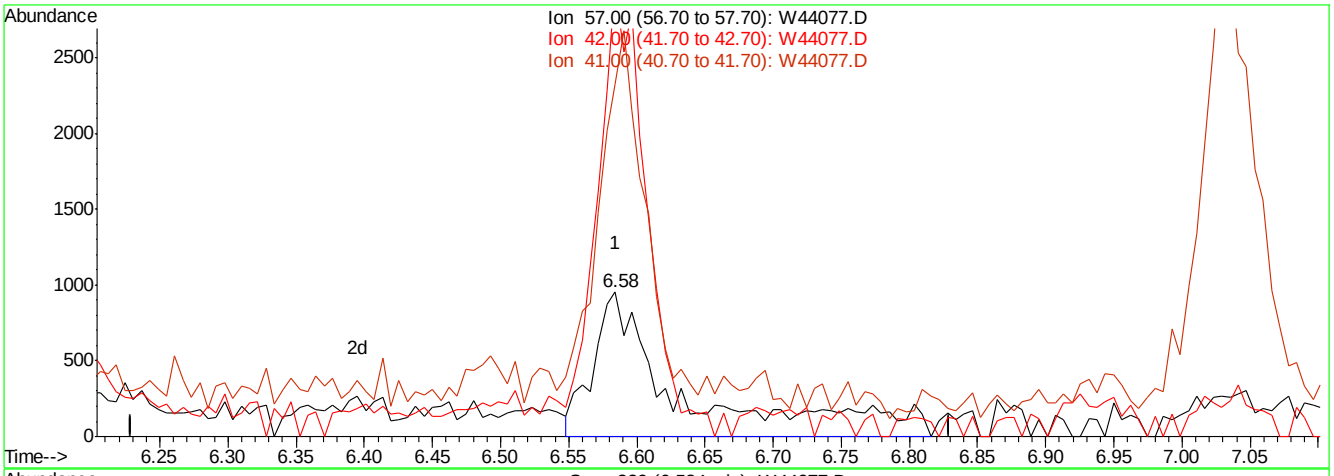
Ion	Exp%	Act%
56.00	100	100
55.00	71.00	8.45#
0.00	0.00	0.00
0.00	0.00	0.00

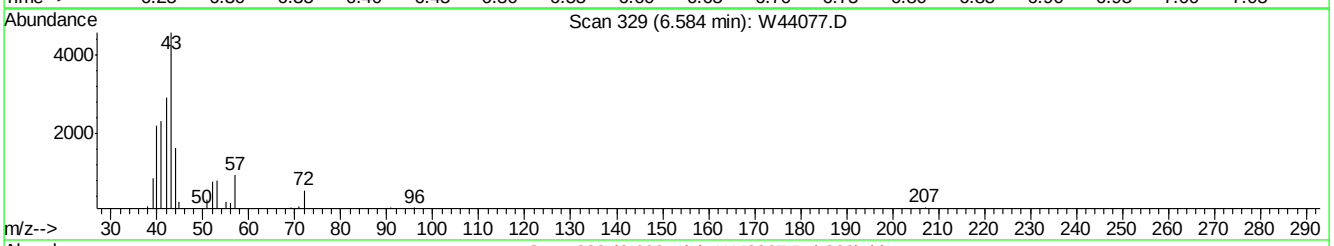
W44077.D MW1765.M Tue Oct 15 11:28:20 2013 MSW

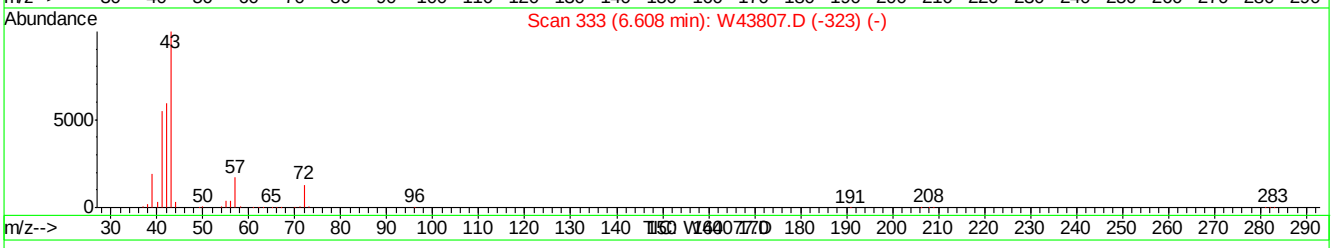
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:28 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(22) PENTANE

6.58min 0.47PPBV

response 4296

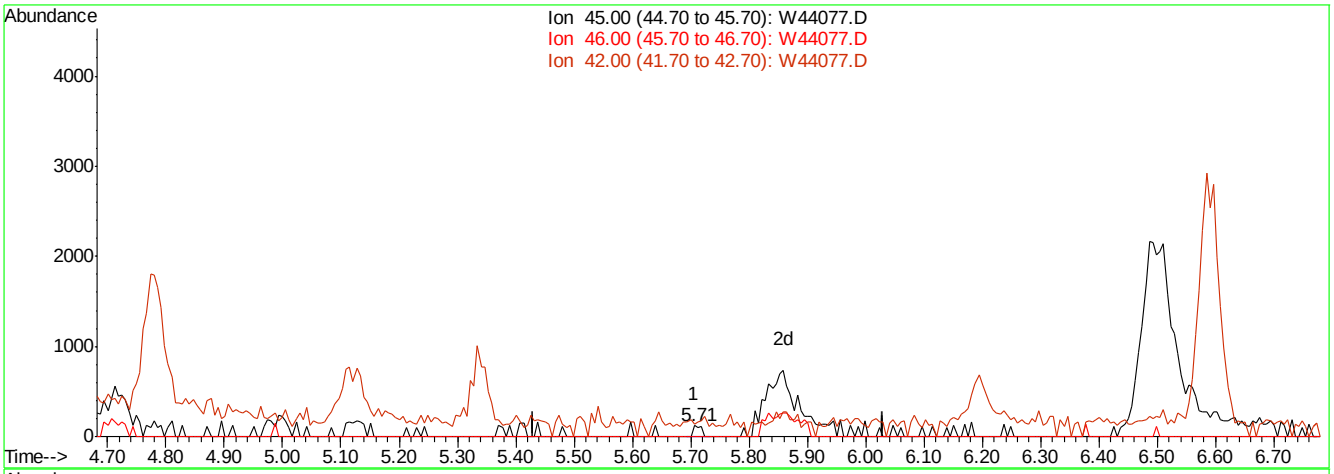
Ion	Exp%	Act%
57.00	100	100
42.00	372.70	178.56#
41.00	306.00	139.20#
0.00	0.00	0.00

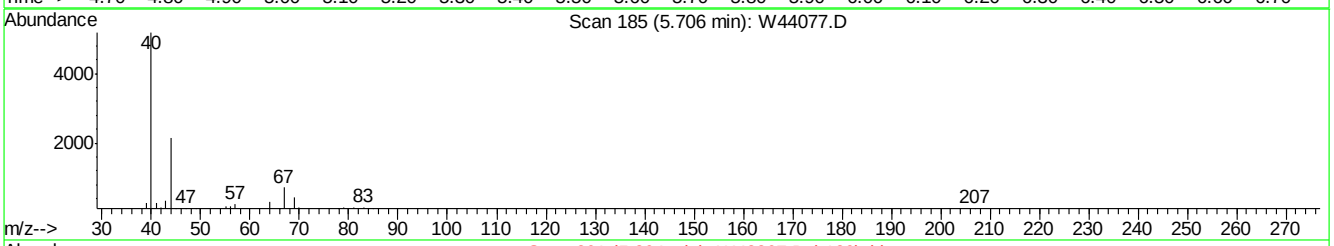
W44077.D MW1765.M Tue Oct 15 11:28:38 2013 MSW

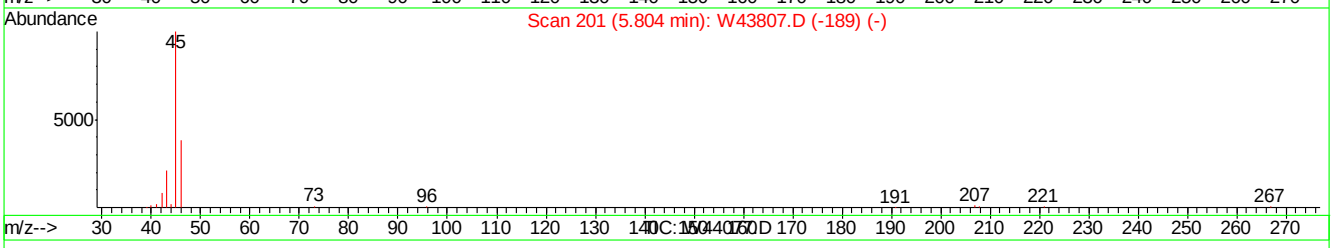
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:28 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(27) ETHANOL

5.71min 0.01PPBV

response 122

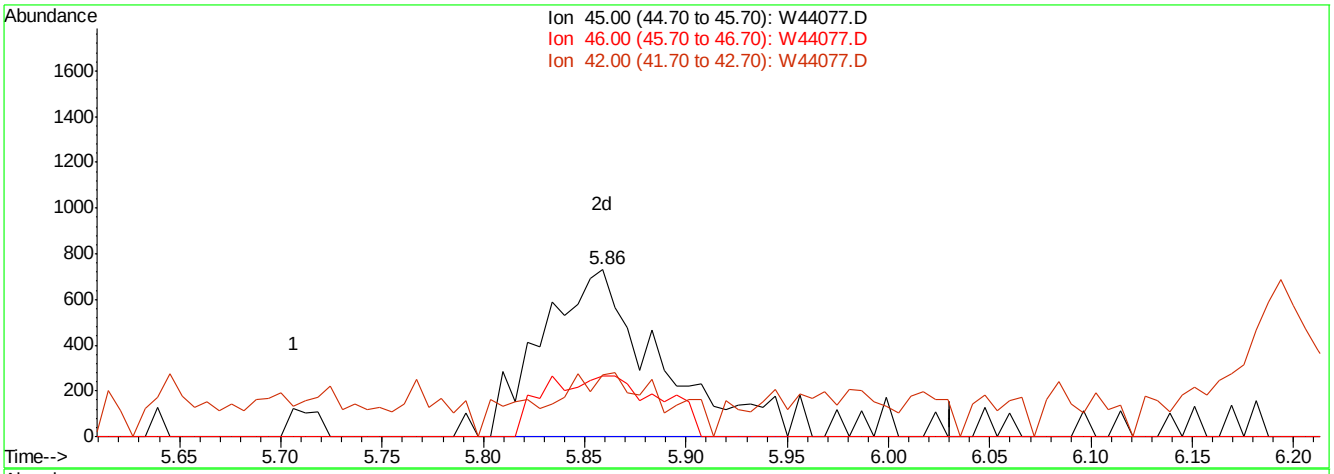
Ion	Exp%	Act%
45.00	100	100
46.00	38.30	0.00#
42.00	7.70	159.02#
0.00	0.00	0.00

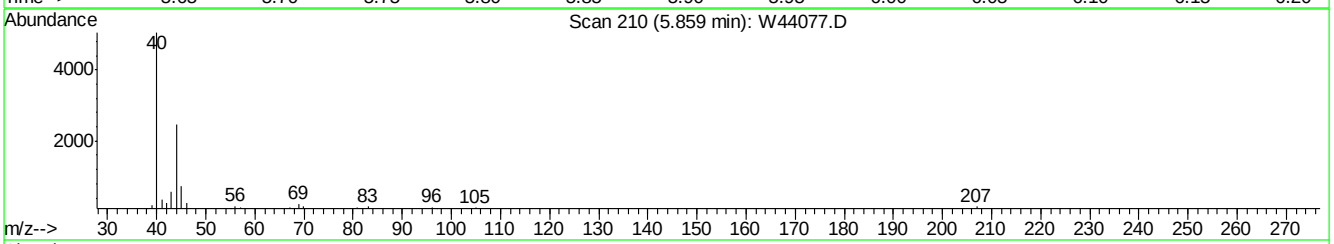
W44077.D MW1765.M Tue Oct 15 11:28:56 2013 MSW

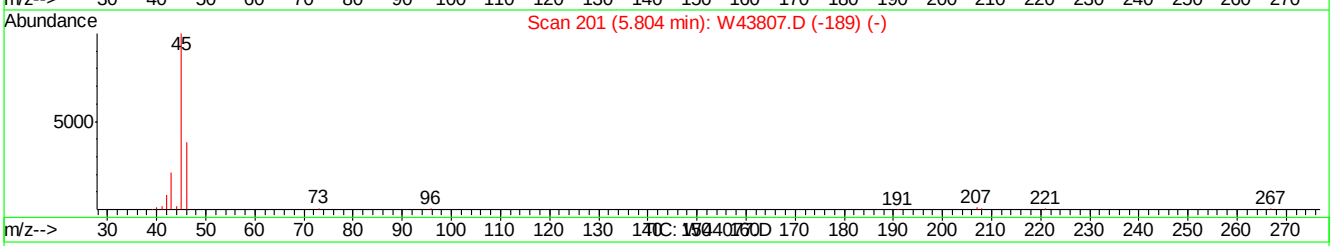
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(27) ETHANOL

5.86min 0.23PPBV m

response 2914

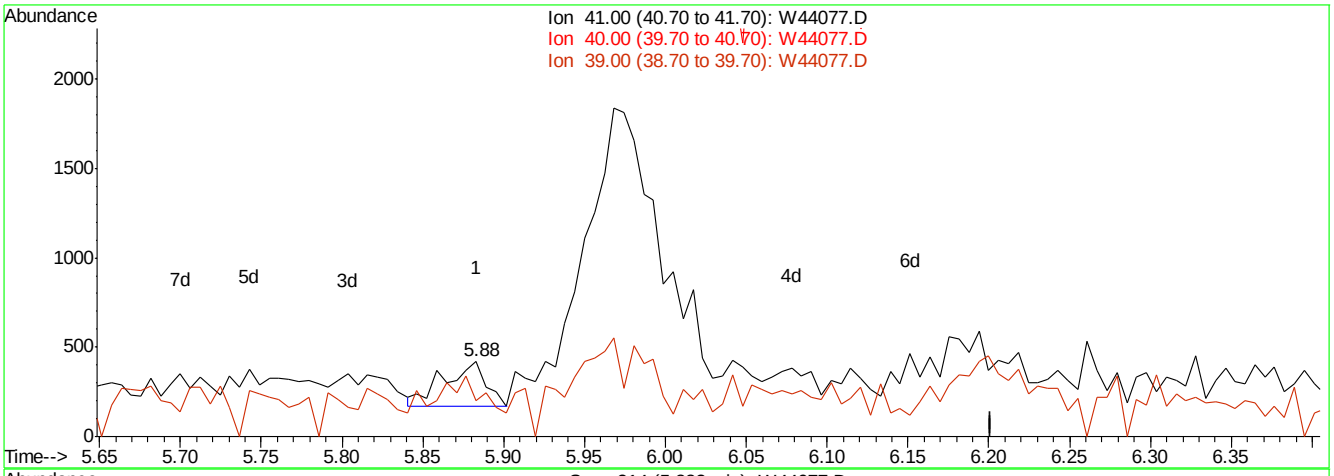
Ion	Exp%	Act%
45.00	100	100
46.00	38.30	0.00#
42.00	7.70	6.66
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:29:03 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(28) ACETONITRILE

5.88min 0.02PPBV

response 447

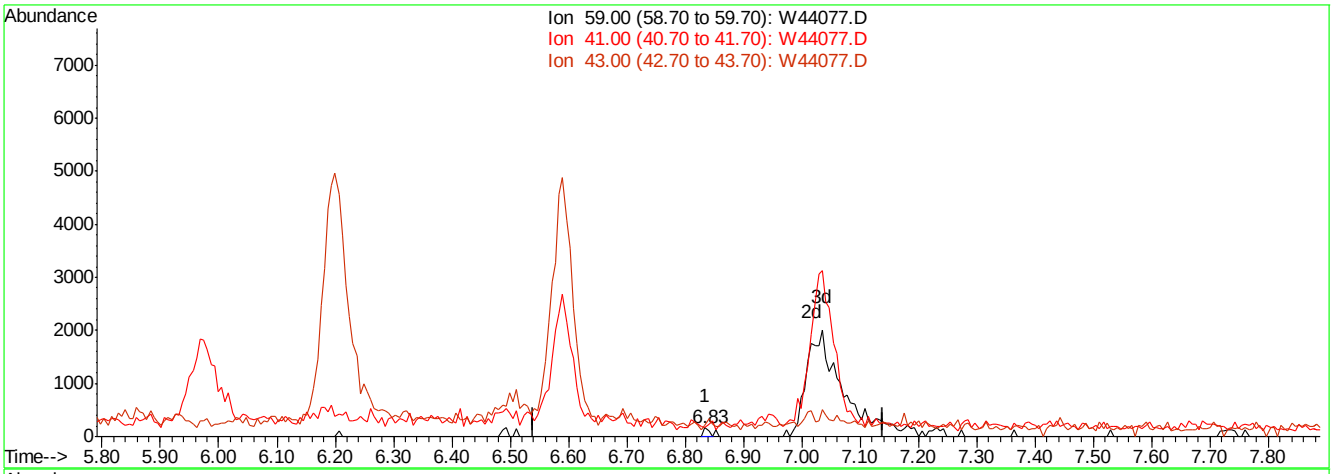
Ion	Exp%	Act%
41.00	100	100
40.00	51.00	0.00#
39.00	19.00	78.75#
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:29:08 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(34) TERTIARY BUTYL ALCOHOL

6.83min 0.00PPBV

response 100

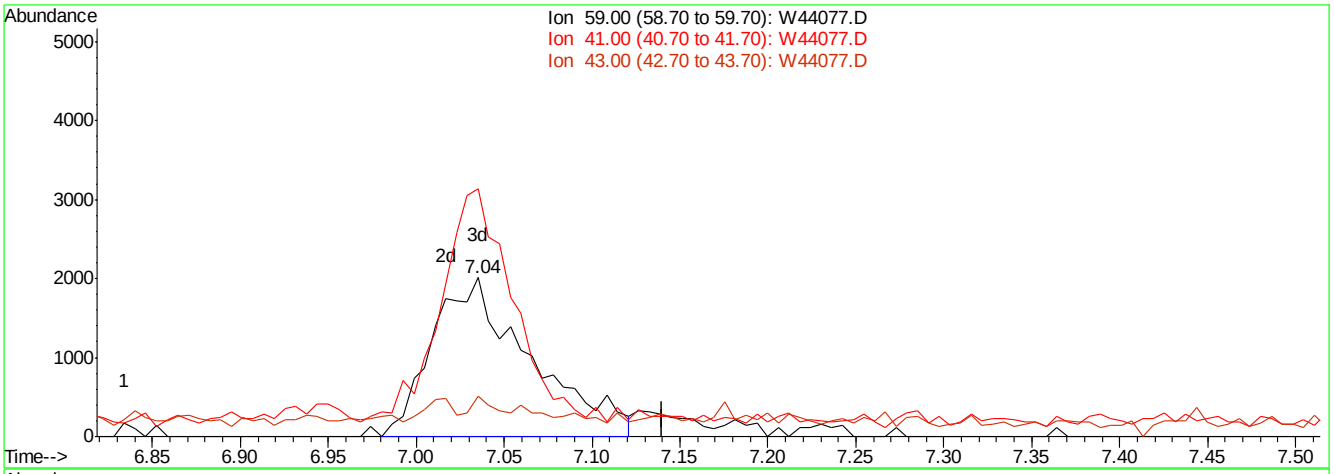
Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	0.00
0.00	0.00	0.00

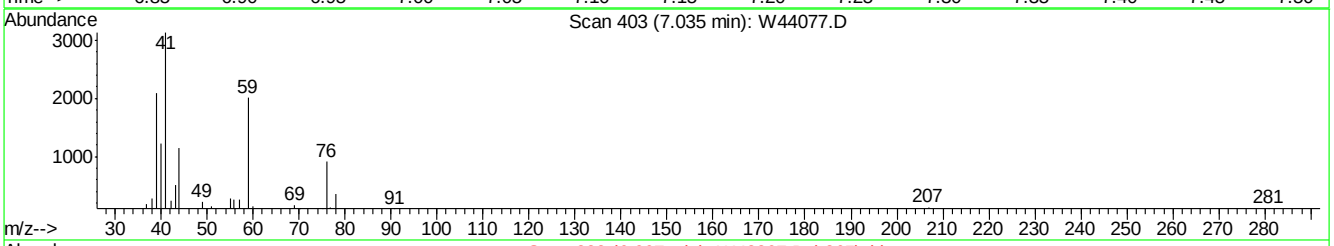
W44077.D MW1765.M Tue Oct 15 11:29:23 2013 MSW

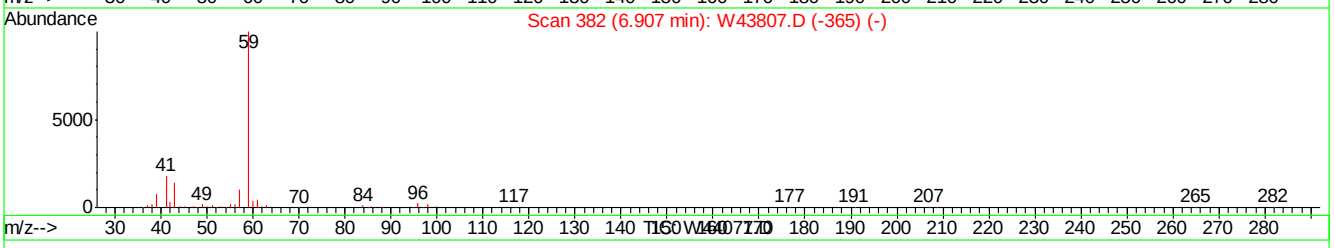
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(34) TERTIARY BUTYL ALCOHOL

7.04min 0.17PPBV m

response 7843

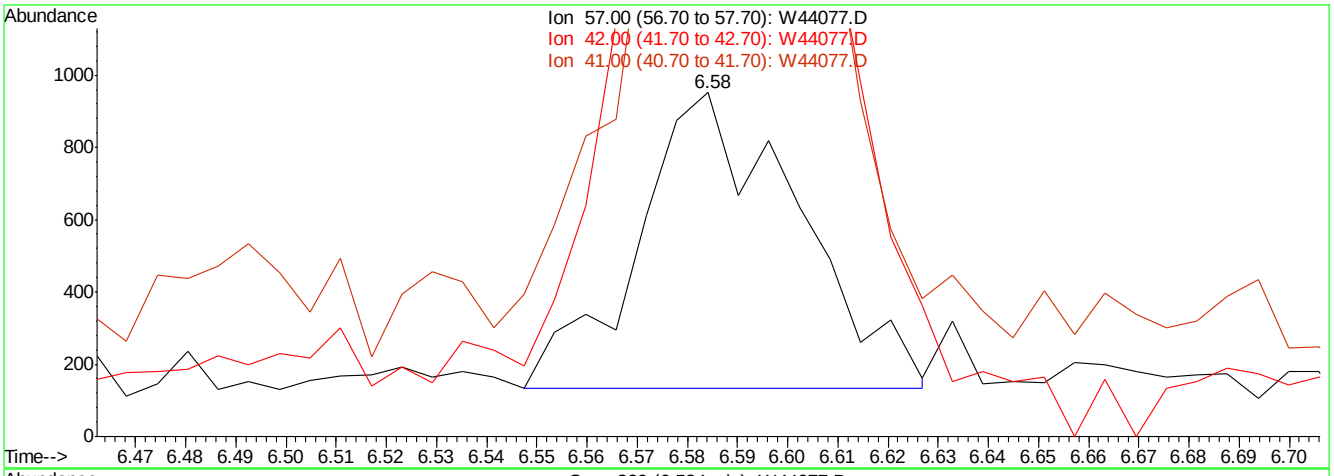
Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	0.00
0.00	0.00	0.00

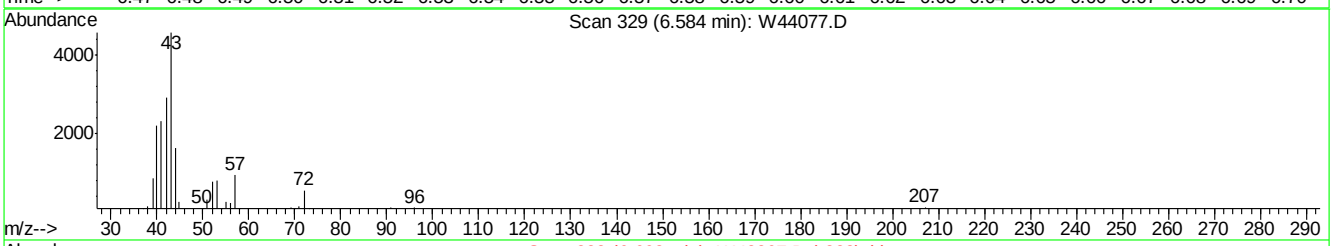
W44077.D MW1765.M Tue Oct 15 11:29:30 2013 MSW

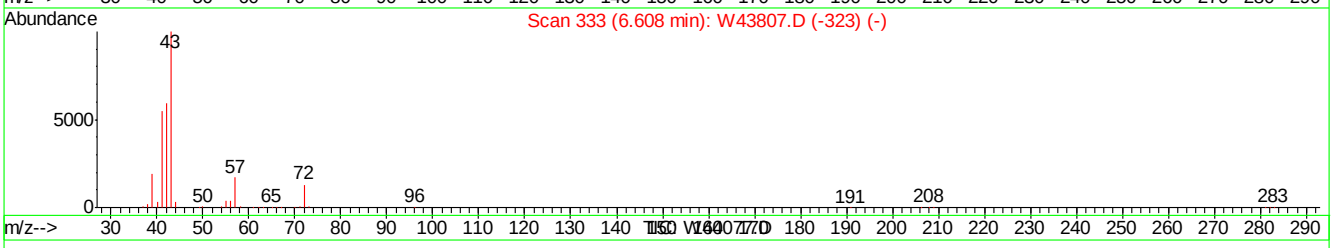
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:16 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Multiple Level Calibration







(22) PENTANE

6.58min 0.20PPBV m

response 1827

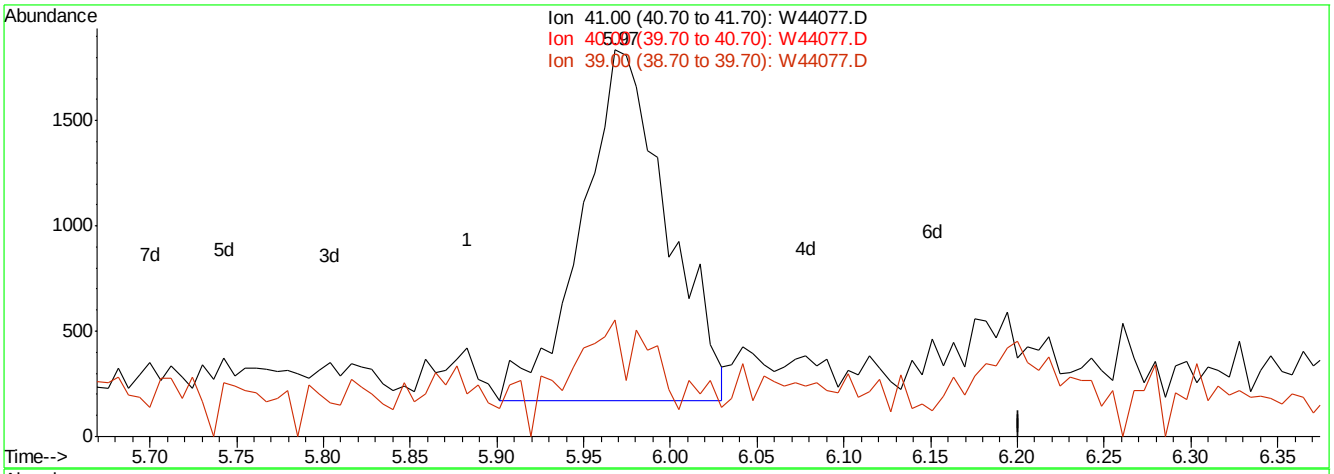
Ion	Exp%	Act%
57.00	100	100
42.00	372.70	419.87#
41.00	306.00	327.31#
0.00	0.00	0.00

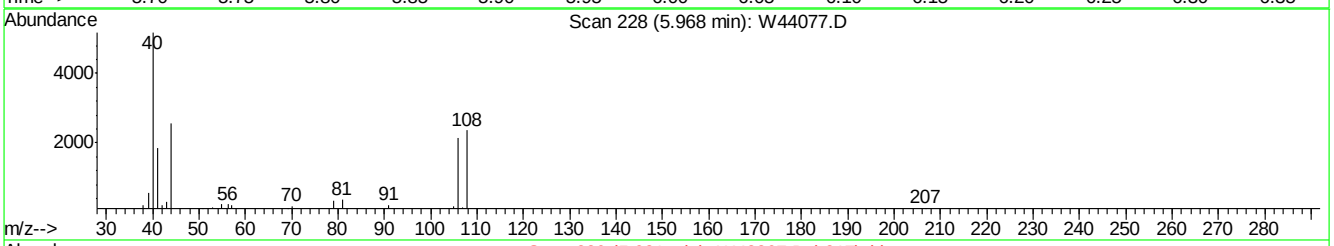
W44077.D MW1765.M Fri Oct 18 09:16:34 2013 MSW

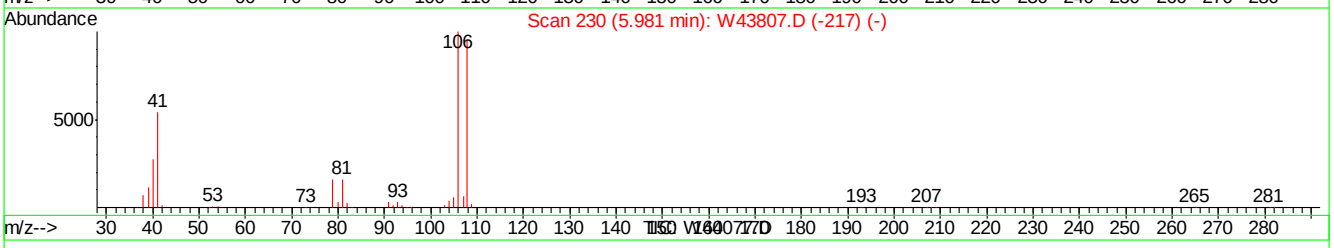
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:17 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Multiple Level Calibration







(28) ACETONITRILE

5.97min 0.24PPBV m

response 5691

Ion	Exp%	Act%
41.00	100	100
40.00	51.00	0.00#
39.00	19.00	6.19#
0.00	0.00	0.00

W44077.D MW1765.M Fri Oct 18 09:17:07 2013 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 10/18/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:22:34 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	205578	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1013788	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	416406	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.53	95	441761	8.75	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 87.50%

Target Compounds						Qvalue
3) FREON 152A	4.65	65	7432	0.47	PPBV #	87
4) CHLORODIFLUOROMETHANE	4.68	67	3184	0.55	PPBV	88
5) DICHLORODIFLUOROMETHANE	4.78	85	28266	0.46	PPBV	98
6) PROPYLENE	4.71	41	9913	0.51	PPBV	96
7) FREON 114	5.00	85	28881	0.46	PPBV	99
8) CHLOROMETHANE	4.93	52	3541	0.50	PPBV #	87
9) VINYL CHLORIDE	5.11	62	11921	0.45	PPBV	99
10) 1,3-BUTADIENE	5.23	54	9294	0.46	PPBV	91
11) n-BUTANE	5.28	58	2585	0.46	PPBV #	91
12) BROMOMETHANE	5.47	94	11665	0.48	PPBV	96
13) CHLOROETHANE	5.62	64	6730	0.46	PPBV	97
14) DICHLOROFLUOROMETHANE	5.68	67	24622	0.46	PPBV	92
15) ACROLEIN	6.03	56	4820	0.47	PPBV	88
16) FREON 123	6.01	83	27230	0.47	PPBV #	98
17) FREON 123A	6.05	117	17804	0.47	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.25	101	27747	0.45	PPBV	98
19) ISOPROPYL ALCOHOL	6.41	45	18785	0.49	PPBV	79
20) ACETONE	6.15	58	7719	0.62	PPBV #	86
21) ACRYLONITRILE	6.52	53	8600	0.43	PPBV	95
22) PENTANE	6.54	57	3824	0.54	PPBV #	73
24) IODOMETHANE	6.74	142	30881	0.45	PPBV	97
25) 1,1-DICHLOROETHYLENE	6.79	96	12283	0.48	PPBV	94
26) CARBON DISULFIDE	7.18	76	35528	0.47	PPBV	97
27) ETHANOL	5.77	45	5369	0.56	PPBV	91
28) ACETONITRILE	5.92	41	9086	0.48	PPBV #	27
29) BROMOETHENE	5.92	106	11595	0.45	PPBV #	98
30) METHYLENE CHLORIDE	6.89	84	15400	0.63	PPBV	97
31) 3-CHLOROPROPENE	6.98	76	5355	0.44	PPBV #	72
32) FREON 113	7.10	151	21588	0.44	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.69	96	13279	0.49	PPBV	95
34) TERTIARY BUTYL ALCOHOL	6.96	59	14831m	0.36	PPBV	
35) METHYL TERTIARY BUTYL ETHE	7.94	73	34207	0.47	PPBV	94
36) TETRAHYDROFURAN	9.34	72	6020	0.45	PPBV	89
37) HEXANE	8.77	57	20291	0.46	PPBV	98
38) VINYL ACETATE	7.99	86	2843	0.41	PPBV #	90
39) 1,1-DICHLOROETHANE	7.87	63	22007	0.46	PPBV	99
40) METHYL ETHYL KETONE	8.25	72	6174	0.47	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.61	96	12571	0.45	PPBV	99
42) DI-ISOPROPYL ETHER	8.78	45	43061	0.46	PPBV	99
43) ETHYL ACETATE	8.82	61	3815	0.44	PPBV #	1
44) METHYL ACRYLATE	8.80	55	20511	0.42	PPBV	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:22:34 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	24676	0.47	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.58	57	22315	0.43	PPBV		95
47)	1,1,1-TRICHLOROETHANE	9.79	97	24699	0.46	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	23286	0.43	PPBV		98
49)	1,2-DICHLOROETHANE	9.56	62	14648	0.46	PPBV		97
51)	BENZENE	10.23	78	40072	0.49	PPBV		99
52)	CYCLOHEXANE	10.49	84	18394	0.49	PPBV	#	79
53)	2,3-DIMETHYLPENTANE	10.68	71	9210	0.49	PPBV		95
54)	TRICHLOROETHYLENE	11.23	95	15880	0.47	PPBV		98
55)	DIBROMOMETHANE	10.99	174	16819	0.46	PPBV		98
56)	1,2-DICHLOROPROPANE	11.00	63	14902	0.49	PPBV		98
57)	ETHYL ACRYLATE	11.00	55	22298	0.41	PPBV	#	96
58)	BROMODICHLOROMETHANE	11.19	83	24067	0.45	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	59918	0.45	PPBV		98
60)	1,4-DIOXANE	11.38	88	6413	0.41	PPBV	#	34
61)	METHYL METHACRYLATE	11.41	69	12776	0.45	PPBV		93
62)	HEPTANE	11.48	43	21562	0.46	PPBV		94
64)	METHYL ISOBUTYL KETONE	12.16	43	20601	0.40	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.06	75	20134	0.44	PPBV		92
66)	TOLUENE	13.05	92	27564	0.47	PPBV		98
67)	trans-1,3-DICHLOROPROPENE	12.58	75	16028	0.41	PPBV		95
68)	1,1,2-TRICHLOROETHANE	12.77	83	12565	0.47	PPBV		99
70)	ETHYL METHACRYLATE	13.32	69	18152	0.42	PPBV		98
71)	2-HEXANONE	13.37	43	15337	0.37	PPBV		98
72)	TETRACHLOROETHYLENE	14.21	164	19254	0.50	PPBV		98
73)	DIBROMOCHLOROMETHANE	13.49	129	23968	0.46	PPBV		98
74)	1,2-DIBROMOETHANE	13.75	107	19748	0.46	PPBV		99
75)	OCTANE	14.02	43	28084	0.48	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	18234	0.47	PPBV	#	95
77)	CHLOROBENZENE	14.92	112	33089	0.48	PPBV	#	82
78)	ETHYLBENZENE	15.31	91	53814	0.48	PPBV		99
79)	m,p-XYLENE	15.50	106	41011	0.93	PPBV		98
80)	o-XYLENE	16.02	106	19571	0.47	PPBV		98
81)	STYRENE	15.91	104	25826	0.41	PPBV		97
82)	1,2,3-TRICHLOROPROPANE	16.17	75	18059	0.44	PPBV		99
83)	NONANE	16.23	43	23833	0.43	PPBV		97
84)	BROMOFORM	15.62	173	21111	0.43	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	22386	0.44	PPBV		98
87)	ISOPROPYLBENZENE	16.67	105	57223	0.47	PPBV		99
88)	BROMOBENZENE	16.78	156	15279	0.42	PPBV		94
89)	2-CHLOROTOLUENE	17.20	126	12374	0.43	PPBV	#	98
90)	n-PROPYLBENZENE	17.23	120	13247	0.42	PPBV		100
91)	4-ETHYLTOLUENE	17.39	105	39499	0.39	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	35071	0.41	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.66	118	14317	0.34	PPBV		95
94)	TERT-BUTYLBENZENE	17.93	134	10343	0.45	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	29911	0.37	PPBV	#	85
96)	m-DICHLOROBENZENE	18.12	146	16563	0.34	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	13087	0.27	PPBV		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:22:34 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

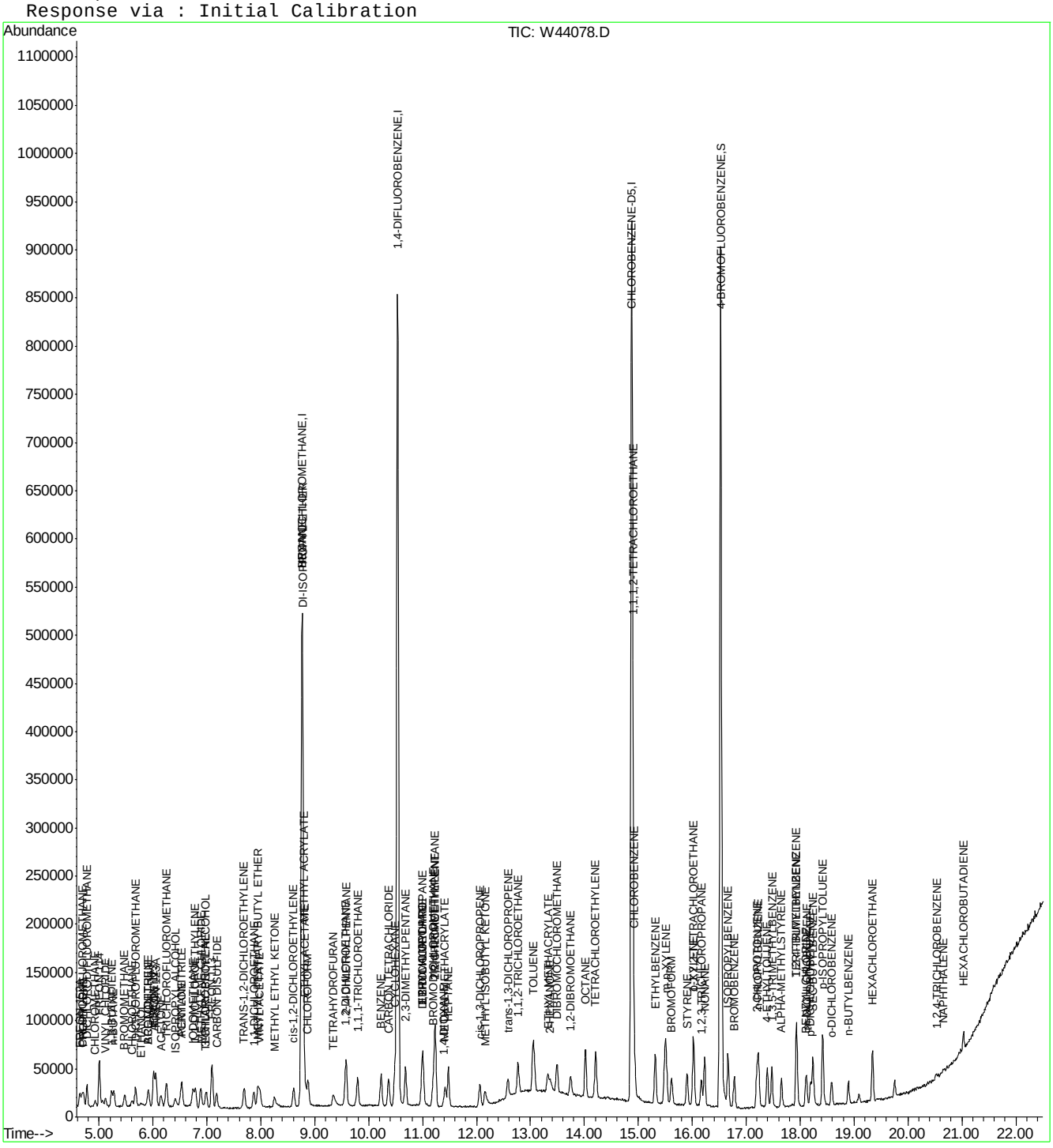
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
98)	p-DICHLOROBENZENE	18.19	146	15871	0.35	PPBV		95
99)	SEC-BUTYLBENZENE	18.23	134	9882	0.38	PPBV	#	92
100)	p-ISOPROPYLTOLUENE	18.42	134	8933	0.36	PPBV		93
101)	o-DICHLOROBENZENE	18.58	146	14999	0.35	PPBV		98
102)	n-BUTYLBENZENE	18.90	134	5573	0.32	PPBV		93
103)	HEXACHLOROETHANE	19.34	201	12890	0.41	PPBV		96
104)	HEXACHLOROBUTADIENE	21.03	225	5466	0.45	PPBV		85
105)	1,2,4-TRICHLOROBENZENE	20.53	180	2564	0.33	PPBV		89
106)	NAPHTHALENE	20.65	128	4876	0.31	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:24 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Manual Integration Approval Summary

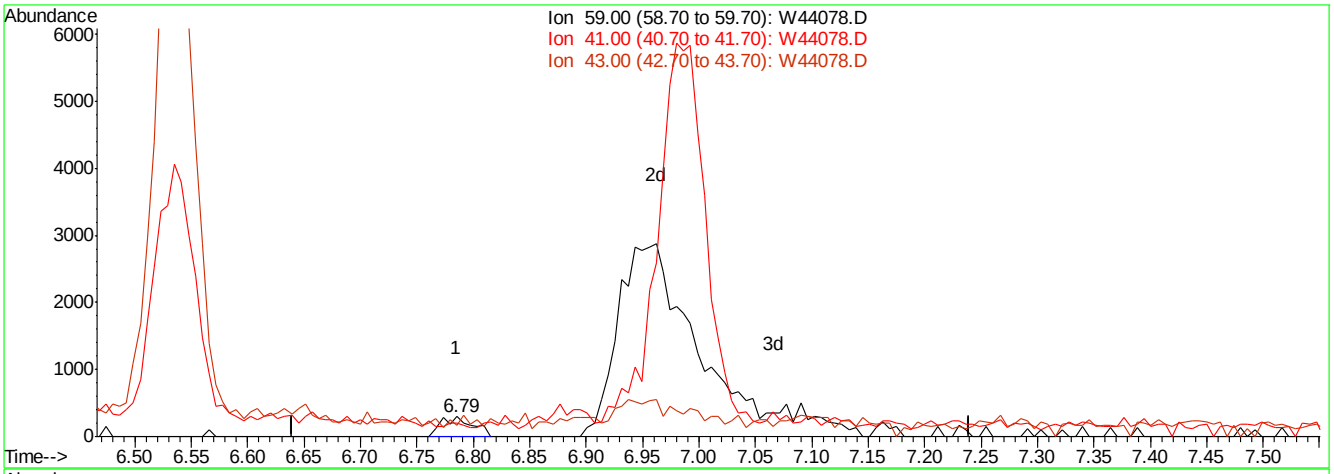
Sample Number:	VW1765-IC1765	**Method:**	TO-15
Lab FileID:	W44078.D	**Analyst approved:**	10/16/13 09:33 Dana Tryon
Injection Time:	10/15/13 09:30	**Supervisor approved:**	10/18/13 14:19 Jessica Reitan-Chu

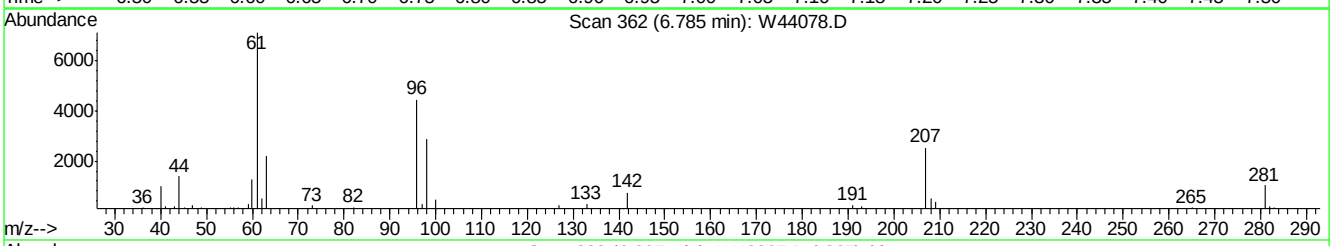
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tertiary Butyl Alcohol	75-65-0		6.96	Poor instrument integration

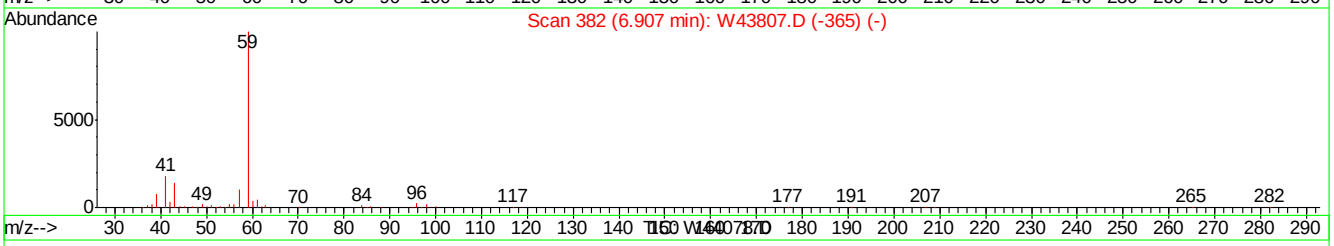
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:23 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Multiple Level Calibration







(34) TERTIARY BUTYL ALCOHOL

6.79min 0.01PPBV

response 579

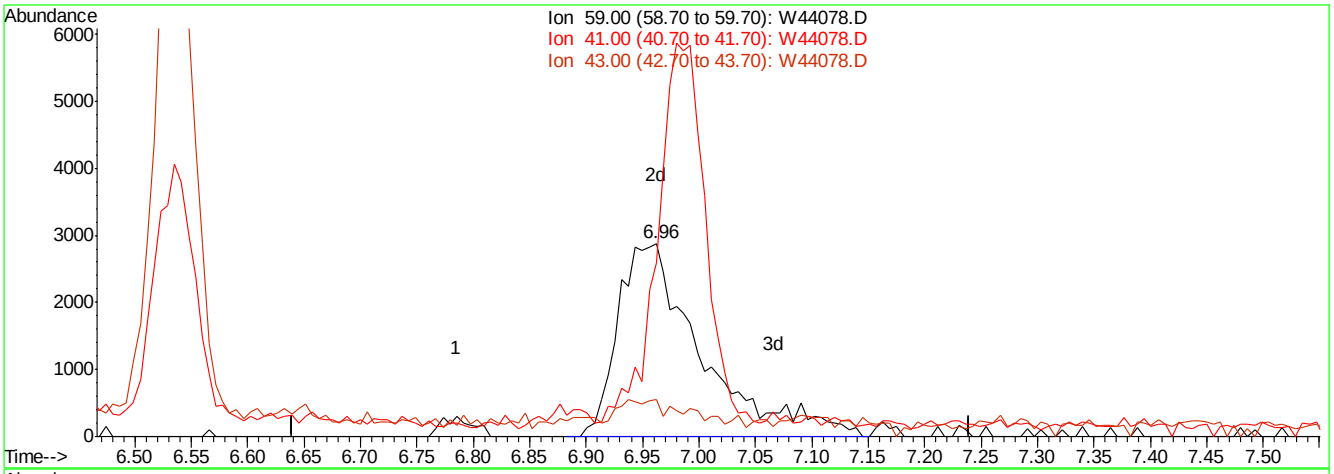
Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	19.34
0.00	0.00	0.00

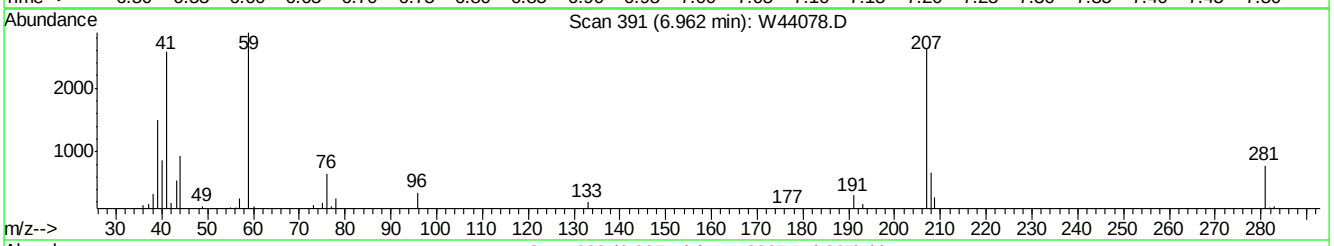
W44078.D MW1765.M Tue Oct 15 11:23:20 2013 MSW

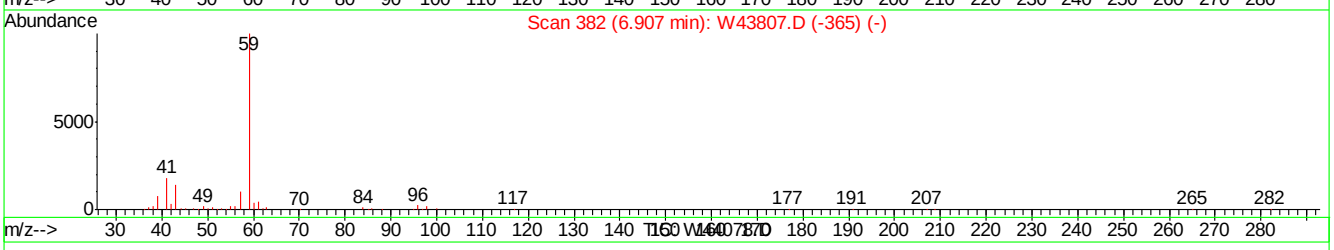
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:23 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Multiple Level Calibration







(34) TERTIARY BUTYL ALCOHOL

6.96min 0.36PPBV m

response 14831

Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	0.76
0.00	0.00	0.00

W44078.D MW1765.M Tue Oct 15 11:23:38 2013 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 08:54:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:42:42 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	202911	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1043942	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	454183	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	552859	10.26	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.60%			
Target Compounds						Qvalue
3) FREON 152A	4.63	65	81685	5.63	PPBV	96
4) CHLORODIFLUOROMETHANE	4.68	67	29686	5.33	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.77	85	319499	5.62	PPBV	100
6) PROPYLENE	4.71	41	101465	5.32	PPBV	96
7) FREON 114	5.00	85	323785	5.50	PPBV	99
8) CHLOROMETHANE	4.92	52	36887	5.49	PPBV	96
9) VINYL CHLORIDE	5.11	62	136978	5.64	PPBV	100
10) 1,3-BUTADIENE	5.22	54	103448	5.42	PPBV	99
11) n-BUTANE	5.27	58	28768	5.60	PPBV	99
12) BROMOMETHANE	5.47	94	125337	5.55	PPBV	98
13) CHLOROETHANE	5.61	64	75081	5.55	PPBV	100
14) DICHLOROFLUOROMETHANE	5.67	67	277059	5.63	PPBV	100
15) ACROLEIN	6.00	56	52499	5.26	PPBV	97
16) FREON 123	6.00	83	299854	5.52	PPBV #	99
17) FREON 123A	6.05	117	196418	5.53	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.24	101	319503	5.58	PPBV	100
19) ISOPROPYL ALCOHOL	6.33	45	198101	5.69	PPBV	97
20) ACETONE	6.12	58	64595	4.89	PPBV	97
21) ACRYLONITRILE	6.49	53	100448	5.54	PPBV	98
22) PENTANE	6.53	57	38165	5.53	PPBV #	90
24) IODOMETHANE	6.74	142	353336	5.55	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	130748	5.51	PPBV	98
26) CARBON DISULFIDE	7.18	76	394284	5.60	PPBV	99
27) ETHANOL	5.73	45	48383	5.44	PPBV	99
28) ACETONITRILE	5.90	41	97045	5.22	PPBV	94
29) BROMOETHENE	5.90	106	131349	5.51	PPBV	100
30) METHYLENE CHLORIDE	6.88	84	126704	4.76	PPBV	99
31) 3-CHLOROPROPENE	6.98	76	61457	5.54	PPBV	96
32) FREON 113	7.09	151	251420	5.53	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	139440	5.51	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.84	59	215219	5.74	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.93	73	371707	5.43	PPBV	99
36) TETRAHYDROFURAN	9.29	72	68045	5.59	PPBV	99
37) HEXANE	8.77	57	227802	5.54	PPBV	98
38) VINYL ACETATE	7.97	86	34812	5.47	PPBV	100
39) 1,1-DICHLOROETHANE	7.86	63	243908	5.57	PPBV	99
40) METHYL ETHYL KETONE	8.22	72	66947	5.47	PPBV	92
41) cis-1,2-DICHLOROETHYLENE	8.61	96	142042	5.53	PPBV	99
42) DI-ISOPROPYL ETHER	8.77	45	479099	5.63	PPBV	100
43) ETHYL ACETATE	8.80	61	44500	5.79	PPBV	97
44) METHYL ACRYLATE	8.79	55	250167	5.68	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 08:54:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:42:42 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.88	83	268328	5.47	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.58	57	262785	5.42	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.79	97	273854	5.49	PPBV		99
48)	CARBON TETRACHLORIDE	10.37	117	273902	5.51	PPBV		99
49)	1,2-DICHLOROETHANE	9.56	62	164361	5.58	PPBV		99
51)	BENZENE	10.23	78	444085	5.51	PPBV		100
52)	CYCLOHEXANE	10.48	84	198324	5.42	PPBV		94
53)	2,3-DIMETHYLPENTANE	10.68	71	101245	5.47	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	183478	5.32	PPBV		98
55)	DIBROMOMETHANE	10.99	174	195301	5.52	PPBV		100
56)	1,2-DICHLOROPROPANE	11.00	63	165316	5.60	PPBV		99
57)	ETHYL ACRYLATE	10.98	55	291109	5.58	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	285127	5.56	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	718106	5.58	PPBV		100
60)	1,4-DIOXANE	11.28	88	79062	5.76	PPBV	#	41
61)	METHYL METHACRYLATE	11.40	69	154417	5.75	PPBV		99
62)	HEPTANE	11.47	43	248327	5.59	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.11	43	273801	5.74	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	246645	5.61	PPBV		99
66)	TOLUENE	13.05	92	316297	5.60	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.58	75	208147	5.56	PPBV		100
68)	1,1,2-TRICHLOROETHANE	12.77	83	141920	5.43	PPBV		99
70)	ETHYL METHACRYLATE	13.30	69	242839	5.85	PPBV		99
71)	2-HEXANONE	13.33	43	230321	5.70	PPBV		100
72)	TETRACHLOROETHYLENE	14.21	164	221153	5.47	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	295019	5.88	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	246359	5.75	PPBV		99
75)	OCTANE	14.02	43	336602	5.79	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	221661	5.75	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	392118	5.60	PPBV		98
78)	ETHYLBENZENE	15.31	91	633510	5.66	PPBV		99
79)	m,p-XYLENE	15.50	106	501122	11.50	PPBV		99
80)	o-XYLENE	16.02	106	236372	5.71	PPBV		98
81)	STYRENE	15.91	104	353392	5.66	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	232306	5.69	PPBV		100
83)	NONANE	16.23	43	320630	5.86	PPBV		99
84)	BROMOFORM	15.61	173	278541	5.74	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	291949	5.68	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	695319	5.68	PPBV		100
88)	BROMOBENZENE	16.78	156	206166	5.65	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	163982	5.70	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	180303	5.75	PPBV		100
91)	4-ETHYLTOLUENE	17.39	105	578782	5.78	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	485371	5.64	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	231554	5.66	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	129230	5.51	PPBV		97
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	450761	5.66	PPBV		98
96)	m-DICHLOROBENZENE	18.12	146	265857	5.49	PPBV		99
97)	BENZYL CHLORIDE	18.10	91	261333	5.26	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 08:54:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:42:42 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

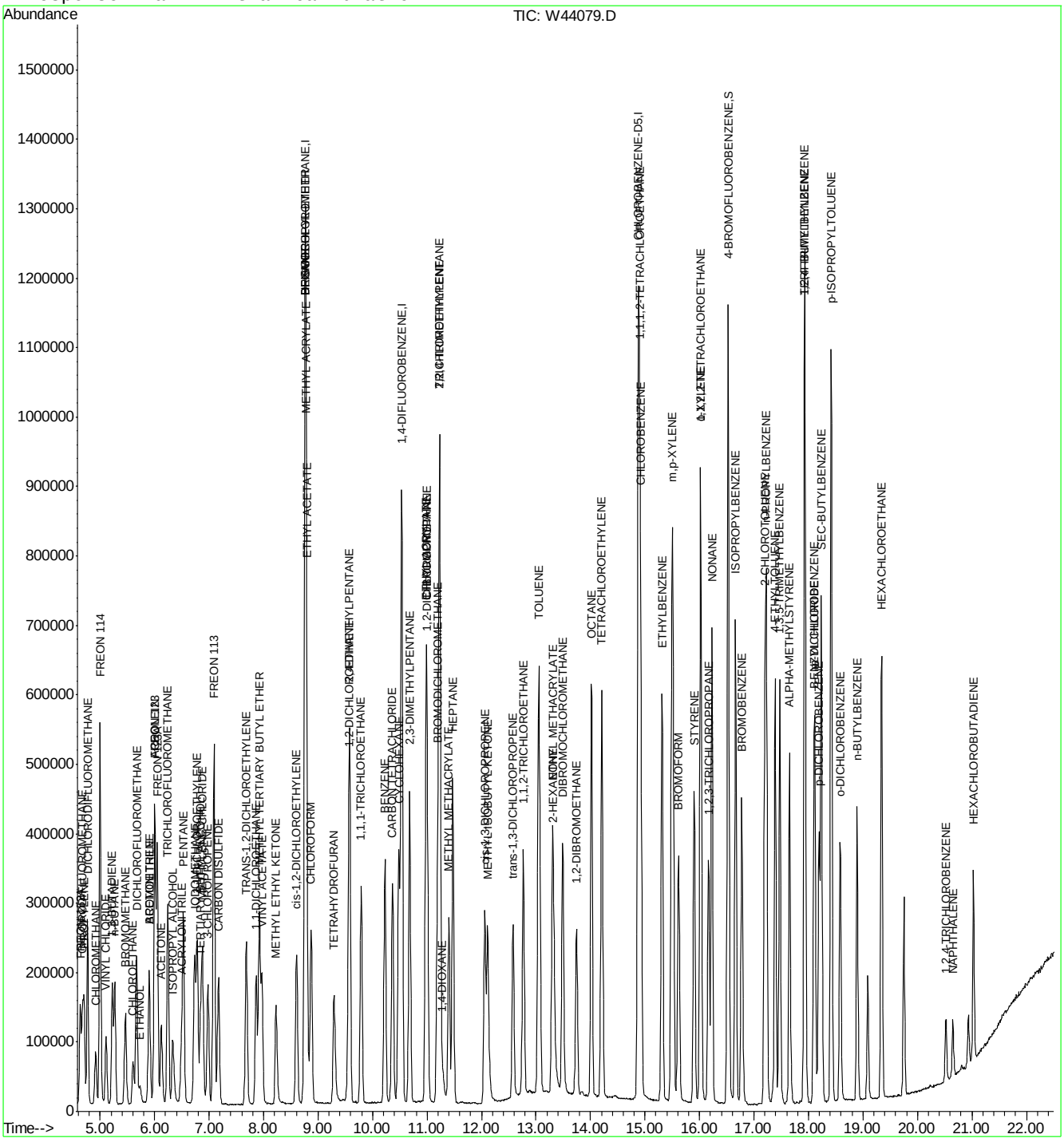
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.19	146	252460	5.44	PPBV	100
99)	SEC-BUTYLBENZENE	18.23	134	145960	5.53	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.42	134	137059	5.35	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	238615	5.44	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	94782	4.99	PPBV	98
103)	HEXACHLOROETHANE	19.34	201	174464	5.51	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	72972	4.73	PPBV	98
105)	1,2,4-TRICHLOROBENZENE	20.53	180	43112	4.14	PPBV	99
106)	NAPHTHALENE	20.65	128	86131	4.00	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 9:37 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20:12 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:20:02 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	204139	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.54	114	1068301	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	472723	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	571732	10.00	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.00%			
Target Compounds						Qvalue
3) FREON 152A	4.64	65	150598	10.00	PPBV	100
4) CHLORODIFLUOROMETHANE	4.68	67	55393	10.00	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.77	85	579517	10.00	PPBV	100
6) PROPYLENE	4.71	41	184470	10.00	PPBV	100
7) FREON 114	5.00	85	598700	10.00	PPBV	100
8) CHLOROMETHANE	4.92	52	67574	10.00	PPBV	100
9) VINYL CHLORIDE	5.11	62	253188	10.00	PPBV	100
10) 1,3-BUTADIENE	5.22	54	190396	10.00	PPBV	100
11) n-BUTANE	5.27	58	53326	10.00	PPBV	100
12) BROMOMETHANE	5.47	94	230807	10.00	PPBV	100
13) CHLOROETHANE	5.60	64	140647	10.00	PPBV	100
14) DICHLOROFLUOROMETHANE	5.67	67	516277	10.00	PPBV	100
15) ACROLEIN	6.00	56	99546	10.00	PPBV	100
16) FREON 123	6.00	83	556013	10.00	PPBV #	100
17) FREON 123A	6.05	117	363149	10.00	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.24	101	591133	10.00	PPBV	100
19) ISOPROPYL ALCOHOL	6.33	45	358587	9.98	PPBV	100
20) ACETONE	6.12	58	118355	10.00	PPBV	100
21) ACRYLONITRILE	6.49	53	191347	10.00	PPBV	100
22) PENTANE	6.53	57	66852	9.99	PPBV	100
24) IODOMETHANE	6.74	142	658915	10.00	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	245630	10.00	PPBV	100
26) CARBON DISULFIDE	7.18	76	720567	10.00	PPBV	100
27) ETHANOL	5.73	45	91659	10.00	PPBV	100
28) ACETONITRILE	5.90	41	183018	10.00	PPBV	96
29) BROMOETHENE	5.90	106	245820	10.00	PPBV	100
30) METHYLENE CHLORIDE	6.88	84	228932	10.00	PPBV	100
31) 3-CHLOROPROPENE	6.98	76	115797	10.00	PPBV	100
32) FREON 113	7.09	151	463860	10.00	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.69	96	258462	10.00	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.84	59	376550	10.00	PPBV	100
35) METHYL TERTIARY BUTYL ETHE	7.93	73	709479	10.00	PPBV	100
36) TETRAHYDROFURAN	9.29	72	128265	10.00	PPBV	100
37) HEXANE	8.77	57	420616	10.00	PPBV	100
38) VINYL ACETATE	7.97	86	66879	10.00	PPBV	99
39) 1,1-DICHLOROETHANE	7.87	63	451703	10.00	PPBV	100
40) METHYL ETHYL KETONE	8.23	72	128266	10.00	PPBV	100
41) cis-1,2-DICHLOROETHYLENE	8.61	96	268359	10.00	PPBV	100
42) DI-ISOPROPYL ETHER	8.77	45	898537	10.00	PPBV	100
43) ETHYL ACETATE	8.79	61	84382	10.00	PPBV	100
44) METHYL ACRYLATE	8.79	55	467310	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20:12 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:20:02 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.88	83	502460	10.00	PPBV		100
46)	2,4-DIMETHYLPENTANE	9.58	57	497889	10.00	PPBV		100
47)	1,1,1-TRICHLOROETHANE	9.80	97	512937	10.00	PPBV		100
48)	CARBON TETRACHLORIDE	10.37	117	527087	10.00	PPBV		100
49)	1,2-DICHLOROETHANE	9.57	62	307658	10.01	PPBV		100
51)	BENZENE	10.23	78	830928	10.00	PPBV		100
52)	CYCLOHEXANE	10.49	84	377384	10.00	PPBV		100
53)	2,3-DIMETHYLPENTANE	10.69	71	191847	10.00	PPBV		100
54)	TRICHLOROETHYLENE	11.23	95	341836	10.00	PPBV		100
55)	DIBROMOMETHANE	10.99	174	368299	10.00	PPBV		100
56)	1,2-DICHLOROPROPANE	11.00	63	306934	10.00	PPBV		100
57)	ETHYL ACRYLATE	10.98	55	559749	10.00	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	539861	10.00	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	1363428	10.00	PPBV		100
60)	1,4-DIOXANE	11.27	88	161424	10.00	PPBV		100
61)	METHYL METHACRYLATE	11.40	69	286876	10.00	PPBV		100
62)	HEPTANE	11.48	43	472302	10.00	PPBV		100
64)	METHYL ISOBUTYL KETONE	12.11	43	516046	10.01	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.06	75	463116	10.00	PPBV		100
66)	TOLUENE	13.05	92	597163	10.00	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	401624	10.02	PPBV		100
68)	1,1,2-TRICHLOROETHANE	12.77	83	267061	10.00	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	465734	10.00	PPBV		100
71)	2-HEXANONE	13.32	43	453279	10.00	PPBV		100
72)	TETRACHLOROETHYLENE	14.21	164	416801	10.00	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.50	129	560242	10.00	PPBV		100
74)	1,2-DIBROMOETHANE	13.75	107	469719	10.00	PPBV		100
75)	OCTANE	14.02	43	627466	10.00	PPBV		100
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	422191	10.00	PPBV	#	100
77)	CHLOROBENZENE	14.93	112	744639	10.00	PPBV		100
78)	ETHYLBENZENE	15.31	91	1202099	10.00	PPBV		100
79)	m,p-XYLENE	15.51	106	948730	20.06	PPBV		100
80)	o-XYLENE	16.03	106	452806	10.00	PPBV		100
81)	STYRENE	15.91	104	684142	10.00	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	444118	10.03	PPBV		100
83)	NONANE	16.23	43	604367	10.00	PPBV		100
84)	BROMOFORM	15.62	173	540684	10.00	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	557794	10.00	PPBV		100
87)	ISOPROPYLBENZENE	16.67	105	1326600	10.00	PPBV		100
88)	BROMOBENZENE	16.78	156	399669	10.00	PPBV		100
89)	2-CHLOROTOLUENE	17.20	126	312760	10.00	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	347282	10.00	PPBV		100
91)	4-ETHYLTOLUENE	17.39	105	1122806	9.99	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	946279	10.00	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	462677	10.00	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	253886	10.00	PPBV		100
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	884034	10.00	PPBV		100
96)	m-DICHLOROBENZENE	18.12	146	546161	10.00	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	550572	10.00	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20:12 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:20:02 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

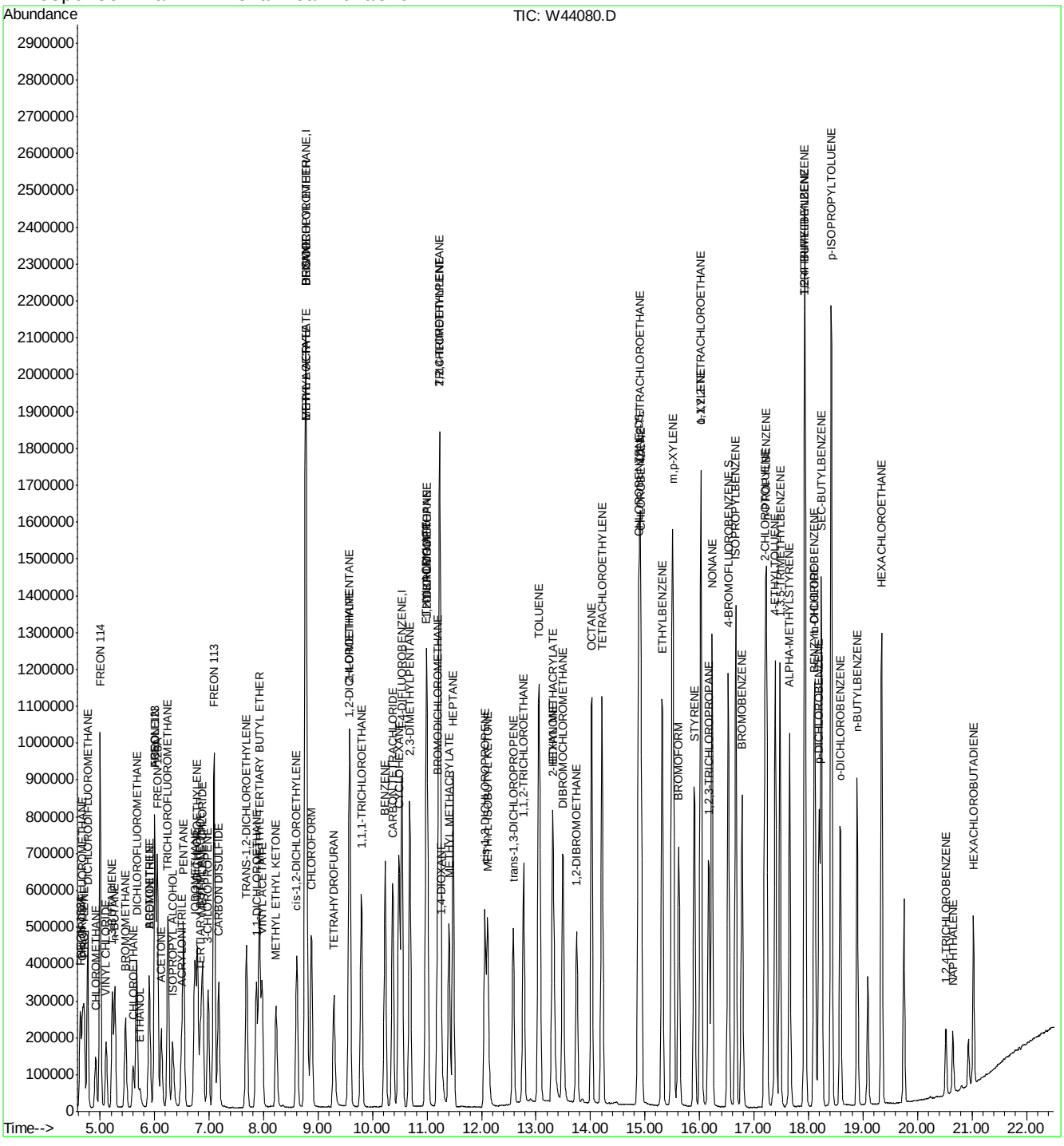
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	504457	10.00	PPBV	100
99)	SEC-BUTYLBENZENE	18.24	134	290791	10.00	PPBV	100
100)	p-ISOPROPYLTOLUENE	18.42	134	277270	10.00	PPBV	100
101)	o-DICHLOROBENZENE	18.59	146	476837	10.00	PPBV	100
102)	n-BUTYLBENZENE	18.90	134	196130	10.00	PPBV	100
103)	HEXACHLOROETHANE	19.34	201	350041	10.00	PPBV	100
104)	HEXACHLOROBUTADIENE	21.03	225	126154	10.00	PPBV	100
105)	1,2,4-TRICHLOROBENZENE	20.53	180	86464	10.05	PPBV	100
106)	NAPHTHALENE	20.65	128	178434	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:57:08 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:57:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	212686	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1110669	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	542807	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	634521	9.82	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.20%			
Target Compounds						Qvalue
3) FREON 152A	4.62	65	522025	33.09	PPBV	100
4) CHLORODIFLUOROMETHANE	4.66	67	205152	34.34	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.75	85	2197066	37.17	PPBV	100
6) PROPYLENE	4.69	41	687393	33.56	PPBV	99
7) FREON 114	4.98	85	2272630	37.24	PPBV	99
8) CHLOROMETHANE	4.90	52	252061	34.99	PPBV	98
9) VINYL CHLORIDE	5.09	62	959751	37.55	PPBV	100
10) 1,3-BUTADIENE	5.21	54	711860	36.17	PPBV	99
11) n-BUTANE	5.26	58	199987	36.64	PPBV	98
12) BROMOMETHANE	5.45	94	885840	37.56	PPBV	100
13) CHLOROETHANE	5.59	64	541261	38.01	PPBV	99
14) DICHLOROFLUOROMETHANE	5.65	67	1946485	37.28	PPBV	100
15) ACROLEIN	5.98	56	374992	35.08	PPBV	99
16) FREON 123	5.99	83	2117804	37.36	PPBV #	99
17) FREON 123A	6.04	117	1403849	37.92	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.23	101	2272172	37.94	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	1514118	42.71	PPBV	100
20) ACETONE	6.09	58	457171	32.02	PPBV	98
21) ACRYLONITRILE	6.47	53	727731	37.68	PPBV	99
22) PENTANE	6.52	57	252622	33.95	PPBV	93
24) IODOMETHANE	6.72	142	2590223	38.79	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	955013	37.80	PPBV	99
26) CARBON DISULFIDE	7.16	76	2803397	38.02	PPBV	99
27) ETHANOL	5.69	45	348197	37.06	PPBV	98
28) ACETONITRILE	5.88	41	692169	34.72	PPBV	98
29) BROMOETHENE	5.89	106	957029	38.57	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	886827	31.63	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	453165	39.42	PPBV	96
32) FREON 113	7.08	151	1831811	38.75	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	1035624	38.67	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.80	59	1851772	53.17	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.91	73	2766876	39.01	PPBV	99
36) TETRAHYDROFURAN	9.27	72	494411	38.45	PPBV	97
37) HEXANE	8.76	57	1633572	37.37	PPBV	98
38) VINYL ACETATE	7.96	86	270191	41.36	PPBV #	59
39) 1,1-DICHLOROETHANE	7.86	63	1733605	37.61	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	503134	39.22	PPBV	92
41) cis-1,2-DICHLOROETHYLENE	8.60	96	1059216	38.97	PPBV	97
42) DI-ISOPROPYL ETHER	8.75	45	3324645	37.34	PPBV	99
43) ETHYL ACETATE	8.78	61	324547	39.83	PPBV #	93
44) METHYL ACRYLATE	8.78	55	1798073	39.13	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:57:08 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:57:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	1913786	37.61	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.57	57	1916626	38.30	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.79	97	1994540	38.89	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	2090009	40.75	PPBV		99
49)	1,2-DICHLOROETHANE	9.55	62	1170623	38.00	PPBV		100
51)	BENZENE	10.22	78	3166635	37.04	PPBV		100
52)	CYCLOHEXANE	10.48	84	1480706	37.53	PPBV		95
53)	2,3-DIMETHYLPENTANE	10.68	71	754965	37.75	PPBV		97
54)	TRICHLOROETHYLENE	11.22	95	1341950	37.97	PPBV		99
55)	DIBROMOMETHANE	10.99	174	1474251	39.32	PPBV		98
56)	1,2-DICHLOROPROPANE	11.00	63	1160293	37.21	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	2250803	40.89	PPBV		99
58)	BROMODICHLOROMETHANE	11.19	83	2095285	38.77	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	5256510	38.33	PPBV		99
60)	1,4-DIOXANE	11.25	88	699918	49.39	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	1147299	39.64	PPBV		97
62)	HEPTANE	11.47	43	1796371	37.40	PPBV		98
64)	METHYL ISOBUTYL KETONE	12.10	43	2173794	44.22	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	1830310	39.76	PPBV		99
66)	TOLUENE	13.05	92	2288298	37.82	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	1614791	41.85	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.77	83	1023642	37.55	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	1965444	39.57	PPBV		99
71)	2-HEXANONE	13.31	43	2045144	43.68	PPBV		99
72)	TETRACHLOROETHYLENE	14.21	164	1640115	34.81	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.50	129	2216214	36.28	PPBV		100
74)	1,2-DIBROMOETHANE	13.75	107	1880761	36.93	PPBV		100
75)	OCTANE	14.02	43	2396805	34.28	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	1678843	36.61	PPBV	#	99
77)	CHLOROBENZENE	14.93	112	2976756	35.55	PPBV		99
78)	ETHYLBENZENE	15.31	91	4696350	34.92	PPBV		100
79)	m,p-XYLENE	15.51	106	3731578	70.88	PPBV		98
80)	o-XYLENE	16.03	106	1761798	35.27	PPBV		100
81)	STYRENE	15.91	104	2781999	37.41	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	1763981	36.57	PPBV		100
83)	NONANE	16.23	43	2360851	36.09	PPBV		98
84)	BROMOFORM	15.62	173	2265610	39.34	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	2208213	36.35	PPBV		100
87)	ISOPROPYLBENZENE	16.67	105	5233939	35.59	PPBV		99
88)	BROMOBENZENE	16.78	156	1652737	37.84	PPBV		98
89)	2-CHLOROTOLUENE	17.20	126	1260410	36.84	PPBV	#	99
90)	n-PROPYLBENZENE	17.23	120	1428669	37.81	PPBV		95
91)	4-ETHYLTOLUENE	17.39	105	4632639	38.51	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	3869890	37.61	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	1984621	40.78	PPBV		100
94)	TERT-BUTYLBENZENE	17.94	134	1052267	37.56	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	3726612	39.38	PPBV		98
96)	m-DICHLOROBENZENE	18.12	146	2447022	42.44	PPBV		100
97)	BENZYL CHLORIDE	18.11	91	2809175	50.02	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:57:08 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:57:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

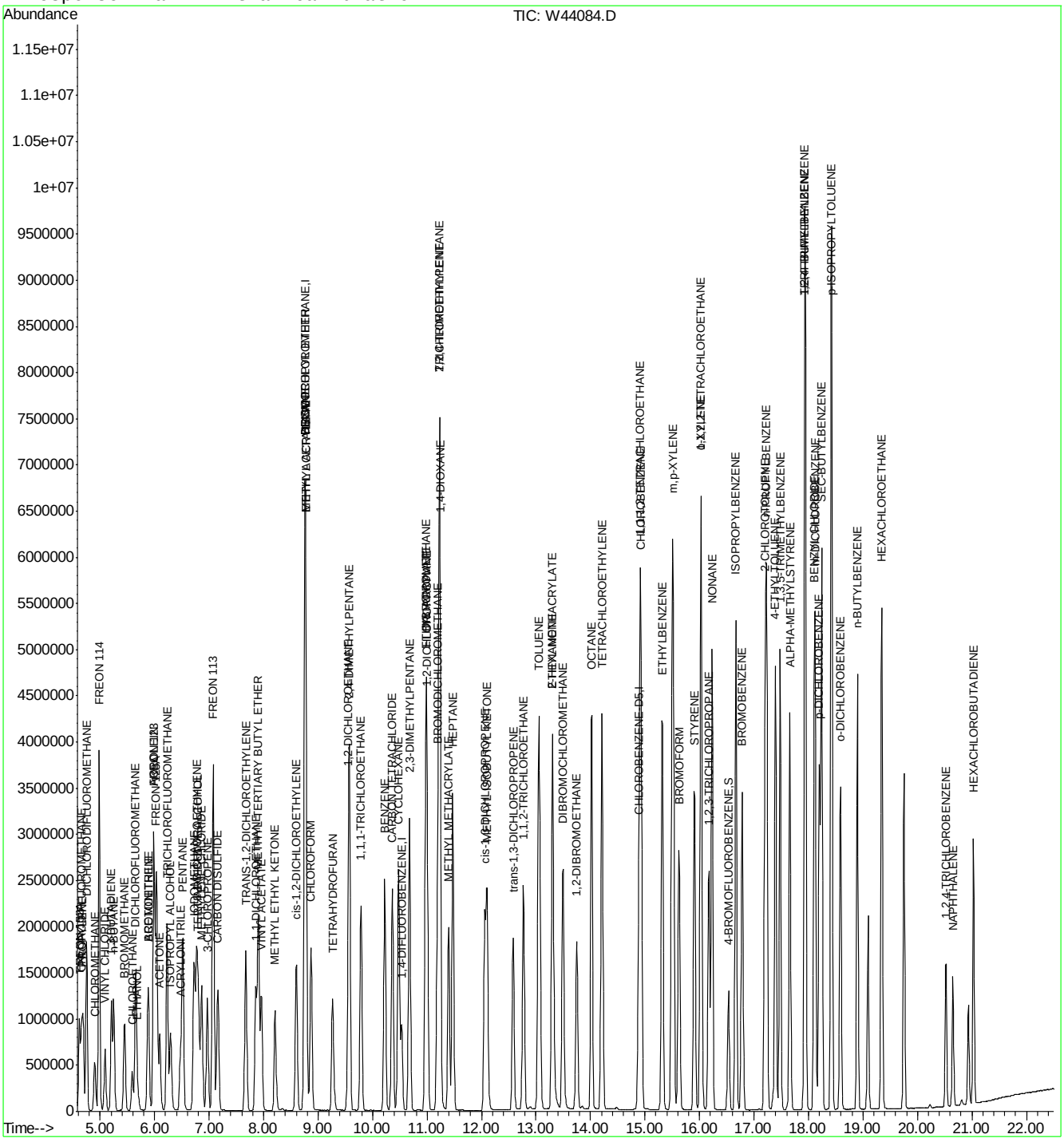
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	2341028	42.87	PPBV	99
99)	SEC-BUTYLBENZENE	18.24	134	1237866	39.75	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	1260011	42.07	PPBV	97
101)	o-DICHLOROBENZENE	18.59	146	2162024	42.20	PPBV	100
102)	n-BUTYLBENZENE	18.90	134	1023668	48.29	PPBV	96
103)	HEXACHLOROETHANE	19.34	201	1556967	42.24	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	800456	48.94	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	711035	70.69	PPBV	97
106)	NAPHTHALENE	20.65	128	1477886	69.87	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:58 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	213113	10.00	PPBV	-0.01
50) 1,4-DIFLUOROBENZENE	10.53	114	1101949	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	524440	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	639034	10.26	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.60%			
Target Compounds						Qvalue
3) FREON 152A	4.61	65	377942	24.44	PPBV	99
4) CHLORODIFLUOROMETHANE	4.66	67	148698	25.29	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.75	85	1600959	27.27	PPBV	99
6) PROPYLENE	4.69	41	505498	25.14	PPBV	98
7) FREON 114	4.98	85	1675550	27.64	PPBV	100
8) CHLOROMETHANE	4.90	52	185058	26.04	PPBV #	88
9) VINYL CHLORIDE	5.09	62	699574	27.52	PPBV	100
10) 1,3-BUTADIENE	5.21	54	526362	27.02	PPBV	98
11) n-BUTANE	5.26	58	147222	27.20	PPBV	99
12) BROMOMETHANE	5.45	94	645414	27.52	PPBV	99
13) CHLOROETHANE	5.59	64	393975	27.78	PPBV	99
14) DICHLOROFLUOROMETHANE	5.65	67	1415981	27.29	PPBV	100
15) ACROLEIN	5.98	56	273656	25.95	PPBV	99
16) FREON 123	5.99	83	1542342	27.38	PPBV #	99
17) FREON 123A	6.04	117	1023373	27.77	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.23	101	1654303	27.75	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	839286	23.43	PPBV	99
20) ACETONE	6.09	58	332390	23.83	PPBV	99
21) ACRYLONITRILE	6.47	53	533110	27.75	PPBV	99
22) PENTANE	6.52	57	185296	25.33	PPBV	99
24) IODOMETHANE	6.72	142	1879870	28.21	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	697189	27.73	PPBV	99
26) CARBON DISULFIDE	7.16	76	2047955	27.89	PPBV	99
27) ETHANOL	5.68	45	199541	21.39	PPBV	97
28) ACETONITRILE	5.87	41	509038	25.91	PPBV	97
29) BROMOETHENE	5.88	106	693074	28.00	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	662135	24.20	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	330438	28.74	PPBV	97
32) FREON 113	7.08	151	1332693	28.25	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	744672	27.87	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.80	59	1045417	28.77	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	1978142	27.92	PPBV	99
36) TETRAHYDROFURAN	9.27	72	350038	27.30	PPBV	99
37) HEXANE	8.76	57	1200201	27.63	PPBV	98
38) VINYL ACETATE	7.96	86	195016	29.66	PPBV #	59
39) 1,1-DICHLOROETHANE	7.86	63	1277436	27.87	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	358410	27.95	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.60	96	768345	28.30	PPBV	98
42) DI-ISOPROPYL ETHER	8.75	45	2418839	27.34	PPBV	99
43) ETHYL ACETATE	8.78	61	232326	28.47	PPBV	97
44) METHYL ACRYLATE	8.78	55	1308742	28.50	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	1400303	27.67	PPBV		100
46)	2,4-DIMETHYLPENTANE	9.57	57	1405978	28.19	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	1454168	28.40	PPBV		100
48)	CARBON TETRACHLORIDE	10.36	117	1526180	29.63	PPBV		100
49)	1,2-DICHLOROETHANE	9.55	62	857852	27.96	PPBV		100
51)	BENZENE	10.22	78	2312314	27.52	PPBV		100
52)	CYCLOHEXANE	10.47	84	1076189	27.71	PPBV		96
53)	2,3-DIMETHYLPENTANE	10.67	71	547646	27.80	PPBV		98
54)	TRICHLOROETHYLENE	11.22	95	968951	27.81	PPBV		99
55)	DIBROMOMETHANE	10.98	174	1055434	28.43	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	848087	27.66	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	1582018	28.89	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	1524830	28.54	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	3837347	28.35	PPBV		99
60)	1,4-DIOXANE	11.24	88	388105	26.82	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	809868	28.24	PPBV		99
62)	HEPTANE	11.47	43	1324388	28.02	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.10	43	1496287	30.28	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	1315675	28.83	PPBV		99
66)	TOLUENE	13.04	92	1642703	27.55	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	1159830	30.12	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.77	83	734293	27.36	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	1359841	28.37	PPBV		99
71)	2-HEXANONE	13.31	43	1366755	29.87	PPBV		99
72)	TETRACHLOROETHYLENE	14.21	164	1181879	26.39	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	1606325	27.54	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	1350732	27.72	PPBV		100
75)	OCTANE	14.02	43	1754774	26.45	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	1195407	27.27	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	2125438	26.64	PPBV		99
78)	ETHYLBENZENE	15.31	91	3359569	26.27	PPBV		100
79)	m,p-XYLENE	15.51	106	2668191	53.21	PPBV		99
80)	o-XYLENE	16.02	106	1262926	26.56	PPBV		100
81)	STYRENE	15.91	104	1971031	27.66	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	1251123	27.13	PPBV		100
83)	NONANE	16.23	43	1726298	27.65	PPBV		99
84)	BROMOFORM	15.62	173	1611254	29.01	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	1573310	27.12	PPBV		99
87)	ISOPROPYLBENZENE	16.67	105	3737553	26.67	PPBV		99
88)	BROMOBENZENE	16.78	156	1162361	27.73	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	896472	27.39	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	1007290	27.78	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	3289949	28.44	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	2728006	27.65	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	1391308	29.52	PPBV		100
94)	TERT-BUTYLBENZENE	17.94	134	745084	27.74	PPBV		99
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	2614397	28.65	PPBV		99
96)	m-DICHLOROBENZENE	18.12	146	1708220	30.43	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	1887337	33.73	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

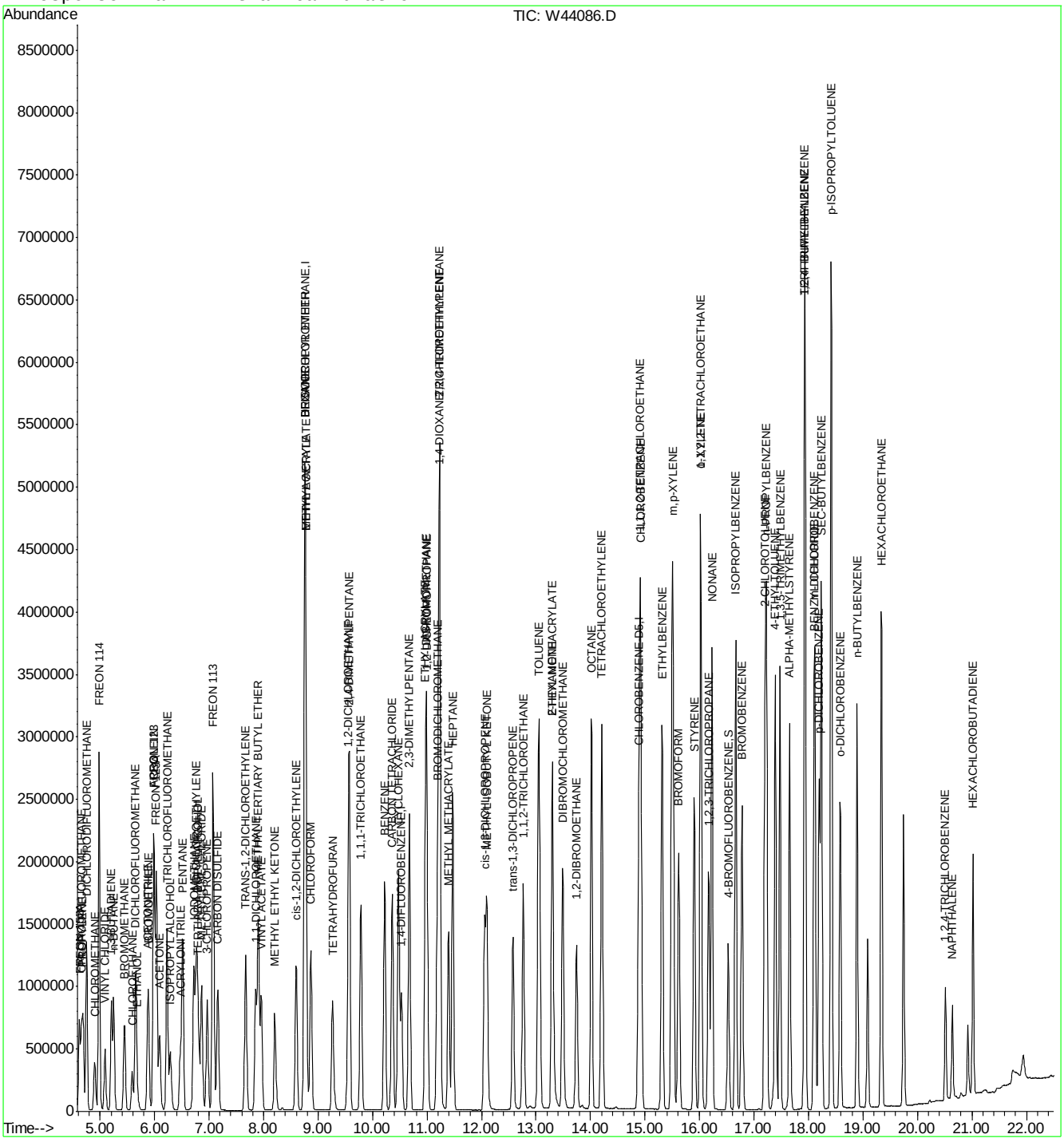
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	1607855	30.20	PPBV	100
99)	SEC-BUTYLBENZENE	18.24	134	869728	28.93	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	883194	30.33	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	1529713	30.70	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	705485	33.57	PPBV	95
103)	HEXACHLOROETHANE	19.34	201	1129262	31.49	PPBV	97
104)	HEXACHLOROBUTADIENE	21.02	225	516464	31.80	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.51	180	406455	38.17	PPBV	97
106)	NAPHTHALENE	20.64	128	790827	35.39	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:59 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:27 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	202608	10.00	PPBV	-0.01
50) 1,4-DIFLUOROBENZENE	10.53	114	1056604	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	491086	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	595255	10.21	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.10%			
Target Compounds						Qvalue
3) FREON 152A	4.61	65	247363	16.82	PPBV	100
4) CHLORODIFLUOROMETHANE	4.66	67	99020	17.71	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.75	85	1058869	18.97	PPBV	100
6) PROPYLENE	4.69	41	333943	17.47	PPBV	98
7) FREON 114	4.98	85	1095312	19.00	PPBV	100
8) CHLOROMETHANE	4.90	52	122166	18.08	PPBV	99
9) VINYL CHLORIDE	5.09	62	461923	19.12	PPBV	100
10) 1,3-BUTADIENE	5.21	54	346694	18.72	PPBV	100
11) n-BUTANE	5.25	58	96385	18.73	PPBV	99
12) BROMOMETHANE	5.44	94	422300	18.94	PPBV	99
13) CHLOROETHANE	5.58	64	255873	18.98	PPBV	98
14) DICHLOROFLUOROMETHANE	5.65	67	935952	18.98	PPBV	100
15) ACROLEIN	5.98	56	178300	17.78	PPBV	98
16) FREON 123	5.99	83	1002787	18.73	PPBV #	99
17) FREON 123A	6.03	117	665014	18.98	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.22	101	1090115	19.23	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	717634	21.07	PPBV	97
20) ACETONE	6.09	58	213739	16.12	PPBV	100
21) ACRYLONITRILE	6.47	53	344639	18.87	PPBV	100
22) PENTANE	6.51	57	121896	17.53	PPBV	99
24) IODOMETHANE	6.72	142	1217680	19.22	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	449214	18.79	PPBV	99
26) CARBON DISULFIDE	7.16	76	1328763	19.03	PPBV	99
27) ETHANOL	5.69	45	166556	18.78	PPBV	97
28) ACETONITRILE	5.87	41	330840	17.71	PPBV	100
29) BROMOETHENE	5.88	106	451315	19.18	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	457726	17.60	PPBV	99
31) 3-CHLOROPROPENE	6.96	76	213079	19.49	PPBV	98
32) FREON 113	7.07	151	856188	19.09	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.67	96	486975	19.17	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.80	59	864505	25.03	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	1272616	18.89	PPBV	99
36) TETRAHYDROFURAN	9.27	72	225291	18.48	PPBV	99
37) HEXANE	8.76	57	779107	18.86	PPBV	98
38) VINYL ACETATE	7.96	86	121871	19.50	PPBV	96
39) 1,1-DICHLOROETHANE	7.85	63	823651	18.90	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	229228	18.80	PPBV	93
41) cis-1,2-DICHLOROETHYLENE	8.60	96	494422	19.16	PPBV	98
42) DI-ISOPROPYL ETHER	8.75	45	1576768	18.74	PPBV	100
43) ETHYL ACETATE	8.78	61	151149	19.48	PPBV #	96
44) METHYL ACRYLATE	8.77	55	842409	19.30	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:27 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.86	83	905508	18.82	PPBV		100
46)	2,4-DIMETHYLPENTANE	9.57	57	912061	19.24	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	939891	19.31	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	991318	20.24	PPBV		100
49)	1,2-DICHLOROETHANE	9.55	62	554155	19.00	PPBV		100
51)	BENZENE	10.22	78	1485715	18.44	PPBV		100
52)	CYCLOHEXANE	10.47	84	696591	18.70	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.67	71	353423	18.71	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	627016	18.77	PPBV		99
55)	DIBROMOMETHANE	10.98	174	682100	19.16	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	544139	18.51	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	1022259	19.47	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	985652	19.24	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	2492305	19.20	PPBV		99
60)	1,4-DIOXANE	11.24	88	312524	22.52	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	520258	18.92	PPBV		99
62)	HEPTANE	11.47	43	856171	18.89	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.10	43	984773	20.78	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.06	75	843021	19.27	PPBV		99
66)	TOLUENE	13.04	92	1062643	18.59	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	741230	20.08	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.77	83	478272	18.59	PPBV		99
70)	ETHYL METHACRYLATE	13.30	69	886420	19.75	PPBV		100
71)	2-HEXANONE	13.31	43	902223	21.06	PPBV		99
72)	TETRACHLOROETHYLENE	14.20	164	768632	18.33	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	1039212	19.02	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	870483	19.08	PPBV		100
75)	OCTANE	14.02	43	1135699	18.28	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	769053	18.74	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	1364727	18.27	PPBV		99
78)	ETHYLBENZENE	15.31	91	2164132	18.07	PPBV		100
79)	m,p-XYLENE	15.50	106	1713644	36.50	PPBV		99
80)	o-XYLENE	16.02	106	812474	18.25	PPBV		100
81)	STYRENE	15.91	104	1258102	18.85	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	804919	18.64	PPBV		100
83)	NONANE	16.23	43	1103599	18.88	PPBV		100
84)	BROMOFORM	15.61	173	1030534	19.82	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	1007005	18.53	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	2401455	18.30	PPBV		100
88)	BROMOBENZENE	16.78	156	744325	18.96	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	573150	18.70	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	643909	18.96	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	2097622	19.37	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	1740068	18.83	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	880880	19.96	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	475929	18.92	PPBV		99
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	1669070	19.53	PPBV		99
96)	m-DICHLOROBENZENE	18.12	146	1064259	20.25	PPBV		99
97)	BENZYL CHLORIDE	18.10	91	1172792	22.38	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:27 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

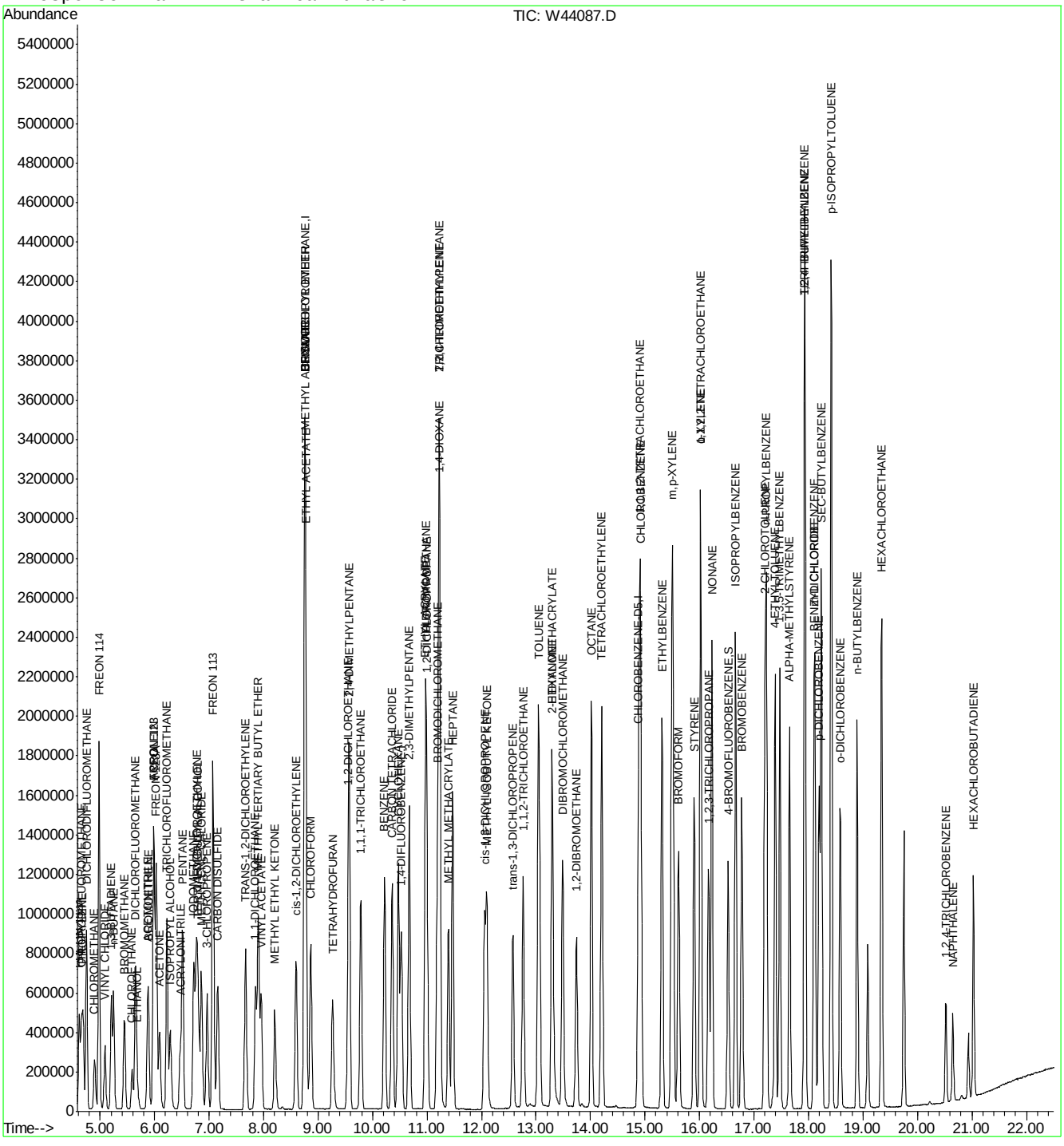
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	1024363	20.55	PPBV	100
99)	SEC-BUTYLBENZENE	18.23	134	558889	19.85	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	554864	20.35	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	946468	20.28	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	430102	21.86	PPBV	97
103)	HEXACHLOROETHANE	19.34	201	699301	20.83	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	309813	20.37	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	235423	23.61	PPBV	98
106)	NAPHTHALENE	20.65	128	471561	22.54	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:58 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:53:52 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 16:00:27 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	214023	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1109984	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	497356	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	611245	10.34	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.40%			
Target Compounds						Qvalue
3) FREON 152A	4.63	65	221905	14.50	PPBV	100
4) CHLORODIFLUOROMETHANE	4.67	67	78821	13.40	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.77	85	847344	14.42	PPBV	100
6) PROPYLENE	4.70	41	267896	13.31	PPBV	99
7) FREON 114	4.99	85	881679	14.53	PPBV	100
8) CHLOROMETHANE	4.91	52	96978	13.63	PPBV	90
9) VINYL CHLORIDE	5.10	62	368236	14.48	PPBV	99
10) 1,3-BUTADIENE	5.22	54	275865	14.13	PPBV	99
11) n-BUTANE	5.26	58	77027	14.21	PPBV	99
12) BROMOMETHANE	5.46	94	336507	14.35	PPBV	100
13) CHLOROETHANE	5.60	64	206712	14.55	PPBV	99
14) DICHLOROFLUOROMETHANE	5.66	67	744998	14.33	PPBV	99
15) ACROLEIN	5.99	56	145671	13.82	PPBV	97
16) FREON 123	6.00	83	807971	14.35	PPBV #	100
17) FREON 123A	6.04	117	530999	14.41	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.24	101	870748	14.58	PPBV	100
19) ISOPROPYL ALCOHOL	6.30	45	487824	13.26	PPBV	100
20) ACETONE	6.10	58	171036	12.23	PPBV	100
21) ACRYLONITRILE	6.48	53	272299	14.15	PPBV	99
22) PENTANE	6.52	57	96794	13.25	PPBV	99
24) IODOMETHANE	6.73	142	973422	14.61	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.78	96	359800	14.32	PPBV	100
26) CARBON DISULFIDE	7.17	76	1068063	14.53	PPBV	99
27) ETHANOL	5.70	45	113323	11.95	PPBV	98
28) ACETONITRILE	5.88	41	262628	13.35	PPBV	98
29) BROMOETHENE	5.90	106	365298	14.76	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	382630	13.80	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	167015	14.54	PPBV	99
32) FREON 113	7.08	151	685889	14.54	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	386499	14.45	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.81	59	611454	15.74	PPBV	100
35) METHYL TERTIARY BUTYL ETHE	7.91	73	1012953	14.33	PPBV	99
36) TETRAHYDROFURAN	9.28	72	179802	14.10	PPBV	99
37) HEXANE	8.77	57	624210	14.35	PPBV	98
38) VINYL ACETATE	7.96	86	98905	15.09	PPBV #	93
39) 1,1-DICHLOROETHANE	7.86	63	657908	14.36	PPBV	99
40) METHYL ETHYL KETONE	8.22	72	181742	14.17	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.60	96	398842	14.68	PPBV	97
42) DI-ISOPROPYL ETHER	8.76	45	1253111	14.17	PPBV	100
43) ETHYL ACETATE	8.78	61	116781	14.32	PPBV #	96
44) METHYL ACRYLATE	8.78	55	673362	14.67	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:53:52 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 16:00:27 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	727320	14.39	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.58	57	723968	14.51	PPBV		100
47)	1,1,1-TRICHLOROETHANE	9.79	97	756066	14.76	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	787329	15.26	PPBV		100
49)	1,2-DICHLOROETHANE	9.55	62	443161	14.44	PPBV		99
51)	BENZENE	10.22	78	1190681	14.16	PPBV		100
52)	CYCLOHEXANE	10.48	84	559539	14.37	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.68	71	281523	14.26	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	500211	14.34	PPBV		99
55)	DIBROMOMETHANE	10.98	174	545504	14.66	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	436372	14.22	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	793168	14.41	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	785182	14.66	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	1962855	14.45	PPBV		99
60)	1,4-DIOXANE	11.25	88	193132	13.01	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	409057	14.24	PPBV		99
62)	HEPTANE	11.47	43	679111	14.32	PPBV		100
64)	METHYL ISOBUTYL KETONE	12.10	43	740888	14.76	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	671192	14.69	PPBV		99
66)	TOLUENE	13.04	92	848122	14.21	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	591624	15.27	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.77	83	381730	14.22	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	677953	14.87	PPBV		100
71)	2-HEXANONE	13.31	43	693006	15.75	PPBV		99
72)	TETRACHLOROETHYLENE	14.20	164	613283	14.55	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.49	129	824444	14.99	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	693025	15.10	PPBV		100
75)	OCTANE	14.02	43	895787	14.33	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	612011	14.85	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	1086866	14.48	PPBV		99
78)	ETHYLBENZENE	15.31	91	1717959	14.29	PPBV		100
79)	m,p-XYLENE	15.50	106	1357333	28.79	PPBV		99
80)	o-XYLENE	16.02	106	641549	14.35	PPBV		100
81)	STYRENE	15.91	104	988358	14.74	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	633185	14.58	PPBV		99
83)	NONANE	16.23	43	861826	14.64	PPBV		99
84)	BROMOFORM	15.61	173	814864	15.57	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	801247	14.65	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	1903380	14.44	PPBV		99
88)	BROMOBENZENE	16.78	156	589840	14.94	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	455976	14.81	PPBV	#	99
90)	n-PROPYLBENZENE	17.23	120	512470	15.02	PPBV		96
91)	4-ETHYLTOLUENE	17.39	105	1643698	15.07	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	1393311	14.99	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.66	118	691105	15.53	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	384231	15.16	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	1358826	15.76	PPBV		96
96)	m-DICHLOROBENZENE	18.12	146	836879	15.75	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	917329	17.17	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:53:52 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 16:00:27 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

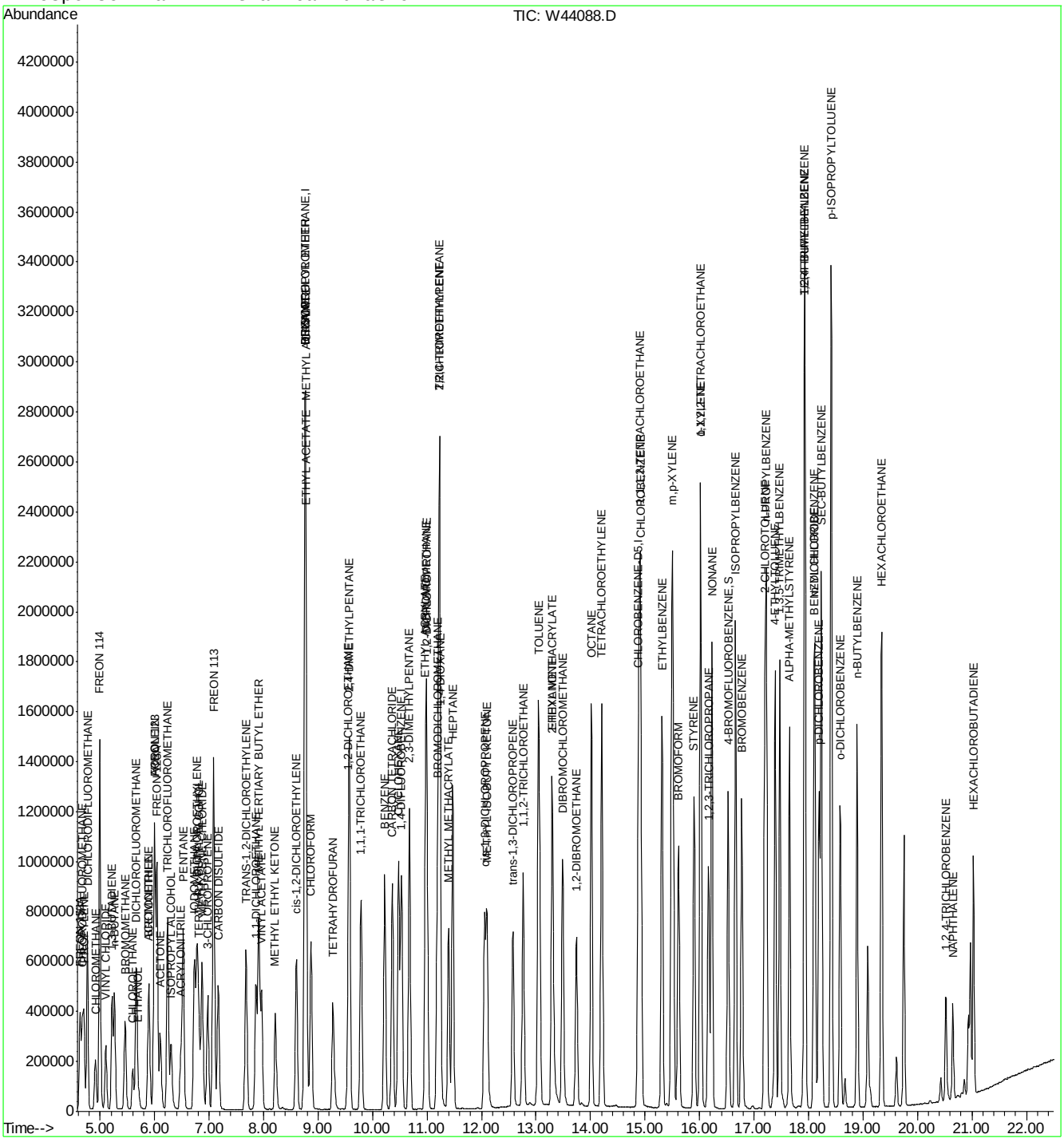
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.19	146	805466	15.97	PPBV	100
99)	SEC-BUTYLBENZENE	18.23	134	436668	15.34	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.42	134	432128	15.55	PPBV	99
101)	o-DICHLOROBENZENE	18.58	146	744640	15.71	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	331716	16.36	PPBV	99
103)	HEXACHLOROETHANE	19.34	201	545536	16.00	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	263015	16.19	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	189574	17.60	PPBV	96
106)	NAPHTHALENE	20.65	128	407874	18.31	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:54 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 09:18:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	212260	10.00	PPBV	-0.01
50) 1,4-DIFLUOROBENZENE	10.53	114	1081575	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	467624	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	583522	10.52	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.20%			
Target Compounds						Qvalue
3) FREON 152A	4.63	65	149635	9.86	PPBV	99
4) CHLORODIFLUOROMETHANE	4.67	67	53624	9.20	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.77	85	578047	9.72	PPBV	100
6) PROPYLENE	4.70	41	185424	9.30	PPBV	95
7) FREON 114	4.99	85	597109	9.70	PPBV	100
8) CHLOROMETHANE	4.91	52	66945	9.52	PPBV #	88
9) VINYL CHLORIDE	5.10	62	251954	9.92	PPBV	100
10) 1,3-BUTADIENE	5.22	54	192247	9.63	PPBV	98
11) n-BUTANE	5.26	58	50870	9.46	PPBV	94
12) BROMOMETHANE	5.46	94	231389	9.80	PPBV	99
13) CHLOROETHANE	5.60	64	140026	9.90	PPBV	98
14) DICHLOROFLUOROMETHANE	5.66	67	502738	9.77	PPBV	99
15) ACROLEIN	5.99	56	92977	8.91	PPBV	99
16) FREON 123	5.99	83	541212	9.52	PPBV #	100
17) FREON 123A	6.04	117	352656	9.50	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.24	101	590540	9.86	PPBV	100
19) ISOPROPYL ALCOHOL	6.30	45	305830	8.40	PPBV	99
20) ACETONE	6.11	58	109788	7.94	PPBV	98
21) ACRYLONITRILE	6.48	53	178080	9.38	PPBV	99
22) PENTANE	6.52	57	67151	9.74	PPBV	94
24) IODOMETHANE	6.73	142	670974	10.08	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	243800	9.81	PPBV	98
26) CARBON DISULFIDE	7.17	76	667329	9.06	PPBV	99
27) ETHANOL	5.71	45	71560	7.69	PPBV	98
28) ACETONITRILE	5.88	41	169200	9.00	PPBV	98
29) BROMOETHENE	5.90	106	250853	10.06	PPBV	99
30) METHYLENE CHLORIDE	6.87	84	237473	8.54	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	113745	9.80	PPBV	97
32) FREON 113	7.08	151	443905	9.34	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	252065	9.52	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.82	59	391973	10.00	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.91	73	651756	9.10	PPBV	99
36) TETRAHYDROFURAN	9.28	72	112903	8.87	PPBV	98
37) HEXANE	8.76	57	398926	9.27	PPBV	99
38) VINYL ACETATE	7.96	86	63733	9.58	PPBV	97
39) 1,1-DICHLOROETHANE	7.86	63	434008	9.47	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	117098	9.15	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.60	96	266202	9.90	PPBV	98
42) DI-ISOPROPYL ETHER	8.76	45	818476	9.19	PPBV	100
43) ETHYL ACETATE	8.78	61	70753	8.81	PPBV #	89
44) METHYL ACRYLATE	8.78	55	439226	9.54	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 09:18:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	480912	9.37	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.57	57	483123	9.53	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	487843	9.36	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	518346	9.97	PPBV		99
49)	1,2-DICHLOROETHANE	9.55	62	289331	9.40	PPBV		98
51)	BENZENE	10.22	78	775490	9.29	PPBV		100
52)	CYCLOHEXANE	10.48	84	365884	9.66	PPBV		99
53)	2,3-DIMETHYLPENTANE	10.67	71	185871	9.69	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	328663	9.19	PPBV		99
55)	DIBROMOMETHANE	10.98	174	360406	9.84	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	282270	9.23	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	521220	9.64	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	537043	10.10	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	1285994	9.65	PPBV		100
60)	1,4-DIOXANE	11.25	88	122355	8.60	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	272843	9.81	PPBV		97
62)	HEPTANE	11.47	43	444458	9.65	PPBV		100
64)	METHYL ISOBUTYL KETONE	12.10	43	505499	10.23	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.06	75	420604	9.24	PPBV		100
66)	TOLUENE	13.04	92	563952	9.64	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	407022	10.50	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.76	83	253897	9.38	PPBV		100
70)	ETHYL METHACRYLATE	13.29	69	439021	10.27	PPBV		98
71)	2-HEXANONE	13.31	43	479296	11.53	PPBV		100
72)	TETRACHLOROETHYLENE	14.20	164	406400	9.76	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	551541	10.68	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	456399	10.34	PPBV		100
75)	OCTANE	14.02	43	582447	9.72	PPBV		98
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	402784	10.16	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	713578	9.89	PPBV		99
78)	ETHYLBENZENE	15.31	91	1132423	9.83	PPBV		100
79)	m,p-XYLENE	15.50	106	902062	20.10	PPBV		98
80)	o-XYLENE	16.02	106	434206	10.19	PPBV		100
81)	STYRENE	15.90	104	653762	10.16	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.16	75	421275	10.02	PPBV		99
83)	NONANE	16.22	43	555697	9.87	PPBV		99
84)	BROMOFORM	15.61	173	558774	11.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	539643	10.20	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1255879	9.96	PPBV		100
88)	BROMOBENZENE	16.78	156	385823	10.27	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	297638	10.05	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	331773	10.28	PPBV		98
91)	4-ETHYLTOLUENE	17.39	105	1091528	10.59	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	912569	10.29	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.65	118	440050	10.44	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	247550	10.25	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	878878	10.71	PPBV		96
96)	m-DICHLOROBENZENE	18.12	146	530459	10.64	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	574538	11.24	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 09:18:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

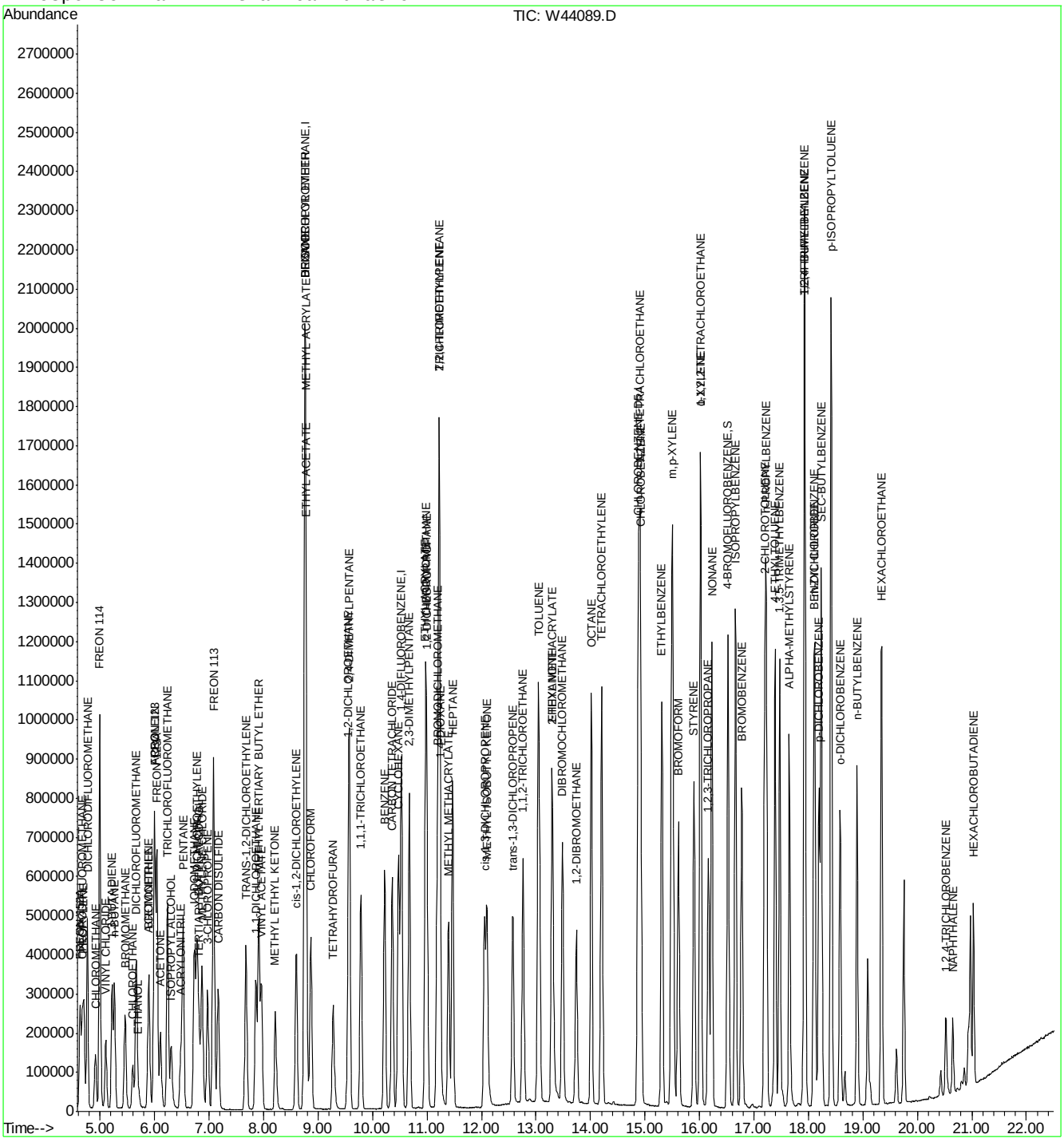
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.19	146	511980	10.72	PPBV	99
99)	SEC-BUTYLBENZENE	18.23	134	276222	10.16	PPBV	100
100)	p-ISOPROPYLTOLUENE	18.41	134	265872	10.08	PPBV	100
101)	o-DICHLOROBENZENE	18.58	146	475629	10.52	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	195800	10.02	PPBV	97
103)	HEXACHLOROETHANE	19.34	201	342988	10.52	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	125890	7.93	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	87450	8.16	PPBV	94
106)	NAPHTHALENE	20.65	128	206057	9.29	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:18 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44119.D Vial: 2
Acq On : 17 Oct 2013 9:26 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 09:49:19 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	176136	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	885536	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	381039	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	493579	10.92	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 109.20%

Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	44296	9.16	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.74	85	462864	9.38	PPBV	100
6) PROPYLENE	4.68	41	145465	8.79	PPBV	96
7) FREON 114	4.97	85	472852	9.26	PPBV	99
8) CHLOROMETHANE	4.89	52	53184	9.11	PPBV	99
9) VINYL CHLORIDE	5.08	62	195837	9.29	PPBV	99
10) 1,3-BUTADIENE	5.19	54	146937	8.87	PPBV	99
11) n-BUTANE	5.24	58	40583	9.10	PPBV	97
12) BROMOMETHANE	5.44	94	178439	9.11	PPBV	99
13) CHLOROETHANE	5.58	64	108090	9.21	PPBV	99
14) DICHLOROFLUOROMETHANE	5.64	67	394991	9.25	PPBV	100
15) ACROLEIN	5.97	56	73501	8.49	PPBV	99
16) FREON 123	5.97	83	430281	9.12	PPBV #	99
17) FREON 123A	6.02	117	283927	9.22	PPBV	97
18) TRICHLOROFLUOROMETHANE	6.22	101	465912	9.38	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	256290	8.48	PPBV	99
20) ACETONE	6.09	58	87247	7.61	PPBV	99
21) ACRYLONITRILE	6.46	53	141752	9.00	PPBV	100
22) PENTANE	6.50	57	50951	8.51	PPBV	97
24) IODOMETHANE	6.71	142	524935	9.51	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	186436	9.04	PPBV	99
26) CARBON DISULFIDE	7.15	76	518784	8.49	PPBV	99
27) ETHANOL	5.68	45	60344	7.81	PPBV	98
28) ACETONITRILE	5.86	41	136681	8.46	PPBV	98
29) BROMOETHENE	5.87	106	194173	9.38	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	200978	8.71	PPBV	98
31) 3-CHLOROPROPENE	6.96	76	88721	9.22	PPBV	98
32) FREON 113	7.07	151	357934	9.08	PPBV	98
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	199321	9.08	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.79	59	329969	10.14	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.90	73	519594	8.75	PPBV	99
36) TETRAHYDROFURAN	9.27	72	89226	8.45	PPBV	97
37) HEXANE	8.75	57	314931	8.82	PPBV	99
38) VINYL ACETATE	7.95	86	52751	9.55	PPBV #	85
39) 1,1-DICHLOROETHANE	7.85	63	342738	9.01	PPBV	99
40) METHYL ETHYL KETONE	8.20	72	94152	8.86	PPBV #	89
41) cis-1,2-DICHLOROETHYLENE	8.58	96	213581	9.57	PPBV	97
42) DI-ISOPROPYL ETHER	8.75	45	640026	8.66	PPBV	99
43) ETHYL ACETATE	8.77	61	55825	8.37	PPBV #	88
44) METHYL ACRYLATE	8.77	55	347440	9.09	PPBV	100
45) CHLOROFORM	8.86	83	384249	9.02	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44119.D Vial: 2
Acq On : 17 Oct 2013 9:26 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 09:49:19 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.57	57	376302	8.95	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	391179	9.04	PPBV		99
48)	CARBON TETRACHLORIDE	10.35	117	419538	9.72	PPBV		100
49)	1,2-DICHLOROETHANE	9.54	62	233817	9.15	PPBV		99
51)	BENZENE	10.21	78	625284	9.15	PPBV		99
52)	CYCLOHEXANE	10.47	84	292310	9.42	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.67	71	146591	9.34	PPBV		99
54)	TRICHLOROETHYLENE	11.21	95	266464	9.10	PPBV		99
55)	DIBROMOMETHANE	10.97	174	294904	9.83	PPBV		98
56)	1,2-DICHLOROPROPANE	10.99	63	225007	8.99	PPBV		99
57)	ETHYL ACRYLATE	10.96	55	406476	9.19	PPBV		98
58)	BROMODICHLOROMETHANE	11.18	83	431327	9.91	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	1016682	9.32	PPBV		99
60)	1,4-DIOXANE	11.25	88	104692	8.99	PPBV	#	77
61)	METHYL METHACRYLATE	11.39	69	212292	9.33	PPBV		97
62)	HEPTANE	11.47	43	351486	9.32	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.10	43	395330	9.77	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.05	75	334491	8.98	PPBV		100
66)	TOLUENE	13.03	92	455288	9.51	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.57	75	325248	10.24	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.75	83	204399	9.23	PPBV		99
70)	ETHYL METHACRYLATE	13.29	69	349093	10.02	PPBV		98
71)	2-HEXANONE	13.30	43	369927	10.92	PPBV		98
72)	TETRACHLOROETHYLENE	14.20	164	334703	9.86	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	453287	10.78	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	371798	10.34	PPBV		100
75)	OCTANE	14.01	43	445138	9.12	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	328398	10.16	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	581858	9.90	PPBV		99
78)	ETHYLBENZENE	15.31	91	906924	9.66	PPBV		99
79)	m,p-XYLENE	15.50	106	728565	19.93	PPBV		99
80)	o-XYLENE	16.02	106	354779	10.22	PPBV		98
81)	STYRENE	15.90	104	525769	10.03	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	337225	9.84	PPBV		99
83)	NONANE	16.23	43	426706	9.30	PPBV		97
84)	BROMOFORM	15.61	173	466269	11.46	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	435997	10.11	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	1018550	9.92	PPBV		99
88)	BROMOBENZENE	16.78	156	321958	10.52	PPBV		96
89)	2-CHLOROTOLUENE	17.20	126	245065	10.16	PPBV	#	98
90)	n-PROPYLBENZENE	17.23	120	270263	10.28	PPBV		96
91)	4-ETHYLTOLUENE	17.39	105	893819	10.64	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	738514	10.22	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.65	118	358966	10.45	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	200195	10.17	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	692584	10.36	PPBV		100
96)	m-DICHLOROBENZENE	18.12	146	451987	11.13	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	477195	11.45	PPBV		100
98)	p-DICHLOROBENZENE	18.19	146	428414	11.00	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44119.D Vial: 2
Acq On : 17 Oct 2013 9:26 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 17 09:49:19 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

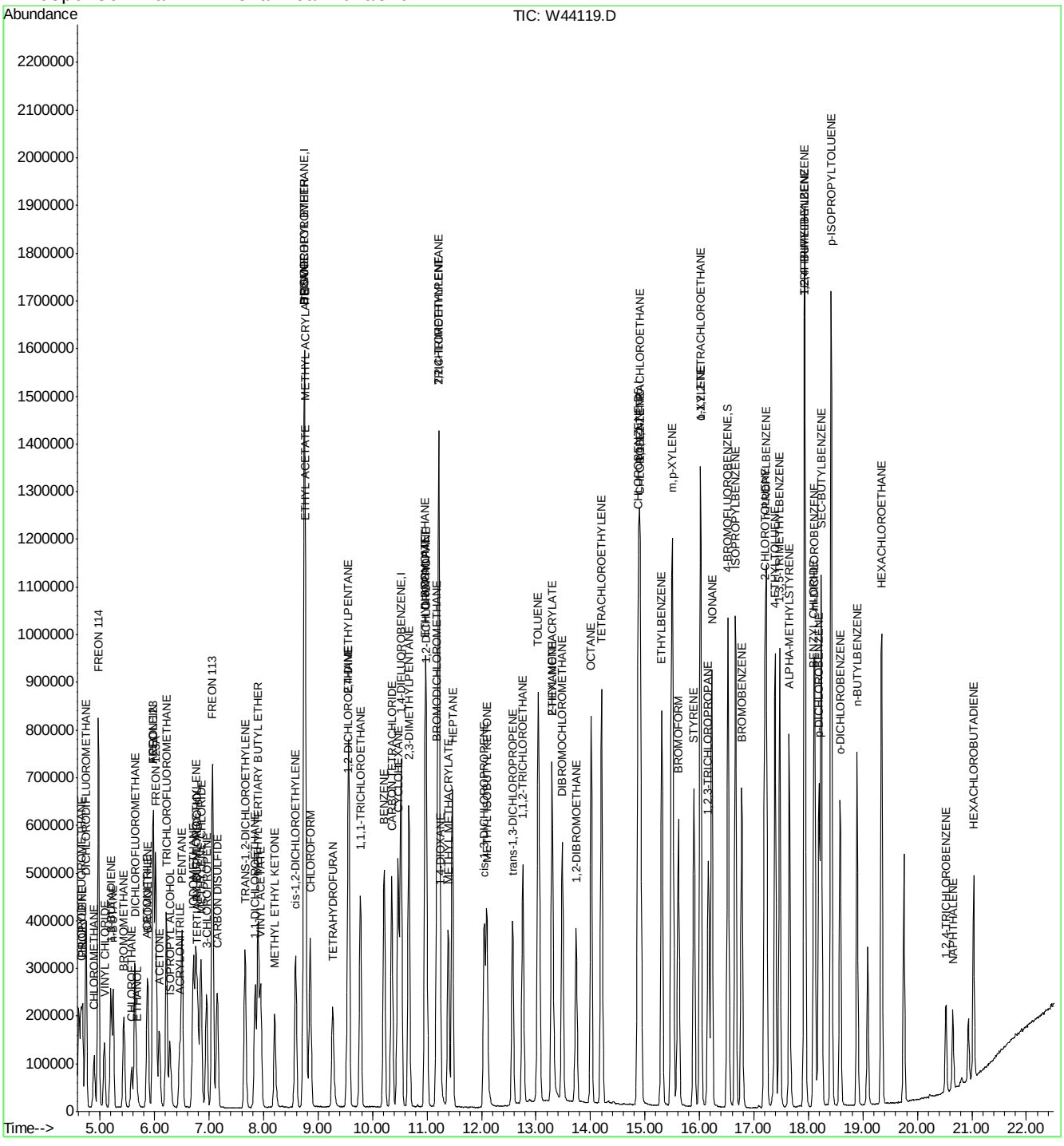
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	228881	10.33	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.41	134	225897	10.51	PPBV	97
101)	o-DICHLOROBENZENE	18.58	146	401439	10.90	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	167833	10.54	PPBV	93
103)	HEXACHLOROETHANE	19.34	201	290916	10.95	PPBV	97
104)	HEXACHLOROBUTADIENE	21.03	225	119229	9.22	PPBV	100
105)	1,2,4-TRICHLOROBENZENE	20.53	180	86098	9.86	PPBV	99
106)	NAPHTHALENE	20.65	128	175876	9.73	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44119.D Vial: 2
Acq On : 17 Oct 2013 9:26 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56442,VW1767,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:45 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44146.D Vial: 2
Acq On : 18 Oct 2013 9:40 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 16:58:49 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	165046	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	841466	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	355128	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	437502	10.38	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.80%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	40181	8.86	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.74	85	422952	9.15	PPBV	100
6) PROPYLENE	4.67	41	135545	8.74	PPBV	97
7) FREON 114	4.96	85	433046	9.05	PPBV	100
8) CHLOROMETHANE	4.88	52	49181	8.99	PPBV	96
9) VINYL CHLORIDE	5.07	62	179249	9.08	PPBV	100
10) 1,3-BUTADIENE	5.19	54	137097	8.83	PPBV	98
11) n-BUTANE	5.23	58	37753	9.03	PPBV	99
12) BROMOMETHANE	5.43	94	164645	8.97	PPBV	100
13) CHLOROETHANE	5.57	64	100502	9.14	PPBV	99
14) DICHLOROFLUOROMETHANE	5.63	67	365370	9.13	PPBV	100
15) ACROLEIN	5.96	56	66209	8.16	PPBV	99
16) FREON 123	5.97	83	395534	8.95	PPBV #	100
17) FREON 123A	6.02	117	257150	8.91	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.21	101	427211	9.18	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	256359	9.05	PPBV	96
20) ACETONE	6.08	58	92771	8.63	PPBV	99
21) ACRYLONITRILE	6.46	53	124864	8.46	PPBV	99
22) PENTANE	6.50	57	47052	8.78	PPBV	99
24) IODOMETHANE	6.71	142	475861	9.20	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	173966	9.01	PPBV	98
26) CARBON DISULFIDE	7.14	76	479429	8.37	PPBV	99
27) ETHANOL	5.68	45	60262	8.33	PPBV	95
28) ACETONITRILE	5.86	41	120916	8.27	PPBV	99
29) BROMOETHENE	5.87	106	179765	9.27	PPBV	100
30) METHYLENE CHLORIDE	6.85	84	191544	8.85	PPBV	98
31) 3-CHLOROPROPENE	6.95	76	82037	9.09	PPBV	95
32) FREON 113	7.06	151	320608	8.68	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	183040	8.89	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.79	59	330317	10.83	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.89	73	449194	8.07	PPBV	99
36) TETRAHYDROFURAN	9.27	72	96351	9.74	PPBV	98
37) HEXANE	8.75	57	289362	8.64	PPBV	97
38) VINYL ACETATE	7.94	86	45065	8.71	PPBV #	92
39) 1,1-DICHLOROETHANE	7.84	63	311423	8.74	PPBV	99
40) METHYL ETHYL KETONE	8.20	72	91218	9.16	PPBV #	90
41) cis-1,2-DICHLOROETHYLENE	8.58	96	192578	9.21	PPBV	97
42) DI-ISOPROPYL ETHER	8.75	45	556670	8.04	PPBV	99
43) ETHYL ACETATE	8.77	61	48874	7.82	PPBV #	88
44) METHYL ACRYLATE	8.77	55	303893	8.49	PPBV	99
45) CHLOROFORM	8.85	83	343535	8.61	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44146.D Vial: 2
Acq On : 18 Oct 2013 9:40 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 16:58:49 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.56	57	339300	8.61	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.77	97	351498	8.67	PPBV		99
48)	CARBON TETRACHLORIDE	10.35	117	372486	9.21	PPBV		100
49)	1,2-DICHLOROETHANE	9.53	62	206164	8.61	PPBV		100
51)	BENZENE	10.21	78	555967	8.56	PPBV		100
52)	CYCLOHEXANE	10.47	84	262868	8.92	PPBV		99
53)	2,3-DIMETHYLPENTANE	10.66	71	132413	8.87	PPBV		99
54)	TRICHLOROETHYLENE	11.21	95	235839	8.48	PPBV		99
55)	DIBROMOMETHANE	10.97	174	255142	8.95	PPBV		100
56)	1,2-DICHLOROPROPANE	10.99	63	198755	8.35	PPBV		99
57)	ETHYL ACRYLATE	10.96	55	342696	8.15	PPBV		98
58)	BROMODICHLOROMETHANE	11.17	83	382148	9.24	PPBV		99
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	916997	8.84	PPBV		99
60)	1,4-DIOXANE	11.25	88	103694	9.37	PPBV	#	45
61)	METHYL METHACRYLATE	11.39	69	183801	8.50	PPBV		95
62)	HEPTANE	11.46	43	315982	8.82	PPBV		98
64)	METHYL ISOBUTYL KETONE	12.10	43	339703	8.84	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.05	75	297359	8.40	PPBV		99
66)	TOLUENE	13.03	92	395032	8.68	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.57	75	286670	9.50	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.75	83	177231	8.42	PPBV		99
70)	ETHYL METHACRYLATE	13.29	69	296127	9.12	PPBV		99
71)	2-HEXANONE	13.31	43	311920	9.88	PPBV		98
72)	TETRACHLOROETHYLENE	14.20	164	292341	9.24	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.48	129	394585	10.07	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	320121	9.55	PPBV		100
75)	OCTANE	14.01	43	401765	8.83	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	286002	9.50	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	502968	9.18	PPBV		99
78)	ETHYLBENZENE	15.31	91	787427	9.00	PPBV		99
79)	m,p-XYLENE	15.50	106	628264	18.44	PPBV		99
80)	o-XYLENE	16.02	106	302237	9.34	PPBV		100
81)	STYRENE	15.90	104	451990	9.25	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	287903	9.02	PPBV		99
83)	NONANE	16.22	43	374005	8.74	PPBV		97
84)	BROMOFORM	15.61	173	393071	10.37	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	373715	9.30	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	867599	9.06	PPBV		99
88)	BROMOBENZENE	16.78	156	272228	9.54	PPBV		98
89)	2-CHLOROTOLUENE	17.20	126	208165	9.26	PPBV	#	98
90)	n-PROPYLBENZENE	17.22	120	230341	9.40	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	754397	9.64	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	616947	9.16	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.65	118	300953	9.40	PPBV		99
94)	TERT-BUTYLBENZENE	17.92	134	164474	8.96	PPBV		99
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	580214	9.31	PPBV		100
96)	m-DICHLOROBENZENE	18.11	146	376801	9.95	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	397202	10.23	PPBV		100
98)	p-DICHLOROBENZENE	18.19	146	353484	9.74	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44146.D Vial: 2
Acq On : 18 Oct 2013 9:40 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 16:58:49 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

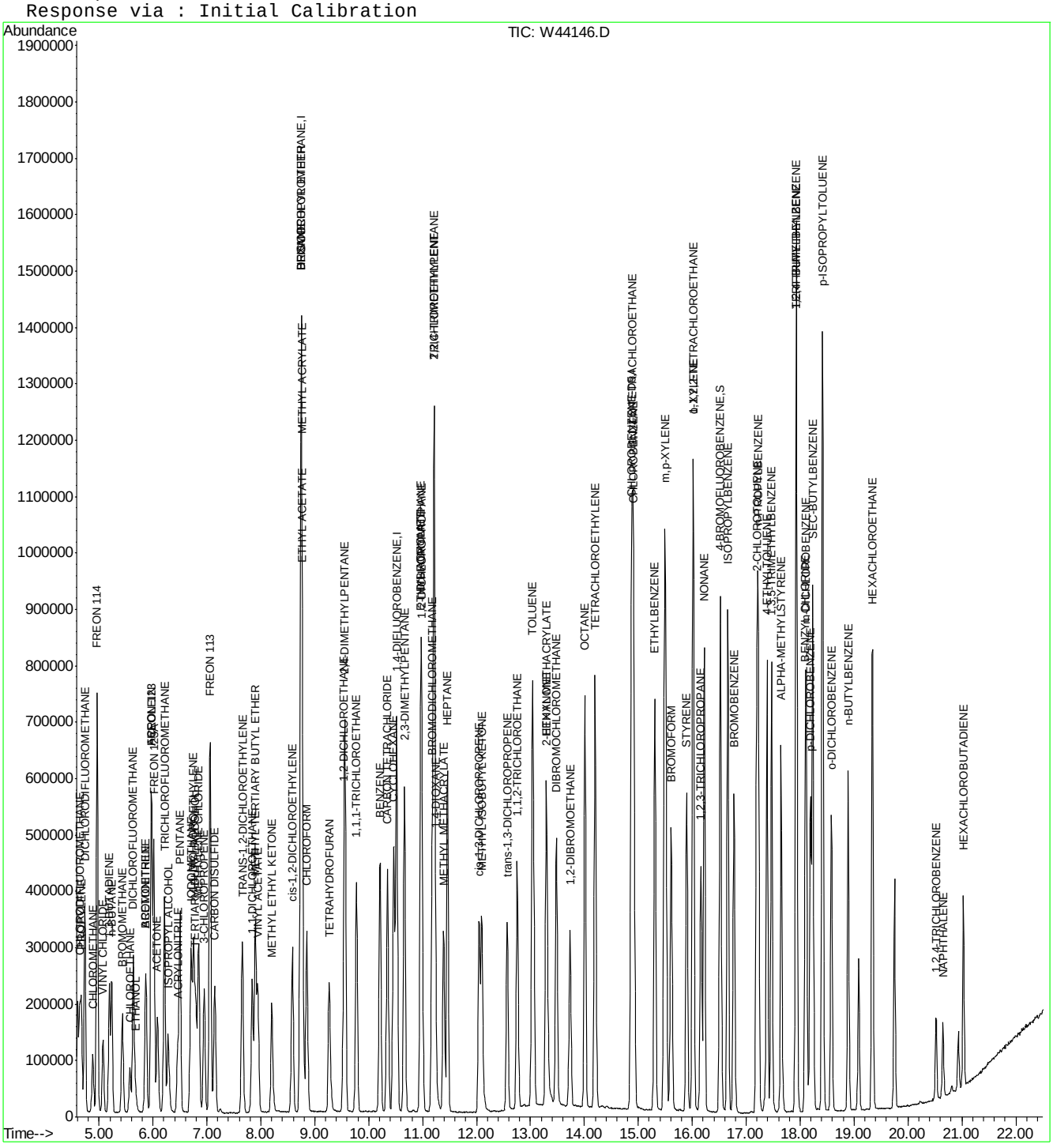
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	190250	9.22	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.41	134	181644	9.07	PPBV	100
101)	o-DICHLOROBENZENE	18.58	146	331844	9.67	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	132308	8.92	PPBV	99
103)	HEXACHLOROETHANE	19.34	201	242214	9.78	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	92659	7.69	PPBV	100
105)	1,2,4-TRICHLOROBENZENE	20.52	180	66317	8.15	PPBV	97
106)	NAPHTHALENE	20.65	128	138809	8.24	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44146.D Vial: 2
Acq On : 18 Oct 2013 9:40 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1768,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 16:59 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44218.D Vial: 2
Acq On : 22 Oct 2013 10:25 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 10:50:22 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	182447	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.52	114	892971	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	381673	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	488056	10.78	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 107.80%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	44746	8.93	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.74	85	469242	9.18	PPBV	99
6) PROPYLENE	4.68	41	147601	8.61	PPBV	97
7) FREON 114	4.96	85	482141	9.11	PPBV	99
8) CHLOROMETHANE	4.89	52	53875	8.91	PPBV	89
9) VINYL CHLORIDE	5.08	62	200489	9.18	PPBV	99
10) 1,3-BUTADIENE	5.19	54	148726	8.66	PPBV	99
11) n-BUTANE	5.24	58	41011	8.88	PPBV	97
12) BROMOMETHANE	5.43	94	185848	9.16	PPBV	100
13) CHLOROETHANE	5.57	64	111075	9.14	PPBV	100
14) DICHLOROFLUOROMETHANE	5.64	67	404004	9.14	PPBV	99
15) ACROLEIN	5.97	56	80880	9.01	PPBV	100
16) FREON 123	5.97	83	442373	9.06	PPBV #	99
17) FREON 123A	6.02	117	295897	9.27	PPBV	96
18) TRICHLOROFLUOROMETHANE	6.21	101	475144	9.23	PPBV	100
19) ISOPROPYL ALCOHOL	6.28	45	290992	9.30	PPBV	98
20) ACETONE	6.08	58	97099	8.17	PPBV	98
21) ACRYLONITRILE	6.46	53	154476	9.47	PPBV	99
22) PENTANE	6.49	57	52055	8.78	PPBV	97
24) IODOMETHANE	6.71	142	545225	9.53	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	194294	9.10	PPBV	96
26) CARBON DISULFIDE	7.14	76	534591	8.44	PPBV	99
27) ETHANOL	5.68	45	70407	8.80	PPBV	98
28) ACETONITRILE	5.86	41	148234	9.17	PPBV	98
29) BROMOETHENE	5.87	106	202546	9.45	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	180792	7.56	PPBV	97
31) 3-CHLOROPROPENE	6.95	76	91601	9.19	PPBV	94
32) FREON 113	7.06	151	371901	9.10	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	207263	9.11	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.80	59	362548	10.76	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.90	73	513211	8.34	PPBV	99
36) TETRAHYDROFURAN	9.27	72	92455	8.45	PPBV	94
37) HEXANE	8.74	57	312564	8.45	PPBV	98
38) VINYL ACETATE	7.94	86	53779	9.40	PPBV #	85
39) 1,1-DICHLOROETHANE	7.84	63	351700	8.93	PPBV	99
40) METHYL ETHYL KETONE	8.20	72	99433	9.04	PPBV	92
41) cis-1,2-DICHLOROETHYLENE	8.58	96	219248	9.49	PPBV	96
42) DI-ISOPROPYL ETHER	8.74	45	617853	8.07	PPBV	98
43) ETHYL ACETATE	8.77	61	57514	8.33	PPBV #	96
44) METHYL ACRYLATE	8.77	55	366588	9.26	PPBV	100
45) CHLOROFORM	8.85	83	389892	8.84	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44218.D Vial: 2
Acq On : 22 Oct 2013 10:25 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 10:50:22 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) 2,4-DIMETHYLPENTANE	9.56	57	373647	8.58	PPBV		97
47) 1,1,1-TRICHLOROETHANE	9.77	97	391827	8.74	PPBV		99
48) CARBON TETRACHLORIDE	10.35	117	421867	9.44	PPBV		100
49) 1,2-DICHLOROETHANE	9.53	62	236203	8.92	PPBV		99
51) BENZENE	10.21	78	636518	9.23	PPBV		99
52) CYCLOHEXANE	10.46	84	297745	9.52	PPBV		96
53) 2,3-DIMETHYLPENTANE	10.66	71	147150	9.29	PPBV		97
54) TRICHLOROETHYLENE	11.21	95	268601	9.10	PPBV		97
55) DIBROMOMETHANE	10.97	174	307476	10.16	PPBV		97
56) 1,2-DICHLOROPROPANE	10.99	63	224883	8.91	PPBV		98
57) ETHYL ACRYLATE	10.96	55	409865	9.19	PPBV		98
58) BROMODICHLOROMETHANE	11.17	83	434143	9.89	PPBV		100
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	1006616	9.15	PPBV		99
60) 1,4-DIOXANE	11.25	88	115202	9.81	PPBV	#	67
61) METHYL METHACRYLATE	11.39	69	215343	9.38	PPBV		94
62) HEPTANE	11.46	43	341037	8.97	PPBV		96
64) METHYL ISOBUTYL KETONE	12.10	43	385934	9.46	PPBV		99
65) cis-1,3-DICHLOROPROPENE	12.05	75	337304	8.98	PPBV		100
66) TOLUENE	13.03	92	459436	9.51	PPBV		100
67) trans-1,3-DICHLOROPROPENE	12.56	75	335278	10.47	PPBV		98
68) 1,1,2-TRICHLOROETHANE	12.75	83	208528	9.33	PPBV		98
70) ETHYL METHACRYLATE	13.29	69	348930	10.00	PPBV		97
71) 2-HEXANONE	13.30	43	378762	11.16	PPBV		97
72) TETRACHLOROETHYLENE	14.20	164	345110	10.15	PPBV		99
73) DIBROMOCHLOROMETHANE	13.48	129	468196	11.11	PPBV		100
74) 1,2-DIBROMOETHANE	13.73	107	387145	10.75	PPBV		100
75) OCTANE	14.00	43	441005	9.02	PPBV		95
76) 1,1,1,2-TETRACHLOROETHANE	14.89	131	344956	10.66	PPBV	#	99
77) CHLOROBENZENE	14.92	112	604409	10.27	PPBV		98
78) ETHYLBENZENE	15.30	91	926067	9.85	PPBV		99
79) m,p-XYLENE	15.50	106	758738	20.72	PPBV		99
80) o-XYLENE	16.02	106	367940	10.58	PPBV		98
81) STYRENE	15.89	104	552203	10.52	PPBV		99
82) 1,2,3-TRICHLOROPROPANE	16.16	75	374572	10.91	PPBV		99
83) NONANE	16.22	43	434608	9.45	PPBV		97
84) BROMOFORM	15.61	173	507288	12.45	PPBV		100
86) 1,1,2,2-TETRACHLOROETHANE	16.02	83	495710	11.48	PPBV		99
87) ISOPROPYLBENZENE	16.66	105	1069300	10.39	PPBV		98
88) BROMOBENZENE	16.77	156	350394	11.43	PPBV		95
89) 2-CHLOROTOLUENE	17.20	126	270854	11.21	PPBV	#	97
90) n-PROPYLBENZENE	17.22	120	297653	11.31	PPBV		92
91) 4-ETHYLTOLUENE	17.39	105	971800	11.55	PPBV		99
92) 1,3,5-TRIMETHYLBENZENE	17.47	105	816416	11.28	PPBV		98
93) ALPHA-METHYLSTYRENE	17.65	118	410201	11.93	PPBV		99
94) TERT-BUTYLBENZENE	17.92	134	225109	11.42	PPBV		97
95) 1,2,4-TRIMETHYLBENZENE	17.93	105	792158	11.83	PPBV		98
96) m-DICHLOROBENZENE	18.11	146	541227	13.30	PPBV		99
97) BENZYL CHLORIDE	18.09	91	582228	13.95	PPBV		98
98) p-DICHLOROBENZENE	18.19	146	513506	13.17	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44218.D Vial: 2
Acq On : 22 Oct 2013 10:25 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 10:50:22 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

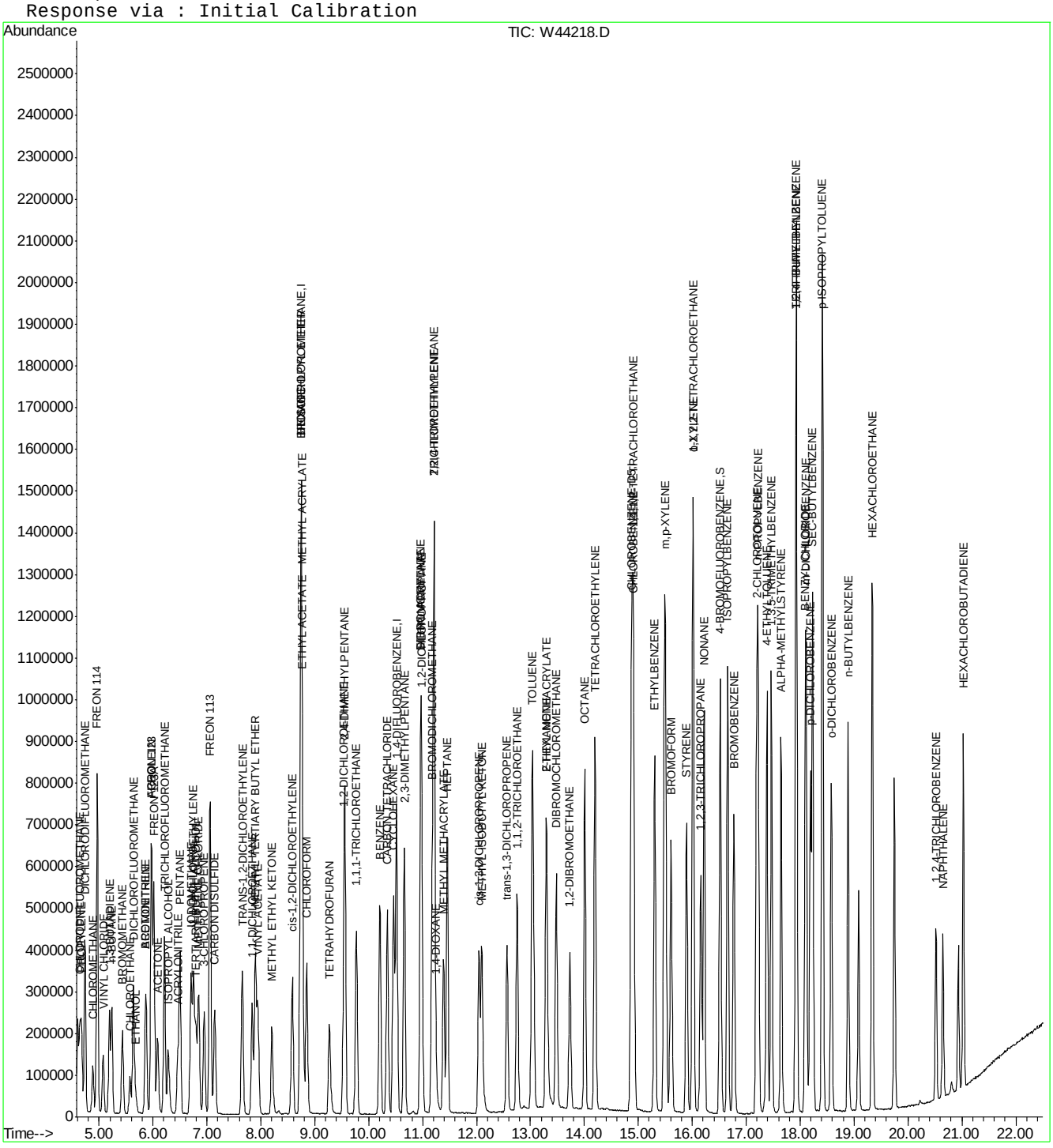
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	266477	12.01	PPBV	96
100)	p-ISOPROPYLTOLUENE	18.41	134	268021	12.45	PPBV	97
101)	o-DICHLOROBENZENE	18.58	146	503064	13.64	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	217027	13.61	PPBV	91
103)	HEXACHLOROETHANE	19.34	201	372969	14.01	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	231434	17.87	PPBV	100
105)	1,2,4-TRICHLOROBENZENE	20.52	180	191832	21.94	PPBV	97
106)	NAPHTHALENE	20.65	128	424549	23.46	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44218.D Vial: 2
Acq On : 22 Oct 2013 10:25 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS57076,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 12:15 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50276

ACCUTEST

TO-14/TO-15

Batch ID: V3W1350

Date: 7/23/13

Analyst Signature: [illegible]

Columns: Rtx-1 60m x 0.32mm
Method: TO15W.m
Seq. File: 3W072311.S
Initial Cal. Method: MSW1350

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS5643	Int/Surr	40 ppbV
AS5674	TO15 Std	40 ppbV
AS5675	TO15 Std	1 ppbV
AS5676	TO15 Std	0.4 ppbV

Standard Data

Lot #	Description	Conc.
AS5673	TO15 LCS	40 ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 7/26/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W35037	BFB		A959	100					OK	time 8:09
2	3W35038	IC1350-10		A974	100					not used	RT Test
2	3W35039	IC1350-10		A974	100			✓	✓	ok	
2	3W35040	IC1350-5		A974	50			✓	✓	ok	
1	3W35041	IC1350-0.5		A972	200					not used	
1	3W35042	IC1350-0.2		A973	80			✓	✓	ok	
2	3W35043	IC1350-30		A974	300			✓	✓	ok	
2	3W35044	IC1350-20		A974	200			✓	✓	ok	
2	3W35045	IC1350-15		A974	150			✓	✓	ok	
5	3W35046	IB		A959	100					—	
1	3W35047	IC1350-0.5		A973	200			✓	✓	ok	
1	3W35048	IC1350-0.1		A973	100			✓	✓	ok	
3	3W35049	IC1350-0.04		A976	40			✓	✓	ok	
2	3W35050	IC1350-40		A974	400			✓	✓	ok	
5	3W35051	IB		A959	100					—	
5	3W35052	IB		A959	100					—	
4	3W35053	IC1350-10		A969	100			✓	✓	ok	
5	3W35054	IB		A959	100					—	
14	3W35055	Scc		A028	100			✓	✓	ok	
15	3W35056	Scc		A744	100			✓	✓	ok	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05
Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Batch ID: V3W1397

Date: 10/7/13

Analyst Signature: [illegible]

Columns: RTX-1 60M X.32mm
Method: TO15SW.M
Seq. File: 3W100713.S
Initial Cal. Method: M3W1350

AS Data

Method: TO15,MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 5742	TO15STD	40ppbv
AS 5743	TO15LCS	↓
AS 5762	IS/SURR	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 10/8/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W36332	BFB		A959	100					ok	
2	3W36333	CC1350-10		A978	100			✓	✓	ok	
3	3W36334	BS		A972	100			✓	✓	ok	
3	3W36335	BSD		A972	100			✓	✓	ok	
5	3W36336	IB		A959	100			✓	✓	—	
5	3W36337	MB		A959	400			✓	✓	ok	
5	3W36338	SCC		A595	400			✓	✓	ok	
6	3W36339	JB48519-1	STD,Nap	A699,A713	200	112		✓	✓	OK/DL	RR20ml
7	3W36340	JB48519-2	↓	A519,A1031	200	1,150		✓	✓	OK/DL	RR50,000X
8	3W36341	JB48519-3	↓	A1120,A731	~~200~~ 100 YH	1,250		✓	✓	ok	
9	3W36342	SCC		A936	400	1		✓	✓	RR	Valve closed
10	3W36343	JB48519-1	STD,Nap	A699	20	1.12		✓	✓	ok	
11	3W36344	JB48519-2	↓	A519,A1031,A595	~~100~~ 150 YH	23,000		✓	✓	ok	
12	3W36345	JB44137-2	STD,Nap CUME	A1030	25	1.25		✓	✓	ok	
13	3W36346	SCC		YH ~~A1237~~	400	1		✓	✓	ok	A936
14	3W36347	JB49227-1	STD	A1225	20	1		↑	✓	OK/DL	RR100X
15	3W36348	JB49227-2	↓	A1232	100	1		✓	✓	ok	
15	3W36349	JB49227-2Dup	↓	A1232	100	1		✓	✓	ok	
16	3W36350	JB49072-1	STD	A703	40	1.43		✓	✓	ok	
1	3W36351	JB49072-2	↓	A684	20	1		✓	✓	ok	
2	3W36352	JB49267-1	STD+	A1160	200	1.52		✓	✓	ok	
3	3W36353	JB49178-1	STD	A1093,A688	20	47.2		✓	✓	ok	
4	3W36354	JB49178-2	↓	A236,A194	20	240		✓	✓	ok	
5	3W36355	JB49178-3	↓	A1174,A746	40	250		✓	✓	ok	
6	3W36356	JB49228-1	STD	A1062	100	1		✓	✓	ok	
7	3W36357	JB49228-2	↓	A258	100	1		✓	✓	ok	
8	3W36358	JB49228-3	↓	A1170	100	1		✓	✓	ok	
9	3W36359	JB49291-1	STD	A863	100	1				notrun	out of BFB Time
10	3W36360	JB49291-2	↓	A271	100	1				↓	↓
11	3W36361	JB49291-3	↓	A193	100	1				↓	↓

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05
Rev. Date: 10/20/09

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7.8.2

7

Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
10/7/13	YH	J848519-1	A699	1.0	1.2	1.12	A713	1000	20	14.7	2000	100	112
↓	|	| -2	A519	2.0	1.1	1.15	A1031	6000	10	9.8	10,000	1,000	1,150
		| -3	A1120	4.0	1.2	1.25	A731	6000	10	9.8	10,000	1,000	1,250
10/	YH	-2	A1031	+14.7	+14.7	1.150	A595	1000	100	14.7	2000	20	23,000

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

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182

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Date: 10/14/13 - 10/15/13

Batch ID: VW1765

Analyst Signature: [illegible]

Columns: RTX1 - 60mx 0.32mm X 1.0µm

Method: W-015. M

Seq. File: W131014.S

Initial Cal. Method: MW1765.M

AS Data

Method: T015 MPT

Standard Data

Lot #	Description	Conc.
AS5771	T015 Std	0.4 ppbv
AS5770	T015 Std	1.0 ppbv
AS5768	T015 Std	40 ppbv

Standard Data

Lot #	Description	Conc.
AS5783	Int Std/Sum	40 ppbv
AS5767	T015 LCS	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 10/16/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	W44071	IB		A960	100						
1	W44072	IB		A960	100						
1	W44073	IB		A960	100						
1	W44074	BFB		A960	100					OK	time 622
2	W44075	IC1765-0.04		A974	40			✓	✓	OK	
3	W44076	IC1765-0.1		A973	40			✓	✓	OK	
3	W44077	IC1765-0.2		A973	80		X OT 10/15/13	✓	✓	OK	
3	W44078	IC1765-0.5		A973	200		X OT 10/15/13	✓	✓	OK	
4	W44079	IC1765-5		A969	50		X OT 10/15/13	✓	✓	OK	
4	W44080	IC1765-10		A969	100		X OT 10/15/13	✓	✓	OK	
4	W44081	IC1765-15		A969	150		X OT 10/15/13	✓	✓	RR	last 3 compounds low
4	W44082	IC1765-20		A969	200		X OT 10/15/13	✓	✓	RR	↓ ↓
4	W44083	IC1765-30		A969	300		X OT 10/15/13	✓	✓	~~OK~~ RR OT 10/15/13	not used
4	W44084	IC1765-40		A969	400		X OT 10/15/13	✓	✓	OK	
1	W44085	IB		A960	100		X OT 10/15/13				
4	W44086	IC1765-30		A969	300		X OT 10/15/13	✓	✓	OK	
4	W44087	IC1765-20		A969	200		X OT 10/15/13	✓	✓	OK	
4	W44088	IC1765-15		A969	150		X OT 10/15/13	✓	✓	OK	
6	W44089	ICV1765-10		A965	100			✓	✓	OK	

OK 10/15/13

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Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Date: 10/17/13

Batch ID: VW1767

Analyst Signature: [illegible]

Columns: RTX-1 = 60m x 0.32mm x 1.0µm

Method: TO15W.MA

Seq. File: W131017.S

Initial Cal. Method: MW1765 MA

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5763	Int/Surr	40 ppbv
AS5768	TO15 Std	40 ppbv
AS5767	TO15 CCS	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 10/21/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	W44118	BFB		A960	100			✓	✓	OK	time 8:16
2	W44119	CC1765-10		A969	100			✓	✓	OK	
3	W44120	BB		A965	100			✓	✓	OK	
3	W44121	BBO		A965	100			✓	✓	OK	
1	W44122	IB		A960	400						
1	W44123	MB		A960	400			✓	✓	OK	
2	W44124	JB50050-1	TO15 STD MS5768	A676	40	1.55		✓	✓	OK	Int std cont by hyp
2	W44125	JB50050-1dup		A635	40	1.55		✓	✓	OK	
13	W44126	JB49966-2		A398, A525	200	57.2		✓	✓	OK/OL	combine with W44111
14	W44127	JB49966-3		A532	20	1		✓	✓	OK/OL	combine with W44113
15	W44128	JB49966-4		A781	40	1		✓	✓	OK/OL	combine with W44114
16	W44129	JB49966-5		A401	20	1		✓	✓	OK/OL	combine with W44115
1	W44130	JB50086-1	TO15 STD MS5844	A1120	100	1		✓	✓	OK	
2	W44131	JB50086-2		A721	100	1		✓	✓	OK/OL	RR 20mL, over cal
3	W44132	JB50086-3		A720	100	1		✓	✓	OK/OL	RR 20mL, over cal
4	W44133	JB50086-4		A1152	100	1		✓	✓	OK	
6	W44134	JB50049-1	TO15 STD MS5842	A412	148	1.48		✓	✓	OK/OL	RR 20mL, over cal
7	W44135	JB50049-2		A692	100	1		✓	✓	OK	
8	W44136	JB50049-3		A517	100	1		✓	✓	OK/OL	RR 20mL, over cal
9	W44137	JB50048-1		A381	20	1		✓	✓	OK/OL	RR 200x, over cal
10	W44138	JB50048-2		A791	100	1		✓	✓	OK	
11	W44139	JB50048-3		A426	100	1		✓	✓	OK/OL	RR 20mL, over cal
12	W44140	JB50276-1	TO15 STD MS5834	A928	100	1		✓	✓	OK/OL	RR 20mL, over cal on hold
13	W44141	JB50276-2		A931	100	1		✓	✓	OK	
14	W44142	JB50276-3		A943	100	1		✓	✓	OK/OL	RR 20mL, over cal
15	W44143	JB50276-4		A970	100	1		✓	✓	OK/OL	RR 20mL, over cal
16	W44144	JB50276-5		A938	100	1		✓	✓	OK/OL	RR 200x, over cal

10/18/13

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Date: 10/18/13

Batch ID: VW1767

Analyst Signature: [signature]

Columns: RTX1 - 60mx0.32mmx 1.0µm

Method: TO15W.M

Seq. File: W131018.S

Initial Cal. Method: MW1765.M

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5783	Int/Surr	40ppbv
AS5760	TO15 Std	40ppbv
AS5767	TO15 LCS	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 10/21/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	W44145	BF3		A960	100			✓	✓	OK	time 9:00
2	W44146	CC1765-10		A969	100			✓	✓	OK	
3	W44147	B5		A965	100			✓	✓	OK	
4	W44148	B50		A965	100			✓	✓	OK	
5	W44149	B3		A960	100						
6	W44150	M3		A960	100			✓	✓	OK	
7	W44151	JB49960-1	TO15 STD MS56445	A814	20	1		✓	✓	OK	non-target over cal
8	W44152	JB49960-1dup	↓	A814	20	1		✓	✓	OK	
9	W44153	JB50086-3	TO15 STD MS56441	A725	20	1		✓	✓	OK/OL	combine with W44132
10	W44154	JB50049-1	TO15 STD	A412	20	1.48		✓	✓	OK/OL	combine with W44134
11	W44155	JB50049-3	MS56442	A517	20	1		✓	✓	OK/OL	combine with W44136
12	W44156	JB50048-1		A381	10	1		✓	✓	RL	RL200X, over cal
13	W44157	JB50048-3		A426	20	1		✓	✓	OK/OL	~~RL200X over cal~~
14	W44158	JB50276-1	TO15 STD MS56739	A928	20	1		✓	✓	RL/OL	on hold - over cal
15	W44159	JB50276-3		A943	20	1		✓	✓	OK/OL	combine with W44142
16	W44160	JB50276-4		A930	20	1		✓	✓	OK/OL	combine with W44143
17	W44161	~~JB50276-5~~ JB50276-2		~~A938~~ A741	~~10~~ 20	1		✓	✓	OK/OL	combine with W44131
18	W44162	JB49960-1	TO15 SL MS56442	A360	20	1		✓	✓	OK/OL	RL100X
19	W44163	FA9023-1	TO15 STD MS56739	A586	100	1		✓	✓	OK	
20	W44164	FA9023-2	↓	A594	100	1		✓	✓	OK	
21	W44165	JB50089-1	TO15 STD MS56442	A1149	100	1		✓	✓	OK	
22	W44166	JB50176-1	TO15 STD MS56739	A794	148	1.48		✓	✓	OK/OL	RL20mL, over cal
23	W44167	JB50176-2		A612	100	1		✓	✓	OK	
24	W44168	JB50375-1		A400	100	1		✓	✓	OK	
25	W44169	JB50375-2		A678	100	1		✓	✓	OK	
26	W44170	JB50375-3		A785	100	1		✓	✓	OK	
27	W44171	JB50176-5		A938	20	1		✓	✓	OK/OL	RL10mL, over cal

10/21/13

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Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Date: 10/22/13

Batch ID: VW1771

Analyst Signature: [signature]

Columns: RTX1-60mx0.32mmx1.0µm

Method: T015WMM

Seq. File: W131022.J

Initial Cal. Method: MW1765M

AS Data

Method: T015.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5783	Int/surr	40 ppbv
AS5783	T015 STD	40 ppbv
AS5783	T015 LCS	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 10/23/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	W4217	BFB		A960	100					OK	Tune 938
2	W4218	CC1765-10		A969	100			✓	✓	OK	Compounds 96-97, 101-106 Fill high, Re samples with hits
2	W4219	BS		A965	100			✓	✓	OK	
2	W4220	BSD		A965	100			✓	✓	OK	
1	W4221	IB		A460	400						
1	W4222	MB		A960	400			✓	✓	OK	
1	W4223	See CP6547		A589	400					R	MeCl2 0.9
1	W4224	See CP6547		A589	400					RR	MeCl2 0.25
4	W4225	JB50614-1	T015STD	A1171	10	1		✓	✓	OK/OL	combine with W4226
6	W4226	JB50614-4	MS57076	A183	400	1		✓	✓	OK	
6	W4227	JB50614-4		A183	400	1		✓	✓	OK/OL	04/22/13
7	W4228	JB50276-5	T015STD MS56739	A938	10	1		✓	✓	OK/OL	combine with W4144
3	W4229	JB49744-1	T015STD MS56442	A1219	20	1.2		✓	✓	OK/OL	combine with SW722
4	W4230	JB49744-2		A1249	20	1.33		✓	✓	OK/OL	combine with SW725
6	W4231	JB49760-1	T015STD MS56442	A760, A1250	~~200~~ 100	49.2		✓	✓	OK/OL	combine with W4162
7	W4232	JB50048-1	T015STD MS56442	A381, A782	100	57.2		✓	✓	OK/OL	combine with W4157
8	W4233	JB50176-1	T015STD MS56739	A794	20	1.48		✓	✓	OK/OL	combine with W4166
9	W4234	JB50613-1	T015STD	A1041	592	1.48		✓	✓	OK/OL	combine with W4191 for p-xylene
10	W4235	JB50613-2	MS57076	A1039	632	1.58		✓	✓	OK/OL	W4192
11	W4236	JB50613-3		A1037	632	1.58		✓	✓	OK/OL	W4193
12	W4237	JB50613-4		A1045	632	1.58		✓	✓	OK/OL	W4194
13	W4238	JB50613-5		A1079	608	1.52		✓	✓	OK/OL	W4195
14	W4239	JB50560-1	T015STD MS57077	A023	400	1		✓	✓	OK	
15	W4240	JB50477-1	T015STD MS56738	A834	400	1		✓	✓	OK	
10	W4241	See CP6519		A074	400	1		✓	✓	RR	acetone >0.2
1	W4242	See CP6529		A340	400	1		✓	✓	OK	
2	W4243	See CP6530		A194	400	1		✓	✓	OK	
	~~W4244~~										
	~~W4245~~										
	~~W4246~~										

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Form: AT008-05

Rev. Date: 10/20/09

New Jersey
ACCUTEST LABORATORIES

10/25/13

Technical Report for

C. A. Rich Consultants

Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Accutest Job Number: JB50673

Sampling Date: 10/17/13

Report to:

C. A. Rich Consultants
17 Dupont Street
Plainview, NY 11803
JCooper@carichinc.com

ATTN: Jason Cooper

Total number of pages in report: **365**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Accutest Laboratories

Sample Summary

C. A. Rich Consultants

Job No: JB50673

Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB50673-1	10/17/13	11:26	TB	10/18/13	AIR	Soil Vapor Comp.	SVP-1 10/17/13
JB50673-2	10/17/13	11:30	TB	10/18/13	AIR	Soil Vapor Comp.	SVP-XX 10/17/13

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	C. A. Rich Consultants	**Job No**	JB50673
Site:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY	**Report Date**	10/23/2013 12:34:39 P

On 10/18/2013, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories . Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB50673 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** VW1770

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB50673-2DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Tertiary Butyl Alcohol are outside control limits for sample JB50673-2DUP. High RPD due to low concentration of hit
- VW1770-BS for Hexachlorobutadiene: High percent recoveries and no associated positive found in the QC batch.
- VW1770-BS for 1,2,4-Trichlorobenzene: High percent recoveries and no associated positive found in the QC batch.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB50673
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/17/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB50673-1	**SVP-1 10/17/13**					
Acetone		39.7	0.80	0.14	ppbv	TO-15
Benzene		19.5	0.80	0.084	ppbv	TO-15
Carbon disulfide		60.4	0.80	0.069	ppbv	TO-15
Cyclohexane		2.0	0.80	0.23	ppbv	TO-15
Dichlorodifluoromethane		0.56 J	0.80	0.062	ppbv	TO-15
Ethanol		13.0	2.0	0.74	ppbv	TO-15
Ethylbenzene		1.8	0.80	0.081	ppbv	TO-15
Heptane		4.6	0.80	0.078	ppbv	TO-15
Hexane		15.9	0.80	0.064	ppbv	TO-15
Methylene chloride		4.9	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone		7.3	0.80	0.23	ppbv	TO-15
Propylene		367	10	0.63	ppbv	TO-15
1,1,1-Trichloroethane		0.74 J	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene		1.4	0.80	0.066	ppbv	TO-15
1,3,5-Trimethylbenzene		0.46 J	0.80	0.060	ppbv	TO-15
Tertiary Butyl Alcohol		3.2	0.80	0.18	ppbv	TO-15
Tetrachloroethylene		0.80	0.16	0.12	ppbv	TO-15
Tetrahydrofuran		3.2	0.80	0.18	ppbv	TO-15
Toluene		12.5	0.80	0.081	ppbv	TO-15
m,p-Xylene		5.9	0.80	0.13	ppbv	TO-15
o-Xylene		1.8	0.80	0.077	ppbv	TO-15
Xylenes (total)		7.7	0.80	0.077	ppbv	TO-15
Acetone		94.3	1.9	0.33	ug/m3	TO-15
Benzene		62.3	2.6	0.27	ug/m3	TO-15
Carbon disulfide		188	2.5	0.21	ug/m3	TO-15
Cyclohexane		6.9	2.8	0.79	ug/m3	TO-15
Dichlorodifluoromethane		2.8 J	4.0	0.31	ug/m3	TO-15
Ethanol		24.5	3.8	1.4	ug/m3	TO-15
Ethylbenzene		7.8	3.5	0.35	ug/m3	TO-15
Heptane		19	3.3	0.32	ug/m3	TO-15
Hexane		56.0	2.8	0.23	ug/m3	TO-15
Methylene chloride		17	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		22	2.4	0.68	ug/m3	TO-15
Propylene		630	17	1.1	ug/m3	TO-15
1,1,1-Trichloroethane		4.0 J	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene		6.9	3.9	0.32	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.3 J	3.9	0.29	ug/m3	TO-15
Tertiary Butyl Alcohol		9.7	2.4	0.55	ug/m3	TO-15
Tetrachloroethylene		5.4	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran		9.4	2.4	0.53	ug/m3	TO-15
Toluene		47.1	3.0	0.31	ug/m3	TO-15
m,p-Xylene		26	3.5	0.56	ug/m3	TO-15
o-Xylene		7.8	3.5	0.33	ug/m3	TO-15

Summary of Hits

Job Number: JB50673
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/17/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylenes (total)		33	3.5	0.33	ug/m3	TO-15
JB50673-2	**SVP-XX 10/17/13**					
Acetone		44.6	0.80	0.14	ppbv	TO-15
Benzene		30.5	0.80	0.084	ppbv	TO-15
Carbon disulfide		54.2	0.80	0.069	ppbv	TO-15
Cyclohexane		65.8	0.80	0.23	ppbv	TO-15
Dichlorodifluoromethane		0.58 J	0.80	0.062	ppbv	TO-15
Ethanol		12.8	2.0	0.74	ppbv	TO-15
Ethylbenzene		4.6	0.80	0.081	ppbv	TO-15
4-Ethyltoluene		0.95	0.80	0.060	ppbv	TO-15
Heptane		33.9	0.80	0.078	ppbv	TO-15
Hexane		77.2	0.80	0.064	ppbv	TO-15
Methylene chloride		18.9	0.80	0.19	ppbv	TO-15
Methyl ethyl ketone		6.7	0.80	0.23	ppbv	TO-15
Propylene		364	10	0.63	ppbv	TO-15
1,1,1-Trichloroethane		0.74 J	0.80	0.066	ppbv	TO-15
1,2,4-Trimethylbenzene		1.4	0.80	0.066	ppbv	TO-15
1,3,5-Trimethylbenzene		1.2	0.80	0.060	ppbv	TO-15
Tertiary Butyl Alcohol		3.0	0.80	0.18	ppbv	TO-15
Tetrachloroethylene		0.51	0.16	0.12	ppbv	TO-15
Toluene		13.5	0.80	0.081	ppbv	TO-15
Trichlorofluoromethane		0.61 J	0.80	0.055	ppbv	TO-15
m,p-Xylene		6.3	0.80	0.13	ppbv	TO-15
o-Xylene		1.6	0.80	0.077	ppbv	TO-15
Xylenes (total)		7.8	0.80	0.077	ppbv	TO-15
Acetone		106	1.9	0.33	ug/m3	TO-15
Benzene		97.4	2.6	0.27	ug/m3	TO-15
Carbon disulfide		169	2.5	0.21	ug/m3	TO-15
Cyclohexane		226	2.8	0.79	ug/m3	TO-15
Dichlorodifluoromethane		2.9 J	4.0	0.31	ug/m3	TO-15
Ethanol		24.1	3.8	1.4	ug/m3	TO-15
Ethylbenzene		20	3.5	0.35	ug/m3	TO-15
4-Ethyltoluene		4.7	3.9	0.29	ug/m3	TO-15
Heptane		139	3.3	0.32	ug/m3	TO-15
Hexane		272	2.8	0.23	ug/m3	TO-15
Methylene chloride		65.7	2.8	0.66	ug/m3	TO-15
Methyl ethyl ketone		20	2.4	0.68	ug/m3	TO-15
Propylene		625	17	1.1	ug/m3	TO-15
1,1,1-Trichloroethane		4.0 J	4.4	0.36	ug/m3	TO-15
1,2,4-Trimethylbenzene		6.9	3.9	0.32	ug/m3	TO-15
1,3,5-Trimethylbenzene		5.9	3.9	0.29	ug/m3	TO-15
Tertiary Butyl Alcohol		9.1	2.4	0.55	ug/m3	TO-15
Tetrachloroethylene		3.5	1.1	0.81	ug/m3	TO-15

Summary of Hits

Job Number: JB50673
Account: C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Collected: 10/17/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Toluene	50.9	3.0	0.31	ug/m3	TO-15
Trichlorofluoromethane	3.4 J	4.5	0.31	ug/m3	TO-15
m,p-Xylene	27	3.5	0.56	ug/m3	TO-15
o-Xylene	6.9	3.5	0.33	ug/m3	TO-15
Xylenes (total)	34	3.5	0.33	ug/m3	TO-15

New Jersey

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	SVP-1 10/17/13		
Lab Sample ID:	JB50673-1	**Date Sampled:**	10/17/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A936	**Date Received:**	10/18/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W44212.D	1	10/21/13	DFT	n/a	n/a	VW1770
Run #2	W44215.D	1	10/21/13	DFT	n/a	n/a	VW1770

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	39.7	0.80	0.14	ppbv		94.3	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	19.5	0.80	0.084	ppbv		62.3	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	60.4	0.80	0.069	ppbv		188	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	2.0	0.80	0.23	ppbv		6.9	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.80	0.062	ppbv	J	2.8	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-1 10/17/13		
Lab Sample ID:	JB50673-1	**Date Sampled:**	10/17/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A936	**Date Received:**	10/18/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	13.0	2.0	0.74	ppbv		24.5	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	1.8	0.80	0.081	ppbv		7.8	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.060	ppbv		ND	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	4.6	0.80	0.078	ppbv		19	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	15.9	0.80	0.064	ppbv		56.0	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	4.9	0.80	0.19	ppbv		17	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	7.3	0.80	0.23	ppbv		22	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	367 [a]	10	0.63	ppbv		630 [a]	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.74	0.80	0.066	ppbv	J	4.0	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.4	0.80	0.066	ppbv		6.9	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.46	0.80	0.060	ppbv	J	2.3	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.2	0.80	0.18	ppbv		9.7	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.80	0.16	0.12	ppbv		5.4	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	3.2	0.80	0.18	ppbv		9.4	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	12.5	0.80	0.081	ppbv		47.1	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.078	ppbv		ND	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.055	ppbv		ND	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	5.9	0.80	0.13	ppbv		26	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	1.8	0.80	0.077	ppbv		7.8	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	7.7	0.80	0.077	ppbv		33	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	100%	65-128%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-1 10/17/13		
Lab Sample ID:	JB50673-1	**Date Sampled:**	10/17/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A936	**Date Received:**	10/18/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SVP-XX 10/17/13		
Lab Sample ID:	JB50673-2	**Date Sampled:**	10/17/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A940	**Date Received:**	10/18/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W44213.D	1	10/21/13	DFT	n/a	n/a	VW1770
Run #2	W44216.D	1	10/22/13	DFT	n/a	n/a	VW1770

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	44.6	0.80	0.14	ppbv		106	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.078	ppbv		ND	1.8	0.17	ug/m3
71-43-2	78.11	Benzene	30.5	0.80	0.084	ppbv		97.4	2.6	0.27	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.099	ppbv		ND	5.4	0.66	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.086	ppbv		ND	8.3	0.89	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.069	ppbv		ND	3.1	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.057	ppbv		ND	3.5	0.25	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.099	ppbv		ND	4.1	0.51	ug/m3
75-15-0	76.14	Carbon disulfide	54.2	0.80	0.069	ppbv		169	2.5	0.21	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.082	ppbv		ND	2.1	0.22	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.074	ppbv		ND	3.9	0.36	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.13	ppbv		ND	1.7	0.27	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.080	ppbv		ND	4.1	0.41	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.045	ppbv		ND	5.0	0.28	ug/m3
110-82-7	84.16	Cyclohexane	65.8	0.80	0.23	ppbv		226	2.8	0.79	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	0.85	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.066	ppbv		ND	3.2	0.27	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.16	ppbv		ND	3.7	0.74	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.24	ppbv		ND	2.9	0.86	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.58	0.80	0.062	ppbv	J	2.9	4.0	0.31	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.12	ppbv		ND	6.8	1.0	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.059	ppbv		ND	3.2	0.23	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.074	ppbv		ND	3.6	0.34	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.099	ppbv		ND	4.8	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.086	ppbv		ND	4.8	0.52	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.084	ppbv		ND	3.6	0.38	ug/m3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-XX 10/17/13		
Lab Sample ID:	JB50673-2	**Date Sampled:**	10/17/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A940	**Date Received:**	10/18/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	12.8	2.0	0.74	ppbv		24.1	3.8	1.4	ug/m3
100-41-4	106.2	Ethylbenzene	4.6	0.80	0.081	ppbv		20	3.5	0.35	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.23	ppbv		ND	2.9	0.83	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.95	0.80	0.060	ppbv		4.7	3.9	0.29	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.082	ppbv		ND	6.1	0.63	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.085	ppbv		ND	5.6	0.59	ug/m3
142-82-5	100.2	Heptane	33.9	0.80	0.078	ppbv		139	3.3	0.32	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.17	Hexane	77.2	0.80	0.064	ppbv		272	2.8	0.23	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.098	ppbv		ND	3.3	0.40	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.15	ppbv		ND	2.0	0.37	ug/m3
75-09-2	84.94	Methylene chloride	18.9	0.80	0.19	ppbv		65.7	2.8	0.66	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.7	0.80	0.23	ppbv		20	2.4	0.68	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	364 [a]	10	0.63	ppbv		625 [a]	17	1.1	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.079	ppbv		ND	3.4	0.34	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.74	0.80	0.066	ppbv	J	4.0	4.4	0.36	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.32	ppbv		ND	5.9	2.4	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.4	0.80	0.066	ppbv		6.9	3.9	0.32	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.2	0.80	0.060	ppbv		5.9	3.9	0.29	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.084	ppbv		ND	3.7	0.39	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.0	0.80	0.18	ppbv		9.1	2.4	0.55	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.51	0.16	0.12	ppbv		3.5	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.18	ppbv		ND	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	13.5	0.80	0.081	ppbv		50.9	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.078	ppbv		ND	0.86	0.42	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.61	0.80	0.055	ppbv	J	3.4	4.5	0.31	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.068	ppbv		ND	2.0	0.17	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	0.81	ug/m3
	106.2	m,p-Xylene	6.3	0.80	0.13	ppbv		27	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	1.6	0.80	0.077	ppbv		6.9	3.5	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	7.8	0.80	0.077	ppbv		34	3.5	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	101%	65-128%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVP-XX 10/17/13		
Lab Sample ID:	JB50673-2	**Date Sampled:**	10/17/13
Matrix:	AIR - Soil Vapor Comp. Summa ID: A940	**Date Received:**	10/18/13
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2013 MDL Study - Method: TO-15

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Air Sampling Field Data Sheet AiR

FED-EX Tracking #:
Lab Quote #:
Bottle Order Control #: MC-10/14/2013-7
Lab Job #: JB50673

PAGE 1 OF 1

Client / Reporting Information

Company Name: CA Rich Consultants Inc.
Address: 17 Dupont St.
City: Plainview State: NY Zip: 11803
Project Contact: Jason Cooper
E-mail: Jcooper@carichinc.com
Phone #: (516) 576-8844
Fax #:
Sampler(s) Name(s): Thomas Brown

Project Name:
Street: 862 Fulton Ave.
City: Brooklyn State: NY
Project #: Fulton Ave.
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: Maximum:
Stop: Minimum:

Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:

Other weather comment:

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis: Standard TO-15 Reporting List		
1	SVP-1 10/17/13	SV	A936	3.2L	FC242	10/17/13	0937	30		TB	10/17/13	1126	5		TB	X		
2	SVP-XX 10/17/13	SV	A940	3.2L	FC374	10/17/13	0938	30		TB	10/17/13	1130	5		TB	X		

SUMMA

Turnaround Time (Business days)

Standard - 15 Days
10 Day
5 Day
3 Day
2 Day X
1 Day
Other

Approved By:
Results By Tuesday Oct. 22
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory-Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:

NYS Cat B

Comments / Remarks

These cans replaced previous faulty cans sampled on 10/14.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory	Date Time	Received By	Relinquished By	Date Time	Received By
1 Gary Marciano	10/14/13 18:20	1	2		2
3 Thom Br	10/18/13	3 Chris Lau	4 Chris Lau	10/18/13 1840	4
5		5			

Custody Seal #:

D.G

JB50673: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB50673 **Client:** **Project:**

Date / Time Received: 10/18/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB50673: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Received: 10/18/13

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A936	3.2	29.4	10/14/13	RC	CP6522	3W36346.D	JB50673-1	10/19/13	ML	4			1
A940	3.2	29.4	10/14/13	RC	CP6522	3W36346.D	JB50673-2	10/19/13	ML	5			1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC242	10/14/13	RC	20	2	10/25/13	ML	21
FC374	10/14/13	RC	20	2	10/25/13	ML	21.7

Accutest Bottle Order(s):
MC-10/14/2013-7

Prep Date	Room Temp(F)	Bar Pres "Hg
10/14/13	70	29.92

Internal Sample Tracking Chronicle

C. A. Rich Consultants

Job No: JB50673

Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB50673-1	Collected: 17-OCT-13 11:26 By: TB		Received: 18-OCT-13 By: MB			
SVP-1 10/17/13						
JB50673-1	TO-15	21-OCT-13 17:28	DFT			VTO15STD
JB50673-1	TO-15	21-OCT-13 19:27	DFT			VTO15STD
JB50673-2	Collected: 17-OCT-13 11:30 By: TB		Received: 18-OCT-13 By: MB			
SVP-XX 10/17/13						
JB50673-2	TO-15	21-OCT-13 18:08	DFT			VTO15STD
JB50673-2	TO-15	22-OCT-13 08:58	DFT			VTO15STD

Accutest Internal Chain of Custody

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Received: 10/18/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB50673-1.1	Dominic Guerriero	Air Storage	10/18/13 21:44	Return to Storage
JB50673-2.1	Dominic Guerriero	Air Storage	10/18/13 21:44	Return to Storage

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS2W, GCMS3W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April,2013

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Acetone	19-Apr-13	0.1	0.09	0.07	0.07	0.08	0.07	0.09	0.10	0.08	83.19	0.011	0.034	2.93
Acrolein	21-Feb-13	0.2	0.28	0.22	0.27	0.27	0.27	0.25	0.27	0.26	130.56	0.021	0.066	3.02
Acrylonitrile	21-Feb-13	0.1	0.12	0.13	0.13	0.09	0.08	0.13	0.12	0.11	113.93	0.023	0.071	1.41
Acetonitrile	18-Apr-13	0.2	0.24	0.24	0.30	0.26	0.30	0.28	0.22	0.26	131.05	0.031	0.096	2.08
1,3-Butadiene	31-Jan-13	0.1	0.10	0.11	0.11	0.10	0.10	0.11	0.11	0.11	106.22	0.006	0.020	5.12
Benzene	21-Feb-13	0.1	0.11	0.11	0.12	0.11	0.12	0.11	0.12	0.11	112.90	0.007	0.021	4.75
Bromobenzene	21-Feb-13	0.1	0.11	0.10	0.11	0.11	0.12	0.10	0.11	0.11	110.24	0.007	0.022	4.64
Bromodichloromethane	21-Feb-13	0.1	0.13	0.11	0.13	0.12	0.13	0.13	0.13	0.13	125.27	0.008	0.025	4.05
Bromoform	18-Apr-13	0.2	0.22	0.23	0.24	0.23	0.24	0.23	0.24	0.23	116.13	0.007	0.022	9.31
Bromomethane	21-Feb-13	0.1	0.12	0.11	0.12	0.11	0.12	0.12	0.12	0.12	117.09	0.006	0.017	5.82
Bromoethene	21-Feb-13	0.1	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.10	100.96	0.005	0.014	6.98
n-Butane	30-Jan-13	0.2	0.19	0.20	0.18	0.23	0.18	0.19	0.18	0.19	96.02	0.018	0.056	3.58
Benzyl Chloride	18-Apr-13	0.2	0.20	0.21	0.19	0.20	0.21	0.20	0.20	0.20	100.79	0.008	0.025	8.10
n-Butylbenzene	18-Apr-13	0.2	0.16	0.16	0.15	0.16	0.15	0.13	0.16	0.15	76.64	0.012	0.036	5.50
sec-Butylbenzene	31-Jan-13	0.1	0.07	0.05	0.06	0.06	0.05	0.06	0.07	0.06	61.01	0.009	0.027	3.69
tert-Butylbenzene	31-Jan-13	0.1	0.08	0.06	0.06	0.07	0.06	0.07	0.08	0.07	68.26	0.008	0.024	4.21
Carbon disulfide	18-Apr-13	0.2	0.29	0.30	0.30	0.29	0.29	0.29	0.29	0.29	146.42	0.006	0.017	11.58
Chlorobenzene	21-Feb-13	0.1	0.14	0.12	0.13	0.13	0.15	0.13	0.14	0.14	135.36	0.008	0.025	3.94
Chlorodifluoromethane	18-Apr-13	0.2	0.31	0.28	0.32	0.30	0.32	0.31	0.31	0.31	153.78	0.013	0.040	4.96
Chloroethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.11	0.11	0.11	109.34	0.007	0.020	4.91
Chloroform	30-Jan-13	0.2	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.21	106.44	0.006	0.019	10.82
Chloromethane	31-Jan-13	0.1	0.08	0.07	0.09	0.07	0.07	0.06	0.06	0.07	72.77	0.011	0.034	2.98
3-Chloropropene	30-Jan-13	0.2	0.21	0.20	0.19	0.21	0.19	0.21	0.20	0.20	100.00	0.009	0.028	7.28
2-Chlorotoluene	19-Apr-13	0.1	0.10	0.09	0.09	0.09	0.10	0.09	0.09	0.09	93.45	0.006	0.020	5.03
Carbon tetrachloride	19-Apr-13	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.11	108.87	0.004	0.011	8.85
Cyclohexane	21-Feb-13	0.2	0.23	0.24	0.24	0.25	0.26	0.25	0.29	0.25	126.23	0.019	0.058	3.43
1,1-Dichloroethane	19-Apr-13	0.1	0.13	0.11	0.13	0.12	0.12	0.13	0.12	0.12	122.22	0.005	0.016	6.09
1,1-Dichloroethylene	19-Apr-13	0.1	0.11	0.12	0.11	0.12	0.12	0.12	0.11	0.12	115.59	0.007	0.021	4.73
1,2-Dibromoethane	21-Feb-13	0.1	0.12	0.10	0.12	0.11	0.13	0.12	0.12	0.12	116.96	0.009	0.027	3.68
1,2-Dichloroethane	30-Jan-13	0.2	0.22	0.22	0.21	0.22	0.22	0.21	0.23	0.22	109.25	0.005	0.016	12.17
1,2-Dichloropropane	21-Feb-13	0.1	0.12	0.11	0.13	0.11	0.15	0.14	0.12	0.13	125.91	0.013	0.040	2.52

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS2W, GCMS3W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April,2013

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
1,4-Dioxane	21-Feb-13	0.1	0.10	0.09	0.08	0.13	0.09	0.07	0.07	0.09	90.98	0.019	0.060	1.66
Dichlorodifluoromethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.11	0.11	0.11	105.96	0.005	0.015	6.51
Dibromochloromethane	21-Feb-13	0.1	0.13	0.11	0.13	0.12	0.13	0.12	0.14	0.13	126.06	0.009	0.029	3.46
Dibromomethane	21-Feb-13	0.1	0.13	0.12	0.13	0.13	0.13	0.12	0.14	0.13	127.38	0.007	0.021	4.80
trans-1,2-Dichloroethylene	21-Feb-13	0.1	0.10	0.10	0.11	0.09	0.10	0.10	0.10	0.10	98.77	0.005	0.015	6.77
cis-1,2-Dichloroethylene	21-Feb-13	0.1	0.10	0.09	0.12	0.10	0.11	0.10	0.11	0.10	103.82	0.009	0.028	3.63
cis-1,3-Dichloropropene	30-Jan-13	0.2	0.19	0.20	0.19	0.21	0.19	0.19	0.20	0.20	97.56	0.006	0.019	10.75
m-Dichlorobenzene	21-Feb-13	0.1	0.10	0.10	0.10	0.09	0.11	0.08	0.11	0.10	98.82	0.008	0.025	4.04
o-Dichlorobenzene	21-Feb-13	0.1	0.11	0.11	0.10	0.10	0.11	0.09	0.11	0.10	102.97	0.009	0.029	3.42
p-Dichlorobenzene	31-Jan-13	0.1	0.09	0.08	0.09	0.08	0.08	0.09	0.10	0.09	85.30	0.007	0.022	4.63
trans-1,3-Dichloropropene	21-Feb-13	0.1	0.09	0.09	0.08	0.08	0.09	0.07	0.08	0.08	84.19	0.007	0.021	4.74
Di-Isopropyl ether	31-Jan-13	0.1	0.10	0.09	0.10	0.10	0.09	0.10	0.10	0.10	95.99	0.005	0.015	6.68
2,3-Dimethylpentane	18-Apr-13	0.2	0.31	0.30	0.32	0.31	0.33	0.33	0.32	0.32	158.05	0.009	0.030	6.79
2,4-Dimethylpentane	21-Feb-13	0.2	0.16	0.17	0.17	0.16	0.15	0.15	0.17	0.16	80.12	0.007	0.021	9.49
Ethanol	30-Jan-13	0.2	0.41	0.35	0.34	0.31	0.27	0.24	0.28	0.31	156.88	0.059	0.186	1.07
Ethylbenzene	21-Feb-13	0.1	0.10	0.09	0.10	0.09	0.11	0.09	0.10	0.10	95.68	0.006	0.020	4.94
Ethyl Acetate	30-Jan-13	0.2	0.19	0.19	0.17	0.20	0.18	0.15	0.20	0.18	91.70	0.018	0.057	3.50
4-Ethyltoluene	21-Feb-13	0.1	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	68.03	0.005	0.015	6.64
Freon 113	18-Apr-13	0.2	0.25	0.26	0.25	0.25	0.27	0.25	0.26	0.26	128.25	0.007	0.021	9.69
Freon 114	18-Apr-13	0.2	0.28	0.30	0.29	0.29	0.30	0.29	0.30	0.29	146.69	0.007	0.021	9.45
Freon 123	21-Feb-13	0.1	0.12	0.11	0.12	0.12	0.13	0.11	0.12	0.12	118.87	0.007	0.021	4.71
Freon 123A	21-Feb-13	0.1	0.12	0.12	0.13	0.12	0.13	0.12	0.13	0.12	122.12	0.005	0.016	6.21
Freon 152A	21-Feb-13	0.2	0.31	0.29	0.29	0.27	0.28	0.28	0.31	0.29	145.63	0.017	0.055	3.66
Heptane	21-Feb-13	0.1	0.10	0.08	0.09	0.08	0.09	0.09	0.09	0.09	86.98	0.006	0.020	5.10
Hexachlorobutadiene	21-Feb-13	0.1	0.15	0.15	0.15	0.15	0.18	0.14	0.19	0.16	159.49	0.020	0.063	1.60
Hexachloroethane	19-Apr-13	0.1	0.14	0.14	0.12	0.14	0.13	0.15	0.12	0.13	132.99	0.012	0.036	2.77
Hexane	30-Jan-13	0.2	0.21	0.21	0.20	0.22	0.20	0.21	0.22	0.21	105.03	0.005	0.016	12.54
2-Hexanone	21-Feb-13	0.1	0.05	0.05	0.05	0.05	0.06	0.04	0.06	0.05	53.43	0.008	0.025	4.07
Iodomethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.11	0.11	0.11	106.85	0.005	0.017	6.05
Isopropylbenzene	19-Apr-13	0.1	0.12	0.11	0.10	0.11	0.11	0.11	0.11	0.11	111.95	0.006	0.019	5.21
Isopropyl Alcohol	21-Feb-13	0.1	0.09	0.11	0.13	0.11	0.12	0.10	0.11	0.11	112.05	0.012	0.039	2.59
p-Isopropyltoluene	21-Feb-13	0.1	0.07	0.07	0.06	0.06	0.07	0.05	0.07	0.07	66.25	0.007	0.023	4.37
Methylene chloride	21-Feb-13	0.2	0.31	0.31	0.33	0.30	0.31	0.30	0.34	0.31	157.29	0.015	0.047	4.30
Methyl ethyl ketone	30-Jan-13	0.2	0.20	0.19	0.17	0.21	0.18	0.16	0.21	0.19	95.01	0.019	0.058	3.42

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS2W, GCMS3W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April,2013

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Methyl Isobutyl Ketone	18-Apr-13	0.2	0.15	0.17	0.17	0.16	0.17	0.15	0.17	0.16	82.08	0.009	0.029	6.83
Methyl Tert Butyl Ether	19-Apr-13	0.1	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	111.45	0.005	0.017	5.85
Methylmethacrylate	30-Jan-13	0.2	0.19	0.19	0.18	0.21	0.19	0.17	0.19	0.19	93.71	0.013	0.040	4.95
Naphthalene	18-Apr-13	0.2	0.19	0.20	0.17	0.17	0.19	0.17	0.18	0.18	90.14	0.012	0.037	5.35
Nonane	19-Apr-13	0.1	0.10	0.09	0.09	0.09	0.09	0.10	0.09	0.09	92.52	0.006	0.018	5.65
Octane	21-Feb-13	0.1	0.09	0.07	0.08	0.07	0.08	0.08	0.08	0.08	78.44	0.007	0.021	4.87
Pentane	31-Jan-13	0.1	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06	56.98	0.006	0.018	5.42
n-Propylbenzene	31-Jan-13	0.1	0.08	0.06	0.07	0.06	0.06	0.07	0.08	0.07	68.74	0.008	0.024	4.17
Propylene	21-Feb-13	0.1	0.14	0.11	0.13	0.14	0.13	0.13	0.14	0.13	129.80	0.010	0.031	3.20
Styrene	19-Apr-13	0.1	0.09	0.08	0.07	0.08	0.09	0.08	0.08	0.08	79.82	0.006	0.020	5.04
1,1,1-Trichloroethane	19-Apr-13	0.1	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	112.95	0.005	0.016	6.09
1,1,1,2-Tetrachloroethane	21-Feb-13	0.1	0.13	0.12	0.14	0.13	0.15	0.13	0.14	0.14	135.01	0.011	0.034	2.94
1,1,2,2-Tetrachloroethane	21-Feb-13	0.1	0.13	0.12	0.12	0.12	0.14	0.12	0.14	0.13	127.92	0.010	0.030	3.30
1,1,2-Trichloroethane	18-Apr-13	0.2	0.26	0.27	0.27	0.27	0.29	0.26	0.27	0.27	134.95	0.010	0.031	6.47
1,2,4-Trichlorobenzene	18-Apr-13	0.2	0.23	0.19	0.18	0.20	0.19	0.19	0.25	0.20	102.38	0.025	0.079	2.54
1,2,3-Trichloropropane	31-Jan-13	0.1	0.12	0.10	0.11	0.10	0.11	0.11	0.13	0.11	112.41	0.010	0.032	3.15
1,2,4-Trimethylbenzene	21-Feb-13	0.1	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	66.52	0.005	0.017	6.02
1,3,5-Trimethylbenzene	21-Feb-13	0.1	0.08	0.08	0.08	0.07	0.08	0.06	0.08	0.07	74.00	0.005	0.015	6.64
2,2,4-Trimethylpentane	21-Feb-13	0.1	0.11	0.09	0.11	0.10	0.11	0.10	0.11	0.10	102.37	0.007	0.021	4.75
Tertiary Butyl Alcohol	18-Apr-13	0.2	0.27	0.27	0.28	0.27	0.24	0.27	0.28	0.27	132.98	0.014	0.044	4.55
Tetrachloroethylene	30-Jan-13	0.2	0.21	0.20	0.21	0.23	0.22	0.20	0.20	0.21	104.72	0.009	0.029	6.94
Tetrahydrofuran	18-Apr-13	0.2	0.17	0.21	0.21	0.20	0.20	0.21	0.22	0.20	101.17	0.014	0.045	4.46
Toluene	21-Feb-13	0.1	0.09	0.08	0.09	0.08	0.10	0.08	0.08	0.09	88.29	0.006	0.020	4.95
Trichloroethylene	30-Jan-13	0.2	0.21	0.21	0.20	0.22	0.21	0.20	0.22	0.21	105.13	0.006	0.019	10.31
Trichlorofluoromethane	21-Feb-13	0.1	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.11	105.60	0.004	0.014	7.28
Vinyl chloride	19-Apr-13	0.1	0.14	0.13	0.12	0.13	0.12	0.13	0.13	0.13	128.97	0.006	0.017	5.83
Vinyl Acetate	30-Jan-13	0.2	0.16	0.14	0.14	0.13	0.13	0.10	0.13	0.13	66.64	0.019	0.058	3.43
m,p-Xylene	21-Feb-13	0.2	0.18	0.16	0.18	0.17	0.20	0.17	0.18	0.18	88.85	0.010	0.032	6.18
o-Xylene	21-Feb-13	0.1	0.09	0.08	0.09	0.08	0.10	0.08	0.08	0.09	85.72	0.006	0.019	5.17
TVHC As Equiv Pentane	21-Feb-13	0.1	0.11	0.11	0.10	0.09	0.10	0.10	0.12	0.10	104.94	0.012	0.038	2.65
TVHC As Equiv Heptane	21-Feb-13	0.1	0.10	0.10	0.09	0.08	0.09	0.09	0.10	0.09	93.44	0.008	0.023	4.27
4-Bromofluorobenzene	21-Feb-13	0.2	9.16	9.64	9.49	9.49	9.35	9.54	8.80	9.35	4675.80	0.286	0.899	0.22

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-MB	W44206.D	1	10/21/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-MB	W44206.D	1	10/21/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-MB	W44206.D	1	10/21/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-MB	3W36337.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-MB	3W36337.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-MB	3W36337.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	84%	65-128%

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-MB2	W44183.D	1	10/19/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

VW1770-BSD, VW1770-BS

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-MB2	W44183.D	1	10/19/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

VW1770-BSD, VW1770-BS

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-MB2	W44183.D	1	10/19/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

VW1770-BSD, VW1770-BS

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	83%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-BS	W44202.D	1	10/21/13	DFT	n/a	n/a	VW1770
VW1770-BSD	W44204.D	1	10/21/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	10.1	101	8.5	85	17	70-130/30
106-99-0	1,3-Butadiene	10	9.3	93	9.2	92	1	70-130/30
71-43-2	Benzene	10	8.7	87	9.0	90	3	70-130/30
75-27-4	Bromodichloromethane	10	9.5	95	9.7	97	2	70-130/30
75-25-2	Bromoform	10	12.0	120	12.1	121	1	70-130/30
74-83-9	Bromomethane	10	10	100	9.8	98	2	70-130/30
593-60-2	Bromoethene	10	10.0	100	10.1	101	1	70-130/30
100-44-7	Benzyl Chloride	10	11.7	117	12.5	125	7	70-130/30
75-15-0	Carbon disulfide	10	8.9	89	8.9	89	0	70-130/30
108-90-7	Chlorobenzene	10	10	100	10.2	102	2	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.6	96	2	70-130/30
67-66-3	Chloroform	10	9.1	91	9.2	92	1	70-130/30
74-87-3	Chloromethane	10	9.3	93	9.3	93	0	70-130/30
107-05-1	3-Chloropropene	10	9.4	94	9.8	98	4	70-130/30
95-49-8	2-Chlorotoluene	10	10.9	109	11.0	110	1	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.8	98	1	70-130/30
110-82-7	Cyclohexane	10	9.0	90	9.3	93	3	70-130/30
75-34-3	1,1-Dichloroethane	10	9.0	90	9.2	92	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.7	97	9.5	95	2	70-130/30
106-93-4	1,2-Dibromoethane	10	10.2	102	10.6	106	4	70-130/30
107-06-2	1,2-Dichloroethane	10	9.0	90	9.0	90	0	70-130/30
78-87-5	1,2-Dichloropropane	10	8.6	86	8.7	87	1	70-130/30
123-91-1	1,4-Dioxane	10	7.8	78	9.6	96	21	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.9	99	9.7	97	2	70-130/30
124-48-1	Dibromochloromethane	10	10.8	108	11.0	110	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.5	95	9.6	96	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.7	97	9.9	99	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	8.7	87	8.8	88	1	70-130/30
541-73-1	m-Dichlorobenzene	10	12.2	122	12.5	125	2	70-130/30
95-50-1	o-Dichlorobenzene	10	12.5	125	12.8	128	2	70-130/30
106-46-7	p-Dichlorobenzene	10	12.0	120	12.6	126	5	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.9	99	10.1	101	2	70-130/30
64-17-5	Ethanol	10	8.7	87	9.2	92	6	70-130/30
100-41-4	Ethylbenzene	10	9.8	98	9.9	99	1	70-130/30
141-78-6	Ethyl Acetate	10	8.7	87	8.7	87	0	70-130/30
622-96-8	4-Ethyltoluene	10	11.2	112	11.4	114	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-BS	W44202.D	1	10/21/13	DFT	n/a	n/a	VW1770
VW1770-BSD	W44204.D	1	10/21/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.5	95	9.5	95	0	70-130/30
76-14-2	Freon 114	10	9.8	98	9.6	96	2	70-130/30
142-82-5	Heptane	10	8.5	85	8.7	87	2	70-130/30
87-68-3	Hexachlorobutadiene	10	15.8	158* [a]	17.2	172* [a]	8	70-130/30
110-54-3	Hexane	10	8.4	84	8.7	87	4	70-130/30
591-78-6	2-Hexanone	10	9.3	93	9.8	98	5	70-130/30
67-63-0	Isopropyl Alcohol	10	8.4	84	9.3	93	10	70-130/30
75-09-2	Methylene chloride	10	7.8	78	7.7	77	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10.6	106	9.5	95	11	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.3	83	8.7	87	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.4	84	8.6	86	2	70-130/30
80-62-6	Methylmethacrylate	10	9.0	90	9.1	91	1	70-130/30
115-07-1	Propylene	10	9.2	92	8.9	89	3	70-130/30
100-42-5	Styrene	10	10.2	102	10.3	103	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.0	90	9.1	91	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.0	110	11.2	112	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.2	92	9.1	91	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	13.3	133* [a]	16.5	165* [a]	21	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.4	114	11.5	115	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.1	111	11.2	112	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.8	88	8.9	89	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.9	89	10.4	104	16	70-130/30
127-18-4	Tetrachloroethylene	10	9.8	98	10.1	101	3	70-130/30
109-99-9	Tetrahydrofuran	10	11.2	112	8.9	89	23	70-130/30
108-88-3	Toluene	10	9.3	93	9.4	94	1	70-130/30
79-01-6	Trichloroethylene	10	8.8	88	9.0	90	2	70-130/30
75-69-4	Trichlorofluoromethane	10	9.8	98	9.8	98	0	70-130/30
75-01-4	Vinyl chloride	10	9.8	98	9.7	97	1	70-130/30
108-05-4	Vinyl Acetate	10	9.6	96	9.8	98	2	70-130/30
	m,p-Xylene	20	20.4	102	20.6	103	1	70-130/30
95-47-6	o-Xylene	10	10.5	105	10.6	106	1	70-130/30
1330-20-7	Xylenes (total)	30	30.8	103	31.2	104	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1770-BS	W44202.D	1	10/21/13	DFT	n/a	n/a	VW1770
VW1770-BSD	W44204.D	1	10/21/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	106%	106%	65-128%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-BS	3W36334.D	1	10/07/13	YMH	n/a	n/a	V3W1397
V3W1397-BSD	3W36335.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	11.9	119	11.2	112	6	70-130/30
106-99-0	1,3-Butadiene	10	9.7	97	8.9	89	9	70-130/30
71-43-2	Benzene	10	8.7	87	8.5	85	2	70-130/30
75-27-4	Bromodichloromethane	10	8.3	83	8.2	82	1	70-130/30
75-25-2	Bromoform	10	9.4	94	9.1	91	3	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.4	94	4	70-130/30
593-60-2	Bromoethene	10	9.6	96	9.2	92	4	70-130/30
100-44-7	Benzyl Chloride	10	8.8	88	8.4	84	5	70-130/30
75-15-0	Carbon disulfide	10	10.6	106	10.1	101	5	70-130/30
108-90-7	Chlorobenzene	10	10.3	103	10	100	3	70-130/30
75-00-3	Chloroethane	10	10.2	102	9.5	95	7	70-130/30
67-66-3	Chloroform	10	8.9	89	8.6	86	3	70-130/30
74-87-3	Chloromethane	10	9.9	99	8.8	88	12	70-130/30
107-05-1	3-Chloropropene	10	10.4	104	10	100	4	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	9.7	97	4	70-130/30
56-23-5	Carbon tetrachloride	10	8.4	84	8.2	82	2	70-130/30
110-82-7	Cyclohexane	10	8.9	89	8.7	87	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	8.9	89	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	9.6	96	5	70-130/30
106-93-4	1,2-Dibromoethane	10	10.7	107	10.3	103	4	70-130/30
107-06-2	1,2-Dichloroethane	10	8.3	83	8.1	81	2	70-130/30
78-87-5	1,2-Dichloropropane	10	9.3	93	9.0	90	3	70-130/30
123-91-1	1,4-Dioxane	10	8.9	89	8.6	86	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.0	90	8.6	86	5	70-130/30
124-48-1	Dibromochloromethane	10	10.4	104	10.1	101	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	9.9	99	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.5	95	9.1	91	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.1	101	9.9	99	2	70-130/30
541-73-1	m-Dichlorobenzene	10	9.1	91	9.1	91	0	70-130/30
95-50-1	o-Dichlorobenzene	10	8.9	89	8.5	85	5	70-130/30
106-46-7	p-Dichlorobenzene	10	9.1	91	8.5	85	7	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.2	82	8.0	80	2	70-130/30
64-17-5	Ethanol	10	9.9	99	9.2	92	7	70-130/30
100-41-4	Ethylbenzene	10	10.2	102	10	100	2	70-130/30
141-78-6	Ethyl Acetate	10	10.8	108	10.1	101	7	70-130/30
622-96-8	4-Ethyltoluene	10	8.4	84	8.1	81	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-BS	3W36334.D	1	10/07/13	YMH	n/a	n/a	V3W1397
V3W1397-BSD	3W36335.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.9	99	9.6	96	3	70-130/30
76-14-2	Freon 114	10	9.8	98	9.0	90	9	70-130/30
142-82-5	Heptane	10	9.1	91	9.0	90	1	70-130/30
87-68-3	Hexachlorobutadiene	10	9.9	99	10.2	102	3	70-130/30
110-54-3	Hexane	10	10.1	101	9.8	98	3	70-130/30
591-78-6	2-Hexanone	10	12.8	128	12.2	122	5	70-130/30
67-63-0	Isopropyl Alcohol	10	10.9	109	10.2	102	7	70-130/30
75-09-2	Methylene chloride	10	9.5	95	9.1	91	4	70-130/30
78-93-3	Methyl ethyl ketone	10	11.0	110	10.6	106	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.4	104	10.2	102	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.9	99	9.5	95	4	70-130/30
80-62-6	Methylmethacrylate	10	9.9	99	9.7	97	2	70-130/30
115-07-1	Propylene	10	10.6	106	9.9	99	7	70-130/30
100-42-5	Styrene	10	9.1	91	8.9	89	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.5	85	8.2	82	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.9	99	9.7	97	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.0	90	8.9	89	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.7	87	8.7	87	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.7	97	9.4	94	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.5	95	9.2	92	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.4	94	9.2	92	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.5	105	9.9	99	6	70-130/30
127-18-4	Tetrachloroethylene	10	10.0	100	9.8	98	2	70-130/30
109-99-9	Tetrahydrofuran	10	11.0	110	10.8	108	2	70-130/30
108-88-3	Toluene	10	9.0	90	9.0	90	0	70-130/30
79-01-6	Trichloroethylene	10	8.6	86	8.6	86	0	70-130/30
75-69-4	Trichlorofluoromethane	10	8.5	85	8.2	82	4	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	9.2	92	10	70-130/30
108-05-4	Vinyl Acetate	10	10.5	105	10.0	100	5	70-130/30
	m,p-Xylene	20	20.7	104	20.1	101	3	70-130/30
95-47-6	o-Xylene	10	10.6	106	10.3	103	3	70-130/30
1330-20-7	Xylenes (total)	30	31.3	104	30.4	101	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-BS	3W36334.D	1	10/07/13	YMH	n/a	n/a	V3W1397
V3W1397-BSD	3W36335.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here applies to the following samples: **Method:** TO-15

V3W1397-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	95%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50673-2DUP	W44214.D	1	10/21/13	DFT	n/a	n/a	VW1770
JB50673-2	W44213.D	1	10/21/13	DFT	n/a	n/a	VW1770
JB50673-2	W44216.D	1	10/22/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Compound	JB50673-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	44.6		45.7		2	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	30.5		28.9		5	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	54.2		53.9		1	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	ND		ND		nc	12
74-87-3	Chloromethane	ND		ND		nc	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	65.8		61.9		6	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	0.58	J	0.55	J	5	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	12.8		13.8		8	33
100-41-4	Ethylbenzene	4.6		4.5		2	15
141-78-6	Ethyl Acetate	ND		ND		nc	20
622-96-8	4-Ethyltoluene	0.95		0.97		2	13

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50673-2DUP	W44214.D	1	10/21/13	DFT	n/a	n/a	VW1770
JB50673-2	W44213.D	1	10/21/13	DFT	n/a	n/a	VW1770
JB50673-2	W44216.D	1	10/22/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Compound	JB50673-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	33.9		32.7		4	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	77.2		77.0		0	17
591-78-6	2-Hexanone	ND		ND		nc	20
67-63-0	Isopropyl Alcohol	ND		ND		nc	26
75-09-2	Methylene chloride	18.9		18.8		1	26
78-93-3	Methyl ethyl ketone	6.7		6.9		3	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	364 [a]		278	E	4	16
100-42-5	Styrene	ND		ND		nc	11
71-55-6	1,1,1-Trichloroethane	0.74	J	0.76	J	3	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	1.4		1.4		0	19
108-67-8	1,3,5-Trimethylbenzene	1.2		1.2		0	13
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	18
75-65-0	Tertiary Butyl Alcohol	3.0		2.2		31* [b]	21
127-18-4	Tetrachloroethylene	0.51		0.46		10	17
109-99-9	Tetrahydrofuran	ND		ND		nc	20
108-88-3	Toluene	13.5		13.0		4	20
79-01-6	Trichloroethylene	ND		ND		nc	13
75-69-4	Trichlorofluoromethane	0.61	J	0.59	J	3	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	6.3		6.1		3	26
95-47-6	o-Xylene	1.6		1.5		6	20
1330-20-7	Xylenes (total)	7.8		7.6		3	26

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB50673-2DUP	W44214.D	1	10/21/13	DFT	n/a	n/a	VW1770
JB50673-2	W44213.D	1	10/21/13	DFT	n/a	n/a	VW1770
JB50673-2	W44216.D	1	10/22/13	DFT	n/a	n/a	VW1770

The QC reported here applies to the following samples: **Method:** TO-15

JB50673-1, JB50673-2

CAS No.	Surrogate Recoveries	DUP	JB50673-2	JB50673-2	Limits
460-00-4	4-Bromofluorobenzene	96%	95%	101%	65-128%

(a) Result is from Run #2.
(b) High RPD due to low concentration of hit

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-SCC	3W36346.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here (Summa A936) applies to the following samples: **Method:** TO-15

Batch CP6522 cleaned 10/05/13: JB50673-1(A936), JB50673-2(A940)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.034	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.021	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.017	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.034	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.058	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.015	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.19	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-SCC	3W36346.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here (Summa A936) applies to the following samples: **Method:** TO-15

Batch CP6522 cleaned 10/05/13: JB50673-1(A936), JB50673-2(A940)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.016	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.039	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.047	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.058	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.031	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.020	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.014	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1397-SCC	3W36346.D	1	10/07/13	YMH	n/a	n/a	V3W1397

The QC reported here (Summa A936) applies to the following samples: **Method:** TO-15

Batch CP6522 cleaned 10/05/13: JB50673-1(A936), JB50673-2(A940)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	85%	65-128%

Instrument Performance Check (BFB)

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: V3W1350-BFB
Lab File ID: 3W35037.D
Instrument ID: GCMS3W
Injection Date: 07/23/13
Injection Time: 08:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13945	17.1		Pass
75	30.0 - 66.0% of mass 95	36632	44.8		Pass
95	Base peak, 100% relative abundance	81770	100.0		Pass
96	5.0 - 9.0% of mass 95	5579	6.82		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	81373	99.5		Pass
175	4.0 - 9.01% of mass 174	6376	7.80	(7.84) [a]	Pass
176	93.0 - 101.0% of mass 174	79640	97.4	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	5381	6.58	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1350-ICC1350	3W35039.D	07/23/13	10:20	02:11	Initial cal 10
V3W1350-IC1350	3W35040.D	07/23/13	11:05	02:56	Initial cal 5
V3W1350-IC1350	3W35042.D	07/23/13	12:23	04:14	Initial cal 0.2
ZZZZZZ	3W35042.D	07/23/13	12:23	04:14	(unrelated sample)
V3W1350-IC1350	3W35043.D	07/23/13	13:03	04:54	Initial cal 30
V3W1350-IC1350	3W35044.D	07/23/13	13:43	05:34	Initial cal 20
V3W1350-IC1350	3W35045.D	07/23/13	14:22	06:13	Initial cal 15
V3W1350-IC1350	3W35047.D	07/23/13	17:03	08:54	Initial cal 0.5
V3W1350-IC1350	3W35048.D	07/23/13	17:45	09:36	Initial cal 0.1
ZZZZZZ	3W35048.D	07/23/13	17:45	09:36	(unrelated sample)
V3W1350-IC1350	3W35049.D	07/23/13	18:23	10:14	Initial cal 0.04
ZZZZZZ	3W35049.D	07/23/13	18:23	10:14	(unrelated sample)
V3W1350-IC1350	3W35050.D	07/23/13	19:05	10:56	Initial cal 40
V3W1350-ICV1350	3W35053.D	07/23/13	21:02	12:53	Initial cal verification 10
V3W1350-SCC	3W35055.D	07/23/13	22:21	14:12	Summa Cleaning Certification
V3W1350-SCC	3W35056.D	07/23/13	23:02	14:53	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: V3W1397-BFB
Lab File ID: 3W36332.D
Instrument ID: GCMS3W
Injection Date: 10/07/13
Injection Time: 08:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11858	15.0		Pass
75	30.0 - 66.0% of mass 95	33482	42.5		Pass
95	Base peak, 100% relative abundance	78797	100.0		Pass
96	5.0 - 9.0% of mass 95	5343	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	78016	99.0		Pass
175	4.0 - 9.01% of mass 174	5787	7.34	(7.42) [a]	Pass
176	93.0 - 101.0% of mass 174	76461	97.0	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	5283	6.70	(6.91) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1397-CC1350	3W36333.D	10/07/13	10:15	01:45	Continuing cal 10
V3W1397-BS	3W36334.D	10/07/13	10:57	02:27	Blank Spike
V3W1397-BSD	3W36335.D	10/07/13	11:36	03:06	Blank Spike Duplicate
V3W1397-MB	3W36337.D	10/07/13	12:59	04:29	Method Blank
V3W1397-SCC	3W36338.D	10/07/13	13:40	05:10	Summa Cleaning Certification
ZZZZZZ	3W36340.D	10/07/13	15:23	06:53	(unrelated sample)
ZZZZZZ	3W36341.D	10/07/13	16:02	07:32	(unrelated sample)
ZZZZZZ	3W36343.D	10/07/13	18:06	09:36	(unrelated sample)
ZZZZZZ	3W36344.D	10/07/13	18:46	10:16	(unrelated sample)
ZZZZZZ	3W36345.D	10/07/13	19:24	10:54	(unrelated sample)
V3W1397-SCC	3W36346.D	10/07/13	20:05	11:35	Summa Cleaning Certification
ZZZZZZ	3W36347.D	10/07/13	20:43	12:13	(unrelated sample)
JB49227-2	3W36348.D	10/07/13	21:22	12:52	(used for QC only; not part of job JB50673)
JB49227-2DUP	3W36349.D	10/07/13	22:01	13:31	Duplicate
ZZZZZZ	3W36350.D	10/07/13	22:39	14:09	(unrelated sample)
ZZZZZZ	3W36351.D	10/07/13	23:17	14:47	(unrelated sample)
ZZZZZZ	3W36352.D	10/07/13	23:57	15:27	(unrelated sample)
ZZZZZZ	3W36353.D	10/08/13	00:36	16:06	(unrelated sample)
ZZZZZZ	3W36354.D	10/08/13	01:14	16:44	(unrelated sample)
ZZZZZZ	3W36355.D	10/08/13	01:53	17:23	(unrelated sample)
ZZZZZZ	3W36356.D	10/08/13	02:32	18:02	(unrelated sample)
ZZZZZZ	3W36357.D	10/08/13	03:10	18:40	(unrelated sample)
ZZZZZZ	3W36358.D	10/08/13	03:49	19:19	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1765-BFB
Lab File ID: W44074.D
Instrument ID: GCMSW
Injection Date: 10/14/13
Injection Time: 18:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	28394	14.8		Pass
75	30.0 - 66.0% of mass 95	83464	43.6		Pass
95	Base peak, 100% relative abundance	191446	100.0		Pass
96	5.0 - 9.0% of mass 95	12705	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	189418	98.9		Pass
175	4.0 - 9.01% of mass 174	15253	7.97	(8.05) [a]	Pass
176	93.0 - 101.0% of mass 174	183530	95.9	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	12030	6.28	(6.55) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1765-IC1765	W44075.D	10/14/13	19:02	00:40	Initial cal 0.04
VW1765-IC1765	W44076.D	10/14/13	19:42	01:20	Initial cal 0.1
VW1765-IC1765	W44077.D	10/15/13	08:51	14:29	Initial cal 0.2
VW1765-IC1765	W44078.D	10/15/13	09:30	15:08	Initial cal 0.5
VW1765-IC1765	W44079.D	10/15/13	10:10	15:48	Initial cal 5
VW1765-ICC1765	W44080.D	10/15/13	10:50	16:28	Initial cal 10
VW1765-IC1765	W44084.D	10/15/13	13:28	19:06	Initial cal 40
VW1765-IC1765	W44086.D	10/15/13	14:48	20:26	Initial cal 30
VW1765-IC1765	W44087.D	10/15/13	15:27	21:05	Initial cal 20
VW1765-IC1765	W44088.D	10/15/13	16:15	21:53	Initial cal 15
VW1765-ICV1765	W44089.D	10/15/13	17:11	22:49	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1770-BFB
Lab File ID: W44172.D
Instrument ID: GCMSW
Injection Date: 10/19/13
Injection Time: 08:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	23896	15.0		Pass
75	30.0 - 66.0% of mass 95	69314	43.6		Pass
95	Base peak, 100% relative abundance	158890	100.0		Pass
96	5.0 - 9.0% of mass 95	10409	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	160960	101.3		Pass
175	4.0 - 9.01% of mass 174	12323	7.76	(7.66) [a]	Pass
176	93.0 - 101.0% of mass 174	157888	99.4	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	10324	6.50	(6.54) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1770-CC1765	W44174.D	10/19/13	10:16	01:29	Continuing cal 10
VW1770-BS2	W44175.D	10/19/13	11:01	02:14	Blank Spike
VW1770-BSD2	W44179.D	10/19/13	15:26	06:39	Blank Spike Duplicate
VW1770-MB2	W44183.D	10/19/13	17:34	08:47	Method Blank
ZZZZZZ	W44191.D	10/19/13	22:59	14:12	(unrelated sample)
ZZZZZZ	W44192.D	10/19/13	23:40	14:53	(unrelated sample)
ZZZZZZ	W44193.D	10/20/13	00:20	15:33	(unrelated sample)
ZZZZZZ	W44194.D	10/20/13	01:01	16:14	(unrelated sample)
ZZZZZZ	W44195.D	10/20/13	01:42	16:55	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample: VW1770-BFB
Lab File ID: W44200.D
Instrument ID: GCMSW
Injection Date: 10/21/13
Injection Time: 09:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	27698	14.7		Pass
75	30.0 - 66.0% of mass 95	81792	43.3		Pass
95	Base peak, 100% relative abundance	188885	100.0		Pass
96	5.0 - 9.0% of mass 95	12173	6.44		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	198186	104.9		Pass
175	4.0 - 9.01% of mass 174	15695	8.31	(7.92) [a]	Pass
176	93.0 - 101.0% of mass 174	195776	103.6	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	13238	7.01	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1770-CC1765	W44201.D	10/21/13	10:05	00:43	Continuing cal 10
VW1770-BS	W44202.D	10/21/13	10:44	01:22	Blank Spike
VW1770-BSD	W44204.D	10/21/13	12:09	02:47	Blank Spike Duplicate
VW1770-MB	W44206.D	10/21/13	13:28	04:06	Method Blank
VW1770-SCC	W44206A.D	10/21/13	13:28	04:06	Summa Cleaning Certification
ZZZZZZ	W44207.D	10/21/13	14:08	04:46	(unrelated sample)
ZZZZZZ	W44208.D	10/21/13	14:48	05:26	(unrelated sample)
ZZZZZZ	W44209.D	10/21/13	15:28	06:06	(unrelated sample)
ZZZZZZ	W44211.D	10/21/13	16:47	07:25	(unrelated sample)
JB50673-1	W44212.D	10/21/13	17:28	08:06	SVP-1 10/17/13
JB50673-2	W44213.D	10/21/13	18:08	08:46	SVP-XX 10/17/13
JB50673-2DUP	W44214.D	10/21/13	18:48	09:26	Duplicate
JB50673-1	W44215.D	10/21/13	19:27	10:05	SVP-1 10/17/13
JB50673-2	W44216.D	10/22/13	08:58	23:36	SVP-XX 10/17/13

Volatile Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	V3W1397-CC1350	**Injection Date:**	10/07/13
Lab File ID:	3W36333.D	**Injection Time:**	10:15
Instrument ID:	GCMS3W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	110889	7.29	513599	8.88	225012	13.03
Upper Limit [a]	155245	7.62	719039	9.21	315017	13.36
Lower Limit [b]	66533	6.96	308159	8.55	135007	12.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3W1397-BS	142513	7.30	655162	8.89	274630	13.03
V3W1397-BSD	132974	7.30	607823	8.89	259901	13.03
V3W1397-MB	131285	7.30	607940	8.88	227800	13.03
V3W1397-SCC	121048	7.29	557534	8.88	206426	13.03
ZZZZZZ	106083	7.31	598768	8.91	256270	13.04
ZZZZZZ	125148	7.30	605743	8.89	274324	13.03
ZZZZZZ	128358	7.30	599890	8.89	235255	13.03
ZZZZZZ	127511	7.30	604519	8.89	227335	13.03
ZZZZZZ	128894	7.29	602643	8.89	240059	13.03
V3W1397-SCC	123170	7.30	566574	8.89	208260	13.03
ZZZZZZ	124835	7.30	631831	8.90	328388[c]	13.04
JB49227-2	140900	7.29	652020	8.89	252369	13.03
JB49227-2DUP	138329	7.30	645223	8.88	239271	13.03
ZZZZZZ	143371	7.29	658707	8.89	250676	13.03
ZZZZZZ	138965	7.29	634623	8.88	240908	13.03
ZZZZZZ	136721	7.29	619186	8.88	234672	13.03
ZZZZZZ	128449	7.29	592439	8.88	232194	13.03
ZZZZZZ	124555	7.29	580610	8.88	227304	13.03
ZZZZZZ	122749	7.29	572787	8.88	229305	13.03
ZZZZZZ	127439	7.30	570779	8.89	223607	13.03
ZZZZZZ	139992	7.30	641721	8.89	252262	13.03
ZZZZZZ	149318	7.29	671711	8.89	262869	13.03

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.
(c) Outside control limits due to matrix interference.

Volatile Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	VW1770-CC1765	**Injection Date:**	10/19/13
Lab File ID:	W44174.D	**Injection Time:**	10:16
Instrument ID:	GCMSW	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	172063	8.74	878270	10.52	371250	14.87
Upper Limit [a]	240888	9.07	1229578	10.85	519750	15.20
Lower Limit [b]	103238	8.41	526962	10.19	222750	14.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1770-BS2	173358	8.74	885267	10.52	375666	14.87
VW1770-BSD2	169212	8.75	845883	10.53	353191	14.88
VW1770-MB2	160785	8.74	807183	10.51	315484	14.87
ZZZZZZ	159692	8.73	770915	10.51	321153	14.87
ZZZZZZ	156572	8.73	762005	10.51	318164	14.87
ZZZZZZ	157546	8.73	770929	10.51	329981	14.86
ZZZZZZ	155323	8.73	749427	10.51	315050	14.86
ZZZZZZ	154950	8.74	754656	10.51	317758	14.87

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Check Std:	VW1770-CC1765	**Injection Date:**	10/21/13
Lab File ID:	W44201.D	**Injection Time:**	10:05
Instrument ID:	GCMSW	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	163116	8.74	813331	10.52	345687	14.87
Upper Limit [a]	228362	9.07	1138663	10.85	483962	15.20
Lower Limit [b]	97870	8.41	487999	10.19	207412	14.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1770-BS	165281	8.75	861922	10.53	369998	14.88
VW1770-BSD	187408	8.74	972225	10.52	406523	14.87
VW1770-SCC	170419	8.74	875559	10.51	353153	14.86
VW1770-MB	170419	8.74	875559	10.51	353153	14.86
ZZZZZZ	168683	8.73	864552	10.51	346748	14.87
ZZZZZZ	165640	8.73	842552	10.51	334529	14.86
ZZZZZZ	162325	8.73	825721	10.51	328526	14.86
ZZZZZZ	162514	8.73	821366	10.51	321093	14.86
JB50673-1	172430	8.73	851279	10.51	325435	14.86
JB50673-2	174550	8.73	817371	10.51	351957	14.86
JB50673-2DUP	179248	8.74	875727	10.51	377562	14.86
JB50673-1	175421	8.73	857290	10.51	328336	14.86
JB50673-2	204267	8.75	982862	10.52	396900	14.87

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.36	0.719	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.36	0.760	ok	0.759	0.699-0.819
Acetonitrile	5.17	7.36	0.702	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.65	8.96	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.97	13.10	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.55	8.96	1.066	ok	1.065	1.005-1.125
Bromoform	13.81	13.10	1.054	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
n-Butane	4.72	7.36	0.641	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.26	13.10	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.55	13.10	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.21	13.10	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.15	13.10	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.35	7.36	0.591	ok	0.589	0.529-0.649
Chloroethane	4.94	7.36	0.671	ok	0.671	0.611-0.731
Chloroform	7.45	7.36	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.42	13.10	1.177	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.36	1.192	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.96	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.04	7.36	1.092	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.96	1.041	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.96	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.36	0.599	ok	0.598	0.538-0.658
Dibromochloromethane	11.74	13.10	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.96	1.045	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.25	7.36	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.39	8.96	1.160	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.41	13.10	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.50	13.10	1.260	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.89	8.96	1.215	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.36	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.99	8.96	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.36	1.086	ok	1.084	1.024-1.144
Ethanol	5.05	7.36	0.686	ok	0.687	0.627-0.747
Ethylbenzene	13.52	13.10	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.37	7.36	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.32	7.36	0.587	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.10	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.74	13.10	1.354	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.58	13.10	0.884	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.45	7.36	0.740	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.10	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.36	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.88	7.36	0.935	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.39	8.96	1.160	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.36	0.898	ok	0.900	0.840-0.960
Methylmethacrylate	9.77	8.96	1.090	ok	1.091	1.031-1.151
Naphthalene	19.13	13.10	1.460	ok	1.461	1.401-1.521
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.45	13.10	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.36	1.120	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.24	13.10	1.087	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.10	1.450	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.22	13.10	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.72	13.10	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.96	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.80	7.36	0.788	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.36	1.056	ok	1.057	0.997-1.117
Toluene	11.30	8.96	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.56	8.96	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.69	7.36	0.909	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.10	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.10	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.36	0.755	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	113224	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	514163	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	253225	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.36	0.719	ok	0.721	0.661-0.781
Acrylonitrile	5.58	7.36	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.17	7.36	0.702	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.64	8.96	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.97	13.10	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.54	8.96	1.065	ok	1.065	1.005-1.125
Bromoform	13.80	13.10	1.053	ok	1.054	0.994-1.114
Bromomethane	4.85	7.36	0.659	ok	0.659	0.599-0.719
Bromoethene	5.14	7.36	0.698	ok	0.699	0.639-0.759
n-Butane	4.71	7.36	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.26	13.10	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.54	13.10	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.20	13.10	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.10	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.36	0.590	ok	0.589	0.529-0.649
Chloroethane	4.94	7.36	0.671	ok	0.671	0.611-0.731
Chloroform	7.44	7.36	1.011	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.41	13.10	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.36	1.192	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.96	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.59	7.36	0.895	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.76	7.36	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.32	8.96	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.96	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.40	7.36	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.74	13.10	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.96	1.044	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.96	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.40	13.10	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.49	13.10	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.88	8.96	1.214	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.36	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.99	8.96	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.98	7.36	1.084	ok	1.084	1.024-1.144
Ethanol	5.04	7.36	0.685	ok	0.687	0.627-0.747
Ethylbenzene	13.51	13.10	1.031	ok	1.032	0.972-1.092
Ethyl Acetate	7.38	7.36	1.003	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.20	7.36	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.31	7.36	0.586	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.10	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.73	13.10	1.353	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.57	13.10	0.883	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.45	7.36	0.740	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.10	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.36	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.88	7.36	0.935	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.39	8.96	1.160	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.36	0.898	ok	0.900	0.840-0.960
Methylmethacrylate	9.77	8.96	1.090	ok	1.091	1.031-1.151
Naphthalene	19.13	13.10	1.460	ok	1.461	1.401-1.521
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.44	13.10	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.36	1.120	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.23	13.10	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	18.99	13.10	1.450	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.10	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.10	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.96	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.82	7.36	0.791	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.36	1.056	ok	1.057	0.997-1.117
Toluene	11.30	8.96	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.56	8.96	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.70	7.36	0.910	ok	0.911	0.851-0.971
m,p-Xylene	13.70	13.10	1.046	ok	1.046	0.986-1.106
o-Xylene	14.21	13.10	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	115384	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	516654	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	253999	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.35	7.36	0.727	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.36	0.760	ok	0.759	0.699-0.819
Acetonitrile	5.20	7.36	0.707	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.64	8.95	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.96	13.09	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.53	8.95	1.065	ok	1.065	1.005-1.125
Bromoform	13.79	13.09	1.053	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
n-Butane	4.71	7.36	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.09	1.254	ok	1.253	1.193-1.313
n-Butylbenzene	17.25	13.09	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.54	13.09	1.264	ok	1.263	1.203-1.323
tert-Butylbenzene	16.20	13.09	1.238	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.09	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.36	0.590	ok	0.589	0.529-0.649
Chloroethane	4.93	7.36	0.670	ok	0.671	0.611-0.731
Chloroform	7.43	7.36	1.010	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.40	13.09	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.76	7.36	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.95	0.984	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.76	7.36	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.09	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.95	1.042	ok	1.041	0.981-1.101
1,4-Dioxane	9.80	8.95	1.095	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.36	0.599	ok	0.598	0.538-0.658
Dibromochloromethane	11.73	13.09	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.95	1.045	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.95	1.160	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.40	13.09	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.09	1.293	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.49	13.09	1.260	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.88	8.95	1.216	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.34	7.36	0.997	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.98	8.95	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.98	7.36	1.084	ok	1.084	1.024-1.144
Ethanol	5.10	7.36	0.693	ok	0.687	0.627-0.747
Ethylbenzene	13.51	13.09	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.42	7.36	1.008	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.09	1.193	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.32	7.36	0.587	ok	0.586	0.526-0.646
Heptane	9.75	8.95	1.089	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.56	13.09	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.74	13.09	1.355	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.64	13.09	0.889	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.09	1.135	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.51	7.36	0.749	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.09	1.279	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.36	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.94	7.36	0.943	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.46	8.95	1.169	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.65	7.36	0.904	ok	0.900	0.840-0.960
Methylmethacrylate	9.80	8.95	1.095	ok	1.091	1.031-1.151
Naphthalene	19.15	13.09	1.463	ok	1.461	1.401-1.521
Nonane	14.40	13.09	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.09	0.934	ok	0.933	0.873-0.993
Pentane	5.54	7.36	0.753	ok	0.754	0.694-0.814
n-Propylbenzene	15.45	13.09	1.180	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.09	1.078	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.23	7.36	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.09	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.22	13.09	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.95	1.234	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.09	1.451	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.35	13.09	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.09	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.09	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.95	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.89	7.36	0.800	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.09	0.949	ok	0.948	0.888-1.008
Tetrahydrofuran	7.85	7.36	1.067	ok	1.057	0.997-1.117
Toluene	11.30	8.95	1.263	ok	1.261	1.201-1.321
Trichloroethylene	9.55	8.95	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.72	7.36	0.913	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.09	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.09	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.95	1.089	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	110932	ok	109144	65486-152802
1,4-Difluorobenzene	8.95	ok	8.96	8.63-9.29	471475	ok	491685	295011-688359
Chlorobenzene-D5	13.09	ok	13.11	12.78-13.44	211383	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.38	0.717	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.38	0.757	ok	0.759	0.699-0.819
Acetonitrile	5.18	7.38	0.702	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.38	0.636	ok	0.636	0.576-0.696
Benzene	8.66	8.97	0.965	ok	0.964	0.904-1.024
Bromobenzene	15.00	13.12	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.56	8.97	1.066	ok	1.065	1.005-1.125
Bromoform	13.84	13.12	1.055	ok	1.054	0.994-1.114
Bromomethane	4.86	7.38	0.659	ok	0.659	0.599-0.719
Bromoethene	5.15	7.38	0.698	ok	0.699	0.639-0.759
n-Butane	4.72	7.38	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.44	13.12	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.28	13.12	1.317	ok	1.317	1.257-1.377
sec-Butylbenzene	16.57	13.12	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.23	13.12	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.05	7.38	0.820	ok	0.820	0.760-0.880
Chlorobenzene	13.17	13.12	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.38	0.588	ok	0.589	0.529-0.649
Chloroethane	4.95	7.38	0.671	ok	0.671	0.611-0.731
Chloroform	7.47	7.38	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.38	0.610	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.38	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	15.43	13.12	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.78	7.38	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.97	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.61	7.38	0.896	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.38	0.782	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.97	13.12	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.05	7.38	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.35	8.97	1.042	ok	1.041	0.981-1.101
1,4-Dioxane	9.64	8.97	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.38	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.77	13.12	0.897	ok	0.896	0.836-0.956
Dibromomethane	9.38	8.97	1.046	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.45	7.38	0.874	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.26	7.38	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.40	8.97	1.159	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.43	13.12	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.95	13.12	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.52	13.12	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.91	8.97	1.216	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.32	7.38	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.00	8.97	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	8.00	7.38	1.084	ok	1.084	1.024-1.144
Ethanol	5.06	7.38	0.686	ok	0.687	0.627-0.747
Ethylbenzene	13.54	13.12	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.39	7.38	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.65	13.12	1.193	ok	1.193	1.133-1.253
Freon 113	5.99	7.38	0.812	ok	0.813	0.753-0.873
Freon 114	4.55	7.38	0.617	ok	0.618	0.558-0.678
Freon 123	5.21	7.38	0.706	ok	0.707	0.647-0.767
Freon 123A	5.25	7.38	0.711	ok	0.712	0.652-0.772
Freon 152A	4.32	7.38	0.585	ok	0.586	0.526-0.646
Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.12	1.492	ok	1.493	1.433-1.553
Hexachloroethane	17.75	13.12	1.353	ok	1.354	1.294-1.414
Hexane	7.29	7.38	0.988	ok	0.990	0.930-1.050
2-Hexanone	11.60	13.12	0.884	ok	0.885	0.825-0.945
Iodomethane	5.73	7.38	0.776	ok	0.778	0.718-0.838
Isopropylbenzene	14.88	13.12	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.48	7.38	0.743	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.76	13.12	1.277	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.38	0.794	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.89	7.38	0.934	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.41	8.97	1.161	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.38	0.896	ok	0.900	0.840-0.960
Methylmethacrylate	9.79	8.97	1.091	ok	1.091	1.031-1.151
Naphthalene	19.15	13.12	1.460	ok	1.461	1.401-1.521
Nonane	14.42	13.12	1.099	ok	1.100	1.040-1.160
Octane	12.23	13.12	0.932	ok	0.933	0.873-0.993
Pentane	5.56	7.38	0.753	ok	0.754	0.694-0.814
n-Propylbenzene	15.47	13.12	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.38	0.591	ok	0.592	0.532-0.652
Styrene	14.14	13.12	1.078	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.38	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.15	13.12	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.27	13.12	1.088	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.07	8.97	1.234	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.01	13.12	1.449	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.39	13.12	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.24	13.12	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.75	13.12	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.51	8.97	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.83	7.38	0.790	ok	0.793	0.733-0.853
Tetrachloroethylene	12.44	13.12	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.38	1.053	ok	1.057	0.997-1.117
Toluene	11.32	8.97	1.262	ok	1.261	1.201-1.321
Trichloroethylene	9.58	8.97	1.068	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.38	0.729	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.38	0.626	ok	0.627	0.567-0.687
Vinyl Acetate	6.71	7.38	0.909	ok	0.911	0.851-0.971
m,p-Xylene	13.73	13.12	1.046	ok	1.046	0.986-1.106
o-Xylene	14.24	13.12	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.38	0.753	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.38	ok	7.37	7.04-7.70	109141	ok	109144	65486-152802
1,4-Difluorobenzene	8.97	ok	8.96	8.63-9.29	508144	ok	491685	295011-688359
Chlorobenzene-D5	13.12	ok	13.11	12.78-13.44	275918	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.37	0.718	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.37	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.18	7.37	0.703	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.37	0.636	ok	0.636	0.576-0.696
Benzene	8.65	8.97	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.98	13.11	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.56	8.97	1.066	ok	1.065	1.005-1.125
Bromoform	13.83	13.11	1.055	ok	1.054	0.994-1.114
Bromomethane	4.86	7.37	0.659	ok	0.659	0.599-0.719
Bromoethene	5.15	7.37	0.699	ok	0.699	0.639-0.759
n-Butane	4.72	7.37	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.43	13.11	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.27	13.11	1.317	ok	1.317	1.257-1.377
sec-Butylbenzene	16.55	13.11	1.262	ok	1.263	1.203-1.323
tert-Butylbenzene	16.22	13.11	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.37	0.820	ok	0.820	0.760-0.880
Chlorobenzene	13.16	13.11	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.37	0.589	ok	0.589	0.529-0.649
Chloroethane	4.94	7.37	0.670	ok	0.671	0.611-0.731
Chloroform	7.46	7.37	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.37	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.37	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	15.43	13.11	1.177	ok	1.176	1.116-1.236
Carbon tetrachloride	8.78	7.37	1.191	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.97	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.37	0.896	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.37	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.96	13.11	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.05	7.37	1.092	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.34	8.97	1.041	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.97	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.37	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.75	13.11	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.97	1.043	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.37	0.874	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.26	7.37	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.40	8.97	1.159	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.43	13.11	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.94	13.11	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.51	13.11	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.90	8.97	1.215	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.37	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.00	8.97	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.37	1.084	ok	1.084	1.024-1.144
Ethanol	5.04	7.37	0.684	ok	0.687	0.627-0.747
Ethylbenzene	13.53	13.11	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.39	7.37	1.003	ok	1.003	0.943-1.063
4-Ethyltoluene	15.64	13.11	1.193	ok	1.193	1.133-1.253
Freon 113	5.99	7.37	0.813	ok	0.813	0.753-0.873
Freon 114	4.55	7.37	0.617	ok	0.618	0.558-0.678
Freon 123	5.21	7.37	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.37	0.711	ok	0.712	0.652-0.772
Freon 152A	4.32	7.37	0.586	ok	0.586	0.526-0.646
Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.11	1.493	ok	1.493	1.433-1.553
Hexachloroethane	17.75	13.11	1.354	ok	1.354	1.294-1.414
Hexane	7.30	7.37	0.991	ok	0.990	0.930-1.050
2-Hexanone	11.58	13.11	0.883	ok	0.885	0.825-0.945
Iodomethane	5.73	7.37	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.88	13.11	1.135	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.46	7.37	0.741	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.76	13.11	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.37	0.795	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.89	7.37	0.935	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.40	8.97	1.159	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.37	0.897	ok	0.900	0.840-0.960
Methylmethacrylate	9.78	8.97	1.090	ok	1.091	1.031-1.151
Naphthalene	19.14	13.11	1.460	ok	1.461	1.401-1.521
Nonane	14.42	13.11	1.100	ok	1.100	1.040-1.160
Octane	12.23	13.11	0.933	ok	0.933	0.873-0.993
Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.47	13.11	1.180	ok	1.179	1.119-1.239
Propylene	4.36	7.37	0.592	ok	0.592	0.532-0.652
Styrene	14.13	13.11	1.078	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.37	1.119	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.14	13.11	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.25	13.11	1.087	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.06	8.97	1.233	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.11	1.449	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.38	13.11	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.23	13.11	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.74	13.11	1.201	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.97	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.82	7.37	0.790	ok	0.793	0.733-0.853
Tetrachloroethylene	12.43	13.11	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.37	1.054	ok	1.057	0.997-1.117
Toluene	11.31	8.97	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.57	8.97	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.37	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.37	0.627	ok	0.627	0.567-0.687
Vinyl Acetate	6.71	7.37	0.910	ok	0.911	0.851-0.971
m,p-Xylene	13.72	13.11	1.047	ok	1.046	0.986-1.106
o-Xylene	14.22	13.11	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.77	8.97	1.089	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.37	7.04-7.70	114945	ok	109144	65486-152802
1,4-Difluorobenzene	8.97	ok	8.96	8.63-9.29	542685	ok	491685	295011-688359
Chlorobenzene-D5	13.11	ok	13.11	12.78-13.44	276531	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.29	7.37	0.718	ok	0.721	0.661-0.781
Acrylonitrile	5.59	7.37	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.17	7.37	0.701	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.37	0.636	ok	0.636	0.576-0.696
Benzene	8.65	8.97	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.98	13.11	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.55	8.97	1.065	ok	1.065	1.005-1.125
Bromoform	13.82	13.11	1.054	ok	1.054	0.994-1.114
Bromomethane	4.86	7.37	0.659	ok	0.659	0.599-0.719
Bromoethene	5.15	7.37	0.699	ok	0.699	0.639-0.759
n-Butane	4.72	7.37	0.640	ok	0.640	0.580-0.700
Benzyl Chloride	16.43	13.11	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.27	13.11	1.317	ok	1.317	1.257-1.377
sec-Butylbenzene	16.55	13.11	1.262	ok	1.263	1.203-1.323
tert-Butylbenzene	16.21	13.11	1.236	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.37	0.820	ok	0.820	0.760-0.880
Chlorobenzene	13.15	13.11	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.37	0.589	ok	0.589	0.529-0.649
Chloroethane	4.94	7.37	0.670	ok	0.671	0.611-0.731
Chloroform	7.46	7.37	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.37	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.37	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	15.42	13.11	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.37	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.97	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.37	0.896	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.37	0.783	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.95	13.11	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.04	7.37	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.97	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.63	8.97	1.074	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.41	7.37	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.75	13.11	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.97	1.043	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.37	0.874	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.25	7.37	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.39	8.97	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.42	13.11	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.94	13.11	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.51	13.11	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.90	8.97	1.215	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.31	7.37	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.00	8.97	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.37	1.084	ok	1.084	1.024-1.144
Ethanol	5.05	7.37	0.685	ok	0.687	0.627-0.747
Ethylbenzene	13.52	13.11	1.031	ok	1.032	0.972-1.092
Ethyl Acetate	7.38	7.37	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.63	13.11	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.37	0.813	ok	0.813	0.753-0.873
Freon 114	4.55	7.37	0.617	ok	0.618	0.558-0.678
Freon 123	5.21	7.37	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.37	0.711	ok	0.712	0.652-0.772
Freon 152A	4.32	7.37	0.586	ok	0.586	0.526-0.646
Heptane	9.75	8.97	1.087	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.11	1.493	ok	1.493	1.433-1.553
Hexachloroethane	17.75	13.11	1.354	ok	1.354	1.294-1.414
Hexane	7.30	7.37	0.991	ok	0.990	0.930-1.050
2-Hexanone	11.58	13.11	0.883	ok	0.885	0.825-0.945
Iodomethane	5.73	7.37	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.87	13.11	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.46	7.37	0.741	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.75	13.11	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.85	7.37	0.794	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.88	7.37	0.934	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.39	8.97	1.158	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.37	0.897	ok	0.900	0.840-0.960
Methylmethacrylate	9.78	8.97	1.090	ok	1.091	1.031-1.151
Naphthalene	19.14	13.11	1.460	ok	1.461	1.401-1.521
Nonane	14.41	13.11	1.099	ok	1.100	1.040-1.160
Octane	12.22	13.11	0.932	ok	0.933	0.873-0.993
Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.46	13.11	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.37	0.592	ok	0.592	0.532-0.652
Styrene	14.12	13.11	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.37	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.14	13.11	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.25	13.11	1.087	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.05	8.97	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.11	1.449	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.38	13.11	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.23	13.11	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.73	13.11	1.200	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.97	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.82	7.37	0.790	ok	0.793	0.733-0.853
Tetrachloroethylene	12.43	13.11	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.77	7.37	1.054	ok	1.057	0.997-1.117
Toluene	11.30	8.97	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.57	8.97	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.37	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.37	0.627	ok	0.627	0.567-0.687
Vinyl Acetate	6.71	7.37	0.910	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.11	1.046	ok	1.046	0.986-1.106
o-Xylene	14.22	13.11	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.37	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.76	8.97	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.37	ok	7.37	7.04-7.70	116094	ok	109144	65486-152802
1,4-Difluorobenzene	8.97	ok	8.96	8.63-9.29	544592	ok	491685	295011-688359
Chlorobenzene-D5	13.11	ok	13.11	12.78-13.44	277708	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.34	7.36	0.726	ok	0.721	0.661-0.781
Acrylonitrile	5.60	7.36	0.761	ok	0.759	0.699-0.819
Acetonitrile	5.20	7.36	0.707	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.36	0.637	ok	0.636	0.576-0.696
Benzene	8.64	8.96	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.97	13.10	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.54	8.96	1.065	ok	1.065	1.005-1.125
Bromoform	13.80	13.10	1.053	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
n-Butane	4.72	7.36	0.641	ok	0.640	0.580-0.700
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.27	13.10	1.318	ok	1.317	1.257-1.377
sec-Butylbenzene	16.54	13.10	1.263	ok	1.263	1.203-1.323
tert-Butylbenzene	16.21	13.10	1.237	ok	1.237	1.177-1.297
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.10	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.36	0.590	ok	0.589	0.529-0.649
Chloroethane	4.95	7.36	0.673	ok	0.671	0.611-0.731
Chloroform	7.44	7.36	1.011	ok	1.011	0.951-1.071
Chloromethane	4.50	7.36	0.611	ok	0.611	0.551-0.671
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.42	13.10	1.177	ok	1.176	1.116-1.236
Carbon tetrachloride	8.76	7.36	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.80	8.96	0.982	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.32	8.96	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.75	8.96	1.088	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.40	7.36	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.73	13.10	0.895	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.96	1.044	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.96	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.41	13.10	1.253	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.50	13.10	1.260	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.88	8.96	1.214	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.33	7.36	0.996	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.99	8.96	1.003	ok	1.003	0.943-1.063
2,4-Dimethylpentane	7.99	7.36	1.086	ok	1.084	1.024-1.144
Ethanol	5.10	7.36	0.693	ok	0.687	0.627-0.747
Ethylbenzene	13.52	13.10	1.032	ok	1.032	0.972-1.092
Ethyl Acetate	7.42	7.36	1.008	ok	1.003	0.943-1.063
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.31	7.36	0.586	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.10	1.494	ok	1.493	1.433-1.553
Hexachloroethane	17.74	13.10	1.354	ok	1.354	1.294-1.414
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.63	13.10	0.888	ok	0.885	0.825-0.945
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.51	7.36	0.749	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.74	13.10	1.278	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.36	0.796	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.92	7.36	0.940	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.44	8.96	1.165	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.64	7.36	0.902	ok	0.900	0.840-0.960
Methylmethacrylate	9.79	8.96	1.093	ok	1.091	1.031-1.151
Naphthalene	19.15	13.10	1.462	ok	1.461	1.401-1.521
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.45	13.10	1.179	ok	1.179	1.119-1.239
Propylene	4.36	7.36	0.592	ok	0.592	0.532-0.652
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.36	1.120	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.23	13.10	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	19.00	13.10	1.450	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.10	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.10	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.50	8.96	1.060	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.88	7.36	0.799	ok	0.793	0.733-0.853
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.85	7.36	1.067	ok	1.057	0.997-1.117
Toluene	11.29	8.96	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.56	8.96	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.37	7.36	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
Vinyl Acetate	6.72	7.36	0.913	ok	0.911	0.851-0.971
m,p-Xylene	13.71	13.10	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.10	1.085	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	106171	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	466196	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	200492	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.34	7.36	0.726	ok	0.721	0.661-0.781
Benzene	8.63	8.96	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.96	13.09	1.143	ok	1.143	1.083-1.203
Bromodichloromethane	9.53	8.96	1.064	ok	1.065	1.005-1.125
Bromoform	13.80	13.09	1.054	ok	1.054	0.994-1.114
Bromomethane	4.86	7.36	0.660	ok	0.659	0.599-0.719
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.15	13.09	1.005	ok	1.004	0.944-1.064
Chloroethane	4.94	7.36	0.671	ok	0.671	0.611-0.731
Chloroform	7.44	7.36	1.011	ok	1.011	0.951-1.071
3-Chloropropene	5.91	7.36	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.40	13.09	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.77	7.36	1.192	ok	1.191	1.131-1.251
Cyclohexane	8.81	8.96	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.60	7.36	0.897	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.94	13.09	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.03	7.36	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.33	8.96	1.041	ok	1.041	0.981-1.101
Dichlorodifluoromethane	4.40	7.36	0.598	ok	0.598	0.538-0.658
Dibromochloromethane	11.74	13.09	0.897	ok	0.896	0.836-0.956
Dibromomethane	9.35	8.96	1.044	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.45	7.36	0.876	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.39	8.96	1.160	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.41	13.09	1.254	ok	1.253	1.193-1.313
o-Dichlorobenzene	16.93	13.09	1.293	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.51	13.09	1.261	ok	1.259	1.199-1.319
2,4-Dimethylpentane	7.99	7.36	1.086	ok	1.084	1.024-1.144
Ethylbenzene	13.51	13.09	1.032	ok	1.032	0.972-1.092
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.21	7.36	0.708	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Freon 152A	4.33	7.36	0.588	ok	0.586	0.526-0.646
Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.57	13.09	1.495	ok	1.493	1.433-1.553

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
Iodomethane	5.72	7.36	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.85	13.09	1.134	ok	1.134	1.074-1.194
Methyl Tert Butyl Ether	6.67	7.36	0.906	ok	0.900	0.840-0.960
Nonane	14.41	13.09	1.101	ok	1.100	1.040-1.160
Octane	12.22	13.09	0.934	ok	0.933	0.873-0.993
Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.43	13.09	1.179	ok	1.179	1.119-1.239
1,1,1-Trichloroethane	8.23	7.36	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.09	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.24	13.09	1.088	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,4-Trichlorobenzene	18.99	13.09	1.451	ok	1.450	1.390-1.510
1,2,3-Trichloropropane	14.36	13.09	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.09	1.238	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.72	13.09	1.201	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.96	1.059	ok	1.060	1.000-1.120
Tetrachloroethylene	12.42	13.09	0.949	ok	0.948	0.888-1.008
Toluene	11.30	8.96	1.261	ok	1.261	1.201-1.321
Trichloroethylene	9.55	8.96	1.066	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
m,p-Xylene	13.70	13.09	1.047	ok	1.046	0.986-1.106
o-Xylene	14.21	13.09	1.086	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.55	7.36	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	100679	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	430193	ok	491685	295011-688359
Chlorobenzene-D5	13.09	ok	13.11	12.78-13.44	192761	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Benzene	8.64	8.96	0.964	ok	0.964	0.904-1.024
Bromobenzene	14.96	13.10	1.142	ok	1.143	1.083-1.203
Bromodichloromethane	9.54	8.96	1.065	ok	1.065	1.005-1.125
Bromoform	13.80	13.10	1.053	ok	1.054	0.994-1.114
Bromoethene	5.15	7.36	0.700	ok	0.699	0.639-0.759
Benzyl Chloride	16.41	13.10	1.253	ok	1.253	1.193-1.313
Carbon disulfide	6.04	7.36	0.821	ok	0.820	0.760-0.880
Chlorobenzene	13.14	13.10	1.003	ok	1.004	0.944-1.064
Chloroform	7.43	7.36	1.010	ok	1.011	0.951-1.071
2-Chlorotoluene	15.41	13.10	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.76	7.36	1.190	ok	1.191	1.131-1.251
Cyclohexane	8.80	8.96	0.982	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.58	7.36	0.894	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.36	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.93	13.10	0.911	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.04	7.36	1.092	ok	1.091	1.031-1.151
Dibromochloromethane	11.73	13.10	0.895	ok	0.896	0.836-0.956
Dibromomethane	9.36	8.96	1.045	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.44	7.36	0.875	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.24	7.36	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.38	8.96	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.40	13.10	1.252	ok	1.253	1.193-1.313
o-Dichlorobenzene	16.93	13.10	1.292	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.50	13.10	1.260	ok	1.259	1.199-1.319
Ethylbenzene	13.52	13.10	1.032	ok	1.032	0.972-1.092
4-Ethyltoluene	15.62	13.10	1.192	ok	1.193	1.133-1.253
Freon 113	5.99	7.36	0.814	ok	0.813	0.753-0.873
Freon 114	4.55	7.36	0.618	ok	0.618	0.558-0.678
Freon 123	5.20	7.36	0.707	ok	0.707	0.647-0.767
Freon 123A	5.24	7.36	0.712	ok	0.712	0.652-0.772
Heptane	9.74	8.96	1.087	ok	1.088	1.028-1.148
Hexachlorobutadiene	19.55	13.10	1.492	ok	1.493	1.433-1.553
Hexane	7.29	7.36	0.990	ok	0.990	0.930-1.050
Iodomethane	5.73	7.36	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.86	13.10	1.134	ok	1.134	1.074-1.194
Methyl Tert Butyl Ether	6.69	7.36	0.909	ok	0.900	0.840-0.960
Nonane	14.41	13.10	1.100	ok	1.100	1.040-1.160
Octane	12.22	13.10	0.933	ok	0.933	0.873-0.993

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	Reporting this level
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.45	13.10	1.179	ok	1.179	1.119-1.239
Styrene	14.11	13.10	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.23	7.36	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.12	13.10	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.23	13.10	1.086	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.04	8.96	1.232	ok	1.233	1.173-1.293
1,2,3-Trichloropropane	14.36	13.10	1.096	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.21	13.10	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.71	13.10	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.49	8.96	1.059	ok	1.060	1.000-1.120
Tetrachloroethylene	12.42	13.10	0.948	ok	0.948	0.888-1.008
Toluene	11.29	8.96	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.55	8.96	1.066	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.36	0.731	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.36	0.628	ok	0.627	0.567-0.687
m,p-Xylene	13.71	13.10	1.047	ok	1.046	0.986-1.106
o-Xylene	14.20	13.10	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.36	0.755	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.75	8.96	1.088	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.36	ok	7.37	7.04-7.70	102105	ok	109144	65486-152802
1,4-Difluorobenzene	8.96	ok	8.96	8.63-9.29	435104	ok	491685	295011-688359
Chlorobenzene-D5	13.10	ok	13.11	12.78-13.44	192155	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.30	7.39	0.717	ok	0.721	0.661-0.781
Acrylonitrile	5.60	7.39	0.758	ok	0.759	0.699-0.819
Acetonitrile	5.18	7.39	0.701	ok	0.703	0.643-0.763
1,3-Butadiene	4.69	7.39	0.635	ok	0.636	0.576-0.696
Benzene	8.66	8.99	0.963	ok	0.964	0.904-1.024
Bromobenzene	15.01	13.14	1.142	ok	1.143	1.083-1.203
Bromodichloromethane	9.58	8.99	1.066	ok	1.065	1.005-1.125
Bromoform	13.86	13.14	1.055	ok	1.054	0.994-1.114
Bromomethane	4.86	7.39	0.658	ok	0.659	0.599-0.719
Bromoethene	5.15	7.39	0.697	ok	0.699	0.639-0.759
n-Butane	4.72	7.39	0.639	ok	0.640	0.580-0.700
Benzyl Chloride	16.46	13.14	1.253	ok	1.253	1.193-1.313
n-Butylbenzene	17.29	13.14	1.316	ok	1.317	1.257-1.377
sec-Butylbenzene	16.58	13.14	1.262	ok	1.263	1.203-1.323
tert-Butylbenzene	16.24	13.14	1.236	ok	1.237	1.177-1.297
Carbon disulfide	6.05	7.39	0.819	ok	0.820	0.760-0.880
Chlorobenzene	13.18	13.14	1.003	ok	1.004	0.944-1.064
Chlorodifluoromethane	4.34	7.39	0.587	ok	0.589	0.529-0.649
Chloroethane	4.95	7.39	0.670	ok	0.671	0.611-0.731
Chloroform	7.48	7.39	1.012	ok	1.011	0.951-1.071
Chloromethane	4.50	7.39	0.609	ok	0.611	0.551-0.671
3-Chloropropene	5.92	7.39	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	15.45	13.14	1.176	ok	1.176	1.116-1.236
Carbon tetrachloride	8.79	7.39	1.189	ok	1.191	1.131-1.251
Cyclohexane	8.82	8.99	0.981	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.61	7.39	0.894	ok	0.896	0.836-0.956
1,1-Dichloroethylene	5.77	7.39	0.781	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.99	13.14	0.912	ok	0.912	0.852-0.972
1,2-Dichloroethane	8.06	7.39	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	9.35	8.99	1.040	ok	1.041	0.981-1.101
1,4-Dioxane	9.66	8.99	1.075	ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.40	7.39	0.595	ok	0.598	0.538-0.658
Dibromochloromethane	11.78	13.14	0.896	ok	0.896	0.836-0.956
Dibromomethane	9.38	8.99	1.043	ok	1.044	0.984-1.104
trans-1,2-Dichloroethylene	6.45	7.39	0.873	ok	0.875	0.815-0.935
cis-1,2-Dichloroethylene	7.26	7.39	0.982	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.41	8.99	1.158	ok	1.159	1.099-1.219
m-Dichlorobenzene	16.45	13.14	1.252	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.96	13.14	1.291	ok	1.292	1.232-1.352
p-Dichlorobenzene	16.54	13.14	1.259	ok	1.259	1.199-1.319
trans-1,3-Dichloropropene	10.93	8.99	1.216	ok	1.215	1.155-1.275
Di-Isopropyl ether	7.33	7.39	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.01	8.99	1.002	ok	1.003	0.943-1.063
2,4-Dimethylpentane	8.00	7.39	1.083	ok	1.084	1.024-1.144
Ethanol	5.07	7.39	0.686	ok	0.687	0.627-0.747
Ethylbenzene	13.55	13.14	1.031	ok	1.032	0.972-1.092
Ethyl Acetate	7.40	7.39	1.001	ok	1.003	0.943-1.063
4-Ethyltoluene	15.66	13.14	1.192	ok	1.193	1.133-1.253
Freon 113	6.00	7.39	0.812	ok	0.813	0.753-0.873
Freon 114	4.55	7.39	0.616	ok	0.618	0.558-0.678
Freon 123	5.21	7.39	0.705	ok	0.707	0.647-0.767
Freon 123A	5.25	7.39	0.710	ok	0.712	0.652-0.772
Freon 152A	4.31	7.39	0.583	ok	0.586	0.526-0.646
Heptane	9.77	8.99	1.087	ok	1.088	1.028-1.148
Hexachloroethane	17.76	13.14	1.352	ok	1.354	1.294-1.414
Hexane	7.30	7.39	0.988	ok	0.990	0.930-1.050
2-Hexanone	11.61	13.14	0.884	ok	0.885	0.825-0.945
Iodomethane	5.74	7.39	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.89	13.14	1.133	ok	1.134	1.074-1.194
Isopropyl Alcohol	5.49	7.39	0.743	ok	0.743	0.683-0.803
p-Isopropyltoluene	16.77	13.14	1.276	ok	1.278	1.218-1.338
Methylene chloride	5.86	7.39	0.793	ok	0.795	0.735-0.855
Methyl ethyl ketone	6.90	7.39	0.934	ok	0.936	0.876-0.996
Methyl Isobutyl Ketone	10.43	8.99	1.160	ok	1.161	1.101-1.221
Methyl Tert Butyl Ether	6.61	7.39	0.894	ok	0.900	0.840-0.960
Methylmethacrylate	9.81	8.99	1.091	ok	1.091	1.031-1.151
Nonane	14.43	13.14	1.098	ok	1.100	1.040-1.160
Octane	12.24	13.14	0.932	ok	0.933	0.873-0.993
Pentane	5.56	7.39	0.752	ok	0.754	0.694-0.814
n-Propylbenzene	15.48	13.14	1.178	ok	1.179	1.119-1.239
Propylene	4.36	7.39	0.590	ok	0.592	0.532-0.652
Styrene	14.15	13.14	1.077	ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.26	7.39	1.118	ok	1.119	1.059-1.179
1,1,1,2-Tetrachloroethane	13.16	13.14	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.29	13.14	1.088	ok	1.087	1.027-1.147
1,1,2-Trichloroethane	11.09	8.99	1.234	ok	1.233	1.173-1.293

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1350-ICC1350	3W35039.D	07/23/13 10:20	YMH	10	GCMS3W	TO-15	
V3W1350-IC1350	3W35040.D	07/23/13 11:05	YMH	5	GCMS3W	TO-15	
V3W1350-IC1350	3W35042.D	07/23/13 12:23	YMH	0.2	GCMS3W	TO-15	
V3W1350-IC1350	3W35043.D	07/23/13 13:03	YMH	30	GCMS3W	TO-15	
V3W1350-IC1350	3W35044.D	07/23/13 13:43	YMH	20	GCMS3W	TO-15	
V3W1350-IC1350	3W35045.D	07/23/13 14:22	YMH	15	GCMS3W	TO-15	
V3W1350-IC1350	3W35047.D	07/23/13 17:03	YMH	0.5	GCMS3W	TO-15	
V3W1350-IC1350	3W35048.D	07/23/13 17:45	YMH	0.1	GCMS3W	TO-15	
V3W1350-IC1350	3W35049.D	07/23/13 18:23	YMH	0.04	GCMS3W	TO-15	
V3W1350-IC1350	3W35050.D	07/23/13 19:05	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,2,3-Trichloropropane	14.41	13.14	1.097	ok	1.097	1.037-1.157
1,2,4-Trimethylbenzene	16.26	13.14	1.237	ok	1.238	1.178-1.298
1,3,5-Trimethylbenzene	15.76	13.14	1.199	ok	1.200	1.140-1.260
2,2,4-Trimethylpentane	9.52	8.99	1.059	ok	1.060	1.000-1.120
Tertiary Butyl Alcohol	5.86	7.39	0.793	ok	0.793	0.733-0.853
Tetrachloroethylene	12.45	13.14	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.78	7.39	1.053	ok	1.057	0.997-1.117
Toluene	11.33	8.99	1.260	ok	1.261	1.201-1.321
Trichloroethylene	9.59	8.99	1.067	ok	1.067	1.007-1.127
Trichlorofluoromethane	5.38	7.39	0.728	ok	0.730	0.670-0.790
Vinyl chloride	4.62	7.39	0.625	ok	0.627	0.567-0.687
Vinyl Acetate	6.72	7.39	0.909	ok	0.911	0.851-0.971
m,p-Xylene	13.74	13.14	1.046	ok	1.046	0.986-1.106
o-Xylene	14.25	13.14	1.084	ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.56	7.39	0.752	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.77	8.99	1.087	ok	1.088	1.028-1.148

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.39	ok	7.37	7.04-7.70	102769	ok	109144	65486-152802
1,4-Difluorobenzene	8.99	ok	8.96	8.63-9.29	487642	ok	491685	295011-688359
Chlorobenzene-D5	13.14	ok	13.11	12.78-13.44	270229	ok	240440	144264-336616

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Trichloroethylene	11.22	10.52	1.067	ok	1.066	1.006-1.126

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	208494	ok	212828	127697-297959
1,4-Difluorobenzene	10.52	ok	10.53	10.20-10.86	1033789	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	422361	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3-Butadiene	5.22	8.75	0.597	ok	0.596	0.536-0.656
Benzene	10.23	10.52	0.972	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.18	10.52	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.46	8.75	0.624	ok	0.624	0.564-0.684
Bromoethene	5.89	8.75	0.673	ok	0.674	0.614-0.734
Benzyl Chloride	18.11	14.88	1.217	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.75	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chloroethane	5.59	8.75	0.639	ok	0.640	0.580-0.700
Chloroform	8.85	8.75	1.011	ok	1.013	0.953-1.073
3-Chloropropene	6.96	8.75	0.795	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.75	1.184	ok	1.183	1.123-1.243
1,1-Dichloroethane	7.85	8.75	0.897	ok	0.898	0.838-0.958
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.75	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	10.99	10.52	1.045	ok	1.045	0.985-1.105
Dichlorodifluoromethane	4.76	8.75	0.544	ok	0.544	0.484-0.604
Dibromomethane	10.97	10.52	1.043	ok	1.043	0.983-1.103
cis-1,3-Dichloropropene	12.05	10.52	1.145	ok	1.145	1.085-1.205
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.57	10.52	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.77	8.75	1.002	ok	1.001	0.941-1.061
2,4-Dimethylpentane	9.57	8.75	1.094	ok	1.093	1.033-1.153
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.75	1.006	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.75	0.809	ok	0.809	0.749-0.869
Freon 114	4.99	8.75	0.570	ok	0.570	0.510-0.630
Freon 123	5.99	8.75	0.685	ok	0.685	0.625-0.745
Freon 123A	6.04	8.75	0.690	ok	0.691	0.631-0.751

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Iodomethane	6.72	8.75	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
p-Isopropyltoluene	18.41	14.88	1.237	ok	1.238	1.178-1.298
Methyl ethyl ketone	8.25	8.75	0.943	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.14	10.52	1.154	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.94	8.75	0.907	ok	0.905	0.845-0.965
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.01	14.88	0.942	ok	0.942	0.882-1.002
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Styrene	15.90	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.78	8.75	1.118	ok	1.117	1.057-1.177
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.52	1.214	ok	1.212	1.152-1.272
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.88	1.174	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.22	10.52	1.067	ok	1.067	1.007-1.127
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.35	8.75	1.069	ok	1.062	1.002-1.122
Toluene	13.03	10.52	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.21	10.52	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.23	8.75	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.75	0.584	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.75	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.49	14.88	1.041	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	206945	ok	212828	127697-297959
1,4-Difluorobenzene	10.52	ok	10.53	10.20-10.86	1035480	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	424821	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.19	8.80	0.703	ok	0.698	0.638-0.758
Acrolein	6.08	8.80	0.691	ok	0.685	0.625-0.745
Acrylonitrile	6.57	8.80	0.747	ok	0.741	0.681-0.801
Acetonitrile	5.97	8.80	0.678	ok	0.673	0.613-0.733
1,3-Butadiene	5.30	8.80	0.602	ok	0.596	0.536-0.656
Benzene	10.25	10.56	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.79	14.89	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.21	10.56	1.062	ok	1.062	1.002-1.122
Bromoform	15.62	14.89	1.049	ok	1.049	0.989-1.109
Bromomethane	5.54	8.80	0.630	ok	0.624	0.564-0.684
Bromoethene	5.97	8.80	0.678	ok	0.674	0.614-0.734
n-Butane	5.35	8.80	0.608	ok	0.602	0.542-0.662
Benzyl Chloride	18.11	14.89	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.89	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.89	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.94	14.89	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.22	8.80	0.820	ok	0.819	0.759-0.879
Chlorobenzene	14.94	14.89	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.76	8.80	0.541	ok	0.534	0.474-0.594
Chloroethane	5.68	8.80	0.645	ok	0.640	0.580-0.700
Chloroform	8.91	8.80	1.012	ok	1.013	0.953-1.073
Chloromethane	4.98	8.80	0.566	ok	0.561	0.501-0.621
3-Chloropropene	7.04	8.80	0.800	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.89	1.155	ok	1.156	1.096-1.216
Carbon tetrachloride	10.39	8.80	1.181	ok	1.183	1.123-1.243
Cyclohexane	10.51	10.56	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.91	8.80	0.899	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.84	8.80	0.777	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.76	14.89	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.59	8.80	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.03	10.56	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.49	10.56	1.088	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.80	0.550	ok	0.544	0.484-0.604
Dibromochloromethane	13.50	14.89	0.907	ok	0.907	0.847-0.967
Dibromomethane	11.01	10.56	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.73	8.80	0.878	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.65	8.80	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.08	10.56	1.144	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.89	1.217	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.59	14.89	1.248	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.89	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.60	10.56	1.193	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.82	8.80	1.002	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.71	10.56	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.61	8.80	1.092	ok	1.093	1.033-1.153
Ethanol	5.86	8.80	0.666	ok	0.654	0.594-0.714
Ethylbenzene	15.32	14.89	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.84	8.80	1.005	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.89	1.168	ok	1.169	1.109-1.229
Freon 113	7.14	8.80	0.811	ok	0.809	0.749-0.869
Freon 114	5.07	8.80	0.576	ok	0.570	0.510-0.630
Freon 123	6.07	8.80	0.690	ok	0.685	0.625-0.745
Freon 123A	6.12	8.80	0.695	ok	0.691	0.631-0.751
Freon 152A	4.71	8.80	0.535	ok	0.529	0.469-0.589
Heptane	11.49	10.56	1.088	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.89	1.412	ok	1.413	1.353-1.473
Hexachloroethane	19.35	14.89	1.300	ok	1.300	1.240-1.360
Hexane	8.81	8.80	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.40	14.89	0.900	ok	0.896	0.836-0.956
Iodomethane	6.80	8.80	0.773	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.89	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.49	8.80	0.738	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.41	14.89	1.236	ok	1.238	1.178-1.298
Methylene chloride	6.93	8.80	0.787	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.28	8.80	0.941	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.19	10.56	1.154	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.98	8.80	0.907	ok	0.905	0.845-0.965
Methylmethacrylate	11.45	10.56	1.084	ok	1.082	1.022-1.142
Naphthalene	20.65	14.89	1.387	ok	1.388	1.328-1.448
Nonane	16.23	14.89	1.090	ok	1.091	1.031-1.151
Octane	14.03	14.89	0.942	ok	0.942	0.882-1.002
Pentane	6.58	8.80	0.748	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.89	1.157	ok	1.158	1.098-1.218
Propylene	4.79	8.80	0.544	ok	0.538	0.478-0.598
Styrene	15.91	14.89	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.82	8.80	1.116	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.92	14.89	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.89	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.78	10.56	1.210	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.89	1.379	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.89	1.086	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.89	1.205	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.89	1.173	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.25	10.56	1.065	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	7.04	8.80	0.800	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.89	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.39	8.80	1.067	ok	1.062	1.002-1.122
Toluene	13.06	10.56	1.237	ok	1.239	1.179-1.299
Trichloroethylene	11.24	10.56	1.064	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.30	8.80	0.716	ok	0.712	0.652-0.772
Vinyl chloride	5.19	8.80	0.590	ok	0.583	0.523-0.643
Vinyl Acetate	8.03	8.80	0.912	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.89	1.042	ok	1.042	0.982-1.102
o-Xylene	16.03	14.89	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.80	ok	8.76	8.43-9.09	257782	ok	212828	127697-297959
1,4-Difluorobenzene	10.56	ok	10.53	10.20-10.86	1332577	ok	1090708	654425-1526991
Chlorobenzene-D5	14.89	ok	14.88	14.55-15.21	565963	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.15	8.77	0.701	ok	0.698	0.638-0.758
Acrolein	6.03	8.77	0.688	ok	0.685	0.625-0.745
Acrylonitrile	6.52	8.77	0.743	ok	0.741	0.681-0.801
Acetonitrile	5.92	8.77	0.675	ok	0.673	0.613-0.733
1,3-Butadiene	5.23	8.77	0.596	ok	0.596	0.536-0.656
Benzene	10.23	10.53	0.972	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.47	8.77	0.624	ok	0.624	0.564-0.684
Bromoethene	5.92	8.77	0.675	ok	0.674	0.614-0.734
n-Butane	5.28	8.77	0.602	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.88	1.270	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.18	8.77	0.819	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.68	8.77	0.534	ok	0.534	0.474-0.594
Chloroethane	5.62	8.77	0.641	ok	0.640	0.580-0.700
Chloroform	8.87	8.77	1.011	ok	1.013	0.953-1.073
Chloromethane	4.93	8.77	0.562	ok	0.561	0.501-0.621
3-Chloropropene	6.98	8.77	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.77	1.181	ok	1.183	1.123-1.243
Cyclohexane	10.49	10.53	0.996	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.77	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.79	8.77	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.75	14.88	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.56	8.77	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.38	10.53	1.081	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.78	8.77	0.545	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.53	1.044	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.69	8.77	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.61	8.77	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.78	8.77	1.001	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.77	1.092	ok	1.093	1.033-1.153
Ethanol	5.77	8.77	0.658	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.82	8.77	1.006	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.10	8.77	0.810	ok	0.809	0.749-0.869
Freon 114	5.00	8.77	0.570	ok	0.570	0.510-0.630
Freon 123	6.01	8.77	0.685	ok	0.685	0.625-0.745
Freon 123A	6.05	8.77	0.690	ok	0.691	0.631-0.751
Freon 152A	4.65	8.77	0.530	ok	0.529	0.469-0.589
Heptane	11.48	10.53	1.090	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.77	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.37	14.88	0.899	ok	0.896	0.836-0.956
Iodomethane	6.74	8.77	0.769	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.41	8.77	0.731	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.89	8.77	0.786	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.25	8.77	0.941	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.16	10.53	1.155	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.94	8.77	0.905	ok	0.905	0.845-0.965
Methylmethacrylate	11.41	10.53	1.084	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.54	8.77	0.746	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.71	8.77	0.537	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.77	1.116	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.53	1.067	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.96	8.77	0.794	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.34	8.77	1.065	ok	1.062	1.002-1.122
Toluene	13.05	10.53	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.23	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.25	8.77	0.713	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.77	0.583	ok	0.583	0.523-0.643
Vinyl Acetate	7.99	8.77	0.911	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77	ok	8.76	8.43-9.09	205578	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1013788	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	416406	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	Reporting this level
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.12	8.76	0.699	ok	0.698	0.638-0.758
Acrolein	6.00	8.76	0.685	ok	0.685	0.625-0.745
Acrylonitrile	6.49	8.76	0.741	ok	0.741	0.681-0.801
Acetonitrile	5.90	8.76	0.674	ok	0.673	0.613-0.733
1,3-Butadiene	5.22	8.76	0.596	ok	0.596	0.536-0.656
Benzene	10.23	10.53	0.972	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.47	8.76	0.624	ok	0.624	0.564-0.684
Bromoethene	5.90	8.76	0.674	ok	0.674	0.614-0.734
n-Butane	5.27	8.76	0.602	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.18	8.76	0.820	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.68	8.76	0.534	ok	0.534	0.474-0.594
Chloroethane	5.61	8.76	0.640	ok	0.640	0.580-0.700
Chloroform	8.88	8.76	1.014	ok	1.013	0.953-1.073
Chloromethane	4.92	8.76	0.562	ok	0.561	0.501-0.621
3-Chloropropene	6.98	8.76	0.797	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.37	8.76	1.184	ok	1.183	1.123-1.243
Cyclohexane	10.48	10.53	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.76	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.79	8.76	0.775	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.56	8.76	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.28	10.53	1.071	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.77	8.76	0.545	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.53	1.044	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.76	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.61	8.76	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	Reporting this level
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.77	8.76	1.001	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.76	1.094	ok	1.093	1.033-1.153
Ethanol	5.73	8.76	0.654	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.76	1.005	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.09	8.76	0.809	ok	0.809	0.749-0.869
Freon 114	5.00	8.76	0.571	ok	0.570	0.510-0.630
Freon 123	6.00	8.76	0.685	ok	0.685	0.625-0.745
Freon 123A	6.05	8.76	0.691	ok	0.691	0.631-0.751
Freon 152A	4.63	8.76	0.529	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.76	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.33	14.88	0.896	ok	0.896	0.836-0.956
Iodomethane	6.74	8.76	0.769	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.33	8.76	0.723	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.88	8.76	0.785	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.22	8.76	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.11	10.53	1.150	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.93	8.76	0.905	ok	0.905	0.845-0.965
Methylmethacrylate	11.40	10.53	1.083	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.53	8.76	0.745	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.71	8.76	0.538	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.76	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	Reporting this level
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.02	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.88	1.174	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.53	1.067	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.84	8.76	0.781	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.29	8.76	1.061	ok	1.062	1.002-1.122
Toluene	13.05	10.53	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.24	8.76	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.76	0.583	ok	0.583	0.523-0.643
Vinyl Acetate	7.97	8.76	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.76	ok	8.76	8.43-9.09	202911	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1043942	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	454183	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.12	8.77	0.698	ok	0.698	0.638-0.758
Acrolein	6.00	8.77	0.684	ok	0.685	0.625-0.745
Acrylonitrile	6.49	8.77	0.740	ok	0.741	0.681-0.801
Acetonitrile	5.90	8.77	0.673	ok	0.673	0.613-0.733
1,3-Butadiene	5.22	8.77	0.595	ok	0.596	0.536-0.656
Benzene	10.23	10.54	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.54	1.062	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.47	8.77	0.624	ok	0.624	0.564-0.684
Bromoethene	5.90	8.77	0.673	ok	0.674	0.614-0.734
n-Butane	5.27	8.77	0.601	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.88	1.270	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.88	1.226	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.18	8.77	0.819	ok	0.819	0.759-0.879
Chlorobenzene	14.93	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.68	8.77	0.534	ok	0.534	0.474-0.594
Chloroethane	5.60	8.77	0.639	ok	0.640	0.580-0.700
Chloroform	8.88	8.77	1.013	ok	1.013	0.953-1.073
Chloromethane	4.92	8.77	0.561	ok	0.561	0.501-0.621
3-Chloropropene	6.98	8.77	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.37	8.77	1.182	ok	1.183	1.123-1.243
Cyclohexane	10.49	10.54	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.77	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.79	8.77	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.75	14.88	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.57	8.77	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.54	1.044	ok	1.045	0.985-1.105
1,4-Dioxane	11.27	10.54	1.069	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.77	8.77	0.544	ok	0.544	0.484-0.604
Dibromochloromethane	13.50	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.54	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.69	8.77	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.61	8.77	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.54	1.144	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.59	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.54	1.194	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.77	8.77	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.69	10.54	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.77	1.092	ok	1.093	1.033-1.153
Ethanol	5.73	8.77	0.653	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.79	8.77	1.002	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.09	8.77	0.808	ok	0.809	0.749-0.869
Freon 114	5.00	8.77	0.570	ok	0.570	0.510-0.630
Freon 123	6.00	8.77	0.684	ok	0.685	0.625-0.745
Freon 123A	6.05	8.77	0.690	ok	0.691	0.631-0.751
Freon 152A	4.64	8.77	0.529	ok	0.529	0.469-0.589
Heptane	11.48	10.54	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.77	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.32	14.88	0.895	ok	0.896	0.836-0.956
Iodomethane	6.74	8.77	0.769	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.33	8.77	0.722	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.88	8.77	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.23	8.77	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.11	10.54	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.93	8.77	0.904	ok	0.905	0.845-0.965
Methylmethacrylate	11.40	10.54	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.53	8.77	0.745	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.71	8.77	0.537	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.80	8.77	1.117	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.54	1.212	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.54	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.84	8.77	0.780	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.29	8.77	1.059	ok	1.062	1.002-1.122
Toluene	13.05	10.54	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.23	10.54	1.065	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.24	8.77	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.11	8.77	0.583	ok	0.583	0.523-0.643
Vinyl Acetate	7.97	8.77	0.909	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.03	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77	ok	8.76	8.43-9.09	204139	ok	212828	127697-297959
1,4-Difluorobenzene	10.54	ok	10.53	10.20-10.86	1068301	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	472723	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.09	8.76	0.695	ok	0.698	0.638-0.758
Acrolein	5.98	8.76	0.683	ok	0.685	0.625-0.745
Acrylonitrile	6.47	8.76	0.739	ok	0.741	0.681-0.801
Acetonitrile	5.88	8.76	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.21	8.76	0.595	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.45	8.76	0.622	ok	0.624	0.564-0.684
Bromoethene	5.89	8.76	0.672	ok	0.674	0.614-0.734
n-Butane	5.26	8.76	0.600	ok	0.602	0.542-0.662
Benzyl Chloride	18.11	14.88	1.217	ok	1.217	1.157-1.277
n-Butylbenzene	18.90	14.88	1.270	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.88	1.226	ok	1.225	1.165-1.285
tert-Butylbenzene	17.94	14.88	1.206	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.76	0.817	ok	0.819	0.759-0.879
Chlorobenzene	14.93	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.66	8.76	0.532	ok	0.534	0.474-0.594
Chloroethane	5.59	8.76	0.638	ok	0.640	0.580-0.700
Chloroform	8.87	8.76	1.013	ok	1.013	0.953-1.073
Chloromethane	4.90	8.76	0.559	ok	0.561	0.501-0.621
3-Chloropropene	6.97	8.76	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.76	1.183	ok	1.183	1.123-1.243
Cyclohexane	10.48	10.53	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.76	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.77	8.76	0.773	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.75	14.88	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.76	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.25	10.53	1.068	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.75	8.76	0.542	ok	0.544	0.484-0.604
Dibromochloromethane	13.50	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.99	10.53	1.044	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.76	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.76	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.59	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.75	8.76	0.999	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.57	8.76	1.092	ok	1.093	1.033-1.153
Ethanol	5.69	8.76	0.650	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.76	1.002	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.76	0.808	ok	0.809	0.749-0.869
Freon 114	4.98	8.76	0.568	ok	0.570	0.510-0.630
Freon 123	5.99	8.76	0.684	ok	0.685	0.625-0.745
Freon 123A	6.04	8.76	0.689	ok	0.691	0.631-0.751
Freon 152A	4.62	8.76	0.527	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.76	8.76	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.72	8.76	0.767	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.29	8.76	0.718	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.86	8.76	0.783	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.21	8.76	0.937	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.91	8.76	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.52	8.76	0.744	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.69	8.76	0.535	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.76	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.24	10.53	1.067	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.80	8.76	0.776	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.76	1.058	ok	1.062	1.002-1.122
Toluene	13.05	10.53	1.239	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.23	8.76	0.711	ok	0.712	0.652-0.772
Vinyl chloride	5.09	8.76	0.581	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.76	0.909	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.03	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.76	ok	8.76	8.43-9.09	212686	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1110669	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	542807	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.09	8.75	0.696	ok	0.698	0.638-0.758
Acrolein	5.98	8.75	0.683	ok	0.685	0.625-0.745
Acrylonitrile	6.47	8.75	0.739	ok	0.741	0.681-0.801
Acetonitrile	5.87	8.75	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.21	8.75	0.595	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.62	14.88	1.050	ok	1.049	0.989-1.109
Bromomethane	5.45	8.75	0.623	ok	0.624	0.564-0.684
Bromoethene	5.88	8.75	0.672	ok	0.674	0.614-0.734
n-Butane	5.26	8.75	0.601	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.24	14.88	1.226	ok	1.225	1.165-1.285
tert-Butylbenzene	17.94	14.88	1.206	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.75	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.66	8.75	0.533	ok	0.534	0.474-0.594
Chloroethane	5.59	8.75	0.639	ok	0.640	0.580-0.700
Chloroform	8.87	8.75	1.014	ok	1.013	0.953-1.073
Chloromethane	4.90	8.75	0.560	ok	0.561	0.501-0.621
3-Chloropropene	6.97	8.75	0.797	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.75	1.184	ok	1.183	1.123-1.243
Cyclohexane	10.47	10.53	0.994	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.75	0.898	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.77	8.75	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.75	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.24	10.53	1.067	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.75	8.75	0.543	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.98	10.53	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.75	0.878	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.75	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.75	8.75	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.67	10.53	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.57	8.75	1.094	ok	1.093	1.033-1.153
Ethanol	5.68	8.75	0.649	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.75	1.003	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.75	0.809	ok	0.809	0.749-0.869
Freon 114	4.98	8.75	0.569	ok	0.570	0.510-0.630
Freon 123	5.99	8.75	0.685	ok	0.685	0.625-0.745
Freon 123A	6.04	8.75	0.690	ok	0.691	0.631-0.751
Freon 152A	4.61	8.75	0.527	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.02	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.76	8.75	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.72	8.75	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.67	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.29	8.75	0.719	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.86	8.75	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.21	8.75	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.90	8.75	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.64	14.88	1.387	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.52	8.75	0.745	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.69	8.75	0.536	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.78	8.75	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.03	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.51	14.88	1.378	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.23	10.53	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.80	8.75	0.777	ok	0.783	0.723-0.843
Tetrachloroethylene	14.21	14.88	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.75	1.059	ok	1.062	1.002-1.122
Toluene	13.04	10.53	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.23	8.75	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.09	8.75	0.582	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.75	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.51	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	213113	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1101949	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	524440	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.09	8.75	0.696	ok	0.698	0.638-0.758
Acrolein	5.98	8.75	0.683	ok	0.685	0.625-0.745
Acrylonitrile	6.47	8.75	0.739	ok	0.741	0.681-0.801
Acetonitrile	5.87	8.75	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.21	8.75	0.595	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.44	8.75	0.622	ok	0.624	0.564-0.684
Bromoethene	5.88	8.75	0.672	ok	0.674	0.614-0.734
n-Butane	5.25	8.75	0.600	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.16	8.75	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.66	8.75	0.533	ok	0.534	0.474-0.594
Chloroethane	5.58	8.75	0.638	ok	0.640	0.580-0.700
Chloroform	8.86	8.75	1.013	ok	1.013	0.953-1.073
Chloromethane	4.90	8.75	0.560	ok	0.561	0.501-0.621
3-Chloropropene	6.96	8.75	0.795	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.75	1.184	ok	1.183	1.123-1.243
Cyclohexane	10.47	10.53	0.994	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.85	8.75	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.77	8.75	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.75	1.091	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.24	10.53	1.067	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.75	8.75	0.543	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.98	10.53	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.67	8.75	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.75	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.20	14.88	1.223	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.75	8.75	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.67	10.53	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.57	8.75	1.094	ok	1.093	1.033-1.153
Ethanol	5.69	8.75	0.650	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.75	1.003	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.07	8.75	0.808	ok	0.809	0.749-0.869
Freon 114	4.98	8.75	0.569	ok	0.570	0.510-0.630
Freon 123	5.99	8.75	0.685	ok	0.685	0.625-0.745
Freon 123A	6.03	8.75	0.689	ok	0.691	0.631-0.751
Freon 152A	4.61	8.75	0.527	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.76	8.75	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.72	8.75	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.29	8.75	0.719	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.86	8.75	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.21	8.75	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.90	8.75	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.51	8.75	0.744	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.69	8.75	0.536	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.78	8.75	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	Reporting this level
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.02	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.53	14.88	1.380	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.48	14.88	1.175	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.23	10.53	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.80	8.75	0.777	ok	0.783	0.723-0.843
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.75	1.059	ok	1.062	1.002-1.122
Toluene	13.04	10.53	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.22	8.75	0.711	ok	0.712	0.652-0.772
Vinyl chloride	5.09	8.75	0.582	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.75	0.910	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.76	8.43-9.09	202608	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1056604	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	491086	ok	481215	288729-673701

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.10	8.76	0.696	ok	0.698	0.638-0.758
Acrolein	5.99	8.76	0.684	ok	0.685	0.625-0.745
Acrylonitrile	6.48	8.76	0.740	ok	0.741	0.681-0.801
Acetonitrile	5.88	8.76	0.671	ok	0.673	0.613-0.733
1,3-Butadiene	5.22	8.76	0.596	ok	0.596	0.536-0.656
Benzene	10.22	10.53	0.971	ok	0.971	0.911-1.031
Bromobenzene	16.78	14.88	1.128	ok	1.128	1.068-1.188
Bromodichloromethane	11.19	10.53	1.063	ok	1.062	1.002-1.122
Bromoform	15.61	14.88	1.049	ok	1.049	0.989-1.109
Bromomethane	5.46	8.76	0.623	ok	0.624	0.564-0.684
Bromoethene	5.90	8.76	0.674	ok	0.674	0.614-0.734
n-Butane	5.26	8.76	0.600	ok	0.602	0.542-0.662
Benzyl Chloride	18.10	14.88	1.216	ok	1.217	1.157-1.277
n-Butylbenzene	18.89	14.88	1.269	ok	1.270	1.210-1.330
sec-Butylbenzene	18.23	14.88	1.225	ok	1.225	1.165-1.285
tert-Butylbenzene	17.93	14.88	1.205	ok	1.205	1.145-1.265
Carbon disulfide	7.17	8.76	0.818	ok	0.819	0.759-0.879
Chlorobenzene	14.92	14.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.67	8.76	0.533	ok	0.534	0.474-0.594
Chloroethane	5.60	8.76	0.639	ok	0.640	0.580-0.700
Chloroform	8.87	8.76	1.013	ok	1.013	0.953-1.073
Chloromethane	4.91	8.76	0.561	ok	0.561	0.501-0.621
3-Chloropropene	6.97	8.76	0.796	ok	0.796	0.736-0.856
2-Chlorotoluene	17.20	14.88	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.36	8.76	1.183	ok	1.183	1.123-1.243
Cyclohexane	10.48	10.53	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.86	8.76	0.897	ok	0.898	0.838-0.958
1,1-Dichloroethylene	6.78	8.76	0.774	ok	0.774	0.714-0.834
1,2-Dibromoethane	13.74	14.88	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.55	8.76	1.090	ok	1.091	1.031-1.151
1,2-Dichloropropane	11.00	10.53	1.045	ok	1.045	0.985-1.105
1,4-Dioxane	11.25	10.53	1.068	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.77	8.76	0.545	ok	0.544	0.484-0.604
Dibromochloromethane	13.49	14.88	0.907	ok	0.907	0.847-0.967
Dibromomethane	10.98	10.53	1.043	ok	1.043	0.983-1.103
trans-1,2-Dichloroethylene	7.68	8.76	0.877	ok	0.877	0.817-0.937
cis-1,2-Dichloroethylene	8.60	8.76	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	12.06	10.53	1.145	ok	1.145	1.085-1.205

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	18.12	14.88	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.58	14.88	1.249	ok	1.249	1.189-1.309
p-Dichlorobenzene	18.19	14.88	1.222	ok	1.223	1.163-1.283
trans-1,3-Dichloropropene	12.58	10.53	1.195	ok	1.194	1.134-1.254
Di-Isopropyl ether	8.76	8.76	1.000	ok	1.001	0.941-1.061
2,3-Dimethylpentane	10.68	10.53	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.58	8.76	1.094	ok	1.093	1.033-1.153
Ethanol	5.70	8.76	0.651	ok	0.654	0.594-0.714
Ethylbenzene	15.31	14.88	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.76	1.002	ok	1.004	0.944-1.064
4-Ethyltoluene	17.39	14.88	1.169	ok	1.169	1.109-1.229
Freon 113	7.08	8.76	0.808	ok	0.809	0.749-0.869
Freon 114	4.99	8.76	0.570	ok	0.570	0.510-0.630
Freon 123	6.00	8.76	0.685	ok	0.685	0.625-0.745
Freon 123A	6.04	8.76	0.689	ok	0.691	0.631-0.751
Freon 152A	4.63	8.76	0.529	ok	0.529	0.469-0.589
Heptane	11.47	10.53	1.089	ok	1.089	1.029-1.149
Hexachlorobutadiene	21.03	14.88	1.413	ok	1.413	1.353-1.473
Hexachloroethane	19.34	14.88	1.300	ok	1.300	1.240-1.360
Hexane	8.77	8.76	1.001	ok	1.001	0.941-1.061
2-Hexanone	13.31	14.88	0.894	ok	0.896	0.836-0.956
Iodomethane	6.73	8.76	0.768	ok	0.769	0.709-0.829
Isopropylbenzene	16.66	14.88	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.30	8.76	0.719	ok	0.723	0.663-0.783
p-Isopropyltoluene	18.42	14.88	1.238	ok	1.238	1.178-1.298
Methylene chloride	6.87	8.76	0.784	ok	0.785	0.725-0.845
Methyl ethyl ketone	8.22	8.76	0.938	ok	0.939	0.879-0.999
Methyl Isobutyl Ketone	12.10	10.53	1.149	ok	1.151	1.091-1.211
Methyl Tert Butyl Ether	7.91	8.76	0.903	ok	0.905	0.845-0.965
Methylmethacrylate	11.39	10.53	1.082	ok	1.082	1.022-1.142
Naphthalene	20.65	14.88	1.388	ok	1.388	1.328-1.448
Nonane	16.23	14.88	1.091	ok	1.091	1.031-1.151
Octane	14.02	14.88	0.942	ok	0.942	0.882-1.002
Pentane	6.52	8.76	0.744	ok	0.745	0.685-0.805
n-Propylbenzene	17.23	14.88	1.158	ok	1.158	1.098-1.218
Propylene	4.70	8.76	0.537	ok	0.538	0.478-0.598
Styrene	15.91	14.88	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.76	1.118	ok	1.117	1.057-1.177

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1765-IC1765	W44075.D	10/14/13 19:02	DFT	0.04	GCMSW	TO-15	
VW1765-IC1765	W44076.D	10/14/13 19:42	DFT	0.1	GCMSW	TO-15	
VW1765-IC1765	W44077.D	10/15/13 08:51	DFT	0.2	GCMSW	TO-15	
VW1765-IC1765	W44078.D	10/15/13 09:30	DFT	0.5	GCMSW	TO-15	
VW1765-IC1765	W44079.D	10/15/13 10:10	DFT	5	GCMSW	TO-15	
VW1765-ICC1765	W44080.D	10/15/13 10:50	DFT	10	GCMSW	TO-15	
VW1765-IC1765	W44084.D	10/15/13 13:28	DFT	40	GCMSW	TO-15	
VW1765-IC1765	W44086.D	10/15/13 14:48	DFT	30	GCMSW	TO-15	
VW1765-IC1765	W44087.D	10/15/13 15:27	DFT	20	GCMSW	TO-15	
VW1765-IC1765	W44088.D	10/15/13 16:15	DFT	15	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	14.91	14.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.02	14.88	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.77	10.53	1.213	ok	1.212	1.152-1.272
1,2,4-Trichlorobenzene	20.52	14.88	1.379	ok	1.379	1.319-1.439
1,2,3-Trichloropropane	16.17	14.88	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.94	14.88	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.47	14.88	1.174	ok	1.174	1.114-1.234
2,2,4-Trimethylpentane	11.23	10.53	1.066	ok	1.067	1.007-1.127
Tertiary Butyl Alcohol	6.81	8.76	0.777	ok	0.783	0.723-0.843
Tetrachloroethylene	14.20	14.88	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.28	8.76	1.059	ok	1.062	1.002-1.122
Toluene	13.04	10.53	1.238	ok	1.239	1.179-1.299
Trichloroethylene	11.22	10.53	1.066	ok	1.066	1.006-1.126
Trichlorofluoromethane	6.24	8.76	0.712	ok	0.712	0.652-0.772
Vinyl chloride	5.10	8.76	0.582	ok	0.583	0.523-0.643
Vinyl Acetate	7.96	8.76	0.909	ok	0.910	0.850-0.970
m,p-Xylene	15.50	14.88	1.042	ok	1.042	0.982-1.102
o-Xylene	16.02	14.88	1.077	ok	1.077	1.017-1.137

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.76	ok	8.76	8.43-9.09	214023	ok	212828	127697-297959
1,4-Difluorobenzene	10.53	ok	10.53	10.20-10.86	1109984	ok	1090708	654425-1526991
Chlorobenzene-D5	14.88	ok	14.88	14.55-15.21	497356	ok	481215	288729-673701

Volatile Surrogate Recovery Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JB50673-1	W44215.D	100.0
JB50673-1	W44212.D	100.0
JB50673-2	W44216.D	101.0
JB50673-2	W44213.D	95.0
JB50673-2DUP	W44214.D	96.0
V3W1397-SCC	3W36346.D	85.0
VW1770-BS	W44202.D	106.0
VW1770-BSD	W44204.D	106.0
VW1770-MB	W44206.D	98.0
V3W1397-BS	3W36334.D	98.0
V3W1397-BSD	3W36335.D	95.0
V3W1397-MB	3W36337.D	84.0
VW1770-MB2	W44183.D	83.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: V3W1350-ICC1350
Lab FileID: 3W35039.D

Response Factor Report MS3W

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration

Calibration Files
0.04=3W35049.D 0.1 =3W35048.D 0.2 =3W35042.D 0.5 =3W35047.D
5 =3W35040.D 10 =3W35039.D 20 =3W35044.D 40 =3W35050.D
15 =3W35045.D 30 =3W35043.D = =

Compound

	0.04	0.1	0.2	0.5	5	10	20	40	15	30	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115											0.000	-1.00
3) FREON 152A	0.903	0.897	0.979	0.920	0.941	0.908	0.850	0.942	0.896		0.915	3.99
4) CHLORODIFLUOROMETHANE		0.316	0.370	0.336	0.345	0.328	0.319	0.334	0.332		0.335	4.99
5) DICHLORODIFLUOROMETHANE	3.832	3.882	3.906	3.559	3.569	3.371	3.303	3.496	3.336		3.584	6.61
6) PROPYLENE		1.284	1.236	1.166	1.152	1.094	0.972	1.155	1.035		1.137	8.93
7) FREON 114	3.604	4.052	4.075	4.197	3.717	3.839	3.602	3.464	3.676	3.642	3.787	6.43
8) CHLOROMETHANE		1.851	1.725	1.599	1.681	1.570	1.452	1.620	1.594		1.637	7.23
9) VINYL CHLORIDE	1.621	1.577	1.649	1.759	1.619	1.661	1.552	1.465	1.607	1.596	1.611	4.73
10) 1,3-BUTADIENE		1.156	1.179	1.162	1.207	1.157	1.092	1.173	1.161		1.161	2.81
11) n-BUTANE		2.592	2.535	2.260	2.270	2.220	2.008	2.307	2.092		2.286	8.69
12) BROMOMETHANE	1.523	1.506	1.622	1.500	1.542	1.471	1.464	1.491	1.502		1.513	3.10
13) CHLOROETHANE	0.790	0.782	0.865	0.816	0.887	0.841	0.797	0.847	0.831		0.828	4.29
14) DICHLOROFLUOROMETHANE	2.982	3.000	3.176	3.293	3.132	3.309	3.172	3.004	3.256	3.095	3.142	3.87
15) ACETONITRILE		0.593	0.725	0.840	0.950	1.016	0.937	1.027	0.973		0.883	17.39
16) FREON 123	3.626	3.459	3.440	3.597	3.460	3.626	3.466	3.255	3.542	3.371	3.484	3.38
17) FREON 123A	1.986	2.187	2.051	2.126	1.995	2.116	2.072	2.029	2.060	2.063	2.069	2.96
18) TRICHLOROFLUOROMETHANE	3.631	3.529	3.608	3.731	3.439	3.523	3.381	3.309	3.432	3.378	3.496	3.78
19) ISOPROPYL ALCOHOL		1.829	2.007	2.013	2.216	2.446	2.274	2.419	2.372		2.197	10.23
20) ACETONE		0.430	0.556	0.563	0.623	0.660	0.626	0.657	0.655		0.596	13.19
21) PENTANE	1.626	1.593	1.608	1.419	1.470	1.428	1.329	1.468	1.362		1.478	7.33
22) TVHC as EQUIV PENTANE											0.000	-1.00
23) IODOMETHANE												

Initial Calibration Summary

Job Number: JB50673 **Sample:** V3W1350-ICC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35039.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
      3.788 3.881 3.915 4.156 3.937 4.126 3.976 3.982 4.021 4.032  3.981    2.77
24)  1,1-DICHLOROETHYLENE
      1.418 1.385 1.277 1.504 1.420 1.479 1.432 1.408 1.441 1.460  1.422    4.35
25)  CARBON DISULFIDE
      3.944 4.309 4.180 4.220 3.975 4.034 3.855 3.628 3.956 3.888  3.999    4.97
26)  ETHANOL
                  0.405 0.492 0.498 0.551 0.630 0.585 0.634 0.608  0.550   14.59
27)  BROMOETHENE
      1.464 1.628 1.471 1.648 1.532 1.603 1.531 1.535 1.540 1.584  1.554    3.95
28)  ACRYLONITRILE
                  0.357 0.542 0.695 0.809 0.895 0.845 0.885 0.862  0.736   26.36
29)  METHYLENE CHLORIDE
                  1.995 1.690 1.237 1.291 1.237 1.205 1.257 1.262  1.397   20.61
30)  3-CHLOROPROPENE
            0.576 0.517 0.611 0.618 0.674 0.660 0.644 0.671 0.659  0.626    8.31
31)  FREON 113
      2.018 2.492 2.387 2.573 2.428 2.538 2.442 2.431 2.453 2.494  2.425    6.33
32)  TRANS-1,2-DICHLOROETHYLENE
      1.134 1.198 1.130 1.333 1.405 1.510 1.449 1.452 1.443 1.502  1.356   10.96
33)  TERTIARY BUTYL ALCOHOL
                  2.250 2.591 2.550 2.927 2.953 2.787 2.975 2.971  2.750    9.61
34)  METHYL TERTIARY BUTYL ETHER
      3.036 2.849 3.052 3.198 3.451 3.819 3.927 3.739 3.968 3.879  3.492   12.22
35)  TETRAHYDROFURAN
                  0.323 0.439 0.600 0.677 0.713 0.700 0.710 0.732  0.612   24.73
36)  HEXANE
      1.829 1.952 1.989 2.064 2.158 2.314 2.137 1.981 2.194 2.164  2.078    6.84
37)  VINYL ACETATE
                  0.080 0.215 0.281 0.316 0.328 0.334 0.320 0.348  0.278   32.52
38)  1,1-DICHLOROETHANE
      2.287 2.524 2.543 2.724 2.624 2.815 2.623 2.476 2.711 2.627  2.595    5.72
39)  METHYL ETHYL KETONE
                  0.334 0.429 0.558 0.657 0.736 0.728 0.728 0.745  0.614   25.81
40)  cis-1,2-DICHLOROETHYLENE
      1.484 1.229 1.295 1.418 1.496 1.632 1.573 1.565 1.558 1.621  1.487    9.13
41)  DIISOPROPYL ETHER
                  3.851 4.056 4.477 4.894 5.072 4.568 5.168 4.799  4.610   10.19
42)  ETHYL ACETATE
                  0.264 0.365 0.412 0.464 0.503 0.479 0.496 0.505  0.436   19.54
43)  METHYL ACRYLATE
                  1.189 1.443 1.936 2.244 2.466 2.356 2.433 2.413  2.060   23.94
44)  CHLOROFORM
      2.512 2.729 2.657 2.893 2.761 3.005 2.915 2.880 2.947 2.962  2.826    5.55
45)  2,4-DIMETHYLPENTANE
            2.546 2.615 2.738 2.743 2.901 2.882 2.687 2.979 2.755  2.761    5.06
46)  1,1,1-TRICHLOROETHANE
      2.669 2.755 2.772 2.922 2.848 3.014 2.925 2.901 2.981 2.929  2.872    3.79
47)  CARBON TETRACHLORIDE
      2.725 3.162 2.930 3.048 2.890 3.067 2.961 2.955 2.992 2.993  2.972    3.91
48)  1,2-DICHLOROETHANE
      1.170 1.309 1.313 1.511 1.521 1.701 1.699 1.708 1.697 1.739  1.537   13.48

49) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
50)  BENZENE
      1.281 1.048 1.002 0.990 0.975 1.038 0.978 0.955 0.991 1.001  1.026    9.16
51)  CYCLOHEXANE
      0.541 0.562 0.554 0.556 0.525 0.549 0.513 0.502 0.520 0.522  0.535    3.87
52)  2,3-DIMETHYLPENTANE
                  0.294 0.246 0.224 0.233 0.227 0.221 0.228 0.225  0.237   10.15
53)  TRICHLOROETHYLENE
```

Initial Calibration Summary

Job Number: JB50673 **Sample:** V3W1350-ICC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35039.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
      0.432 0.411 0.407 0.412 0.379 0.412 0.382 0.386 0.382 0.410  0.401    4.40
54)  1,2-DICHLOROPROPANE
            0.359 0.453 0.353 0.350 0.377 0.369 0.350 0.371 0.371  0.372    8.53
55)  DIBROMOMETHANE
      0.440 0.374 0.374 0.396 0.381 0.418 0.398 0.423 0.397 0.426  0.403    5.70
56)  ETHYL ACRYLATE
                  0.441 0.502 0.509 0.592 0.662 0.643 0.667 0.663  0.585   15.25
57)  BROMODICHLOROMETHANE
      0.658 0.632 0.641 0.677 0.656 0.702 0.656 0.646 0.667 0.677  0.661    3.08
58)  2,2,4-TRIMETHYLPENTANE
      1.677 1.594 1.614 1.598 1.592 1.637 1.534 1.398 1.585 1.471  1.570    5.24
59)  1,4-DIOXANE
                  0.132 0.162 0.169 0.200 0.225 0.237 0.218 0.236  0.197   19.69
60)  HEPTANE
      0.567 0.527 0.570 0.609 0.547 0.590 0.563 0.526 0.584 0.554  0.564    4.69
61)  TVHC as EQUIV HEPTANE
                                                                    0.000   -1.00
62)  METHYL METHACRYLATE
                  0.212 0.244 0.280 0.322 0.344 0.344 0.348 0.350  0.305   17.63
63)  METHYL ISOBUTYL KETONE
                  0.093 0.165 0.209 0.245 0.272 0.274 0.264 0.284  0.226   29.69
64)  cis-1,3-DICHLOROPROPENE
      0.348 0.383 0.417 0.421 0.472 0.524 0.507 0.515 0.510 0.534  0.463   14.28
65)  TOLUENE
      0.540 0.548 0.561 0.585 0.646 0.698 0.671 0.683 0.679 0.704  0.631   10.42
66)  trans-1,3-DICHLOROPROPENE
                  0.326 0.339 0.430 0.488 0.476 0.496 0.472 0.521  0.444   16.51
67)  1,1,2-TRICHLOROETHANE
      0.283 0.279 0.277 0.294 0.320 0.348 0.334 0.339 0.337 0.349  0.316    9.39

68) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
69)  2-HEXANONE
                  0.232 0.471 0.551 0.661 0.722 0.681 0.703 0.715  0.592   28.76
70)  ETHYL METHACRYLATE
                  0.534 0.790 0.832 0.967 1.101 1.027 1.089 1.071  0.926   21.24
71)  TETRACHLOROETHYLENE
      0.995 0.943 0.949 1.093 0.896 0.958 0.882 0.849 0.884 0.883  0.933    7.68
72)  DIBROMOCHLOROMETHANE
      1.339 1.280 1.274 1.461 1.307 1.405 1.305 1.263 1.316 1.306  1.326    4.68
73)  1,2-DIBROMOETHANE
      0.805 0.876 0.927 1.050 1.021 1.139 1.057 1.040 1.050 1.101  1.007   10.35
74)  OCTANE
      1.374 1.399 1.424 1.545 1.489 1.569 1.466 1.257 1.528 1.361  1.441    6.73
75)  1,1,1,2-TETRACHLOROETHANE
      1.003 0.926 0.952 0.991 0.952 1.015 0.959 0.911 0.965 0.937  0.961    3.49
76)  CHLOROBENZENE
      1.486 1.557 1.501 1.620 1.543 1.672 1.539 1.464 1.539 1.566  1.549    3.98
77)  ETHYLBENZENE
      2.303 2.280 2.291 2.479 2.546 2.771 2.634 2.461 2.664 2.565  2.499    6.77
78)  m,p-XYLENE
      0.812 0.841 0.881 0.897 0.986 1.064 0.997 0.944 1.008 1.009  0.944    8.75
79)  o-XYLENE
      0.706 0.757 0.817 0.931 0.969 1.028 0.991 0.954 0.997 1.001  0.915   12.38
80)  STYRENE
                  1.015 1.078 1.418 1.606 1.449 1.433 1.444 1.582  1.378   15.74
81)  NONANE
      0.886 1.158 1.197 1.190 1.452 1.536 1.420 1.211 1.488 1.326  1.286   15.32
82)  BROMOFORM
      1.019 1.169 1.104 1.255 1.227 1.354 1.267 1.264 1.267 1.312  1.224    8.19
83)  4-BROMOFLUOROBENZENE
```

Initial Calibration Summary

Job Number: JB50673 **Sample:** V3W1350-ICC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35039.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
      1.040 1.039 1.085 1.070 1.199 1.196 1.156 1.131 1.177 1.145  1.124    5.46
 84)  1,1,2,2-TETRACHLOROETHANE
      1.101 1.275 1.326 1.301 1.377 1.495 1.396 1.330 1.418 1.423  1.344    8.01
 85)  1,2,3-TRICHLOROPROPANE
      0.844 0.884 0.877 0.942 0.967 1.067 1.051 0.977 1.059 1.030  0.970    8.43
 86)  ISOPROPYLBENZENE
      2.424 2.675 2.524 2.538 2.772 2.976 2.819 2.658 2.860 2.795  2.704    6.36
 87)  BROMOBENZENE
      1.262 0.998 1.004 1.189 1.134 1.261 1.223 1.179 1.220 1.216  1.168    8.23
 88)  2-CHLOROTOLUENE
      0.582 0.515 0.549 0.629 0.649 0.711 0.684 0.673 0.681 0.696  0.637   10.49
 89)  n-PROPYLBENZENE
      0.436 0.501 0.494 0.607 0.680 0.744 0.736 0.720 0.731 0.742  0.639   18.81
 90)  4-ETHYLTOLUENE
                  1.709 1.776 2.232 2.531 2.477 2.385 2.481 2.495  2.261   14.76
 91)  1,3,5-TRIMETHYLBENZENE
      1.641 1.550 1.862 1.741 2.050 2.234 2.078 1.975 2.086 2.105  1.932   11.63
 92)  ALPHA-METHYLSTYRENE
                  0.530 0.657 0.882 1.031 1.016 1.019 0.997 1.054  0.898   22.03
 93)  tert-BUTYLBENZENE
                  0.397 0.426 0.461 0.512 0.501 0.494 0.499 0.506  0.475    8.94
 94)  1,2,4-TRIMETHYLBENZENE
      1.135 1.332 1.455 1.491 1.783 1.986 1.925 1.836 1.920 1.917  1.678   17.85
 95)  m-DICHLOROBENZENE
      0.826 0.959 0.894 0.861 1.068 1.254 1.238 1.259 1.210 1.277  1.085   16.96
 96)  BENZYL CHLORIDE
                  0.996 0.904 1.172 1.424 1.471 1.481 1.429 1.515  1.299   18.53
 97)  p-DICHLOROBENZENE
      0.904 0.949 0.950 0.826 1.071 1.230 1.160 1.202 1.138 1.253  1.068   14.14
 98)  sec-BUTYLBENZENE
                  0.445 0.445 0.536 0.596 0.586 0.591 0.580 0.604  0.548   12.15
 99)  p-ISOPROPYLTOLUENE
                  0.390 0.457 0.554 0.625 0.614 0.609 0.602 0.638  0.561   16.07
100)  o-DICHLOROBENZENE
      0.874 0.872 0.935 0.936 1.024 1.163 1.130 1.142 1.108 1.173  1.036   11.76
101)  n-BUTYLBENZENE
                  0.269 0.307 0.413 0.503 0.505 0.508 0.485 0.528  0.440   22.79
102)  HEXACHLOROETHANE
                  0.838 0.828 0.813 0.891 0.849 0.832 0.843 0.856  0.844    2.77
103)  HEXACHLOROBUTADIENE
      0.362 0.408 0.435 0.454 0.498 0.659 0.626       0.626 0.648  0.524   22.16
104)  1,2,4-TRICHLOROBENZENE
            0.259 0.265 0.291 0.270 0.405 0.453       0.431 0.507  0.360   27.67

105) I   CHLOROBENZENE-D5 (a)  ----------------ISTD---------------------
106)  NAPHTHALENE
                  0.386 0.526 0.446 0.671 0.803       0.752 0.929  0.644   30.93
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3W1350.M         Thu Jul 25 10:30:01 2013   MS3W
```

Initial Calibration Verification

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: V3W1350-ICV1350
Lab FileID: 3W35053.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	100	0.00	7.37
2		FREON 115		----------NA----------				
3		FREON 152A	0.915	0.877	4.2	93	0.00	4.31
4		CHLORODIFLUOROMETHANE	0.335	0.324	3.3	94	-0.01	4.34
5		DICHLORODIFLUOROMETHANE	3.584	3.399	5.2	95	0.00	4.40
6		PROPYLENE	1.137	1.089	4.2	95	0.00	4.36
7		FREON 114	3.787	3.594	5.1	94	0.00	4.55
8		CHLOROMETHANE	1.637	1.537	6.1	92	0.00	4.50
9		VINYL CHLORIDE	1.611	1.531	5.0	92	0.00	4.62
10		1,3-BUTADIENE	1.161	1.105	4.8	92	0.00	4.69
11		n-BUTANE	2.286	2.175	4.9	96	0.00	4.71
12		BROMOMETHANE	1.513	1.432	5.4	93	0.00	4.86
13		CHLOROETHANE	0.828	0.797	3.7	90	0.00	4.94
14		DICHLOROFLUOROMETHANE	3.142	3.065	2.5	93	0.00	4.99
15		ACETONITRILE	0.883	0.831	5.9	88	0.00	5.18
16		FREON 123	3.484	3.357	3.6	93	0.00	5.21
17		FREON 123A	2.069	1.966	5.0	93	0.00	5.25
18		TRICHLOROFLUOROMETHANE	3.496	3.303	5.5	94	0.00	5.38
19		ISOPROPYL ALCOHOL	2.197	2.026	7.8	92	0.00	5.46
20		ACETONE	0.596	0.572	4.0	92	0.00	5.29
21		PENTANE	1.478	1.373	7.1	94	0.00	5.55
22	H	TVHC as EQUIV PENTANE		----------NA----------				
23		IODOMETHANE	3.981	3.864	2.9	94	0.00	5.73
24		1,1-DICHLOROETHYLENE	1.422	1.381	2.9	94	0.00	5.77
25		CARBON DISULFIDE	3.999	3.693	7.7	92	0.00	6.04
26		ETHANOL	0.550	0.489	11.1	89	0.00	5.05
27		BROMOETHENE	1.554	1.482	4.6	93	0.00	5.15
28		ACRYLONITRILE	0.736	0.740	-0.5	92	0.00	5.59
29		METHYLENE CHLORIDE	1.397	1.228	12.1	95	0.00	5.85
30		3-CHLOROPROPENE	0.626	0.624	0.3	93	0.00	5.91
31		FREON 113	2.425	2.381	1.8	94	0.00	5.99
32		TRANS-1,2-DICHLOROETHYLEN	1.356	1.346	0.7	89	0.00	6.44
33		TERTIARY BUTYL ALCOHOL	2.750	2.598	5.5	89	0.01	5.82
34		METHYL TERTIARY BUTYL ETH	3.492	3.510	-0.5	92	0.00	6.61
35		TETRAHYDROFURAN	0.612	0.614	-0.3	91	0.00	7.78
36		HEXANE	2.078	2.042	1.7	88	0.00	7.30
37		VINYL ACETATE	0.278	0.277	0.4	88	0.00	6.70
38		1,1-DICHLOROETHANE	2.595	2.502	3.6	89	0.00	6.60
39		METHYL ETHYL KETONE	0.614	0.612	0.3	93	0.00	6.88
40		cis-1,2-DICHLOROETHYLENE	1.487	1.451	2.4	89	0.00	7.25
41		DIISOPROPYL ETHER	4.610	4.525	1.8	93	0.00	7.31
42		ETHYL ACETATE	0.436	0.420	3.7	91	0.00	7.38

Initial Calibration Verification

Job Number: JB50673 **Sample:** V3W1350-ICV1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35053.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		METHYL ACRYLATE	2.060	2.062	-0.1	92	0.00	7.39
44		CHLOROFORM	2.826	2.727	3.5	91	0.00	7.45
45		2,4-DIMETHYLPENTANE	2.761	2.690	2.6	93	0.00	7.99
46		1,1,1-TRICHLOROETHANE	2.872	2.766	3.7	92	0.00	8.24
47		CARBON TETRACHLORIDE	2.972	2.832	4.7	93	0.00	8.77
48		1,2-DICHLOROETHANE	1.537	1.517	1.3	89	0.00	8.04
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00	8.96
50		BENZENE	1.026	0.927	9.6	90	0.00	8.65
51		CYCLOHEXANE	0.535	0.498	6.9	91	0.00	8.81
52		2,3-DIMETHYLPENTANE	0.237	0.216	8.9	94	0.00	9.00
53		TRICHLOROETHYLENE	0.401	0.357	11.0	87	0.00	9.57
54		1,2-DICHLOROPROPANE	0.372	0.339	8.9	91	0.00	9.33
55		DIBROMOMETHANE	0.403	0.375	6.9	90	0.00	9.36
56		ETHYL ACRYLATE	0.585	0.549	6.2	93	0.01	9.38
57		BROMODICHLOROMETHANE	0.661	0.623	5.7	90	0.00	9.55
58		2,2,4-TRIMETHYLPENTANE	1.570	1.507	4.0	93	0.00	9.50
59		1,4-DIOXANE	0.197	0.184	6.6	93	0.00	9.64
60		HEPTANE	0.564	0.531	5.9	91	0.00	9.75
61	H	TVHC as EQUIV HEPTANE		----------NA----------				
62		METHYL METHACRYLATE	0.305	0.298	2.3	93	0.00	9.78
63		METHYL ISOBUTYL KETONE	0.226	0.214	5.3	88	0.01	10.40
64		cis-1,3-DICHLOROPROPENE	0.463	0.462	0.2	89	0.00	10.39
65		TOLUENE	0.631	0.618	2.1	89	0.00	11.30
66		trans-1,3-DICHLOROPROPENE	0.444	0.415	6.5	86	0.00	10.90
67		1,1,2-TRICHLOROETHANE	0.316	0.304	3.8	88	0.00	11.05
68	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00	13.10
69		2-HEXANONE	0.592	0.577	2.5	88	0.00	11.58
70		ETHYL METHACRYLATE	0.926	0.903	2.5	94	0.00	11.60
71		TETRACHLOROETHYLENE	0.933	0.850	8.9	89	0.00	12.43
72		DIBROMOCHLOROMETHANE	1.326	1.242	6.3	89	0.00	11.74
73		1,2-DIBROMOETHANE	1.007	0.981	2.6	87	0.00	11.95
74		OCTANE	1.441	1.417	1.7	91	0.00	12.22
75		1,1,1,2-TETRACHLOROETHANE	0.961	0.911	5.2	90	0.00	13.13
76		CHLOROBENZENE	1.549	1.453	6.2	88	0.00	13.15
77		ETHYLBENZENE	2.499	2.483	0.6	90	0.00	13.52
78		m,p-XYLENE	0.944	0.928	1.7	88	0.00	13.71
79		o-XYLENE	0.915	0.921	-0.7	90	0.00	14.22
80		STYRENE	1.378	1.300	5.7	82	0.00	14.12
81		NONANE	1.286	1.366	-6.2	90	0.00	14.41
82		BROMOFORM	1.224	1.179	3.7	88	0.00	13.82
83	S	4-BROMOFLUOROBENZENE	1.124	1.183	-5.2	100	0.00	14.74
84		1,1,2,2-TETRACHLOROETHANE	1.344	1.284	4.5	86	0.00	14.24
85		1,2,3-TRICHLOROPROPANE	0.970	0.951	2.0	90	0.00	14.37
86		ISOPROPYLBENZENE	2.704	2.657	1.7	90	0.00	14.86
87		BROMOBENZENE	1.168	1.110	5.0	89	0.00	14.98
88		2-CHLOROTOLUENE	0.637	0.637	0.0	90	0.00	15.42
89		n-PROPYLBENZENE	0.639	0.672	-5.2	91	0.00	15.45
90		4-ETHYLTOLUENE	2.261	2.265	-0.2	90	0.00	15.63
91		1,3,5-TRIMETHYLBENZENE	1.932	1.892	2.1	85	0.00	15.73
92		ALPHA-METHYLSTYRENE	0.898	0.889	1.0	87	0.00	15.94
93		tert-BUTYLBENZENE	0.475	0.460	3.2	90	0.00	16.21
94		1,2,4-TRIMETHYLBENZENE	1.678	1.752	-4.4	89	0.00	16.23
95		m-DICHLOROBENZENE	1.085	1.093	-0.7	88	0.00	16.41
96		BENZYL CHLORIDE	1.299	1.241	4.5	88	0.00	16.42
97		p-DICHLOROBENZENE	1.068	1.033	3.3	85	0.00	16.51
98		sec-BUTYLBENZENE	0.548	0.532	2.9	90	0.00	16.55
99		p-ISOPROPYLTOLUENE	0.561	0.546	2.7	88	0.00	16.74
100		o-DICHLOROBENZENE	1.036	1.001	3.4	87	0.00	16.93

Initial Calibration Verification

Job Number: JB50673 **Sample:** V3W1350-ICV1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W35053.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101		n-BUTYLBENZENE	0.440	0.425	3.4	85	0.00	17.27
102		HEXACHLOROETHANE	0.844	0.765	9.4	86	0.00	17.74
103		HEXACHLOROBUTADIENE	0.524	0.476	9.2	73	0.00	19.57
104		1,2,4-TRICHLOROBENZENE	0.360	0.285	20.8	71	0.00	19.00
105	I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	101	0.00	13.10
106		NAPHTHALENE	0.644	0.458	28.9	69	0.00	19.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W35039.D M3W1350.M Thu Jul 25 10:29:38 2013 MS3W

6.9.2

6

Continuing Calibration Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: V3W1397-CC1350
Lab FileID: 3W36333.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\3W36333.D                    Vial: 2
Acq On    :  7 Oct 2013  10:15 am                     Operator: YOUMINH
Sample    : CC1350-10                                 Inst    : MS3W
Misc      : MS56045,V3W1397,,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title        : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update  : Fri Jul 26 08:54:09 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	-0.07	7.29
2		FREON 115		----------NA----------				
3		FREON 152A	0.915	0.977	-6.8	102	-0.04	4.28
4		CHLORODIFLUOROMETHANE	0.335	0.311	7.2	88	-0.04	4.31
5		DICHLORODIFLUOROMETHANE	3.584	3.374	5.9	93	-0.04	4.36
6		PROPYLENE	1.137	1.381	-21.5	117	-0.04	4.32
7		FREON 114	3.787	3.856	-1.8	98	-0.04	4.50
8		CHLOROMETHANE	1.637	1.839	-12.3	107	-0.04	4.46
9		VINYL CHLORIDE	1.611	1.810	-12.4	107	-0.05	4.58
10		1,3-BUTADIENE	1.161	1.278	-10.1	104	-0.05	4.64
11		n-BUTANE	2.286	2.600	-13.7	112	-0.05	4.67
12		BROMOMETHANE	1.513	1.537	-1.6	98	-0.05	4.81
13		CHLOROETHANE	0.828	0.904	-9.2	100	-0.05	4.89
14		DICHLOROFLUOROMETHANE	3.142	3.331	-6.0	99	-0.05	4.94
15		ACETONITRILE	0.883	1.129	-27.9	116	-0.06	5.11
16		FREON 123	3.484	3.509	-0.7	95	-0.05	5.15
17		FREON 123A	2.069	1.959	5.3	91	-0.05	5.19
18		TRICHLOROFLUOROMETHANE	3.496	3.074	12.1	85	-0.05	5.32
19		ISOPROPYL ALCOHOL	2.197	2.630	-19.7	116	-0.09	5.36
20		ACETONE	0.596	0.771	-29.4	121	-0.06	5.23
21		PENTANE	1.478	1.652	-11.8	110	-0.05	5.49
22	H	TVHC as EQUIV PENTANE		----------NA----------				
23		IODOMETHANE	3.981	3.882	2.5	92	-0.06	5.66
24		1,1-DICHLOROETHYLENE	1.422	1.448	-1.8	96	-0.06	5.71
25		CARBON DISULFIDE	3.999	4.367	-9.2	106	-0.06	5.98
26		ETHANOL	0.550	0.612	-11.3	109	-0.09	4.96
27		BROMOETHENE	1.554	1.510	2.8	92	-0.05	5.09
28		ACRYLONITRILE	0.736	0.899	-22.1	109	-0.07	5.52
29		METHYLENE CHLORIDE	1.397	1.329	4.9	101	-0.06	5.79
30		3-CHLOROPROPENE	0.626	0.675	-7.8	98	-0.07	5.85
31		FREON 113	2.425	2.347	3.2	91	-0.07	5.93
32		TRANS-1,2-DICHLOROETHYLEN	1.356	1.415	-4.4	92	-0.07	6.38
33		TERTIARY BUTYL ALCOHOL	2.750	3.037	-10.4	102	-0.09	5.71
34		METHYL TERTIARY BUTYL ETH	3.492	3.594	-2.9	92	-0.08	6.53
35		TETRAHYDROFURAN	0.612	0.707	-15.5	102	-0.09	7.68
36		HEXANE	2.078	2.270	-9.2	96	-0.07	7.22
37		VINYL ACETATE	0.278	0.305	-9.7	94	-0.07	6.62
38		1,1-DICHLOROETHANE	2.595	2.573	0.8	90	-0.07	6.53
39		METHYL ETHYL KETONE	0.614	0.699	-13.8	104	-0.09	6.80
40		cis-1,2-DICHLOROETHYLENE	1.487	1.430	3.8	86	-0.08	7.17
41		DIISOPROPYL ETHER	4.610	5.102	-10.7	102	-0.08	7.23
42		ETHYL ACETATE	0.436	0.506	-16.1	107	-0.09	7.29

Continuing Calibration Summary

Job Number: JB50673 **Sample:** V3W1397-CC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W36333.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		METHYL ACRYLATE	2.060	2.260	-9.7	99	-0.08	7.31
44		CHLOROFORM	2.826	2.591	8.3	84	-0.07	7.37
45		2,4-DIMETHYLPENTANE	2.761	2.888	-4.6	97	-0.07	7.92
46		1,1,1-TRICHLOROETHANE	2.872	2.491	13.3	81	-0.07	8.16
47		CARBON TETRACHLORIDE	2.972	2.525	15.0	81	-0.07	8.70
48		1,2-DICHLOROETHANE	1.537	1.372	10.7	79	-0.08	7.96
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	-0.08	8.88
50		BENZENE	1.026	0.928	9.6	89	-0.08	8.57
51		CYCLOHEXANE	0.535	0.489	8.6	89	-0.07	8.74
52		2,3-DIMETHYLPENTANE	0.237	0.227	4.2	97	-0.07	8.92
53		TRICHLOROETHYLENE	0.401	0.350	12.7	85	-0.07	9.49
54		1,2-DICHLOROPROPANE	0.372	0.367	1.3	97	-0.08	9.25
55		DIBROMOMETHANE	0.403	0.357	11.4	85	-0.08	9.28
56		ETHYL ACRYLATE	0.585	0.610	-4.3	103	-0.09	9.28
57		BROMODICHLOROMETHANE	0.661	0.566	14.4	81	-0.08	9.47
58		2,2,4-TRIMETHYLPENTANE	1.570	1.636	-4.2	100	-0.07	9.42
59		1,4-DIOXANE	0.197	0.175	11.2	87	-0.10	9.53
60		HEPTANE	0.564	0.580	-2.8	98	-0.07	9.68
61	H	TVHC as EQUIV HEPTANE		----------NA----------				
62		METHYL METHACRYLATE	0.305	0.311	-2.0	97	-0.08	9.69
63		METHYL ISOBUTYL KETONE	0.226	0.247	-9.3	101	-0.09	10.29
64		cis-1,3-DICHLOROPROPENE	0.463	0.488	-5.4	93	-0.07	10.31
65		TOLUENE	0.631	0.582	7.8	83	-0.08	11.22
66		trans-1,3-DICHLOROPROPENE	0.444	0.377	15.1	77	-0.07	10.82
67		1,1,2-TRICHLOROETHANE	0.316	0.295	6.6	85	-0.07	10.97
68	I	CHLOROBENZENE-D5	1.000	1.000	0.0	89	-0.07	13.03
69		2-HEXANONE	0.592	0.766	-29.4	103	-0.10	11.48
70		ETHYL METHACRYLATE	0.926	1.149	-24.1	106	-0.09	11.52
71		TETRACHLOROETHYLENE	0.933	0.879	5.8	82	-0.07	12.36
72		DIBROMOCHLOROMETHANE	1.326	1.310	1.2	83	-0.08	11.66
73		1,2-DIBROMOETHANE	1.007	1.032	-2.5	81	-0.07	11.87
74		OCTANE	1.441	1.770	-22.8	100	-0.07	12.16
75		1,1,1,2-TETRACHLOROETHANE	0.961	0.945	1.7	83	-0.07	13.05
76		CHLOROBENZENE	1.549	1.537	0.8	82	-0.07	13.07
77		ETHYLBENZENE	2.499	2.511	-0.5	81	-0.07	13.45
78		m,p-XYLENE	0.944	0.933	1.2	78	-0.07	13.63
79		o-XYLENE	0.915	0.939	-2.6	81	-0.07	14.14
80		STYRENE	1.378	1.223	11.2	68	-0.07	14.04
81		NONANE	1.286	1.640	-27.5	95	-0.06	14.35
82		BROMOFORM	1.224	1.080	11.8	71	-0.08	13.73
83	S	4-BROMOFLUOROBENZENE	1.124	1.075	4.4	80	-0.07	14.66
84		1,1,2,2-TETRACHLOROETHANE	1.344	1.328	1.2	79	-0.07	14.16
85		1,2,3-TRICHLOROPROPANE	0.970	0.989	-2.0	82	-0.08	14.29
86		ISOPROPYLBENZENE	2.704	2.590	4.2	77	-0.07	14.79
87		BROMOBENZENE	1.168	1.113	4.7	78	-0.07	14.90
88		2-CHLOROTOLUENE	0.637	0.611	4.1	76	-0.07	15.34
89		n-PROPYLBENZENE	0.639	0.653	-2.2	78	-0.07	15.38
90		4-ETHYLTOLUENE	2.261	1.858	17.8	65	-0.07	15.55
91		1,3,5-TRIMETHYLBENZENE	1.932	1.792	7.2	71	-0.07	15.65
92		ALPHA-METHYLSTYRENE	0.898	0.779	13.3	67	-0.07	15.87
93		tert-BUTYLBENZENE	0.475	0.437	8.0	76	-0.07	16.14
94		1,2,4-TRIMETHYLBENZENE	1.678	1.586	5.5	71	-0.07	16.15
95		m-DICHLOROBENZENE	1.085	0.957	11.8	68	-0.07	16.34
96		BENZYL CHLORIDE	1.299	1.119	13.9	70	-0.07	16.35
97		p-DICHLOROBENZENE	1.068	0.913	14.5	66	-0.07	16.43
98		sec-BUTYLBENZENE	0.548	0.478	12.8	71	-0.07	16.48
99		p-ISOPROPYLTOLUENE	0.561	0.483	13.9	69	-0.07	16.68
100		o-DICHLOROBENZENE	1.036	0.866	16.4	66	-0.07	16.86

Continuing Calibration Summary

Job Number: JB50673 **Sample:** V3W1397-CC1350
Account: CARICH C. A. Rich Consultants **Lab FileID:** 3W36333.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101		n-BUTYLBENZENE	0.440	0.376	14.5	66	-0.06	17.20
102		HEXACHLOROETHANE	0.844	0.821	2.7	82	-0.06	17.68
103		HEXACHLOROBUTADIENE	0.524	0.526	-0.4	71	-0.05	19.51
104		1,2,4-TRICHLOROBENZENE	0.360	0.309	14.2	68	-0.06	18.94
105	I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	91	-0.07	13.03
106		NAPHTHALENE	0.644	0.526	18.3	71	-0.05	19.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W35039.D M3W1350.M Tue Oct 08 10:24:54 2013 MS3W

6.9.3

6

Initial Calibration Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1765-ICC1765
Lab FileID: W44080.D

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

Calibration Files
0.04=W44075.D 0.1 =W44076.D 0.2 =W44077.D 0.5 =W44078.D
5 =W44079.D 10 =W44080.D 20 =W44087.D 40 =W44084.D
15 =W44088.D 30 =W44086.D = =

Compound

	0.04	0.1	0.2	0.5	5	10	20	40	15	30	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) FREON 115											0.000	-1.00
3) FREON 152A	0.950	0.723	0.805	0.738	0.610	0.614	0.691	0.591			0.715	16.79
4) CHLORODIFLUOROMETHANE	0.360	0.310	0.293	0.271	0.244	0.241	0.246	0.233			0.275	15.99
5) DICHLORODIFLUOROMETHANE	3.269	2.873	2.750	3.149	2.839	2.613	2.583	2.639	2.504		2.802	9.33
6) PROPYLENE	1.389	0.964	1.000	0.904	0.824	0.808	0.834	0.791			0.939	20.96
7) FREON 114	3.434	2.990	2.810	3.191	2.933	2.703	2.671	2.746	2.621		2.900	9.28
8) CHLOROMETHANE	0.422	0.344	0.364	0.331	0.301	0.296	0.302	0.289			0.331	13.60
9) VINYL CHLORIDE	1.288	1.223	1.160	1.350	1.240	1.140	1.128	1.147	1.094		1.197	7.03
10) 1,3-BUTADIENE	1.178	1.059	0.904	1.020	0.933	0.856	0.837	0.859	0.823		0.941	12.82
11) n-BUTANE	0.286	0.251	0.284	0.261	0.238	0.235	0.240	0.230			0.253	8.65
12) BROMOMETHANE	1.256	1.111	1.135	1.235	1.131	1.042	1.041	1.048	1.010		1.112	7.88
13) CHLOROETHANE	0.692	0.692	0.655	0.740	0.689	0.631	0.636	0.644	0.616		0.666	5.95
14) DICHLOROFLUOROMETHANE	2.601	2.395	2.731	2.529	2.310	2.288	2.321	2.215			2.424	7.37
15) ACROLEIN	0.698	0.469	0.517	0.488	0.440	0.441	0.454	0.428			0.492	17.92
16) FREON 123	3.102	2.775	2.649	2.956	2.724	2.475	2.489	2.517	2.412		2.678	8.78
17) FREON 123A	2.001	1.749	1.732	1.936	1.779	1.641	1.650	1.654	1.601		1.749	7.89
18) TRICHLOROFLUOROMETHANE	3.101	2.885	2.699	3.149	2.896	2.690	2.671	2.712	2.588		2.821	7.05
19) ISOPROPYL ALCOHOL	1.816	1.828	1.940	1.757	1.771	1.780	1.520	1.313			1.715	11.71
20) ACETONE	1.124	0.751	0.637	0.580	0.527	0.537	0.533	0.520			0.651	31.69
21) ACRYLONITRILE	1.001	0.837	0.990	0.937	0.851	0.855	0.848	0.834			0.894	7.90
22) PENTANE	0.354	0.372	0.355	0.327	0.301	0.297	0.302	0.290			0.325	9.85
23) TVHC as EQUIV PENTANE												

Initial Calibration Summary

Job Number: JB50673 **Sample:** VW1765-ICC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44080.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
                                                                    0.000   -1.00
24)  IODOMETHANE
            3.356 3.125 3.004 3.483 3.228 3.005 3.045 3.032 2.940  3.135    5.85
25)  1,1-DICHLOROETHYLENE
                  1.233 1.195 1.289 1.203 1.109 1.123 1.121 1.090  1.170    6.00
26)  CARBON DISULFIDE
            3.782 3.474 3.456 3.886 3.530 3.279 3.295 3.327 3.203  3.470    6.70
27)  ETHANOL
                  0.565 0.522 0.485 0.449 0.411 0.409 0.353 0.312  0.438   19.33
28)  ACETONITRILE
                  1.104 0.884 0.957 0.897 0.816 0.814 0.818 0.796  0.886   11.71
29)  BROMOETHENE
            1.329 1.160 1.128 1.295 1.204 1.114 1.125 1.138 1.084  1.175    7.19
30)  METHYLENE CHLORIDE
                  2.217 1.498 1.249 1.121 1.130 1.042 1.192 1.036  1.311   30.12
31)  3-CHLOROPROPENE
            0.645 0.485 0.521 0.606 0.567 0.526 0.533 0.520 0.517  0.547    9.19
32)  FREON 113
            2.556 2.256 2.100 2.478 2.272 2.113 2.153 2.136 2.084  2.239    7.67
33)  TRANS-1,2-DICHLOROETHYLENE
                  1.256 1.292 1.374 1.266 1.202 1.217 1.204 1.165  1.247    5.27
34)  TERTIARY BUTYL ALCOHOL
                  1.521 1.443 2.121 1.845 2.133 2.177 1.905 1.635  1.847   15.63
35)  METHYL TERTIARY BUTYL ETHER
            4.063 3.183 3.328 3.664 3.475 3.141 3.252 3.155 3.094  3.373    9.40
36)  TETRAHYDROFURAN
            0.654 0.612 0.586 0.671 0.628 0.556 0.581 0.560 0.547  0.600    7.39
37)  HEXANE
                  2.281 1.974 2.245 2.060 1.923 1.920 1.944 1.877  2.028    7.63
38)  VINYL ACETATE
            0.374 0.269 0.277 0.343 0.328 0.301 0.318 0.308 0.305  0.314   10.30
39)  1,1-DICHLOROETHANE
            2.384 2.179 2.141 2.404 2.213 2.033 2.038 2.049 1.998  2.160    7.00
40)  METHYL ETHYL KETONE
            0.659 0.596 0.601 0.660 0.628 0.566 0.591 0.566 0.561  0.603    6.36
41)  cis-1,2-DICHLOROETHYLENE
                  1.288 1.223 1.400 1.315 1.220 1.245 1.242 1.202  1.267    5.16
42)  DI-ISOPROPYL ETHER
            4.904 4.059 4.189 4.722 4.402 3.891 3.908 3.903 3.783  4.196    9.50
43)  ETHYL ACETATE
            0.378 0.324 0.371 0.439 0.413 0.373 0.381 0.364 0.363  0.379    8.51
44)  METHYL ACRYLATE
            2.448 1.992 1.995 2.466 2.289 2.079 2.114 2.097 2.047  2.170    8.52
45)  CHLOROFORM
            2.940 2.380 2.401 2.645 2.461 2.235 2.250 2.266 2.190  2.419    9.96
46)  2,4-DIMETHYLPENTANE
            2.912 2.420 2.171 2.590 2.439 2.251 2.253 2.255 2.199  2.388   10.00
47)  1,1,1-TRICHLOROETHANE
            3.024 2.175 2.403 2.699 2.513 2.319 2.344 2.355 2.274  2.456   10.58
48)  CARBON TETRACHLORIDE
            2.793 1.968 2.265 2.700 2.582 2.446 2.457 2.452 2.387  2.450    9.87
49)  1,2-DICHLOROETHANE
            1.628 1.410 1.425 1.619 1.507 1.368 1.376 1.380 1.342  1.451    7.50

50) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
51)  BENZENE
            0.911 0.787 0.791 0.851 0.778 0.703 0.713 0.715 0.699  0.772    9.48
52)  CYCLOHEXANE
                  0.382 0.363 0.380 0.353 0.330 0.333 0.336 0.326  0.350    6.47
53)  2,3-DIMETHYLPENTANE
```

Initial Calibration Summary

Job Number: JB50673 **Sample:** VW1765-ICC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44080.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
                    0.191 0.182 0.194 0.180 0.167 0.170 0.169 0.166  0.177    6.24
54)  TRICHLOROETHYLENE
      0.414 0.384 0.331 0.313 0.352 0.320 0.297 0.302 0.300 0.293  0.331   12.33
55)  DIBROMOMETHANE
            0.369 0.328 0.332 0.374 0.345 0.323 0.332 0.328 0.319  0.339    5.85
56)  1,2-DICHLOROPROPANE
            0.344 0.266 0.294 0.317 0.287 0.257 0.261 0.262 0.257  0.283   10.85
57)  ETHYL ACRYLATE
            0.549 0.481 0.440 0.558 0.524 0.484 0.507 0.476 0.479  0.500    7.63
58)  BROMODICHLOROMETHANE
            0.578 0.449 0.475 0.546 0.505 0.466 0.472 0.472 0.461  0.492    8.81
59)  2,2,4-TRIMETHYLPENTANE
            1.346 1.207 1.182 1.375 1.276 1.179 1.183 1.179 1.161  1.232    6.52
60)  1,4-DIOXANE
                    0.082 0.127 0.154 0.151 0.148 0.158 0.116 0.117  0.132   19.87
61)  METHYL METHACRYLATE
                    0.245 0.252 0.296 0.269 0.246 0.258 0.246 0.245  0.257    6.91
62)  HEPTANE
                    0.445 0.425 0.476 0.442 0.405 0.404 0.408 0.401  0.426    6.26
63)  TVHC as EQUIV HEPTANE
                                                                     0.000   -1.00
64)  METHYL ISOBUTYL KETONE
            0.506 0.340 0.406 0.523 0.483 0.466 0.489 0.445 0.453  0.457   12.21
65)  cis-1,3-DICHLOROPROPENE
            0.505 0.367 0.397 0.473 0.434 0.399 0.412 0.403 0.398  0.421   10.19
66)  TOLUENE
            0.585 0.550 0.544 0.606 0.559 0.503 0.515 0.509 0.497  0.541    7.05
67)  trans-1,3-DICHLOROPROPENE
            0.435 0.281 0.316 0.398 0.376 0.351 0.363 0.355 0.351  0.359   12.36
68)  1,1,2-TRICHLOROETHANE
            0.324 0.250 0.248 0.272 0.250 0.226 0.230 0.229 0.222  0.250   12.69

69) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
70)  ETHYL METHACRYLATE
                    0.807 0.872 1.069 0.985 0.903 0.905 0.909 0.864  0.914    8.79
71)  2-HEXANONE
                    0.744 0.737 1.014 0.959 0.919 0.942 0.929 0.869  0.889   11.29
72)  TETRACHLOROETHYLENE
      1.048 1.084 0.885 0.925 0.974 0.882 0.783 0.755 0.822 0.751  0.891   13.19
73)  DIBROMOCHLOROMETHANE
                    0.991 1.151 1.299 1.185 1.058 1.021 1.105 1.021  1.104    9.41
74)  1,2-DIBROMOETHANE
            1.126 0.803 0.948 1.085 0.994 0.886 0.866 0.929 0.859  0.944   11.38
75)  OCTANE
            1.513 1.281 1.349 1.482 1.327 1.156 1.104 1.201 1.115  1.281   11.77
76)  1,1,1,2-TETRACHLOROETHANE
            1.030 0.722 0.876 0.976 0.893 0.783 0.773 0.820 0.760  0.848   12.26
77)  CHLOROBENZENE
            1.848 1.575 1.589 1.727 1.575 1.389 1.371 1.457 1.351  1.542   10.95
78)  ETHYLBENZENE
            2.923 2.530 2.585 2.790 2.543 2.203 2.163 2.303 2.135  2.464   11.43
79)  m,p-XYLENE
            1.094 0.962 0.985 1.103 1.003 0.872 0.859 0.910 0.848  0.960   10.01
80)  o-XYLENE
            1.048 0.913 0.940 1.041 0.958 0.827 0.811 0.860 0.803  0.911   10.26
81)  STYRENE
            1.639 1.358 1.240 1.556 1.447 1.281 1.281 1.325 1.253  1.376   10.32
82)  1,2,3-TRICHLOROPROPANE
            1.137 0.851 0.867 1.023 0.939 0.820 0.812 0.849 0.795  0.899   12.68
83)  NONANE
```

Initial Calibration Summary

Job Number: JB50673 **Sample:** VW1765-ICC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44080.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

```
             1.423 1.119 1.145 1.412 1.278 1.124 1.087 1.155 1.097  1.205   11.03
 84)  BROMOFORM
             1.200 0.818 1.014 1.226 1.144 1.049 1.043 1.092 1.024  1.068   11.32
 85)  4-BROMOFLUOROBENZENE
      1.168 1.185 1.198 1.061 1.217 1.209 1.212 1.169 1.229 1.219  1.187    4.12
 86)  1,1,2,2-TETRACHLOROETHANE
             1.422 1.105 1.075 1.286 1.180 1.025 1.017 1.074 1.000  1.132   12.48
 87)  ISOPROPYLBENZENE
             3.146 2.714 2.748 3.062 2.806 2.445 2.411 2.551 2.376  2.695   10.32
 88)  BROMOBENZENE
             0.897 0.798 0.734 0.908 0.845 0.758 0.761 0.791 0.739  0.803    8.17
 89)  2-CHLOROTOLUENE
             0.760 0.617 0.594 0.722 0.662 0.584 0.581 0.611 0.570  0.633   10.63
 90)  n-PROPYLBENZENE
             0.732 0.671 0.636 0.794 0.735 0.656 0.658 0.687 0.640  0.690    7.68
 91)  4-ETHYLTOLUENE
             2.351 2.125 1.897 2.524 2.375 2.136 2.134 2.203 2.091  2.204    8.43
 92)  1,3,5-TRIMETHYLBENZENE
             2.147 1.937 1.684 2.137 2.002 1.772 1.782 1.868 1.734  1.896    9.03
 93)  ALPHA-METHYLSTYRENE
             0.963 0.839 0.688 1.020 0.979 0.897 0.914 0.926 0.884  0.901   10.70
 94)  TERT-BUTYLBENZENE
             0.572 0.518 0.497 0.569 0.537 0.485 0.485 0.515 0.474  0.517    7.01
 95)  1,2,4-TRIMETHYLBENZENE
             1.893 1.710 1.437 1.985 1.870 1.699 1.716 1.821 1.662  1.755    9.15
 96)  m-DICHLOROBENZENE
             1.041 1.015 0.796 1.171 1.155 1.084 1.127 1.122 1.086  1.066   10.64
 97)  BENZYL CHLORIDE
             1.168 0.812 0.629 1.151 1.165 1.194 1.294 1.230 1.200  1.093   20.18
 98)  p-DICHLOROBENZENE
             1.048 0.983 0.762 1.112 1.067 1.043 1.078 1.080 1.022  1.022   10.19
 99)  SEC-BUTYLBENZENE
             0.656 0.565 0.475 0.643 0.615 0.569 0.570 0.585 0.553  0.581    9.28
100)  p-ISOPROPYLTOLUENE
             0.591 0.581 0.429 0.604 0.587 0.565 0.580 0.579 0.561  0.564    9.26
101)  o-DICHLOROBENZENE
             1.046 0.942 0.720 1.051 1.009 0.964 0.996 0.998 0.972  0.966   10.23
102)  n-BUTYLBENZENE
             0.460 0.398 0.268 0.417 0.415 0.438 0.471 0.445 0.448  0.418   14.57
103)  HEXACHLOROETHANE
             0.784 0.487 0.619 0.768 0.740 0.712 0.717 0.731 0.718  0.697   13.11
104)  HEXACHLOROBUTADIENE
                   0.500 0.263 0.321 0.267 0.315 0.369 0.353 0.328  0.339   21.97
105)  1,2,4-TRICHLOROBENZENE
                   0.257 0.123 0.190 0.183 0.240 0.327 0.254 0.258  0.229   27.09
106)  NAPHTHALENE
                   0.592 0.234 0.379 0.377 0.480 0.681 0.547 0.503  0.474   29.68
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MW1765.M          Fri Oct 18 09:20:20 2013   MSW
```

6.9.4

6

Initial Calibration Verification

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1765-ICV1765
Lab FileID: W44089.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	104	-0.01
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.705	1.4	99	0.00
4		CHLORODIFLUOROMETHANE	0.275	0.253	8.0	97	0.00
5		DICHLORODIFLUOROMETHANE	2.802	2.723	2.8	100	0.00
6		PROPYLENE	0.939	0.874	6.9	101	0.00
7		FREON 114	2.900	2.813	3.0	100	0.00
8		CHLOROMETHANE	0.331	0.315	4.8	99	0.00
9		VINYL CHLORIDE	1.197	1.187	0.8	100	0.00
10		1,3-BUTADIENE	0.941	0.906	3.7	101	0.00
11		n-BUTANE	0.253	0.240	5.1	95	0.00
12		BROMOMETHANE	1.112	1.090	2.0	100	-0.01
13		CHLOROETHANE	0.666	0.660	0.9	100	0.00
14		DICHLOROFLUOROMETHANE	2.424	2.369	2.3	97	0.00
15		ACROLEIN	0.492	0.438	11.0	93	-0.01
16		FREON 123	2.678	2.550	4.8	97	-0.01
17		FREON 123A	1.749	1.661	5.0	97	-0.01
18		TRICHLOROFLUOROMETHANE	2.821	2.782	1.4	100	0.00
19		ISOPROPYL ALCOHOL	1.715	1.441	16.0	85	-0.02
20		ACETONE	0.651	0.517	20.6	93	-0.01
21		ACRYLONITRILE	0.894	0.839	6.2	93	-0.01
22		PENTANE	0.325	0.316	2.8	100	0.00
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	3.161	-0.8	102	0.00
25		1,1-DICHLOROETHYLENE	1.170	1.149	1.8	99	-0.01
26		CARBON DISULFIDE	3.470	3.144	9.4	93	0.00
27		ETHANOL	0.438	0.337	23.1	78	-0.02
28		ACETONITRILE	0.886	0.797	10.0	92	-0.02
29		BROMOETHENE	1.175	1.182	-0.6	102	0.00
30		METHYLENE CHLORIDE	1.311	1.119	14.6	104	-0.01
31		3-CHLOROPROPENE	0.547	0.536	2.0	98	-0.01
32		FREON 113	2.239	2.091	6.6	96	0.00
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.188	4.7	98	-0.01
34		TERTIARY BUTYL ALCOHOL	1.847	1.847	0.0	104	-0.02
35		METHYL TERTIARY BUTYL ETHER	3.373	3.071	9.0	92	-0.01
36		TETRAHYDROFURAN	0.600	0.532	11.3	88	-0.01
37		HEXANE	2.028	1.879	7.3	95	-0.01
38		VINYL ACETATE	0.314	0.300	4.5	95	-0.01
39		1,1-DICHLOROETHANE	2.160	2.045	5.3	96	-0.01
40		METHYL ETHYL KETONE	0.603	0.552	8.5	91	-0.02
41		cis-1,2-DICHLOROETHYLENE	1.267	1.254	1.0	99	-0.01
42		DI-ISOPROPYL ETHER	4.196	3.856	8.1	91	-0.01

Initial Calibration Verification

Job Number: JB50673 **Sample:** VW1765-ICV1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44089.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.333	12.1	84	0.00
44		METHYL ACRYLATE	2.170	2.069	4.7	94	-0.01
45		CHLOROFORM	2.419	2.266	6.3	96	0.00
46		2,4-DIMETHYLPENTANE	2.388	2.276	4.7	97	-0.01
47		1,1,1-TRICHLOROETHANE	2.456	2.298	6.4	95	-0.01
48		CARBON TETRACHLORIDE	2.450	2.442	0.3	98	0.00
49		1,2-DICHLOROETHANE	1.451	1.363	6.1	94	-0.01
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	-0.01
51		BENZENE	0.772	0.717	7.1	93	0.00
52		CYCLOHEXANE	0.350	0.338	3.4	97	0.00
53		2,3-DIMETHYLPENTANE	0.177	0.172	2.8	97	-0.01
54		TRICHLOROETHYLENE	0.331	0.304	8.2	96	-0.01
55		DIBROMOMETHANE	0.339	0.333	1.8	98	-0.01
56		1,2-DICHLOROPROPANE	0.283	0.261	7.8	92	0.00
57		ETHYL ACRYLATE	0.500	0.482	3.6	93	-0.01
58		BROMODICHLOROMETHANE	0.492	0.497	-1.0	99	0.00
59		2,2,4-TRIMETHYLPENTANE	1.232	1.189	3.5	94	0.00
60		1,4-DIOXANE	0.132	0.113	14.4	76	-0.02
61		METHYL METHACRYLATE	0.257	0.252	1.9	95	0.00
62		HEPTANE	0.426	0.411	3.5	94	0.00
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.467	-2.2	98	-0.02
65		cis-1,3-DICHLOROPROPENE	0.421	0.389	7.6	91	0.00
66		TOLUENE	0.541	0.521	3.7	94	0.00
67		trans-1,3-DICHLOROPROPENE	0.359	0.376	-4.7	101	0.00
68		1,1,2-TRICHLOROETHANE	0.250	0.235	6.0	95	-0.01
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	99	0.00
70		ETHYL METHACRYLATE	0.914	0.939	-2.7	94	-0.01
71		2-HEXANONE	0.889	1.025	-15.3	106	-0.01
72		TETRACHLOROETHYLENE	0.891	0.869	2.5	98	0.00
73		DIBROMOCHLOROMETHANE	1.104	1.179	-6.8	98	-0.01
74		1,2-DIBROMOETHANE	0.944	0.976	-3.4	97	0.00
75		OCTANE	1.281	1.246	2.7	93	0.00
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.861	-1.5	95	0.00
77		CHLOROBENZENE	1.542	1.526	1.0	96	0.00
78		ETHYLBENZENE	2.464	2.422	1.7	94	0.00
79		m,p-XYLENE	0.960	0.965	-0.5	95	0.00
80		o-XYLENE	0.911	0.929	-2.0	96	0.00
81		STYRENE	1.376	1.398	-1.6	96	0.00
82		1,2,3-TRICHLOROPROPANE	0.899	0.901	-0.2	95	0.00
83		NONANE	1.205	1.188	1.4	92	0.00
84		BROMOFORM	1.068	1.195	-11.9	103	0.00
85	S	4-BROMOFLUOROBENZENE	1.187	1.248	-5.1	102	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.154	-1.9	97	0.00
87		ISOPROPYLBENZENE	2.695	2.686	0.3	95	0.00
88		BROMOBENZENE	0.803	0.825	-2.7	97	0.00
89		2-CHLOROTOLUENE	0.633	0.636	-0.5	95	0.00
90		n-PROPYLBENZENE	0.690	0.709	-2.8	96	0.00
91		4-ETHYLTOLUENE	2.204	2.334	-5.9	97	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	1.952	-3.0	96	0.00
93		ALPHA-METHYLSTYRENE	0.901	0.941	-4.4	95	0.00
94		TERT-BUTYLBENZENE	0.517	0.529	-2.3	98	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	1.879	-7.1	99	0.00
96		m-DICHLOROBENZENE	1.066	1.134	-6.4	97	0.00
97		BENZYL CHLORIDE	1.093	1.229	-12.4	104	0.00
98		p-DICHLOROBENZENE	1.022	1.095	-7.1	101	0.00
99		SEC-BUTYLBENZENE	0.581	0.591	-1.7	95	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.569	-0.9	96	0.00

Initial Calibration Verification

Job Number: JB50673 **Sample:** VW1765-ICV1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44089.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	1.017	-5.3	100	0.00
102	n-BUTYLBENZENE	0.418	0.419	-0.2	100	0.00
103	HEXACHLOROETHANE	0.697	0.733	-5.2	98	0.00
104	HEXACHLOROBUTADIENE	0.339	0.269	20.6	100	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.187	18.3	101	0.00
106	NAPHTHALENE	0.474	0.441	7.0	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Fri Oct 18 09:21:05 2013 MSW

6.9.5

6

Continuing Calibration Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1770-CC1765
Lab FileID: W44174.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\W44174.D                    Vial: 3
Acq On    : 19 Oct 2013  10:16 am                    Operator: danat
Sample    : cc1765-10                                Inst    : MSW
Misc      : MS56739,VW1770,,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title        : TO15 by GCMS w/Rtx-1, 60m  X 0.32mm ID X 1.0 um
Last Update  : Fri Oct 18 09:18:01 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  60%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 140%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	84	-0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.000	100.0#	0#	-4.64#
4		CHLORODIFLUOROMETHANE	0.275	0.257	6.5	80	-0.03
5		DICHLORODIFLUOROMETHANE	2.802	2.713	3.2	81	-0.03
6		PROPYLENE	0.939	0.877	6.6	82	-0.02
7		FREON 114	2.900	2.806	3.2	81	-0.03
8		CHLOROMETHANE	0.331	0.315	4.8	80	-0.03
9		VINYL CHLORIDE	1.197	1.182	1.3	80	-0.03
10		1,3-BUTADIENE	0.941	0.872	7.3	79	-0.03
11		n-BUTANE	0.253	0.247	2.4	80	-0.02
12		BROMOMETHANE	1.112	1.056	5.0	79	-0.03
13		CHLOROETHANE	0.666	0.647	2.9	79	-0.02
14		DICHLOROFLUOROMETHANE	2.424	2.383	1.7	79	-0.03
15		ACROLEIN	0.492	0.433	12.0	75	-0.03
16		FREON 123	2.678	2.508	6.3	78	-0.03
17		FREON 123A	1.749	1.649	5.7	78	-0.03
18		TRICHLOROFLUOROMETHANE	2.821	2.694	4.5	78	-0.02
19		ISOPROPYL ALCOHOL	1.715	1.555	9.3	75	-0.04
20		ACETONE	0.651	0.516	20.7	75	-0.03
21		ACRYLONITRILE	0.894	0.825	7.7	74	-0.03
22		PENTANE	0.325	0.294	9.5	76	-0.02
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	2.945	6.1	77	-0.02
25		1,1-DICHLOROETHYLENE	1.170	1.118	4.4	78	-0.02
26		CARBON DISULFIDE	3.470	3.290	5.2	79	-0.02
27		ETHANOL	0.438	0.354	19.2	66	-0.04
28		ACETONITRILE	0.886	0.804	9.3	76	-0.04
29		BROMOETHENE	1.175	1.135	3.4	79	-0.02
30		METHYLENE CHLORIDE	1.311	1.280	2.4	96	-0.03
31		3-CHLOROPROPENE	0.547	0.518	5.3	77	-0.03
32		FREON 113	2.239	2.099	6.3	78	-0.02
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.189	4.7	79	-0.03
34		TERTIARY BUTYL ALCOHOL	1.847	1.976	-7.0	90	-0.04
35		METHYL TERTIARY BUTYL ETHER	3.373	2.977	11.7	72	-0.02
36		TETRAHYDROFURAN	0.600	0.529	11.8	71	-0.02
37		HEXANE	2.028	1.918	5.4	78	-0.02
38		VINYL ACETATE	0.314	0.289	8.0	74	-0.03
39		1,1-DICHLOROETHANE	2.160	2.037	5.7	78	-0.03
40		METHYL ETHYL KETONE	0.603	0.524	13.1	70	-0.02
41		cis-1,2-DICHLOROETHYLENE	1.267	1.209	4.6	78	-0.02
42		DI-ISOPROPYL ETHER	4.196	3.642	13.2	70	-0.02

Continuing Calibration Summary

Job Number: JB50673 **Sample:** VW1770-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44174.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.350	7.7	71	-0.01
44		METHYL ACRYLATE	2.170	1.939	10.6	71	-0.02
45		CHLOROFORM	2.419	2.216	8.4	76	-0.02
46		2,4-DIMETHYLPENTANE	2.388	2.200	7.9	76	-0.02
47		1,1,1-TRICHLOROETHANE	2.456	2.284	7.0	77	-0.02
48		CARBON TETRACHLORIDE	2.450	2.392	2.4	78	-0.02
49		1,2-DICHLOROETHANE	1.451	1.340	7.6	75	-0.02
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	82	-0.02
51		BENZENE	0.772	0.707	8.4	75	-0.02
52		CYCLOHEXANE	0.350	0.332	5.1	77	-0.02
53		2,3-DIMETHYLPENTANE	0.177	0.168	5.1	77	-0.02
54		TRICHLOROETHYLENE	0.331	0.299	9.7	77	-0.02
55		DIBROMOMETHANE	0.339	0.318	6.2	76	-0.02
56		1,2-DICHLOROPROPANE	0.283	0.256	9.5	73	-0.02
57		ETHYL ACRYLATE	0.500	0.436	12.8	68	-0.02
58		BROMODICHLOROMETHANE	0.492	0.465	5.5	76	-0.01
59		2,2,4-TRIMETHYLPENTANE	1.232	1.163	5.6	75	-0.02
60		1,4-DIOXANE	0.132	0.116	12.1	63	-0.02
61		METHYL METHACRYLATE	0.257	0.229	10.9	70	-0.01
62		HEPTANE	0.426	0.397	6.8	74	-0.02
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.419	8.3	71	-0.02
65		cis-1,3-DICHLOROPROPENE	0.421	0.392	6.9	74	-0.02
66		TOLUENE	0.541	0.496	8.3	73	-0.01
67		trans-1,3-DICHLOROPROPENE	0.359	0.339	5.6	74	-0.01
68		1,1,2-TRICHLOROETHANE	0.250	0.223	10.8	73	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	79	-0.01
70		ETHYL METHACRYLATE	0.914	0.897	1.9	71	-0.01
71		2-HEXANONE	0.889	0.922	-3.7	76	-0.01
72		TETRACHLOROETHYLENE	0.891	0.849	4.7	76	-0.01
73		DIBROMOCHLOROMETHANE	1.104	1.154	-4.5	76	-0.02
74		1,2-DIBROMOETHANE	0.944	0.944	0.0	75	-0.01
75		OCTANE	1.281	1.225	4.4	72	-0.01
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.846	0.2	74	0.00
77		CHLOROBENZENE	1.542	1.499	2.8	75	-0.01
78		ETHYLBENZENE	2.464	2.318	5.9	72	0.00
79		m,p-XYLENE	0.960	0.921	4.1	72	-0.01
80		o-XYLENE	0.911	0.878	3.6	72	-0.01
81		STYRENE	1.376	1.321	4.0	72	-0.01
82		1,2,3-TRICHLOROPROPANE	0.899	0.853	5.1	71	0.00
83		NONANE	1.205	1.149	4.6	71	0.00
84		BROMOFORM	1.068	1.123	-5.1	77	-0.01
85	S	4-BROMOFLUOROBENZENE	1.187	1.216	-2.4	79	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.083	4.3	72	-0.01
87		ISOPROPYLBENZENE	2.695	2.598	3.6	73	-0.01
88		BROMOBENZENE	0.803	0.802	0.1	75	-0.01
89		2-CHLOROTOLUENE	0.633	0.623	1.6	74	-0.01
90		n-PROPYLBENZENE	0.690	0.686	0.6	73	0.00
91		4-ETHYLTOLUENE	2.204	2.194	0.5	73	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	1.878	0.9	74	-0.01
93		ALPHA-METHYLSTYRENE	0.901	0.895	0.7	72	0.00
94		TERT-BUTYLBENZENE	0.517	0.544	-5.2	80	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	1.768	-0.7	74	0.00
96		m-DICHLOROBENZENE	1.066	1.116	-4.7	76	0.00
97		BENZYL CHLORIDE	1.093	1.228	-12.4	83	0.00
98		p-DICHLOROBENZENE	1.022	1.078	-5.5	79	0.00
99		SEC-BUTYLBENZENE	0.581	0.577	0.7	74	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.561	0.5	75	0.00

Continuing Calibration Summary

Job Number: JB50673 **Sample:** VW1770-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44174.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	0.990	-2.5	77	0.00
102	n-BUTYLBENZENE	0.418	0.417	0.2	79	0.00
103	HEXACHLOROETHANE	0.697	0.744	-6.7	79	0.00
104	HEXACHLOROBUTADIENE	0.339	0.335	1.2	99	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.247	-7.9	106	0.00
106	NAPHTHALENE	0.474	0.524	-10.5	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Wed Oct 23 11:55:38 2013 MSW

Continuing Calibration Summary

Job Number: JB50673
Account: CARICH C. A. Rich Consultants
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY
Sample: VW1770-CC1765
Lab FileID: W44201.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\W44201.D                    Vial: 2
Acq On    : 21 Oct 2013  10:05 am                     Operator: danat
Sample    : cc1765-10                                 Inst    : MSW
Misc      : MS56739,VW1770,,,,,1                      Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title        : TO15 by GCMS w/Rtx-1, 60m  X 0.32mm ID X 1.0 um
Last Update  : Mon Oct 21 11:56:16 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  60%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 140%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	80	-0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.08#
3		FREON 152A	0.715	0.000	100.0#	0#	-4.64#
4		CHLORODIFLUOROMETHANE	0.275	0.251	8.7	74	-0.02
5		DICHLORODIFLUOROMETHANE	2.802	2.681	4.3	75	-0.04
6		PROPYLENE	0.939	0.827	11.9	73	-0.03
7		FREON 114	2.900	2.716	6.3	74	-0.03
8		CHLOROMETHANE	0.331	0.299	9.7	72	-0.04
9		VINYL CHLORIDE	1.197	1.112	7.1	72	-0.03
10		1,3-BUTADIENE	0.941	0.824	12.4	71	-0.03
11		n-BUTANE	0.253	0.229	9.5	70	-0.03
12		BROMOMETHANE	1.112	1.045	6.0	74	-0.04
13		CHLOROETHANE	0.666	0.616	7.5	71	-0.02
14		DICHLOROFLUOROMETHANE	2.424	2.261	6.7	71	-0.03
15		ACROLEIN	0.492	0.402	18.3	66	-0.03
16		FREON 123	2.678	2.435	9.1	71	-0.03
17		FREON 123A	1.749	1.633	6.6	73	-0.03
18		TRICHLOROFLUOROMETHANE	2.821	2.668	5.4	74	-0.02
19		ISOPROPYL ALCOHOL	1.715	1.330	22.4	60	-0.03
20		ACETONE	0.651	0.708	-8.8	98	-0.03
21		ACRYLONITRILE	0.894	0.763	14.7	65	-0.03
22		PENTANE	0.325	0.279	14.2	68	-0.02
23	H	TVHC as EQUIV PENTANE	0.000	0.000	0.0	0#	-6.61#
24		IODOMETHANE	3.135	2.985	4.8	74	-0.02
25		1,1-DICHLOROETHYLENE	1.170	1.095	6.4	73	-0.03
26		CARBON DISULFIDE	3.470	3.203	7.7	73	-0.03
27		ETHANOL	0.438	0.307	29.9	55#	-0.04
28		ACETONITRILE	0.886	0.740	16.5	66	-0.03
29		BROMOETHENE	1.175	1.097	6.6	73	-0.03
30		METHYLENE CHLORIDE	1.311	1.253	4.4	89	-0.03
31		3-CHLOROPROPENE	0.547	0.497	9.1	70	-0.02
32		FREON 113	2.239	2.143	4.3	75	-0.02
33		TRANS-1,2-DICHLOROETHYLENE	1.247	1.173	5.9	74	-0.03
34		TERTIARY BUTYL ALCOHOL	1.847	1.667	9.7	72	-0.03
35		METHYL TERTIARY BUTYL ETHER	3.373	2.887	14.4	66	-0.02
36		TETRAHYDROFURAN	0.600	0.741	-23.5	94	-0.02
37		HEXANE	2.028	1.810	10.7	70	-0.02
38		VINYL ACETATE	0.314	0.281	10.5	69	-0.02
39		1,1-DICHLOROETHANE	2.160	1.912	11.5	69	-0.03
40		METHYL ETHYL KETONE	0.603	0.627	-4.0	80	-0.02
41		cis-1,2-DICHLOROETHYLENE	1.267	1.197	5.5	73	-0.02
42		DI-ISOPROPYL ETHER	4.196	3.386	19.3	61	-0.02

Continuing Calibration Summary

Job Number: JB50673 **Sample:** VW1770-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44201.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

43		ETHYL ACETATE	0.379	0.333	12.1	64	-0.01
44		METHYL ACRYLATE	2.170	1.831	15.6	64	-0.02
45		CHLOROFORM	2.419	2.150	11.1	70	-0.02
46		2,4-DIMETHYLPENTANE	2.388	2.054	14.0	67	-0.02
47		1,1,1-TRICHLOROETHANE	2.456	2.223	9.5	71	-0.02
48		CARBON TETRACHLORIDE	2.450	2.363	3.6	73	-0.02
49		1,2-DICHLOROETHANE	1.451	1.293	10.9	69	-0.02
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	76	-0.02
51		BENZENE	0.772	0.699	9.5	68	-0.02
52		CYCLOHEXANE	0.350	0.331	5.4	71	-0.02
53		2,3-DIMETHYLPENTANE	0.177	0.161	9.0	68	-0.02
54		TRICHLOROETHYLENE	0.331	0.295	10.9	70	-0.02
55		DIBROMOMETHANE	0.339	0.329	2.9	73	-0.02
56		1,2-DICHLOROPROPANE	0.283	0.244	13.8	65	-0.02
57		ETHYL ACRYLATE	0.500	0.416	16.8	60	-0.01
58		BROMODICHLOROMETHANE	0.492	0.455	7.5	69	-0.01
59		2,2,4-TRIMETHYLPENTANE	1.232	1.105	10.3	66	-0.02
60		1,4-DIOXANE	0.132	0.109	17.4	55#	0.00
61		METHYL METHACRYLATE	0.257	0.225	12.5	64	0.00
62		HEPTANE	0.426	0.375	12.0	65	-0.02
63	H	TVHC as EQUIV HEPTANE	0.000	0.000	0.0	0#	-11.52#
64		METHYL ISOBUTYL KETONE	0.457	0.398	12.9	63	-0.01
65		cis-1,3-DICHLOROPROPENE	0.421	0.380	9.7	67	-0.01
66		TOLUENE	0.541	0.494	8.7	67	-0.01
67		trans-1,3-DICHLOROPROPENE	0.359	0.329	8.4	67	-0.01
68		1,1,2-TRICHLOROETHANE	0.250	0.219	12.4	67	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	73	-0.01
70		ETHYL METHACRYLATE	0.914	0.873	4.5	65	-0.01
71		2-HEXANONE	0.889	0.863	2.9	66	0.00
72		TETRACHLOROETHYLENE	0.891	0.873	2.0	72	-0.01
73		DIBROMOCHLOROMETHANE	1.104	1.157	-4.8	71	-0.02
74		1,2-DIBROMOETHANE	0.944	0.945	-0.1	70	-0.01
75		OCTANE	1.281	1.121	12.5	62	-0.01
76		1,1,1,2-TETRACHLOROETHANE	0.848	0.852	-0.5	70	-0.01
77		CHLOROBENZENE	1.542	1.496	3.0	69	-0.01
78		ETHYLBENZENE	2.464	2.279	7.5	66	0.00
79		m,p-XYLENE	0.960	0.923	3.9	67	-0.01
80		o-XYLENE	0.911	0.878	3.6	67	-0.01
81		STYRENE	1.376	1.312	4.7	66	0.00
82		1,2,3-TRICHLOROPROPANE	0.899	0.863	4.0	67	0.00
83		NONANE	1.205	1.066	11.5	61	0.00
84		BROMOFORM	1.068	1.150	-7.7	74	-0.01
85	S	4-BROMOFLUOROBENZENE	1.187	1.281	-7.9	77	0.00
86		1,1,2,2-TETRACHLOROETHANE	1.132	1.077	4.9	67	-0.01
87		ISOPROPYLBENZENE	2.695	2.576	4.4	67	-0.01
88		BROMOBENZENE	0.803	0.823	-2.5	71	-0.01
89		2-CHLOROTOLUENE	0.633	0.628	0.8	69	-0.01
90		n-PROPYLBENZENE	0.690	0.703	-1.9	70	0.00
91		4-ETHYLTOLUENE	2.204	2.197	0.3	68	0.00
92		1,3,5-TRIMETHYLBENZENE	1.896	1.844	2.7	67	0.00
93		ALPHA-METHYLSTYRENE	0.901	0.908	-0.8	68	0.00
94		TERT-BUTYLBENZENE	0.517	0.508	1.7	69	0.00
95		1,2,4-TRIMETHYLBENZENE	1.755	1.748	0.4	68	0.00
96		m-DICHLOROBENZENE	1.066	1.142	-7.1	72	0.00
97		BENZYL CHLORIDE	1.093	1.180	-8.0	74	0.00
98		p-DICHLOROBENZENE	1.022	1.073	-5.0	74	0.00
99		SEC-BUTYLBENZENE	0.581	0.594	-2.2	71	0.00
100		p-ISOPROPYLTOLUENE	0.564	0.578	-2.5	72	0.00

Continuing Calibration Summary

Job Number: JB50673 **Sample:** VW1770-CC1765
Account: CARICH C. A. Rich Consultants **Lab FileID:** W44201.D
Project: Fulton Avenue, 882 Fulton Avenue, Brooklyn, NY

101	o-DICHLOROBENZENE	0.966	1.025	-6.1	74	0.00
102	n-BUTYLBENZENE	0.418	0.432	-3.3	76	0.00
103	HEXACHLOROETHANE	0.697	0.761	-9.2	75	0.00
104	HEXACHLOROBUTADIENE	0.339	0.344	-1.5	94	0.00
105	1,2,4-TRICHLOROBENZENE	0.229	0.258	-12.7	103	0.00
106	NAPHTHALENE	0.474	0.527	-11.2	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W44080.D MW1765.M Mon Oct 21 14:00:31 2013 MSW

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44212.D Vial: 1
Acq On : 21 Oct 2013 5:28 pm Operator: danat
Sample : jb50673-1 Inst : MSW
Misc : MS57076,VW1770,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 17:53:09 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

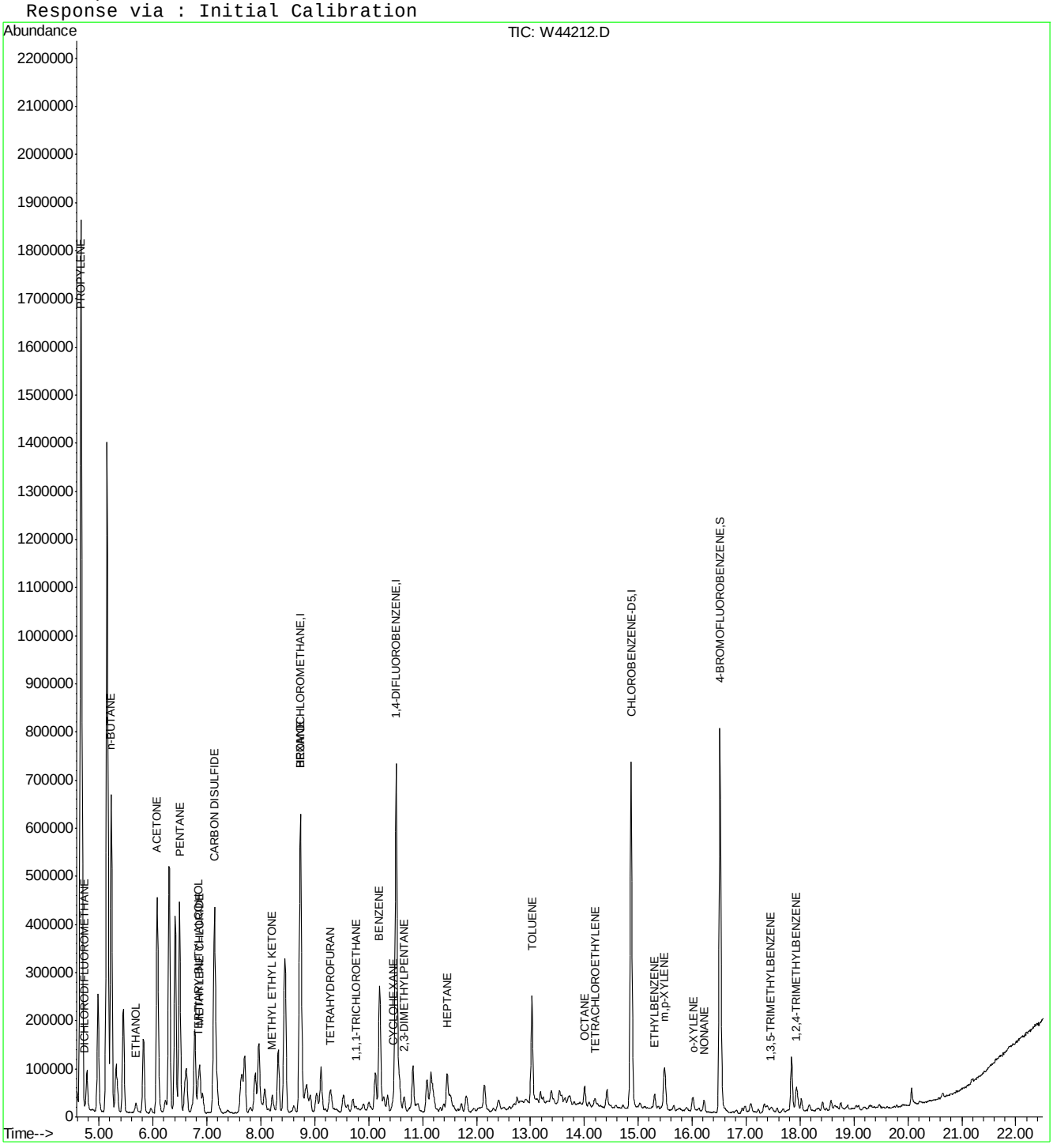
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	172430	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.51	114	851279	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	325435	10.00	PPBV	-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	384242	9.95	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.72	85	6714	0.14	PPBV	98
6) PROPYLENE	4.66	41	1288389	79.55	PPBV	98
11) n-BUTANE	5.22	58	107720	24.67	PPBV	97
20) ACETONE	6.08	58	111325	9.92	PPBV #	65
22) PENTANE	6.49	57	60231	10.75	PPBV	95
26) CARBON DISULFIDE	7.14	76	903367	15.10	PPBV	99
27) ETHANOL	5.68	45	24498	3.24	PPBV #	95
30) METHYLENE CHLORIDE	6.85	84	27609	1.22	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.83	59	25603	0.80	PPBV #	60
36) TETRAHYDROFURAN	9.30	72	8324	0.81	PPBV #	87
37) HEXANE	8.74	57	139242	3.98	PPBV	87
40) METHYL ETHYL KETONE	8.21	72	19073	1.83	PPBV #	85
47) 1,1,1-TRICHLOROETHANE	9.76	97	7864	0.19	PPBV	96
51) BENZENE	10.20	78	320494	4.88	PPBV	99
52) CYCLOHEXANE	10.46	84	14774	0.50	PPBV #	4
53) 2,3-DIMETHYLPENTANE	10.66	71	6742	0.45	PPBV	83
62) HEPTANE	11.46	43	41481	1.14	PPBV	97
66) TOLUENE	13.03	92	144018	3.13	PPBV	99
72) TETRACHLOROETHYLENE	14.19	164	5799	0.20	PPBV	97
75) OCTANE	14.00	43	21805	0.52	PPBV	97
78) ETHYLBENZENE	15.30	91	35374	0.44	PPBV	97
79) m,p-XYLENE	15.48	106	46221	1.48	PPBV	100
80) o-XYLENE	16.02	106	13052	0.44	PPBV	94
83) NONANE	16.22	43	10658	0.27	PPBV	96
92) 1,3,5-TRIMETHYLBENZENE	17.47	105	7151	0.12	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.93	105	20522	0.36	PPBV #	33

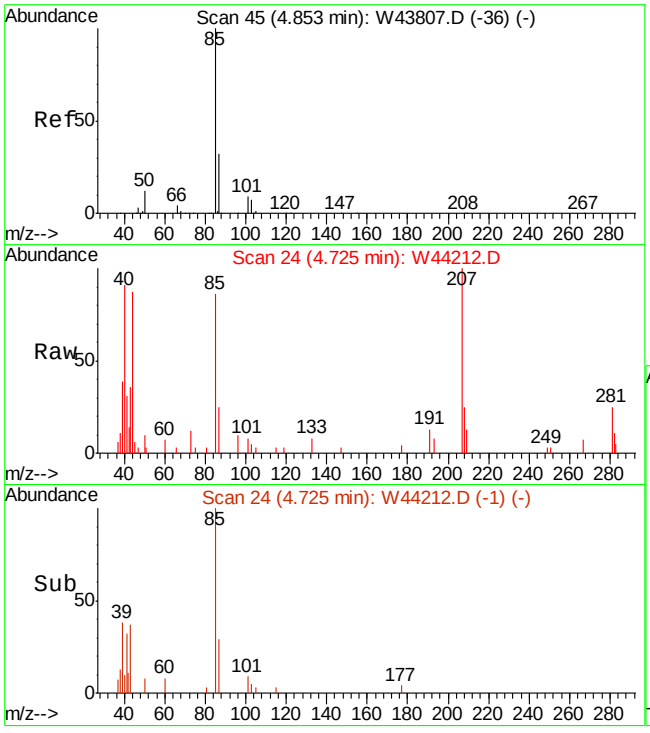
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44212.D Vial: 1
Acq On : 21 Oct 2013 5:28 pm Operator: danat
Sample : jb50673-1 Inst : MSW
Misc : MS57076,VW1770,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 8:51 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

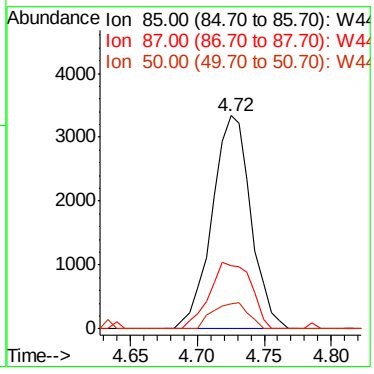


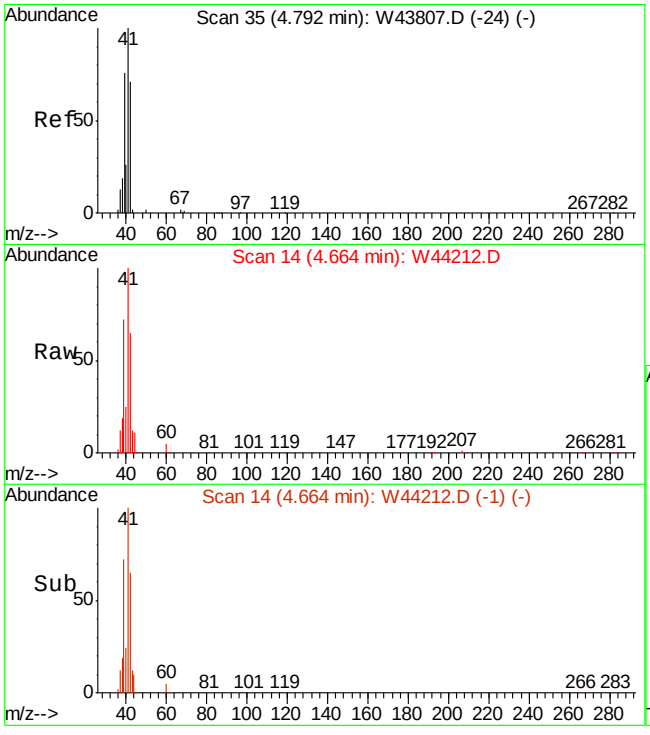


#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.72 min Scan# 24
Delta R.T. -0.05 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 85 Resp: 6714

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.1	52.1
50	11.2	0.0	30.6

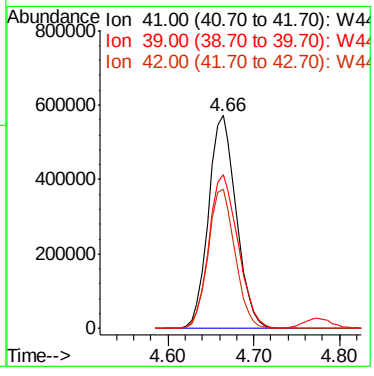


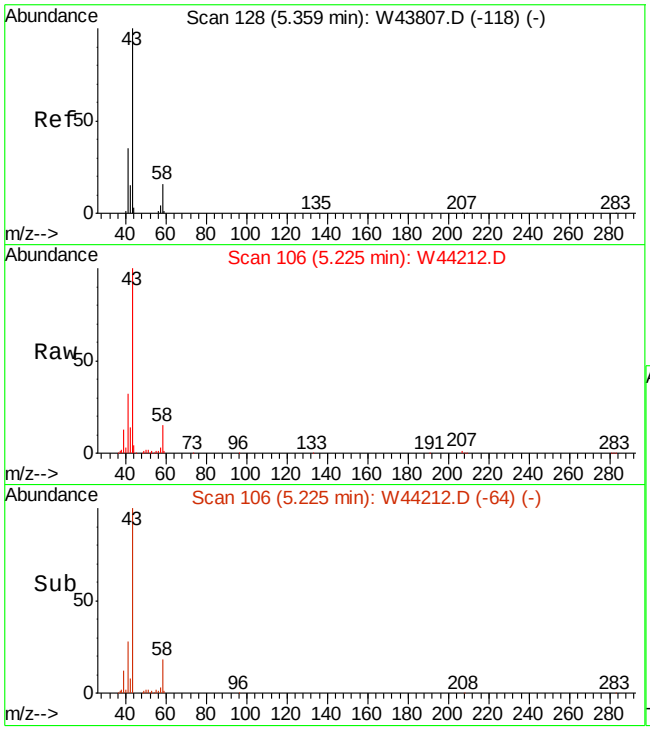


#6
PROPYLENE
Concen: 79.55 PPBV
RT: 4.66 min Scan# 14
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 41 Resp: 1288389

Ion	Ratio	Lower	Upper
41	100		
39	72.0	48.7	88.7
42	65.4	44.9	84.9

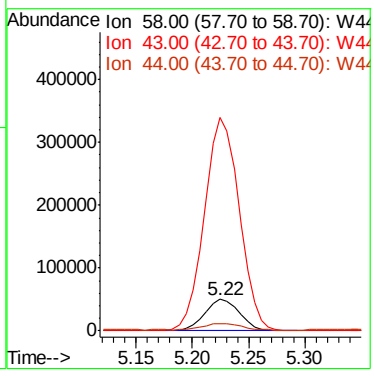


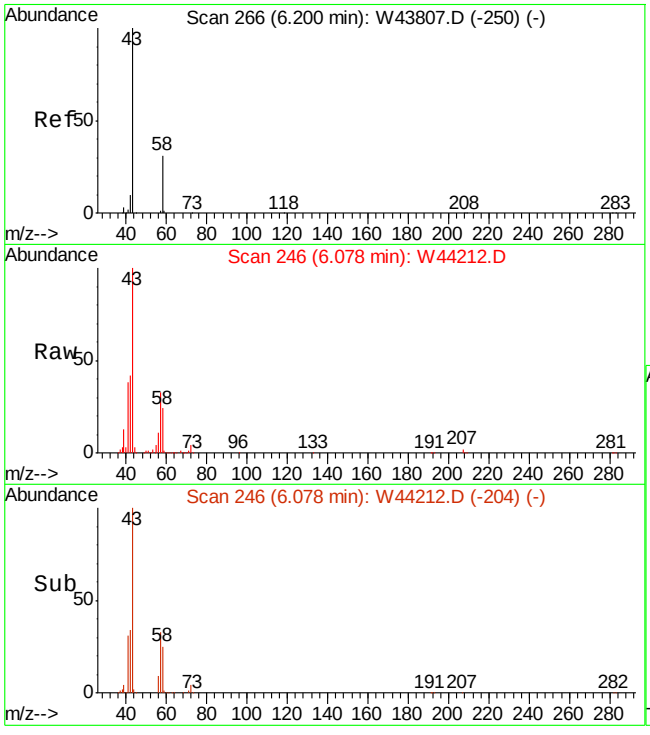


#11
n-BUTANE
Concen: 24.67 PPBV
RT: 5.22 min Scan# 106
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 58 Resp: 107720

Ion	Ratio	Lower	Upper
58	100		
43	679.5	552.0	828.0
44	22.9	20.4	30.6

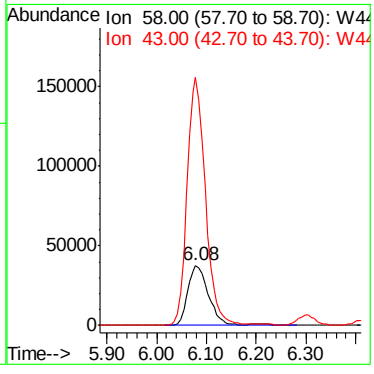


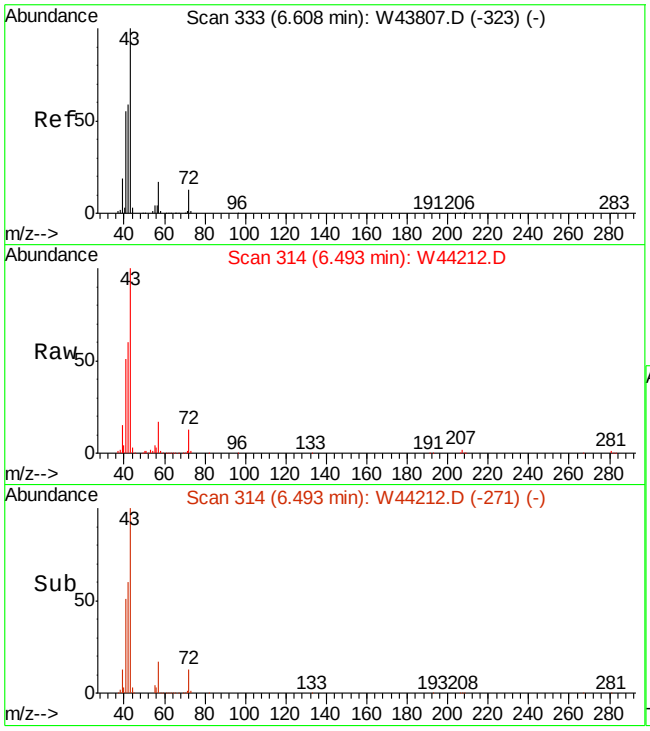


#20
ACETONE
Concen: 9.92 PPBV
RT: 6.08 min Scan# 246
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 58 Resp: 111325

Ion	Ratio	Lower	Upper
58	100		
43	358.4	270.7	310.7#

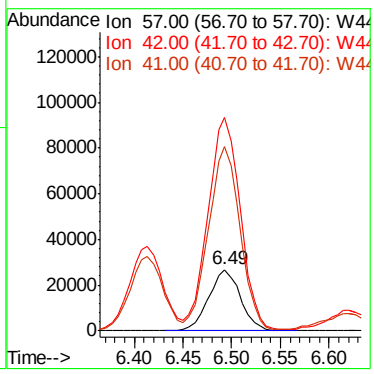


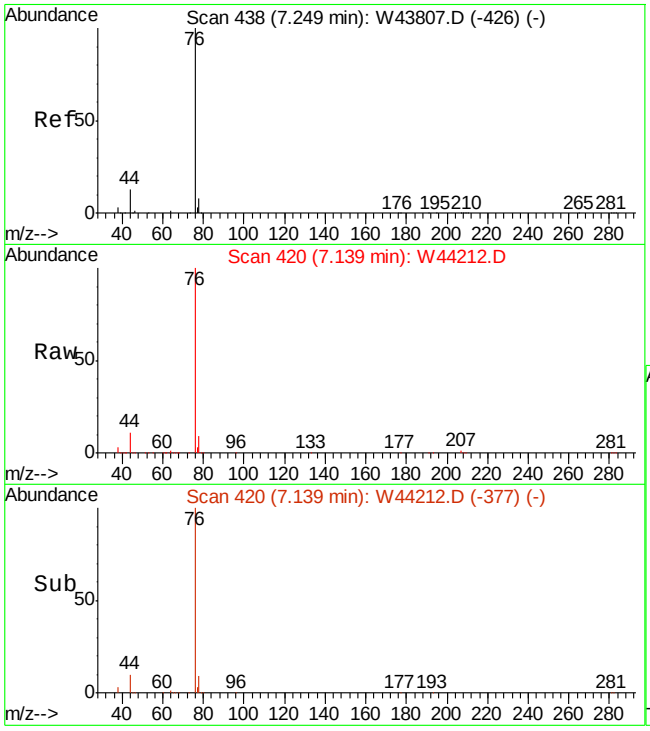


#22
PENTANE
Concen: 10.75 PPBV
RT: 6.49 min Scan# 314
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 57 Resp: 60231

Ion	Ratio	Lower	Upper
57	100		
42	357.4	352.7	392.7
41	302.3	286.0	326.0

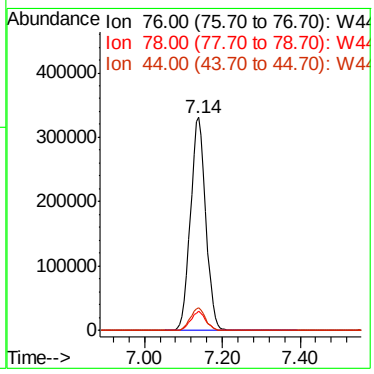


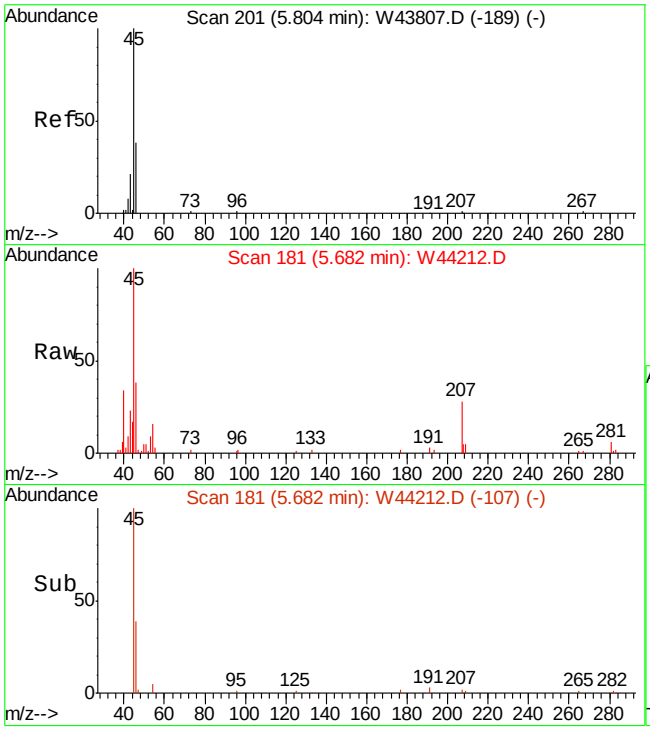


#26
CARBON DISULFIDE
Concen: 15.10 PPBV
RT: 7.14 min Scan# 420
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 76 Resp: 903367

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	29.0
44	10.7	0.0	31.4

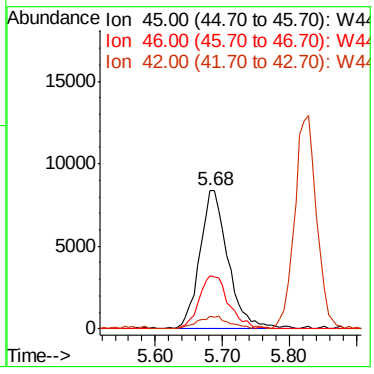


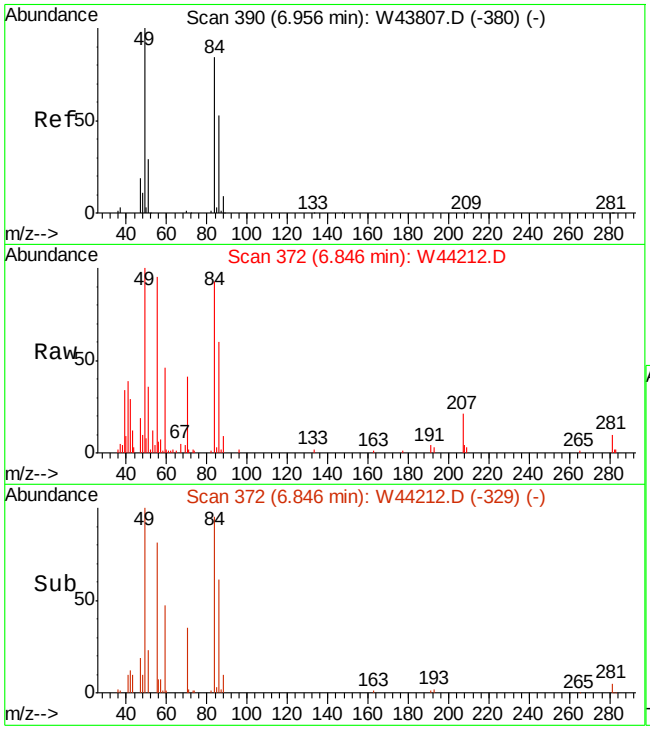


#27
ETHANOL
Concen: 3.24 PPBV
RT: 5.68 min Scan# 181
Delta R.T. -0.05 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 45 Resp: 24498

Ion	Ratio	Lower	Upper
45	100		
46	39.5	18.3	58.3
42	0.0	0.0	27.7

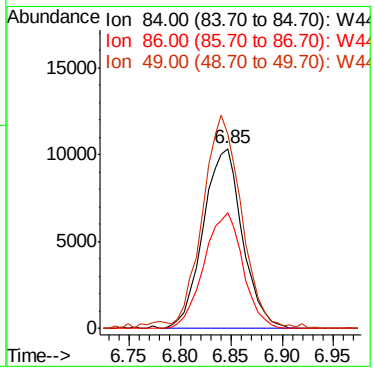


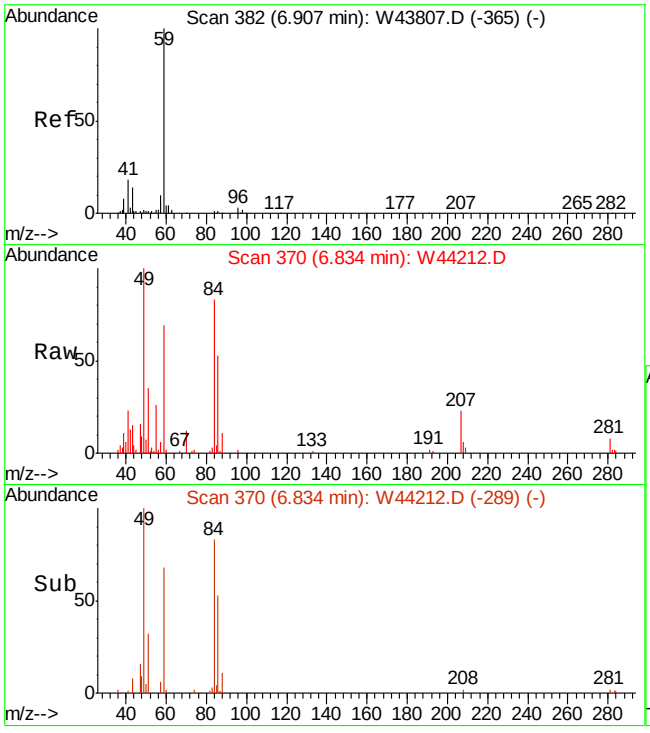


#30
METHYLENE CHLORIDE
Concen: 1.22 PPBV
RT: 6.85 min Scan# 372
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 84 Resp: 27609

Ion	Ratio	Lower	Upper
84	100		
86	63.9	43.2	83.2
49	121.0	0.0	320.8

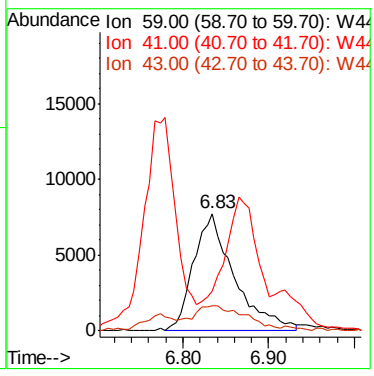


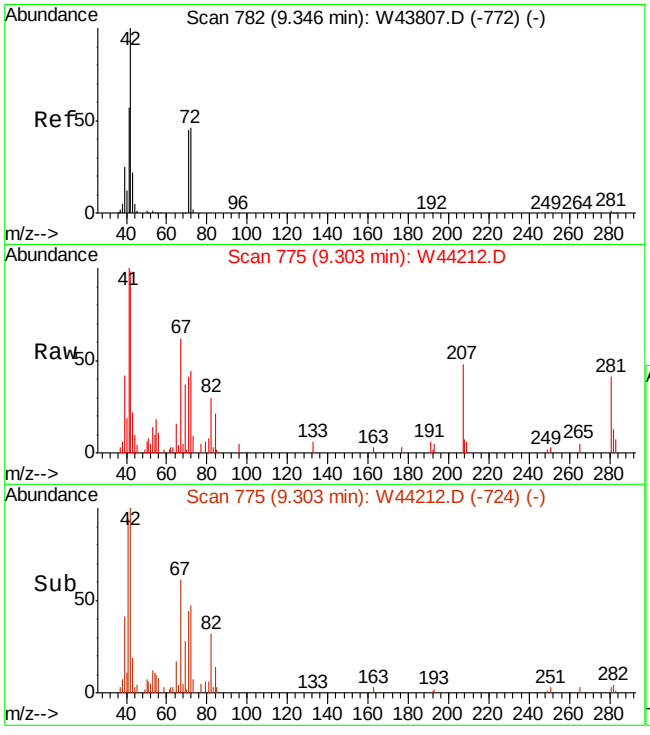


#34
TERTIARY BUTYL ALCOHOL
Concen: 0.80 PPBV
RT: 6.83 min Scan# 370
Delta R.T. -0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 59 Resp: 25603

Ion	Ratio	Lower	Upper
59	100		
41	0.0	1.4	41.4#
43	0.0	0.0	32.3

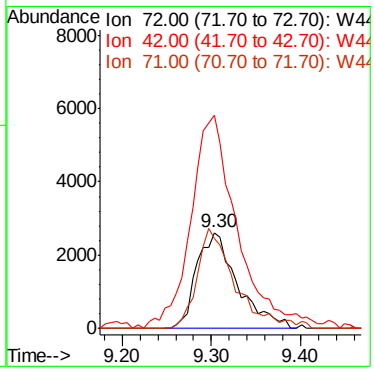


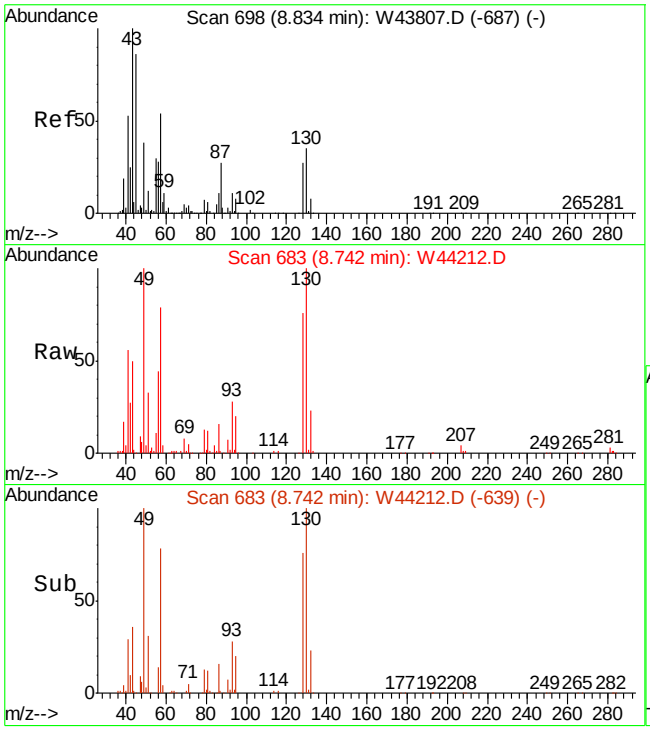


#36
TETRAHYDROFURAN
Concen: 0.81 PPBV
RT: 9.30 min Scan# 775
Delta R.T. 0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 72 Resp: 8324

Ion	Ratio	Lower	Upper
72	100		
42	254.9	206.0	246.0#
71	97.1	74.0	114.0

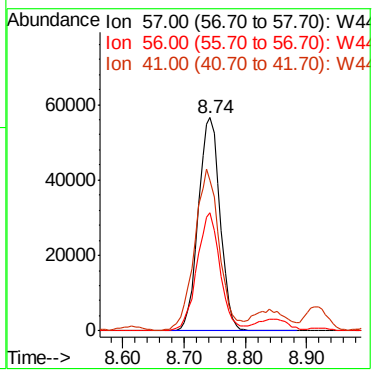


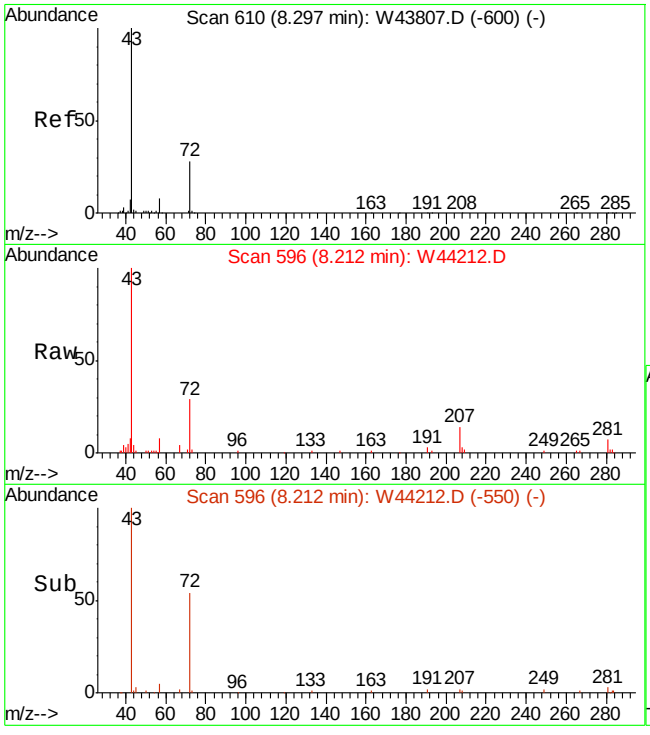


#37
HEXANE
Concen: 3.98 PPBV
RT: 8.74 min Scan# 683
Delta R.T. -0.03 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 57 Resp: 139242

Ion	Ratio	Lower	Upper
57	100		
56	68.9	32.2	72.2
41	101.2	74.7	114.7

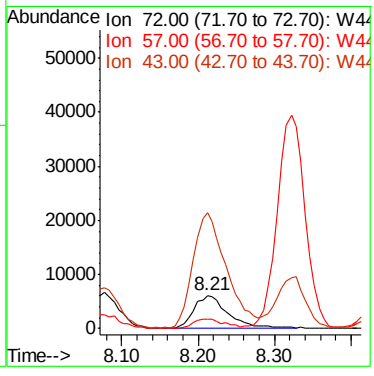


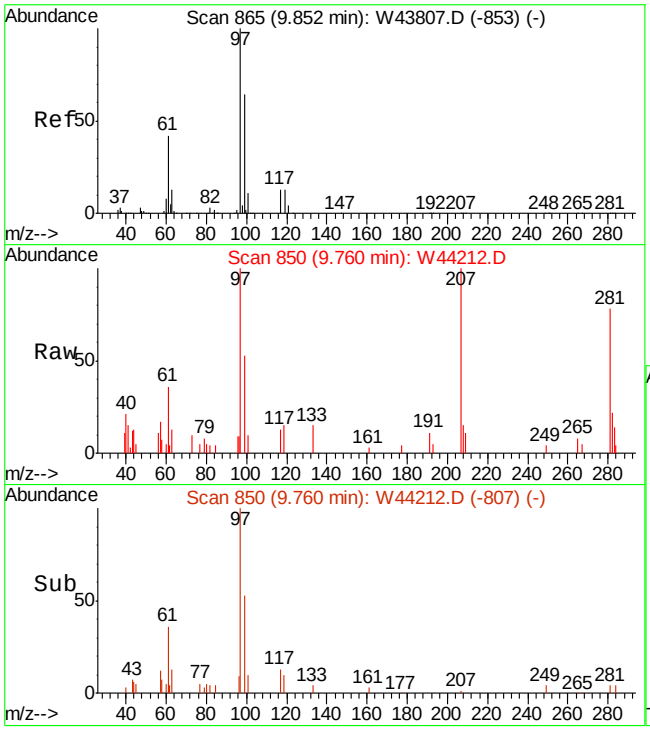


#40
METHYL ETHYL KETONE
Concen: 1.83 PPBV
RT: 8.21 min Scan# 596
Delta R.T. -0.02 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 72 Resp: 19073

Ion	Ratio	Lower	Upper
72	100		
57	28.7	10.3	50.3
43	347.4	364.5	404.5#

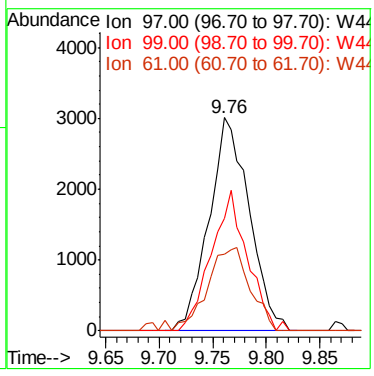


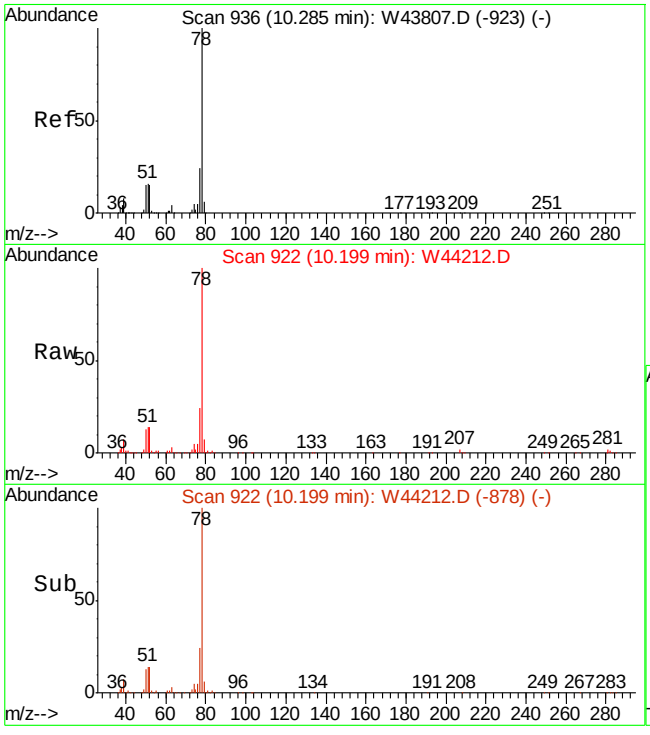


#47
1,1,1-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 9.76 min Scan# 850
Delta R.T. -0.04 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 97 Resp: 7864

Ion	Ratio	Lower	Upper
97	100		
99	59.2	44.2	84.2
61	40.6	21.3	61.3

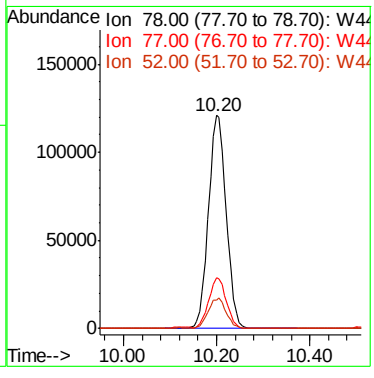


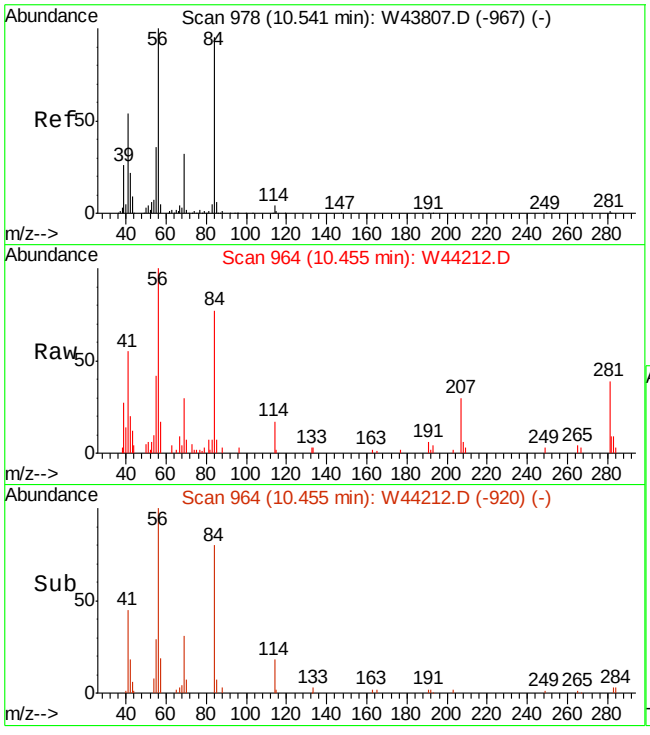


#51
BENZENE
Concen: 4.88 PPBV
RT: 10.20 min Scan# 922
Delta R.T. -0.03 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 78 Resp: 320494

Ion	Ratio	Lower	Upper
78	100		
77	24.0	3.7	43.7
52	14.4	0.0	35.0

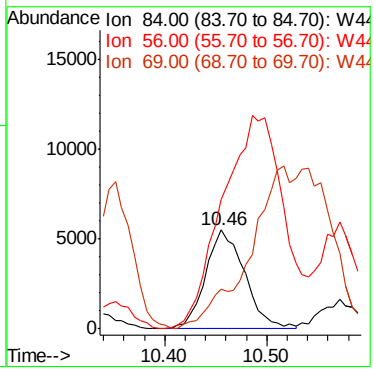


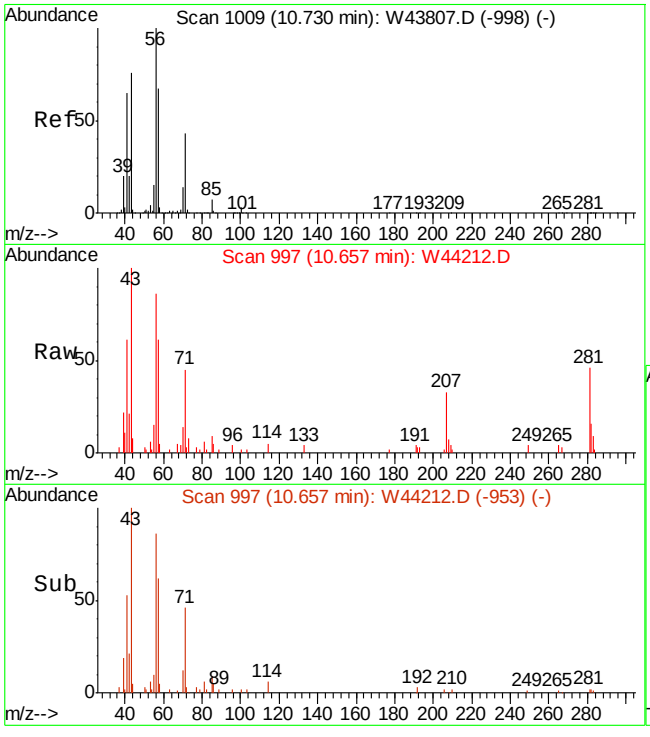


#52
CYCLOHEXANE
Concen: 0.50 PPBV
RT: 10.46 min Scan# 964
Delta R.T. -0.03 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 84 Resp: 14774

Ion	Ratio	Lower	Upper
84	100		
56	0.0	96.7	136.7#
69	0.0	20.6	60.6#

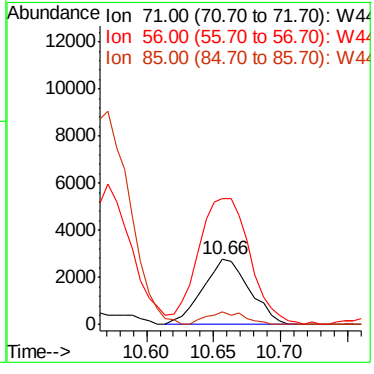


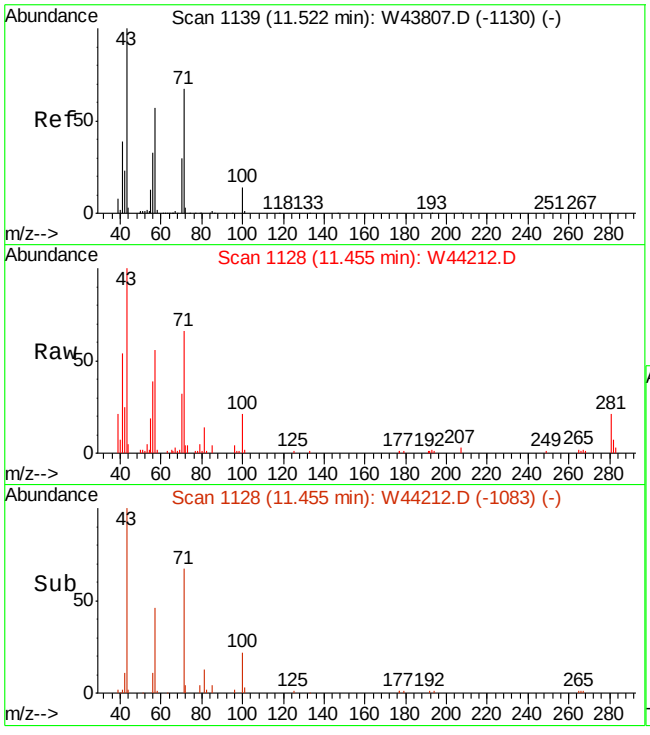


#53
2,3-DIMETHYLPENTANE
Concen: 0.45 PPBV
RT: 10.66 min Scan# 997
Delta R.T. -0.03 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 71 Resp: 6742

Ion	Ratio	Lower	Upper
71	100		
56	213.3	196.2	294.4
85	15.9	13.4	20.0

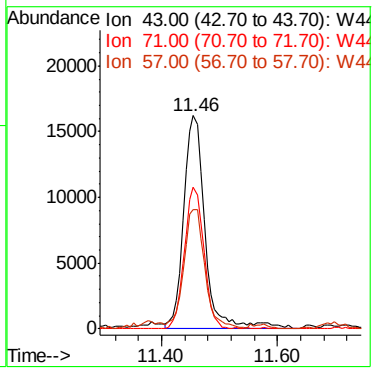


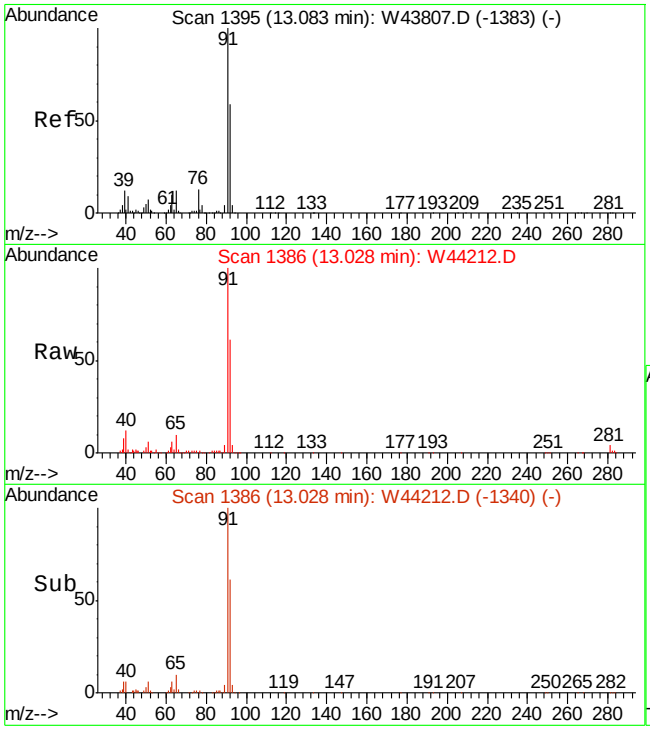


#62
HEPTANE
Concen: 1.14 PPBV
RT: 11.46 min Scan# 1128
Delta R.T. -0.02 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 43 Resp: 41481

Ion	Ratio	Lower	Upper
43	100		
71	60.1	43.7	83.7
57	55.0	34.7	74.7

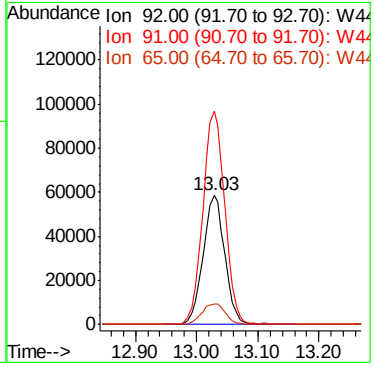


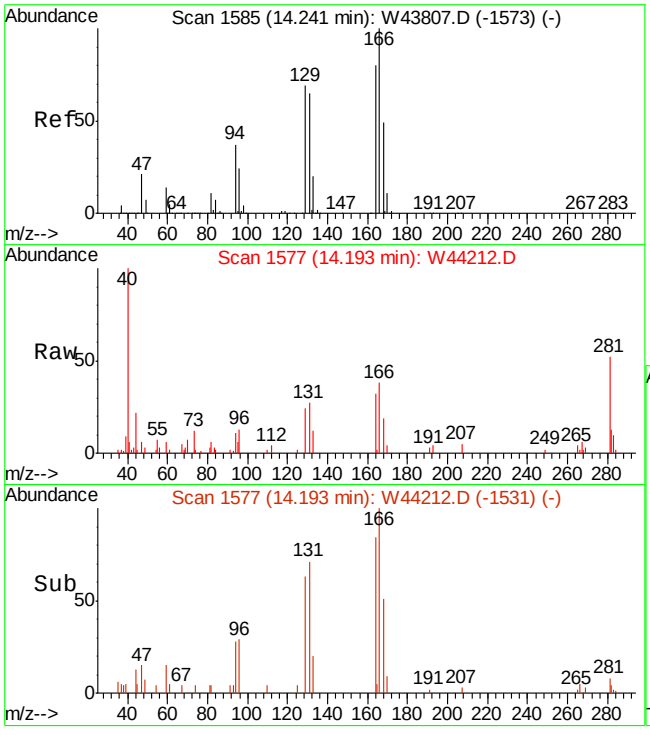


#66
TOLUENE
Concen: 3.13 PPBV
RT: 13.03 min Scan# 1386
Delta R.T. -0.02 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 92 Resp: 144018

Ion	Ratio	Lower	Upper
92	100		
91	167.8	148.0	188.0
65	17.7	0.5	40.5

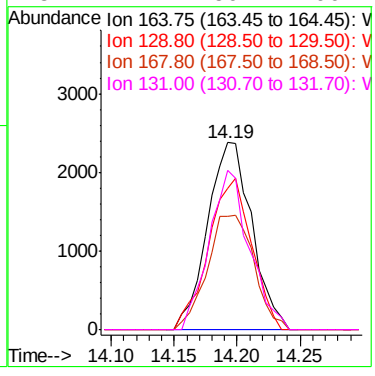


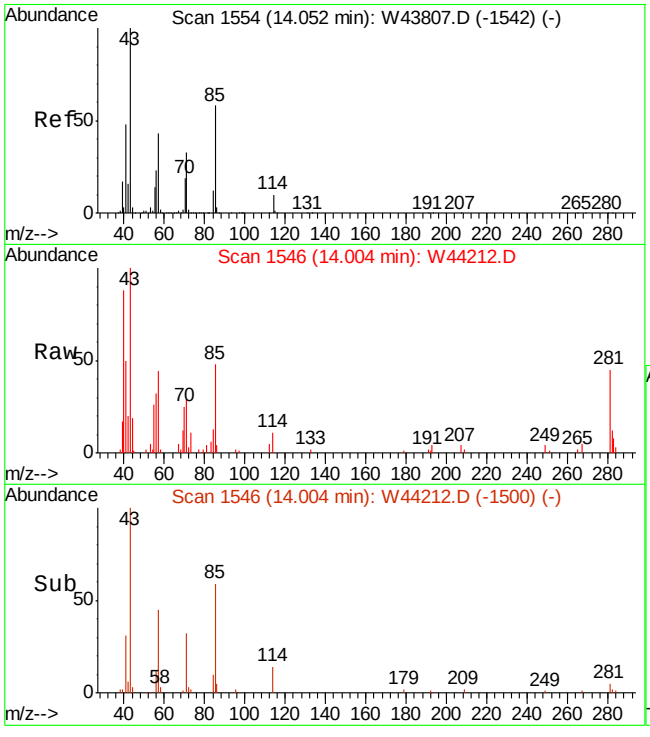


#72
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 14.19 min Scan# 1577
Delta R.T. -0.02 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion:164 Resp: 5799

Ion	Ratio	Lower	Upper
164	100		
129	78.6	62.5	102.5
168	64.3	41.7	81.7
131	77.4	59.1	99.1

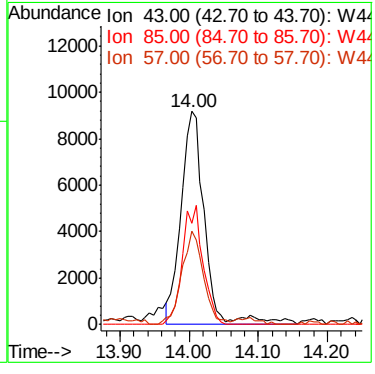


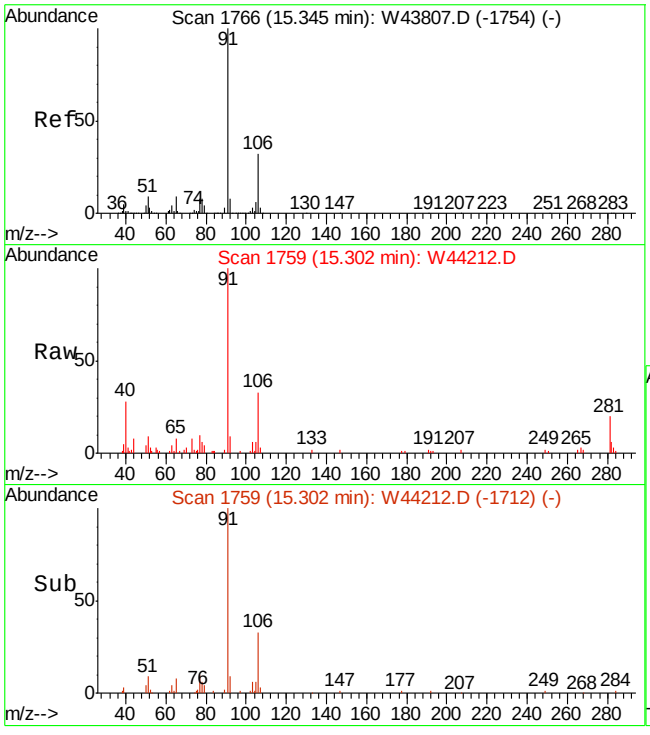


#75
OCTANE
Concen: 0.52 PPBV
RT: 14.00 min Scan# 1546
Delta R.T. -0.02 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 43 Resp: 21805

Ion	Ratio	Lower	Upper
43	100		
85	48.8	41.1	61.7
57	43.8	33.4	50.2

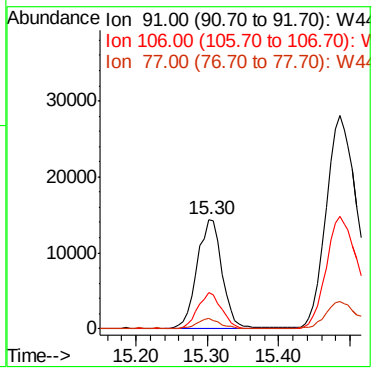


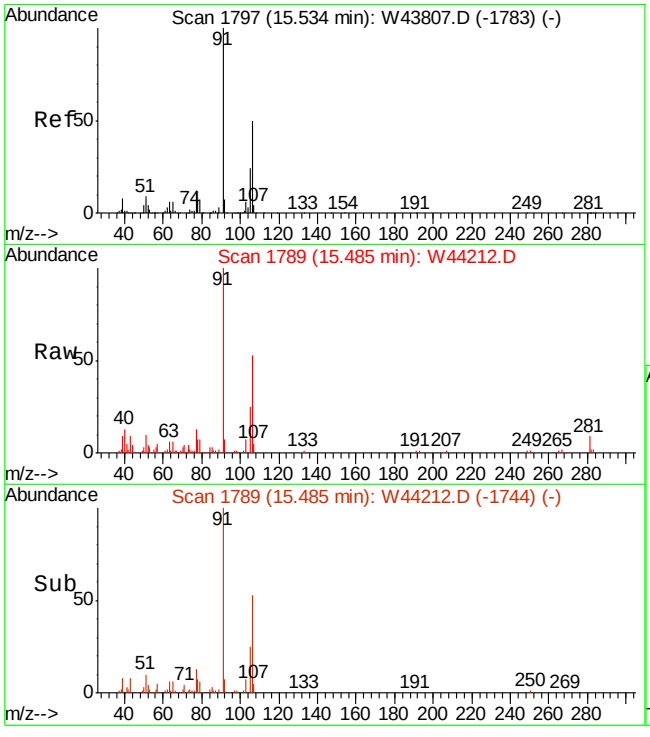


#78
ETHYLBENZENE
Concen: 0.44 PPBV
RT: 15.30 min Scan# 1759
Delta R.T. -0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 91 Resp: 35374

Ion	Ratio	Lower	Upper
91	100		
106	30.7	12.3	52.3
77	8.7	0.0	28.1

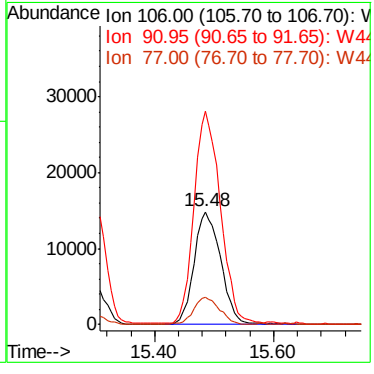


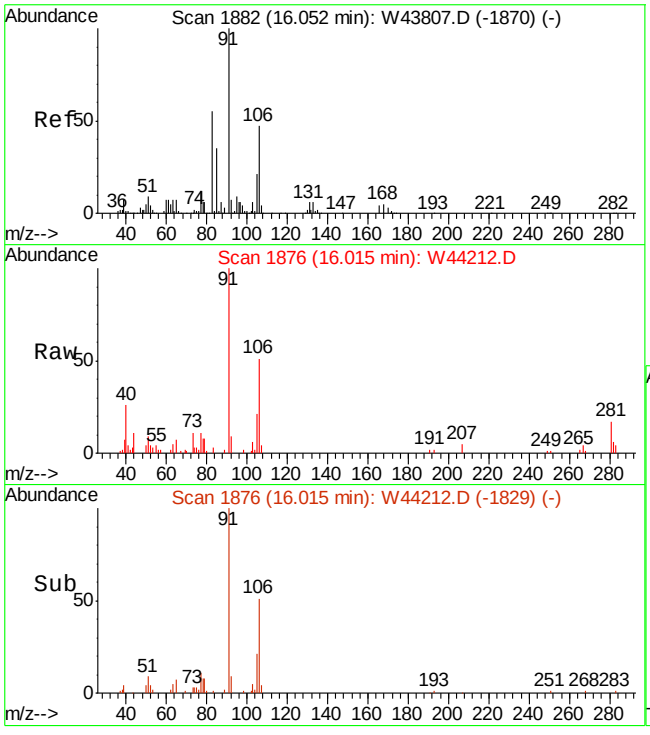


#79
m,p-XYLENE
Concen: 1.48 PPBV
RT: 15.48 min Scan# 1789
Delta R.T. -0.02 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion:106 Resp: 46221

Ion	Ratio	Lower	Upper
106	100		
91	189.1	151.2	226.8
77	24.6	18.7	28.1

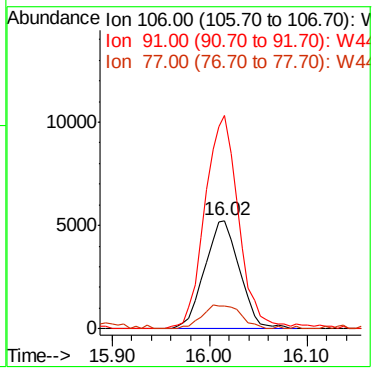


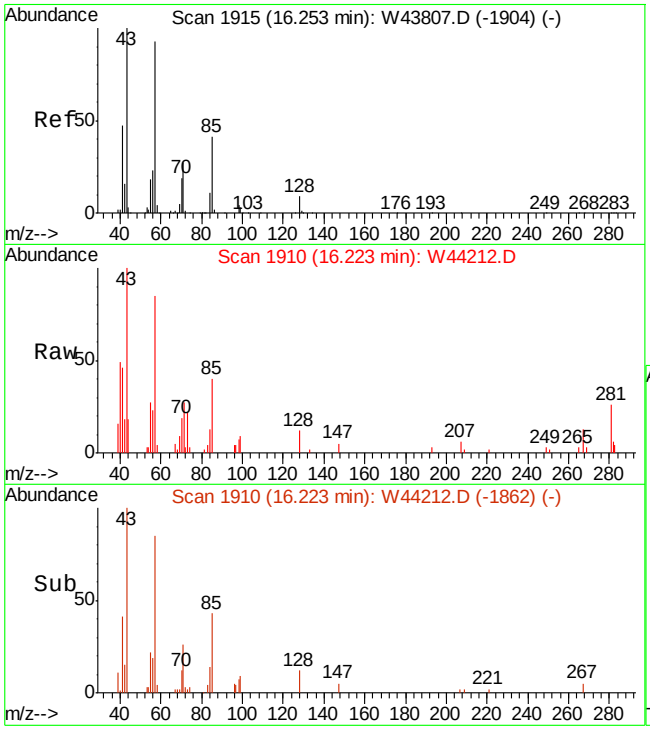


#80
o-XYLENE
Concen: 0.44 PPBV
RT: 16.02 min Scan# 1876
Delta R.T. -0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion:106 Resp: 13052

Ion	Ratio	Lower	Upper
106	100		
91	193.2	182.5	222.5
77	24.2	3.8	43.8

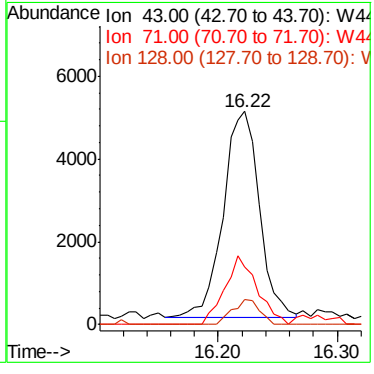


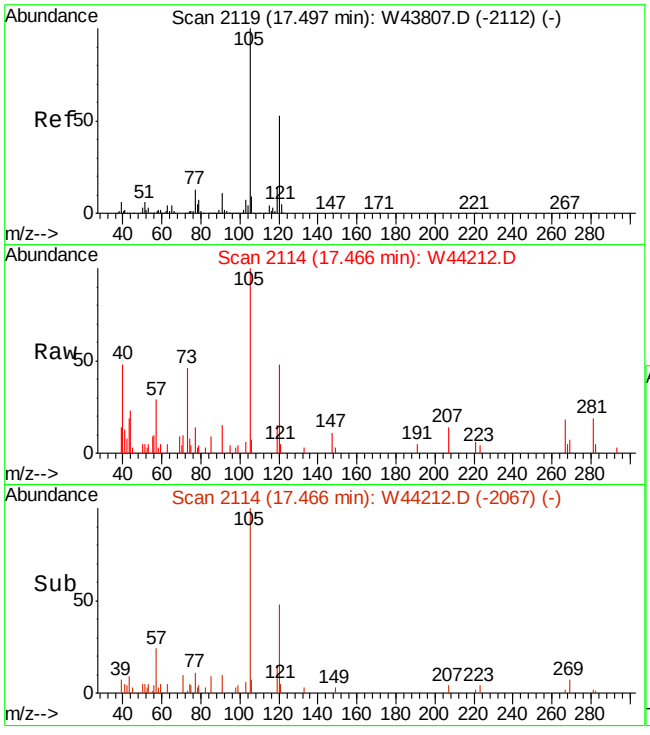


#83
NONANE
Concen: 0.27 PPBV
RT: 16.22 min Scan# 1910
Delta R.T. -0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion: 43 Resp: 10658

Ion	Ratio	Lower	Upper
43	100		
71	29.5	7.3	47.3
128	8.9	0.0	28.0

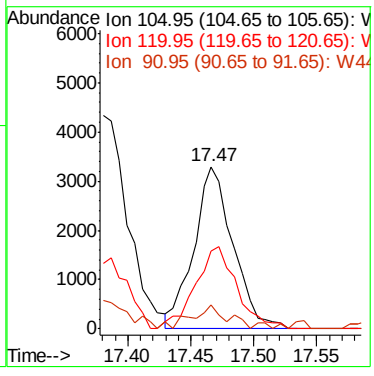


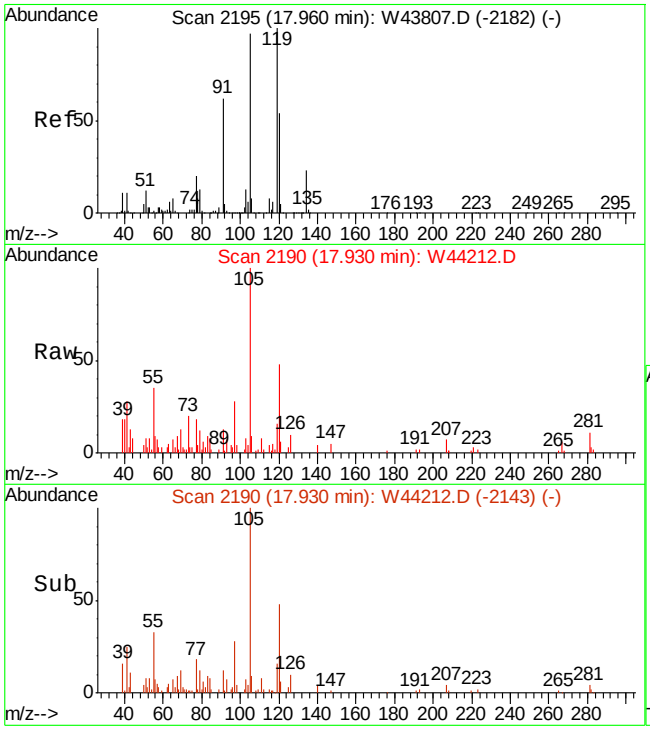


#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 17.47 min Scan# 2114
Delta R.T. -0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion:105 Resp: 7151

Ion	Ratio	Lower	Upper
105	100		
120	53.3	32.3	72.3
91	12.5	0.0	29.2

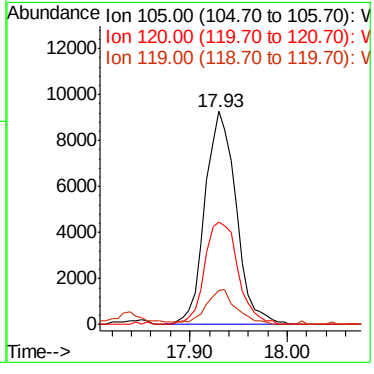




#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.36 PPBV
RT: 17.93 min Scan# 2190
Delta R.T. -0.01 min
Lab File: W44212.D
Acq: 21 Oct 2013 5:28 pm

Tgt Ion:105 Resp: 20522

Ion	Ratio	Lower	Upper
105	100		
120	51.7	39.1	79.1
119	15.6	102.1	142.1#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44215.D Vial: 1
Acq On : 21 Oct 2013 7:27 pm Operator: danat
Sample : jb50673-1 Inst : MSW
Misc : MS57076,VW1770,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 08:28:58 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	175421	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.51	114	857290	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	328336	10.00	PPBV	-0.02

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	389840	10.01	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 100.10%

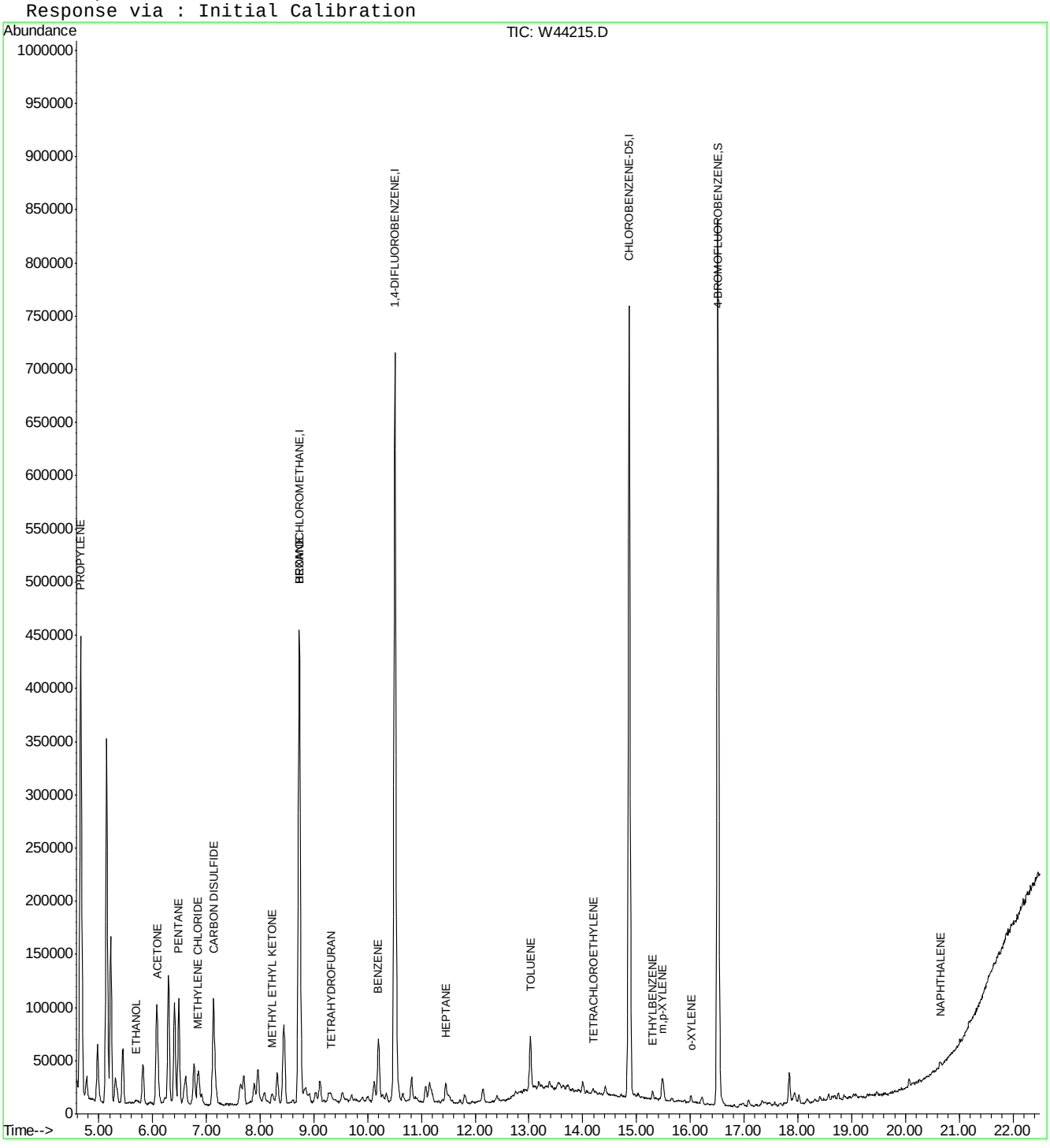
Target Compounds						Qvalue
6) PROPYLENE	4.66	41	302628	18.37	PPBV	96
20) ACETONE	6.10	58	26875	2.35	PPBV #	64
22) PENTANE	6.49	57	14108	2.48	PPBV #	92
26) CARBON DISULFIDE	7.13	76	210599	3.46	PPBV	99
27) ETHANOL	5.70	45	8004	1.04	PPBV #	74
30) METHYLENE CHLORIDE	6.84	84	14907	0.65	PPBV	97
36) TETRAHYDROFURAN	9.32	72	2669	0.25	PPBV #	77
37) HEXANE	8.74	57	31952	0.90	PPBV #	75
40) METHYL ETHYL KETONE	8.22	72	5704	0.54	PPBV #	64
51) BENZENE	10.20	78	70314	1.06	PPBV	98
62) HEPTANE	11.45	43	9533	0.26	PPBV	97
66) TOLUENE	13.02	92	31545	0.68	PPBV	97
72) TETRACHLOROETHYLENE	14.20	164	1322	0.05	PPBV	95
78) ETHYLBENZENE	15.30	91	8099	0.10	PPBV	97
79) m,p-XYLENE	15.48	106	10295	0.33	PPBV	88
80) o-XYLENE	16.01	106	2938	0.10	PPBV	92
106) NAPHTHALENE	20.65	128	1607	0.10	PPBV	92

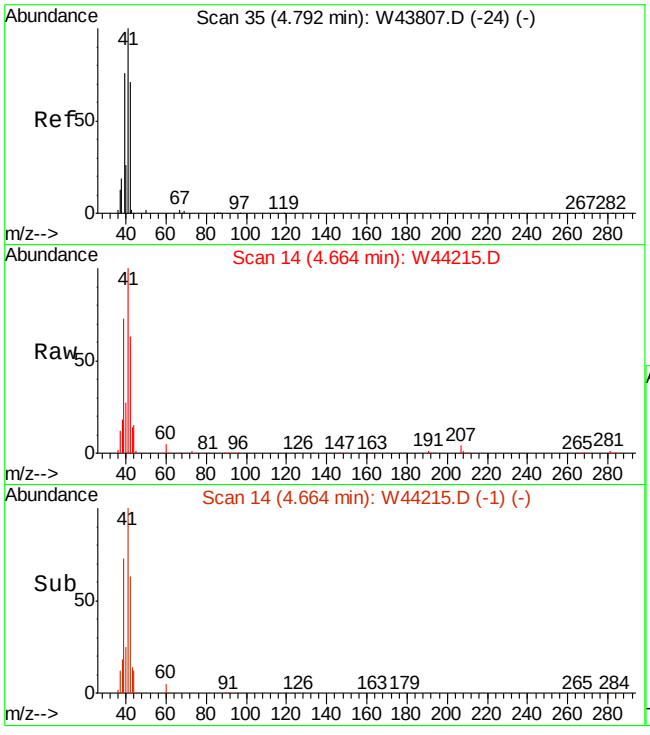
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44215.D Vial: 1
Acq On : 21 Oct 2013 7:27 pm Operator: danat
Sample : jb50673-1 Inst : MSW
Misc : MS57076,VW1770,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 9:07 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

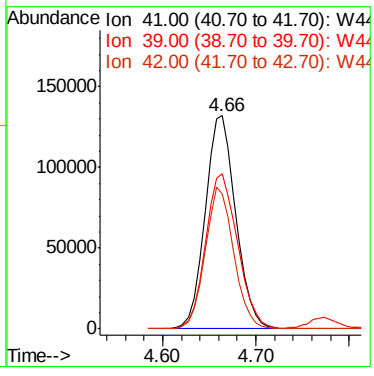


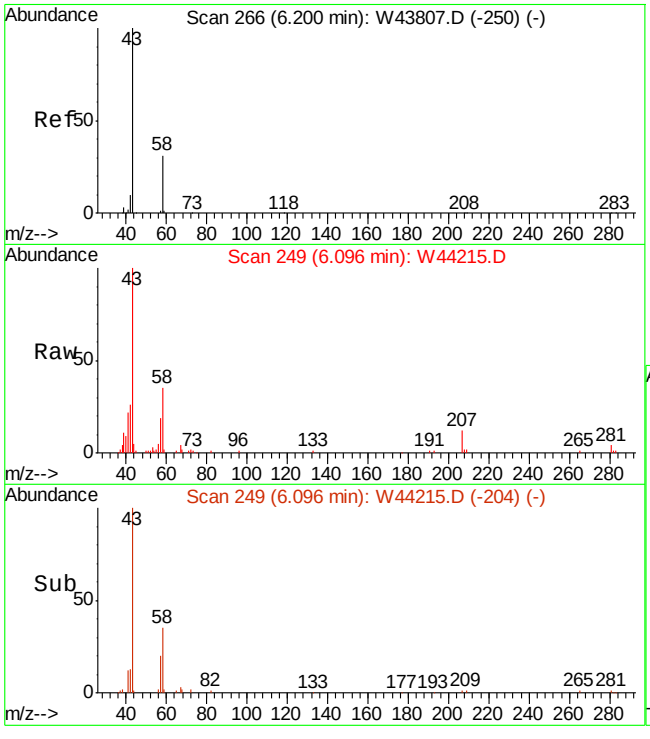


#6
PROPYLENE
Concen: 18.37 PPBV
RT: 4.66 min Scan# 14
Delta R.T. -0.04 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 41 Resp: 302628

Ion	Ratio	Lower	Upper
41	100		
39	73.0	48.7	88.7
42	63.3	44.9	84.9

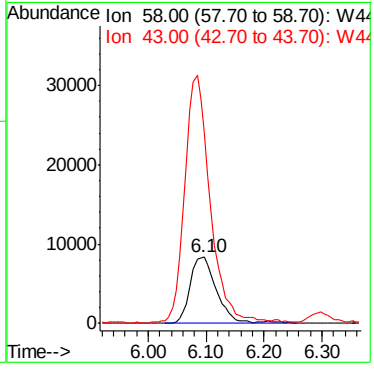


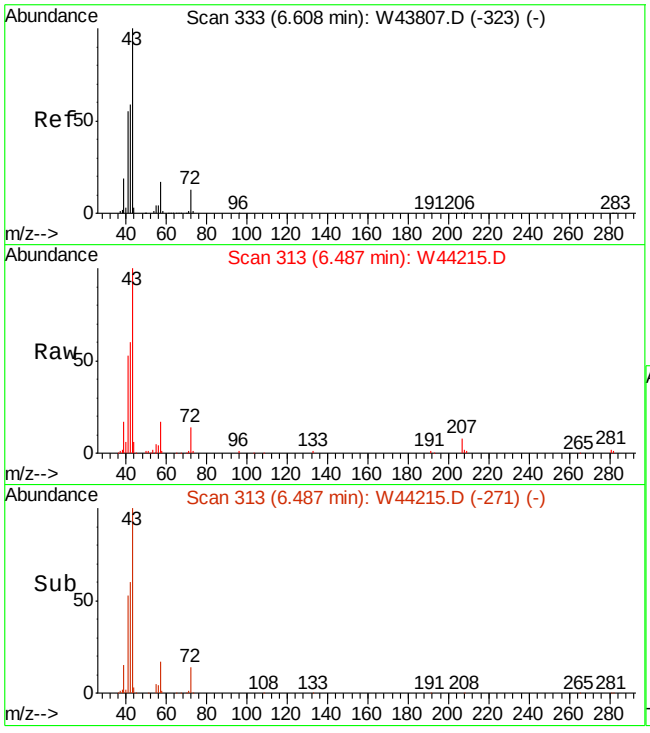


#20
ACETONE
Concen: 2.35 PPBV
RT: 6.10 min Scan# 249
Delta R.T. -0.02 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 58 Resp: 26875

Ion	Ratio	Lower	Upper
58	100		
43	359.9	270.7	310.7#

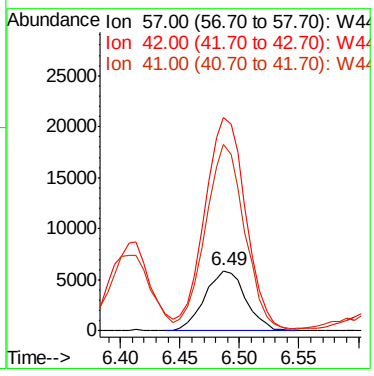


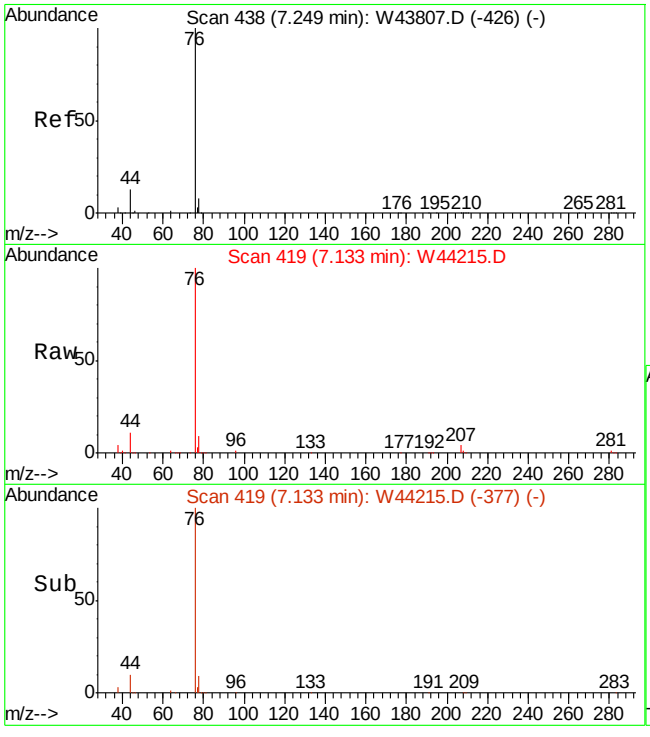


#22
PENTANE
Concen: 2.48 PPBV
RT: 6.49 min Scan# 313
Delta R.T. -0.04 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 57 Resp: 14108

Ion	Ratio	Lower	Upper
57	100		
42	348.5	352.7	392.7#
41	295.4	286.0	326.0

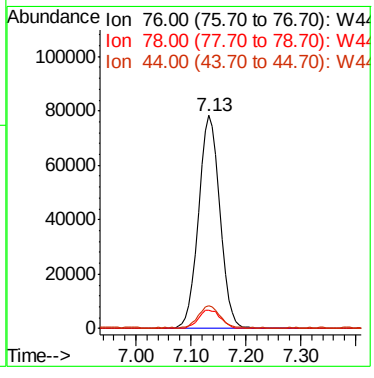


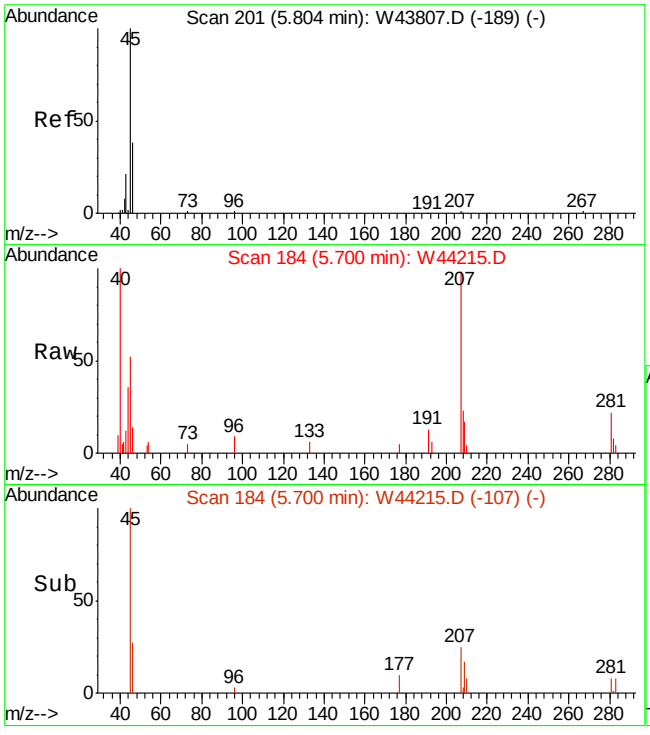


#26
CARBON DISULFIDE
Concen: 3.46 PPBV
RT: 7.13 min Scan# 419
Delta R.T. -0.04 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 76 Resp: 210599

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.0
44	10.7	0.0	31.4

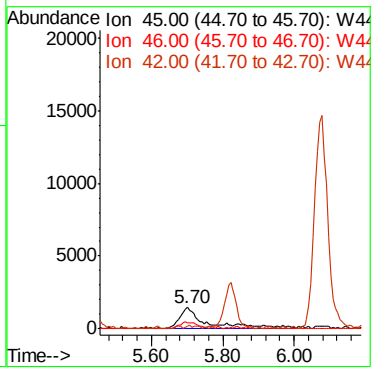


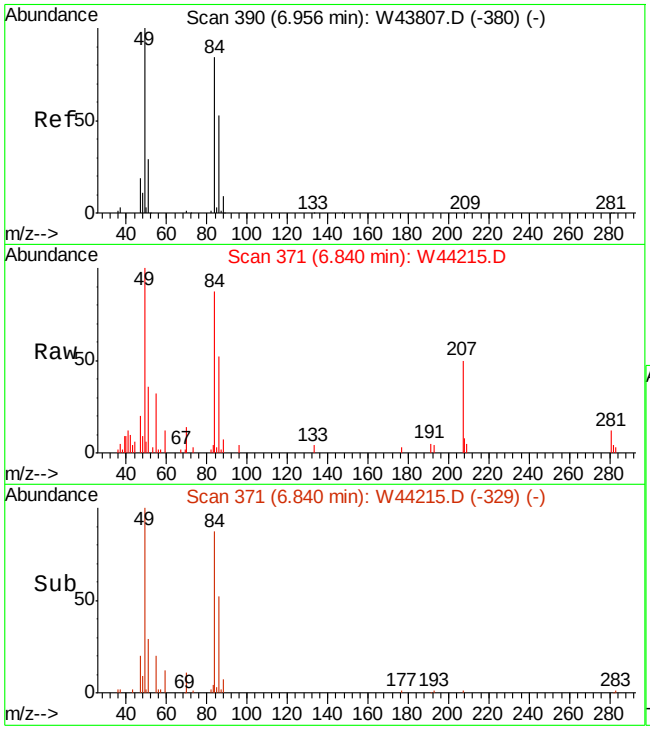


#27
ETHANOL
Concen: 1.04 PPBV
RT: 5.70 min Scan# 184
Delta R.T. -0.03 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 45 Resp: 8004

Ion	Ratio	Lower	Upper
45	100		
46	22.0	18.3	58.3
42	0.0	0.0	27.7

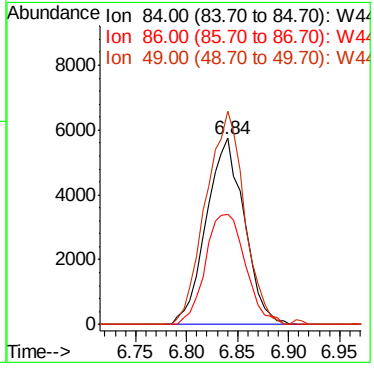


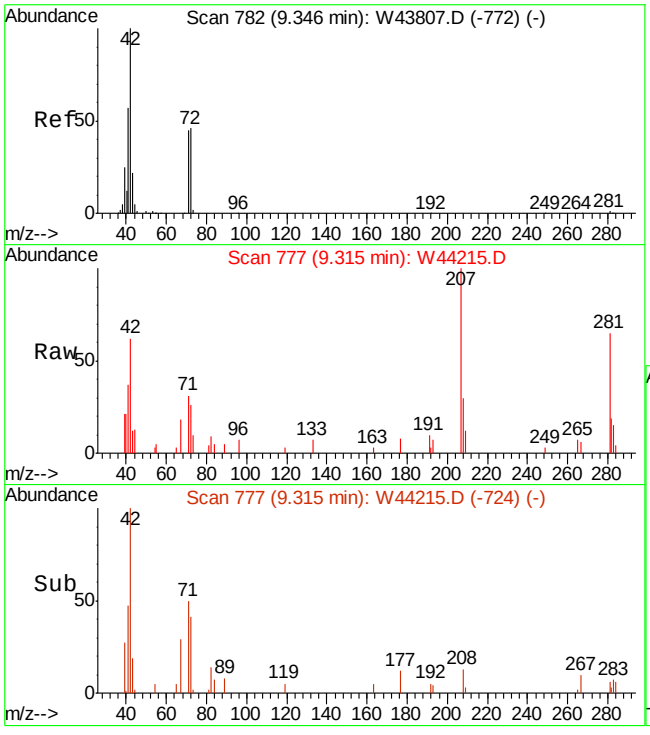


#30
METHYLENE CHLORIDE
Concen: 0.65 PPBV
RT: 6.84 min Scan# 371
Delta R.T. -0.04 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 84 Resp: 14907

Ion	Ratio	Lower	Upper
84	100		
86	62.4	43.2	83.2
49	115.9	0.0	320.8

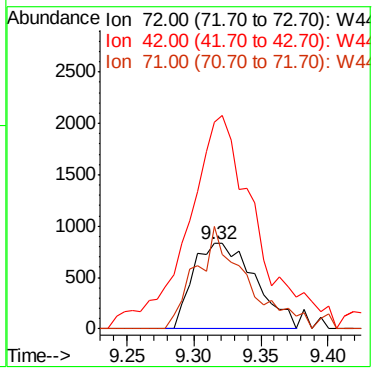


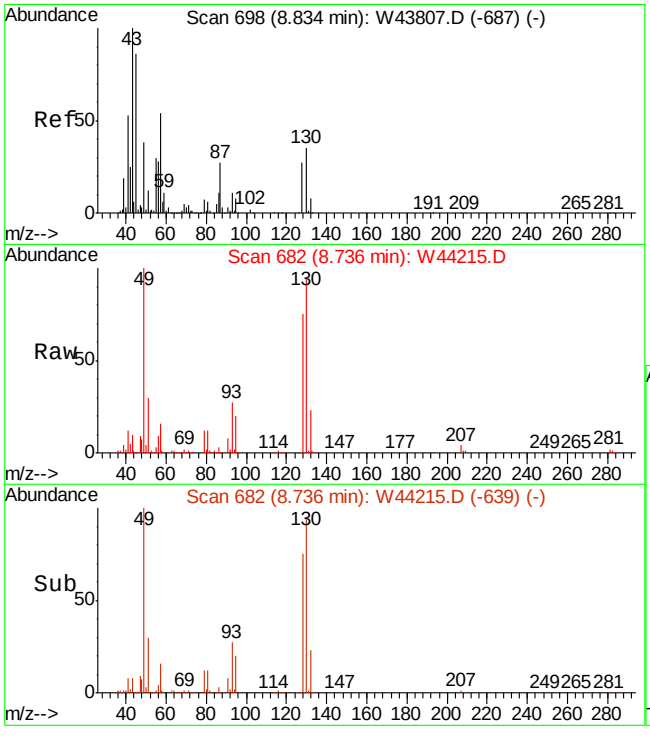


#36
TETRAHYDROFURAN
Concen: 0.25 PPBV
RT: 9.32 min Scan# 777
Delta R.T. 0.02 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 72 Resp: 2669

Ion	Ratio	Lower	Upper
72	100		
42	277.6	206.0	246.0#
71	98.0	74.0	114.0

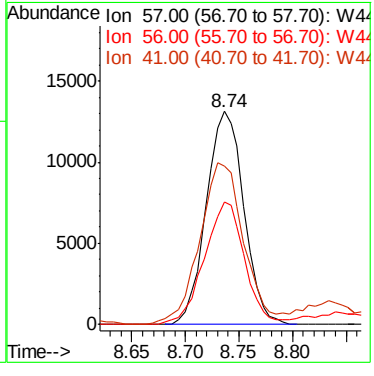


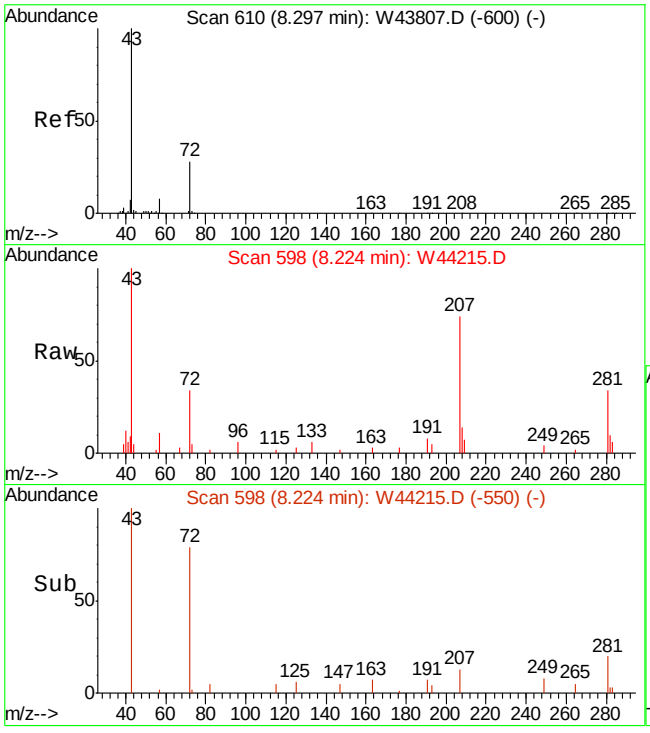


#37
HEXANE
Concen: 0.90 PPBV
RT: 8.74 min Scan# 682
Delta R.T. -0.04 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 57 Resp: 31952

Ion	Ratio	Lower	Upper
57	100		
56	70.6	32.2	72.2
41	118.9	74.7	114.7#

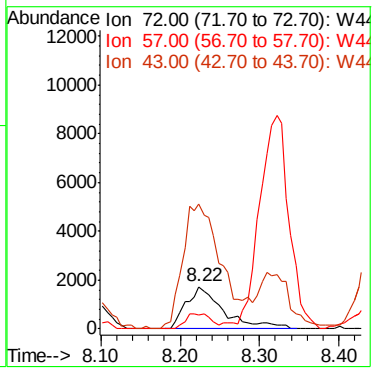


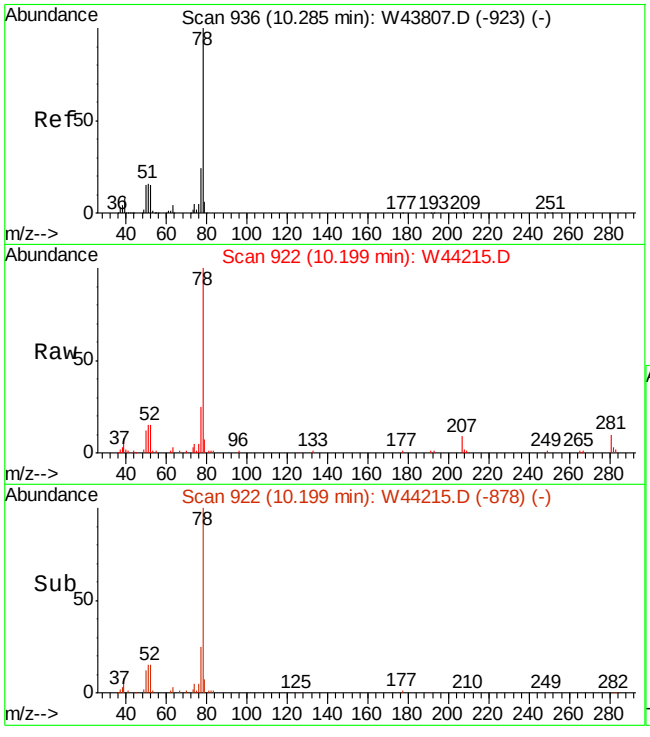


#40
METHYL ETHYL KETONE
Concen: 0.54 PPBV
RT: 8.22 min Scan# 598
Delta R.T. -0.01 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 72 Resp: 5704

Ion	Ratio	Lower	Upper
72	100		
57	32.0	10.3	50.3
43	296.3	364.5	404.5#

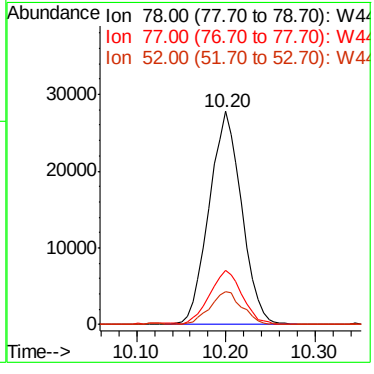




#51
BENZENE
Concen: 1.06 PPBV
RT: 10.20 min Scan# 922
Delta R.T. -0.03 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

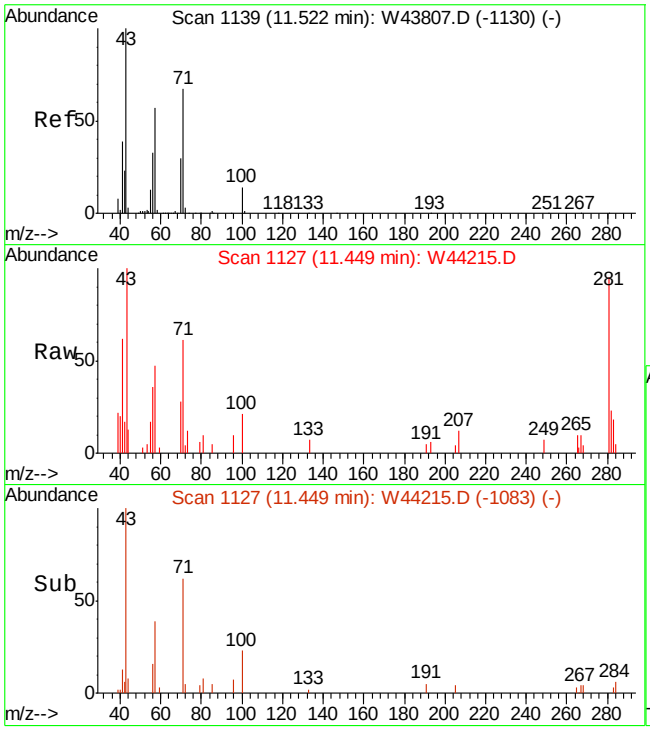
Tgt Ion: 78 Resp: 70314

Ion	Ratio	Lower	Upper
78	100		
77	25.4	3.7	43.7
52	15.3	0.0	35.0



7.1.2

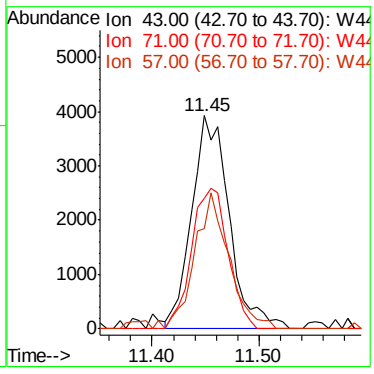
7

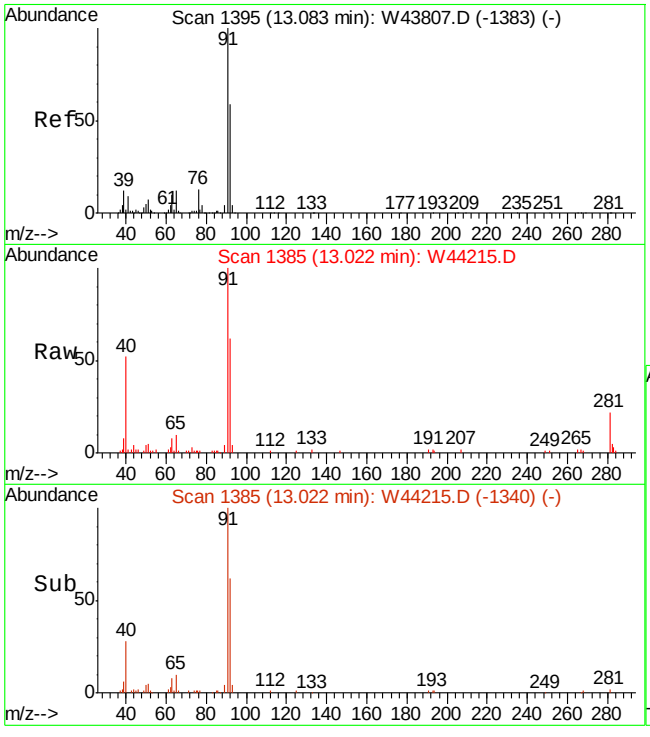


#62
HEPTANE
Concen: 0.26 PPBV
RT: 11.45 min Scan# 1127
Delta R.T. -0.03 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 43 Resp: 9533

Ion	Ratio	Lower	Upper
43	100		
71	64.2	43.7	83.7
57	58.2	34.7	74.7

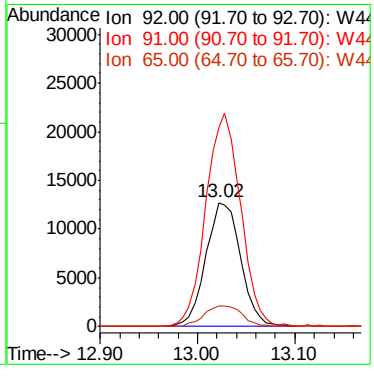


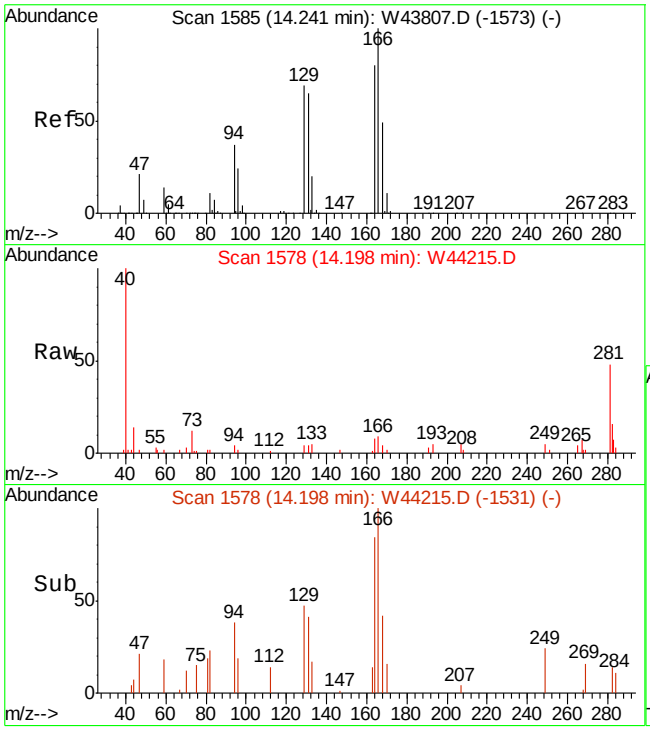


#66
TOLUENE
Concen: 0.68 PPBV
RT: 13.02 min Scan# 1385
Delta R.T. -0.02 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 92 Resp: 31545

Ion	Ratio	Lower	Upper
92	100		
91	172.3	148.0	188.0
65	18.1	0.5	40.5

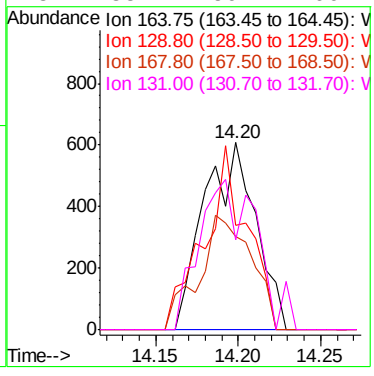


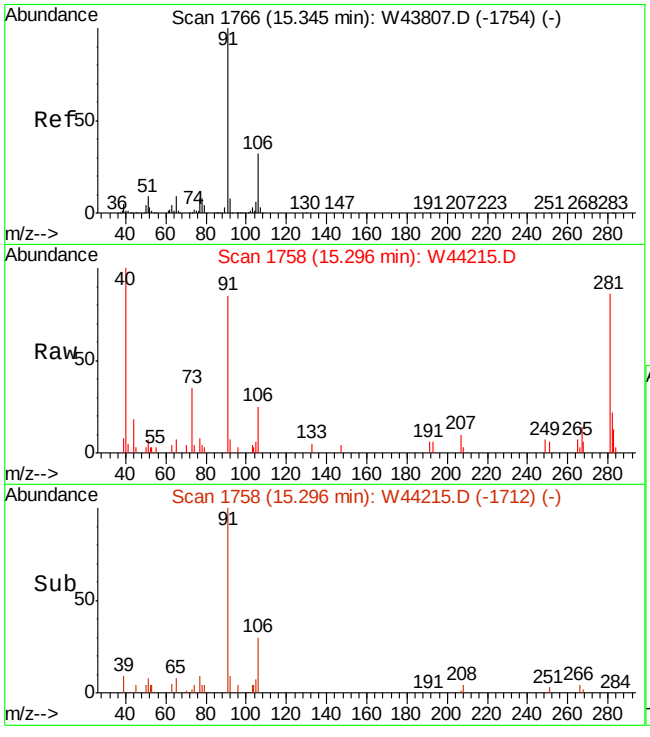


#72
TETRACHLOROETHYLENE
Concen: 0.05 PPBV
RT: 14.20 min Scan# 1578
Delta R.T. -0.01 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion:164 Resp: 1322

Ion	Ratio	Lower	Upper
164	100		
129	80.6	62.5	102.5
168	61.7	41.7	81.7
131	88.7	59.1	99.1

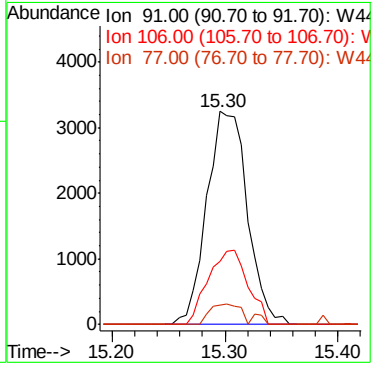


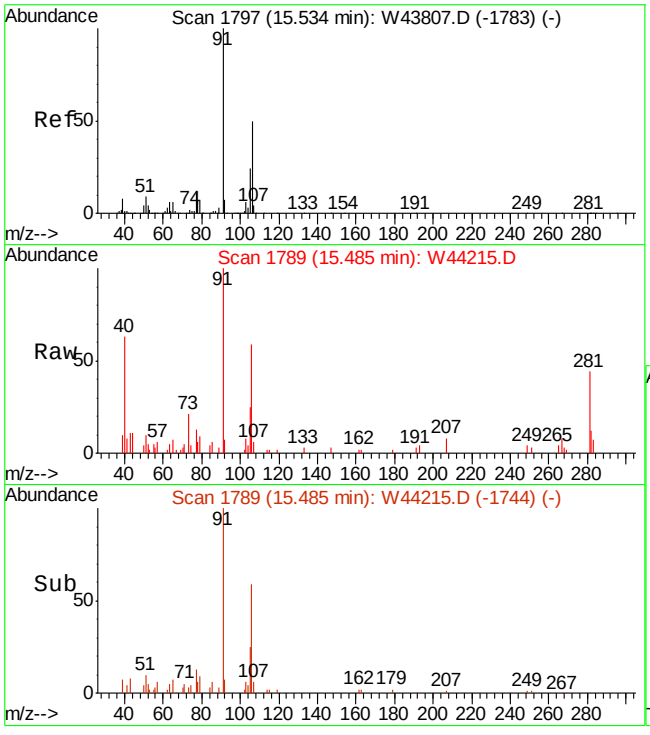


#78
ETHYLBENZENE
Concen: 0.10 PPBV
RT: 15.30 min Scan# 1758
Delta R.T. -0.02 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion: 91 Resp: 8099

Ion	Ratio	Lower	Upper
91	100		
106	34.0	12.3	52.3
77	8.5	0.0	28.1

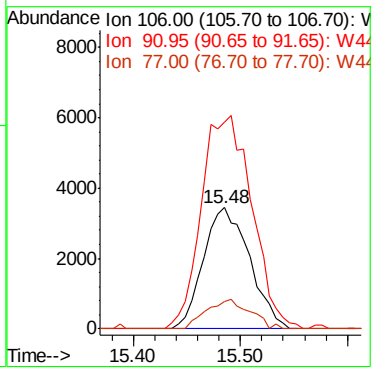


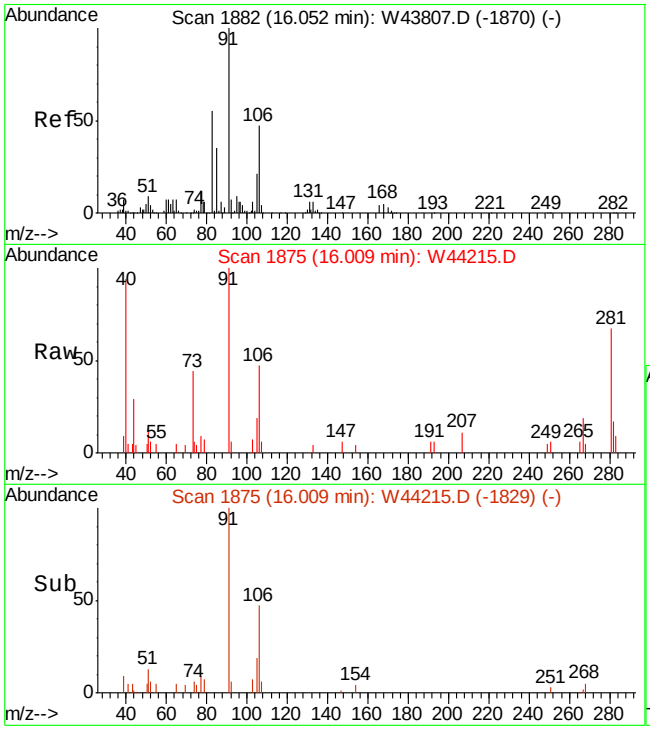


#79
m,p-XYLENE
Concen: 0.33 PPBV
RT: 15.48 min Scan# 1789
Delta R.T. -0.02 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion:106 Resp: 10295

Ion	Ratio	Lower	Upper
106	100		
91	170.5	151.2	226.8
77	22.4	18.7	28.1

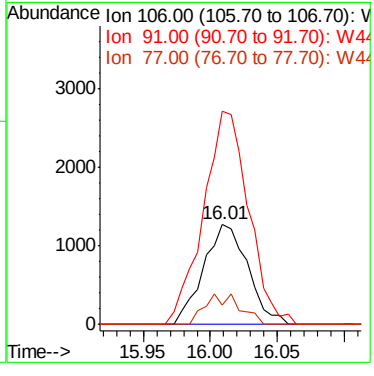




#80
o-XYLENE
Concen: 0.10 PPBV
RT: 16.01 min Scan# 1875
Delta R.T. -0.02 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

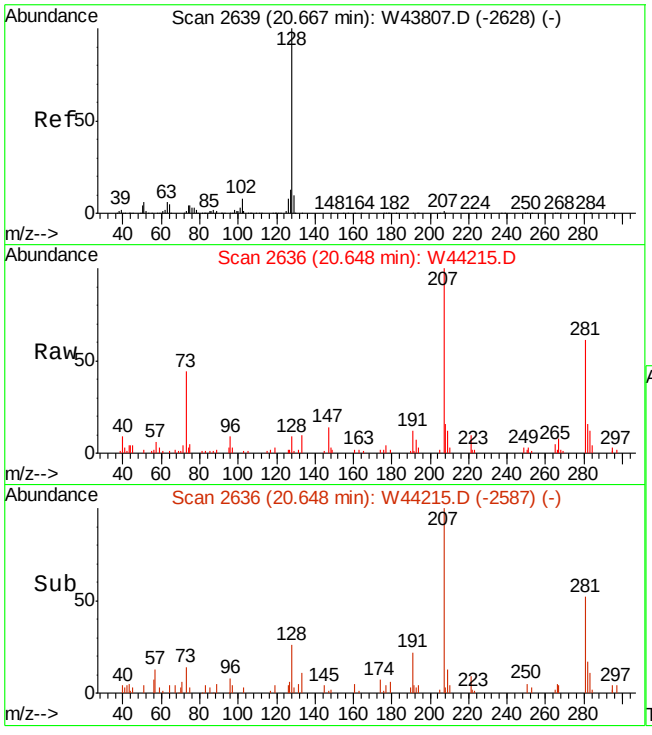
Tgt Ion:106 Resp: 2938

Ion	Ratio	Lower	Upper
106	100		
91	216.8	182.5	222.5
77	24.0	3.8	43.8



7.1.2

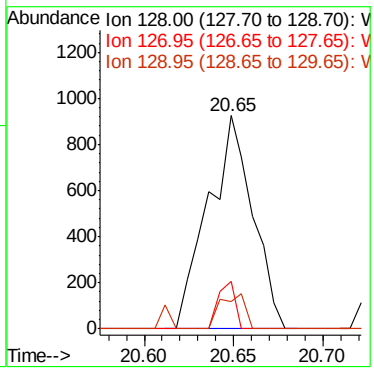
7



#106
NAPHTHALENE
Concen: 0.10 PPBV
RT: 20.65 min Scan# 2636
Delta R.T. 0.00 min
Lab File: W44215.D
Acq: 21 Oct 2013 7:27 pm

Tgt Ion:128 Resp: 1607

Ion	Ratio	Lower	Upper
128	100		
127	8.4	0.0	32.9
129	9.1	0.0	30.8



7.1.2

7

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44213.D Vial: 2
Acq On : 21 Oct 2013 6:08 pm Operator: danat
Sample : jb50673-2 Inst : MSW
Misc : MS57076,VW1770,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 08:53:29 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

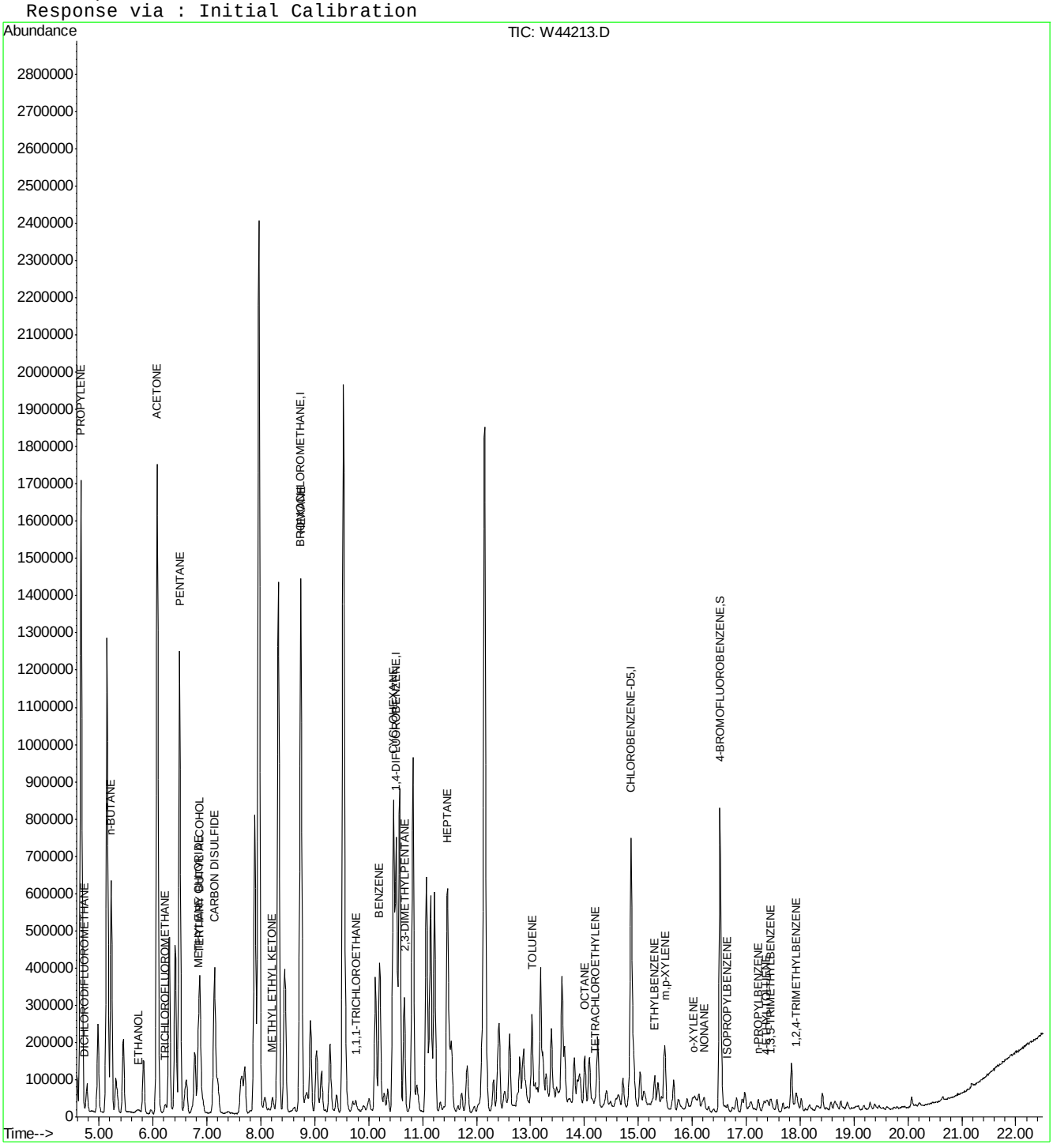
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	174550	10.00	PPBV	-0.04
50) 1,4-DIFLUOROBENZENE	10.51	114	817371	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	351957	10.00	PPBV	-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	395563	9.47	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.70%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.72	85	7115	0.15	PPBV	98
6) PROPYLENE	4.66	41	1180623	72.01	PPBV	98
11) n-BUTANE	5.22	58	102233	23.13	PPBV	97
18) TRICHLOROFLUOROMETHANE	6.21	101	7542	0.15	PPBV	98
20) ACETONE	6.08	58	126819	11.16	PPBV #	1
22) PENTANE	6.49	57	174892	30.85	PPBV	93
26) CARBON DISULFIDE	7.14	76	820254	13.54	PPBV	99
27) ETHANOL	5.72	45	24494	3.20	PPBV #	96
30) METHYLENE CHLORIDE	6.84	84	108155	4.73	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.85	59	24410	0.76	PPBV #	60
37) HEXANE	8.74	57	683598	19.31	PPBV #	85
40) METHYL ETHYL KETONE	8.21	72	17639m	1.68	PPBV	
47) 1,1,1-TRICHLOROETHANE	9.77	97	7953	0.19	PPBV	99
51) BENZENE	10.21	78	481250	7.63	PPBV	100
52) CYCLOHEXANE	10.46	84	470945	16.45	PPBV	94
53) 2,3-DIMETHYLPENTANE	10.66	71	69254	4.78	PPBV	99
62) HEPTANE	11.46	43	294910	8.47	PPBV	96
66) TOLUENE	13.03	92	149305	3.38	PPBV	98
72) TETRACHLOROETHYLENE	14.19	164	3984	0.13	PPBV	94
75) OCTANE	14.00	43	57592	1.28	PPBV	91
78) ETHYLBENZENE	15.30	91	99104	1.14	PPBV	98
79) m,p-XYLENE	15.48	106	52839	1.56	PPBV	99
80) o-XYLENE	16.02	106	12616	0.39	PPBV #	88
83) NONANE	16.22	43	12764	0.30	PPBV	89
87) ISOPROPYLBENZENE	16.66	105	12892	0.14	PPBV	95
90) n-PROPYLBENZENE	17.22	120	7031	0.29	PPBV #	16
91) 4-ETHYLTOLUENE	17.37	105	18403m	0.24	PPBV	
92) 1,3,5-TRIMETHYLBENZENE	17.46	105	20154	0.30	PPBV #	95
95) 1,2,4-TRIMETHYLBENZENE	17.93	105	21016	0.34	PPBV #	31

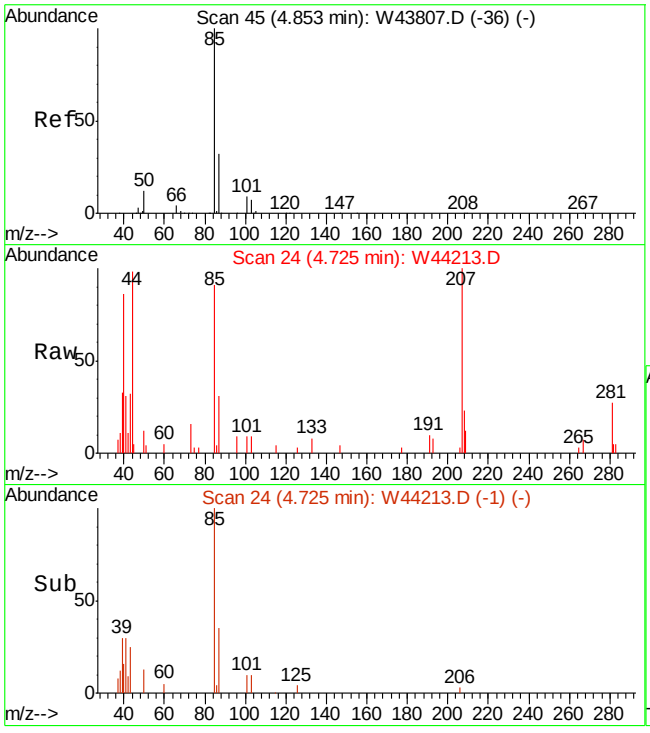
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44213.D Vial: 2
Acq On : 21 Oct 2013 6:08 pm Operator: danat
Sample : jb50673-2 Inst : MSW
Misc : MS57076,VW1770,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 8:58 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

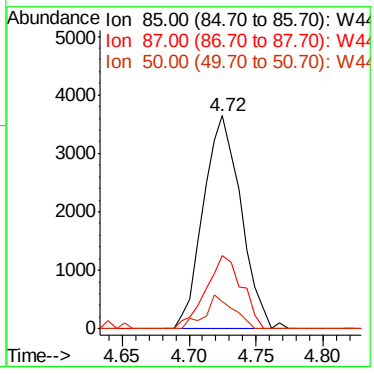


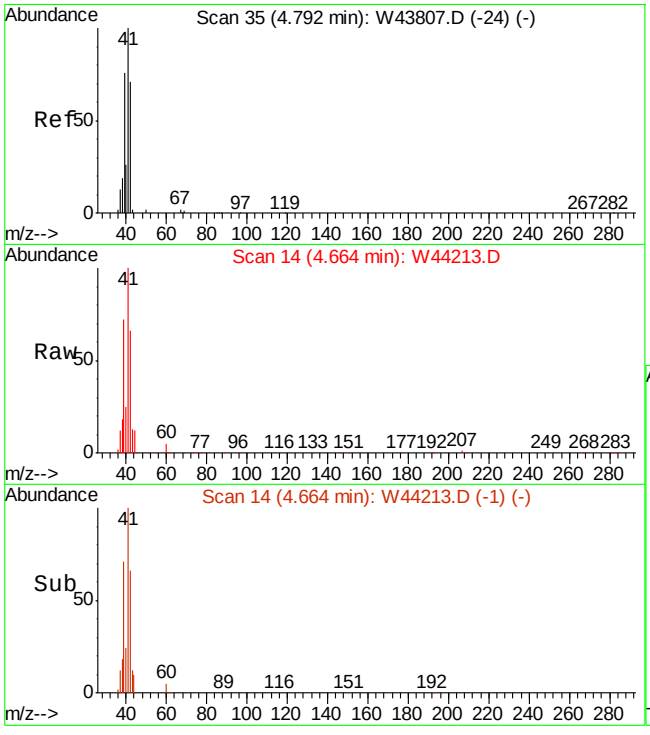


#5
DICHLORODIFLUOROMETHANE
Concen: 0.15 PPBV
RT: 4.72 min Scan# 24
Delta R.T. -0.05 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 85 Resp: 7115

Ion	Ratio	Lower	Upper
85	100		
87	33.1	12.1	52.1
50	12.1	0.0	30.6

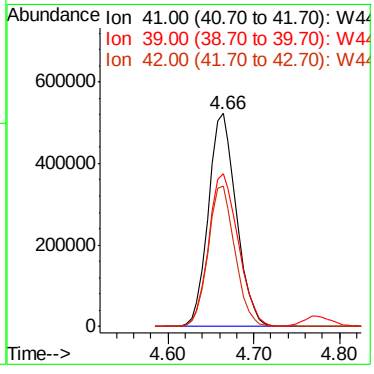


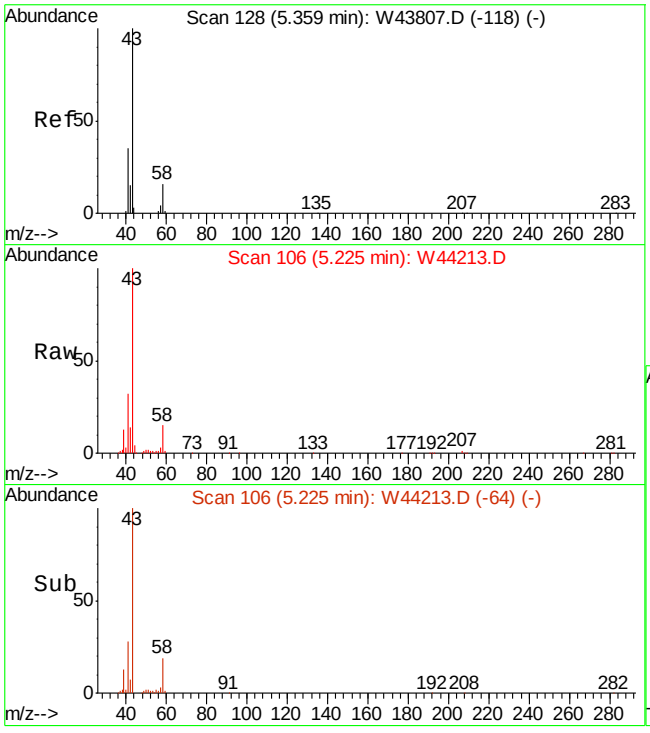


#6
PROPYLENE
Concen: 72.01 PPBV
RT: 4.66 min Scan# 14
Delta R.T. -0.04 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 41 Resp: 1180623

Ion	Ratio	Lower	Upper
41	100		
39	71.5	48.7	88.7
42	65.8	44.9	84.9

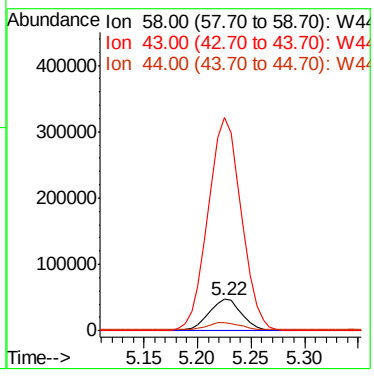


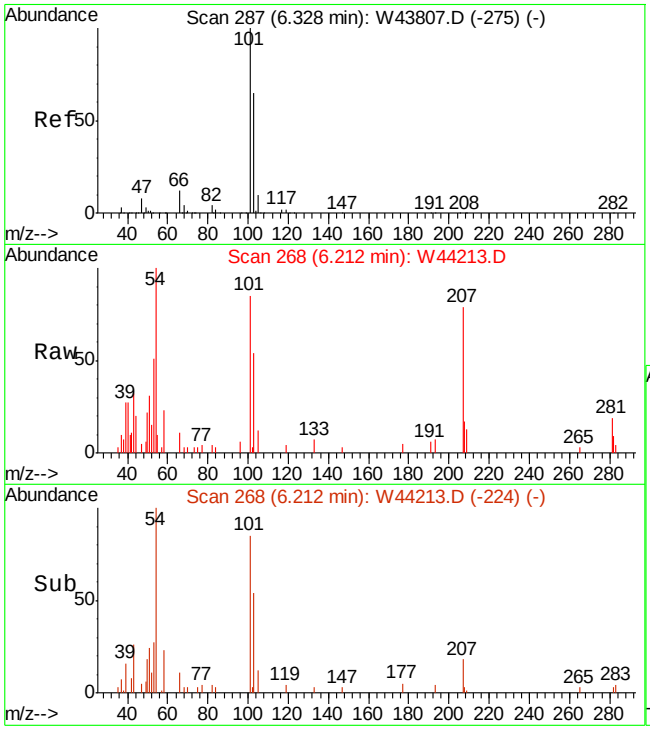


#11
n-BUTANE
Concen: 23.13 PPBV
RT: 5.22 min Scan# 106
Delta R.T. -0.04 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 58 Resp: 102233

Ion	Ratio	Lower	Upper
58	100		
43	679.8	552.0	828.0
44	23.2	20.4	30.6

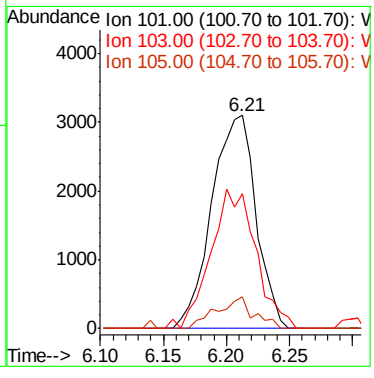


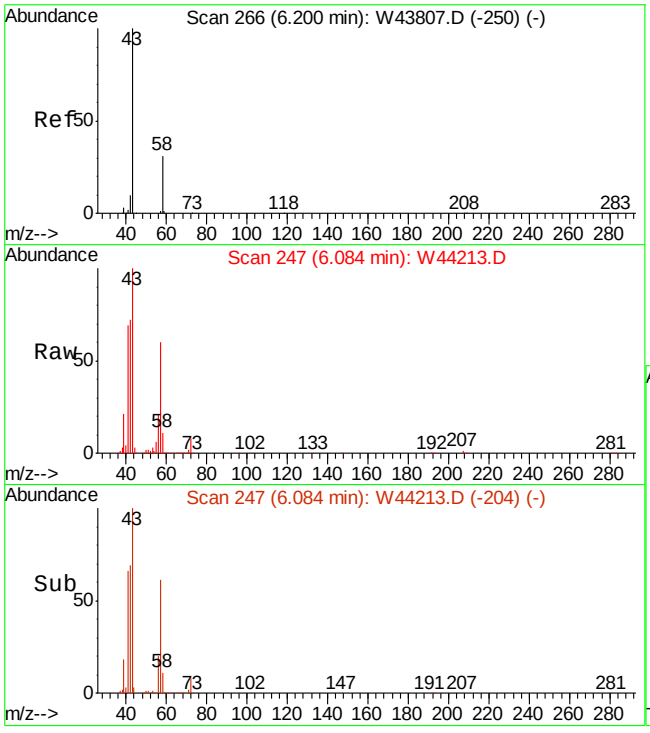


#18
TRICHLOROFLUOROMETHANE
Concen: 0.15 PPBV
RT: 6.21 min Scan# 268
Delta R.T. -0.03 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:101 Resp: 7542

Ion	Ratio	Lower	Upper
101	100		
103	66.5	45.1	85.1
105	12.5	0.0	30.4

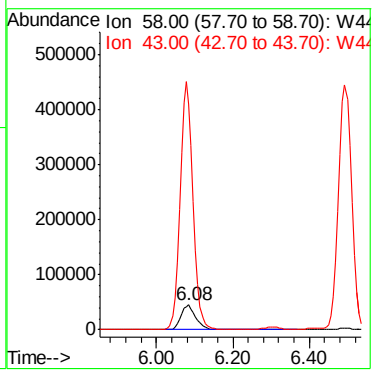


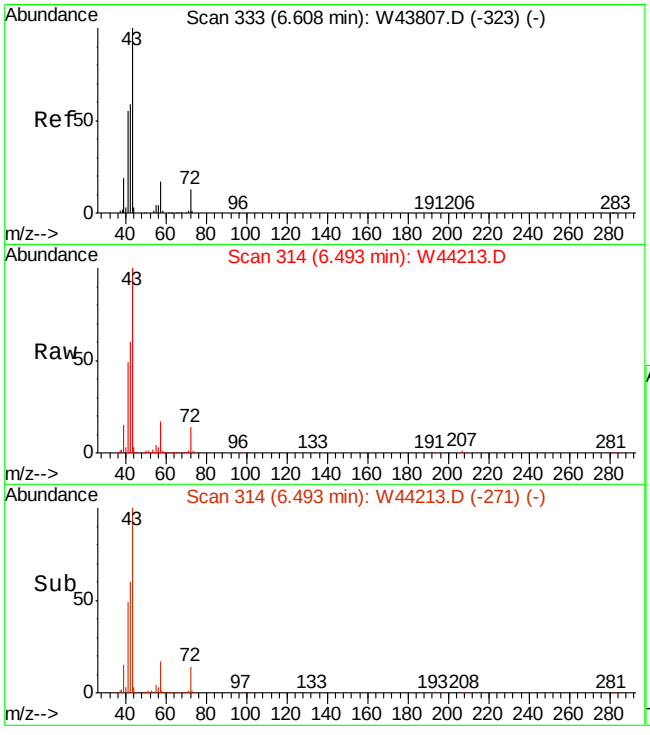


#20
ACETONE
Concen: 11.16 PPBV
RT: 6.08 min Scan# 247
Delta R.T. -0.04 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 58 Resp: 126819

Ion	Ratio	Lower	Upper
58	100		
43	844.5	270.7	310.7#

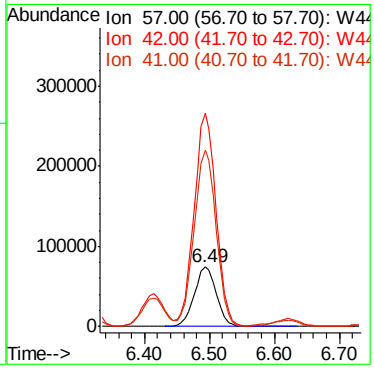


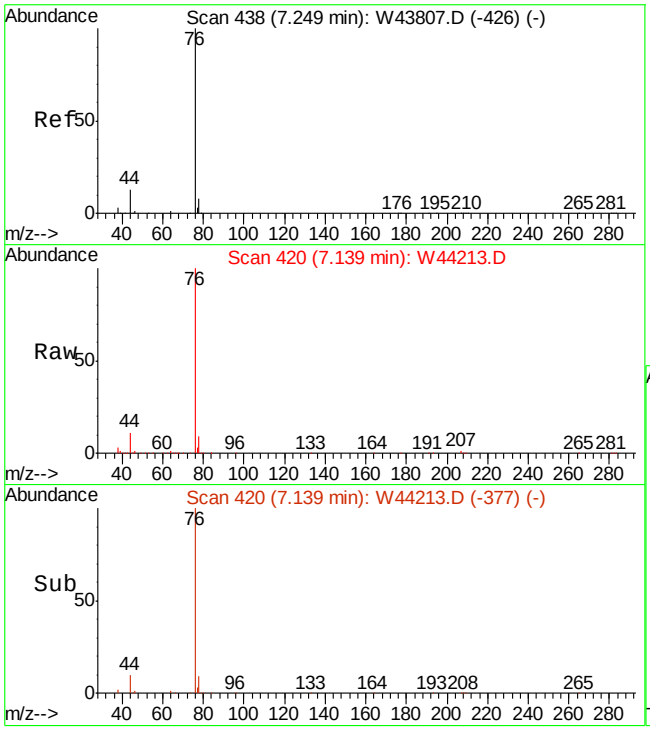


#22
PENTANE
Concen: 30.85 PPBV
RT: 6.49 min Scan# 314
Delta R.T. -0.04 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 57 Resp: 174892

Ion	Ratio	Lower	Upper
57	100		
42	354.0	352.7	392.7
41	293.4	286.0	326.0

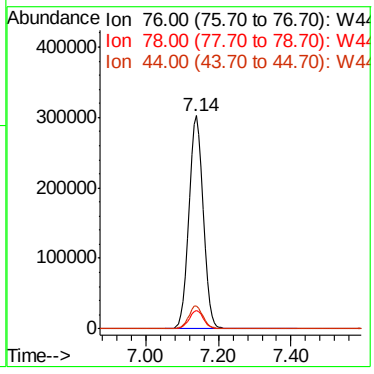


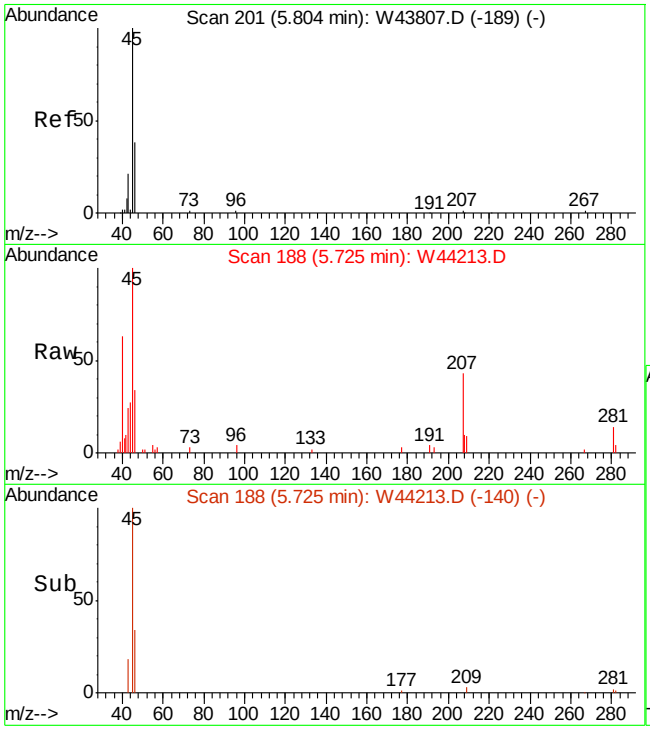


#26
CARBON DISULFIDE
Concen: 13.54 PPBV
RT: 7.14 min Scan# 420
Delta R.T. -0.04 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 76 Resp: 820254

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	29.0
44	10.7	0.0	31.4

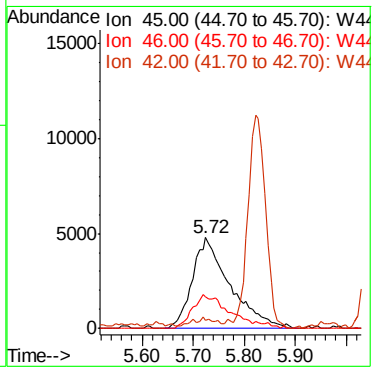


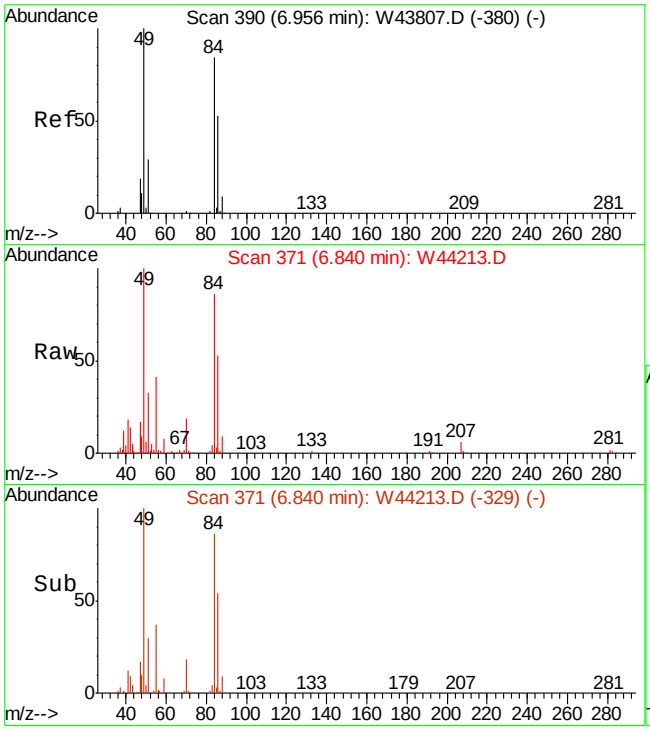


#27
ETHANOL
Concen: 3.20 PPBV
RT: 5.72 min Scan# 188
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 45 Resp: 24494

Ion	Ratio	Lower	Upper
45	100		
46	37.9	18.3	58.3
42	0.0	0.0	27.7

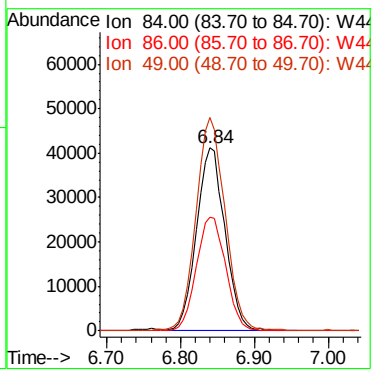


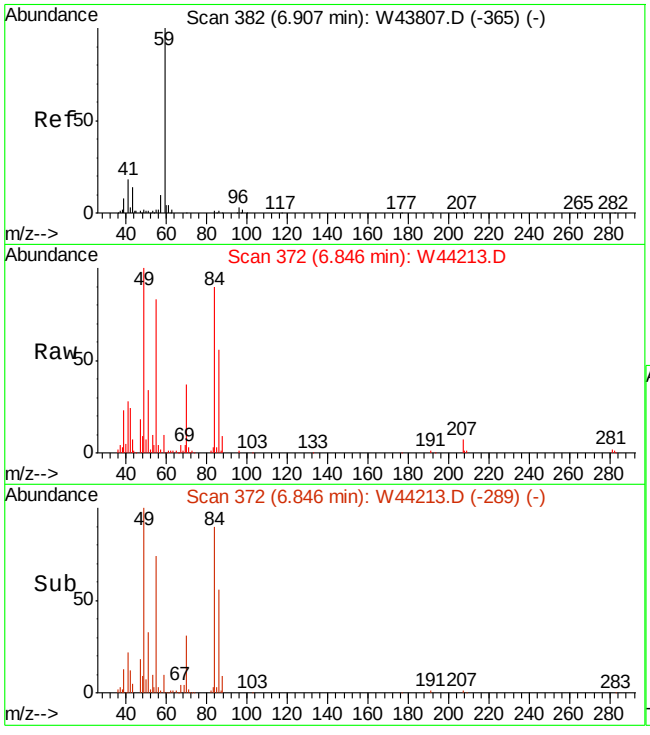


#30
METHYLENE CHLORIDE
Concen: 4.73 PPBV
RT: 6.84 min Scan# 371
Delta R.T. -0.04 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 84 Resp: 108155

Ion	Ratio	Lower	Upper
84	100		
86	63.9	43.2	83.2
49	119.9	0.0	320.8

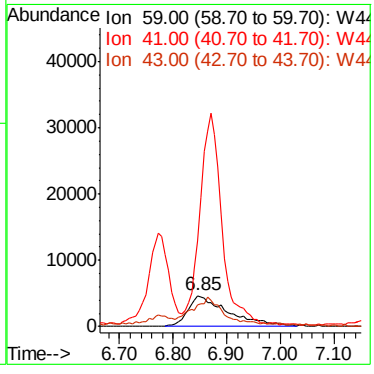


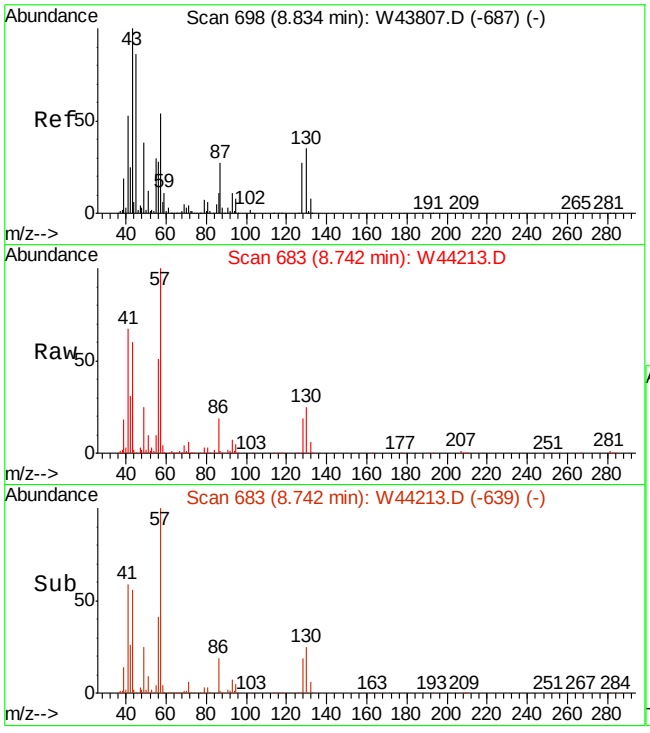


#34
TERTIARY BUTYL ALCOHOL
Concen: 0.76 PPBV
RT: 6.85 min Scan# 372
Delta R.T. 0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 59 Resp: 24410

Ion	Ratio	Lower	Upper
59	100		
41	0.0	1.4	41.4#
43	0.0	0.0	32.3

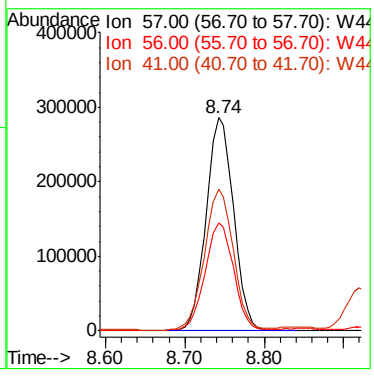


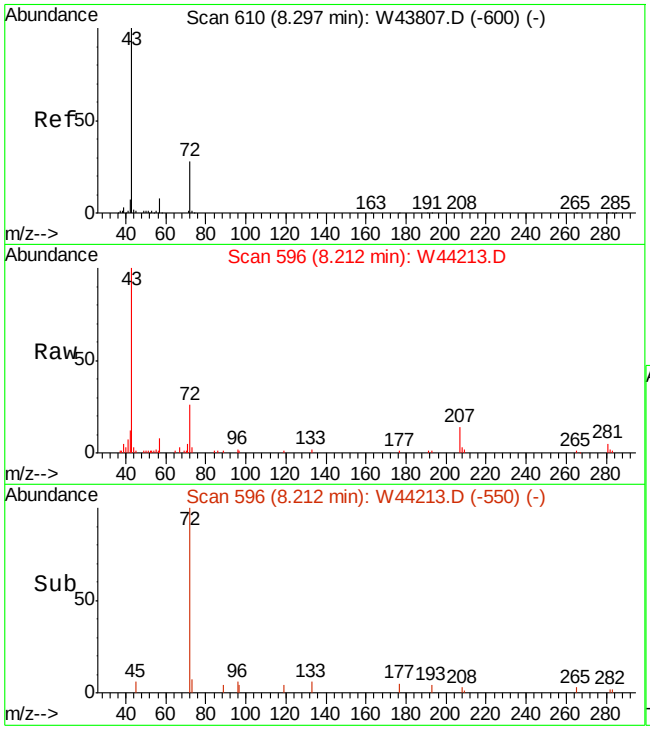


#37
HEXANE
Concen: 19.31 PPBV
RT: 8.74 min Scan# 683
Delta R.T. -0.03 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 57 Resp: 683598

Ion	Ratio	Lower	Upper
57	100		
56	52.3	32.2	72.2
41	72.4	74.7	114.7#

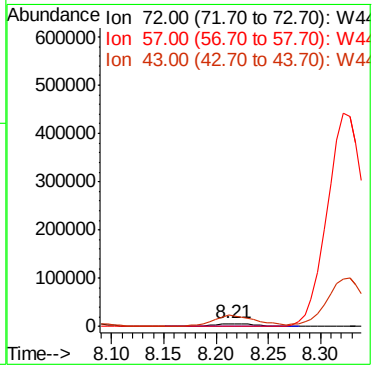


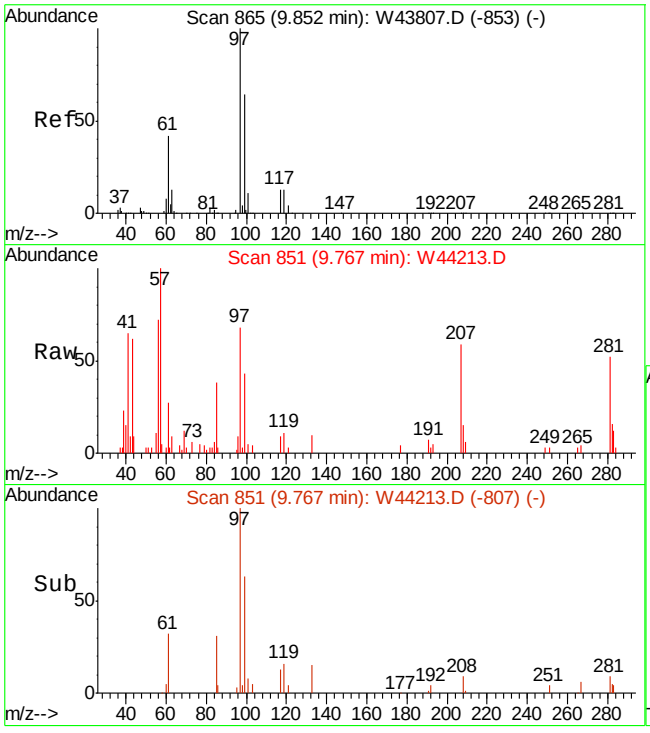


#40
METHYL ETHYL KETONE
Concen: 1.68 PPBV m
RT: 8.21 min Scan# 596
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 72 Resp: 17639

Ion	Ratio	Lower	Upper
72	100		
57	30.6	10.3	50.3
43	379.3	364.5	404.5

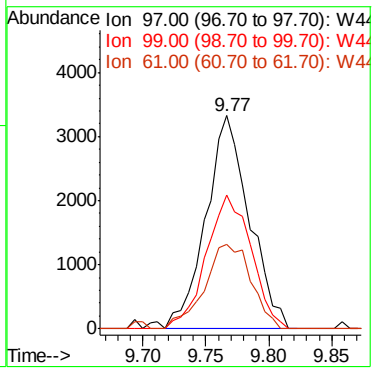


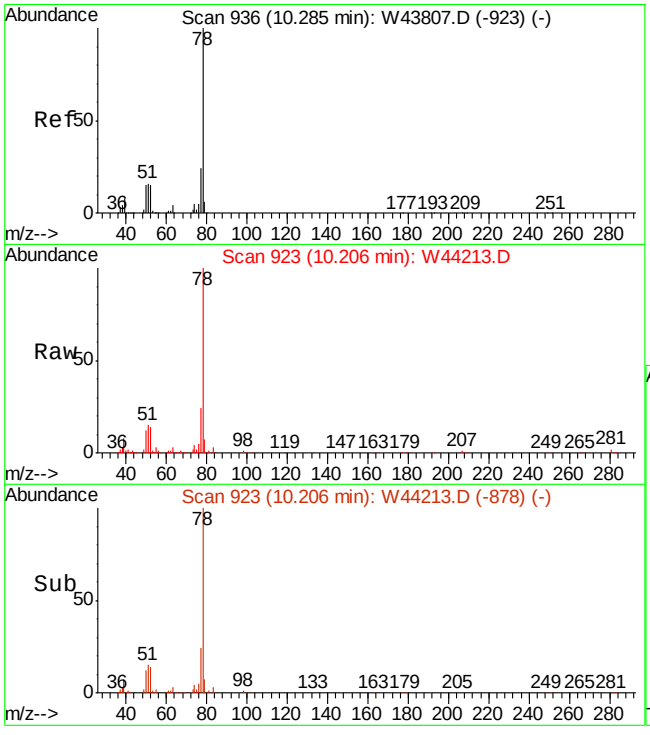


#47
1,1,1-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 9.77 min Scan# 851
Delta R.T. -0.03 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 97 Resp: 7953

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.2	84.2
61	42.7	21.3	61.3

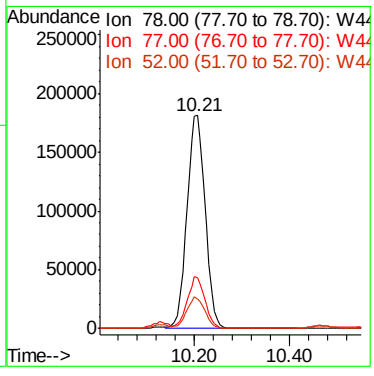


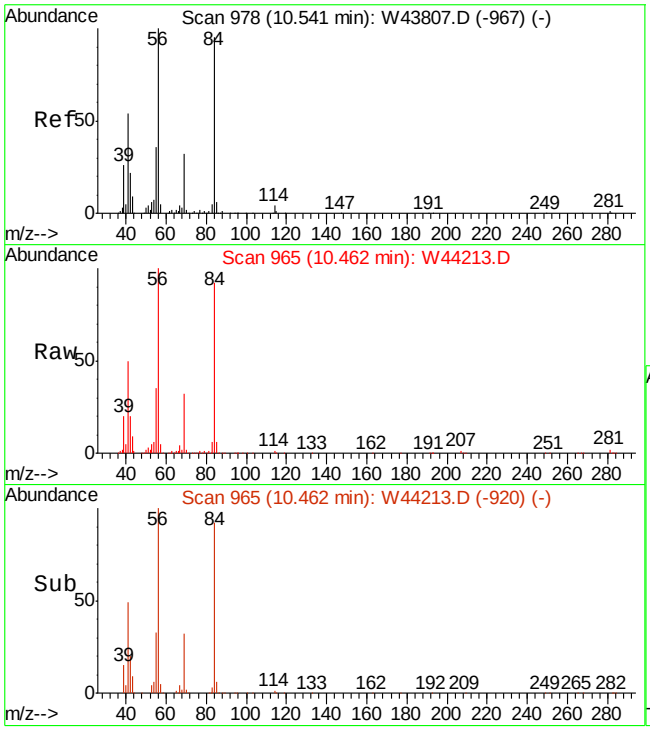


#51
BENZENE
Concen: 7.63 PPBV
RT: 10.21 min Scan# 923
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 78 Resp: 481250

Ion	Ratio	Lower	Upper
78	100		
77	23.8	3.7	43.7
52	14.7	0.0	35.0

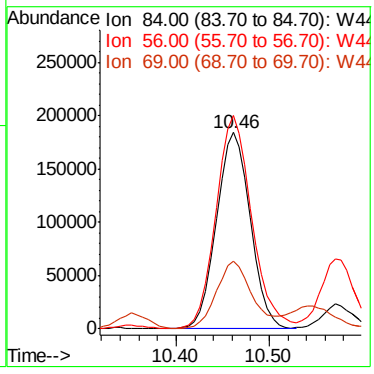


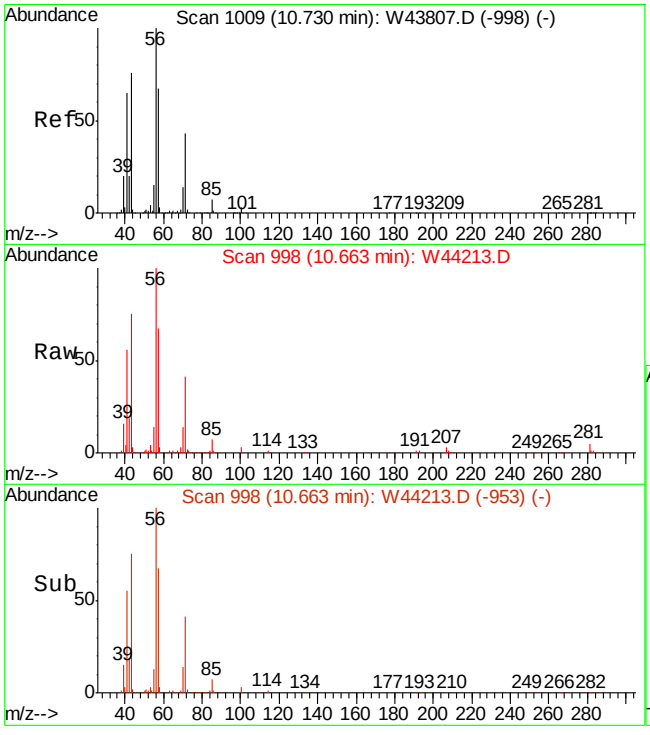


#52
CYCLOHEXANE
Concen: 16.45 PPBV
RT: 10.46 min Scan# 965
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 84 Resp: 470945

Ion	Ratio	Lower	Upper
84	100		
56	114.7	96.7	136.7
69	51.4	20.6	60.6

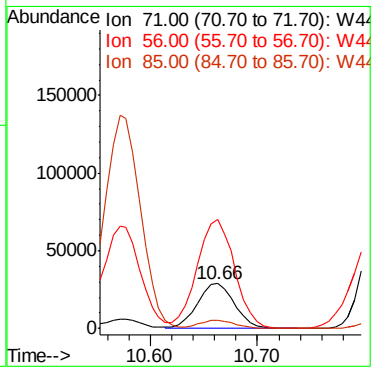


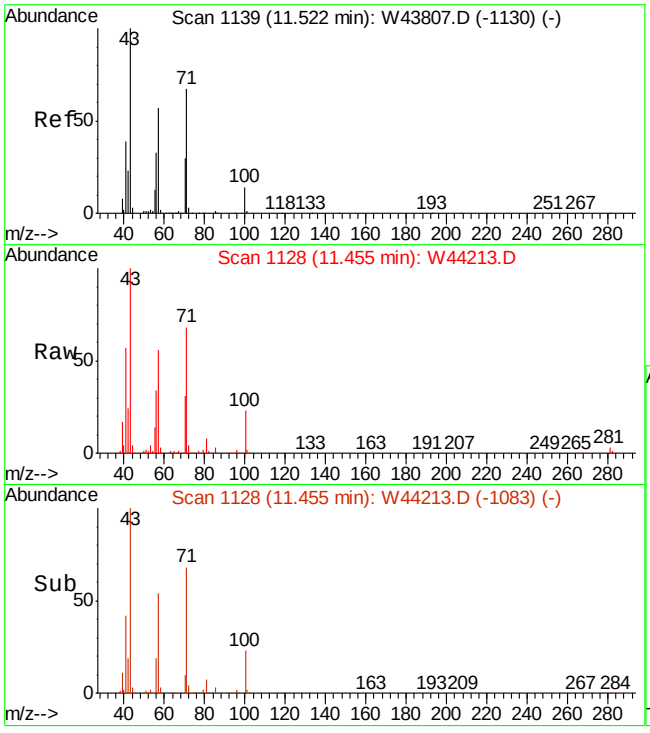


#53
2,3-DIMETHYLPENTANE
Concen: 4.78 PPBV
RT: 10.66 min Scan# 998
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 71 Resp: 69254

Ion	Ratio	Lower	Upper
71	100		
56	243.5	196.2	294.4
85	17.6	13.4	20.0

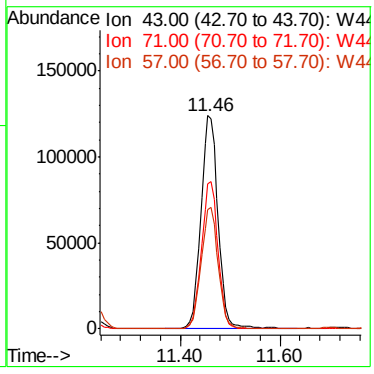


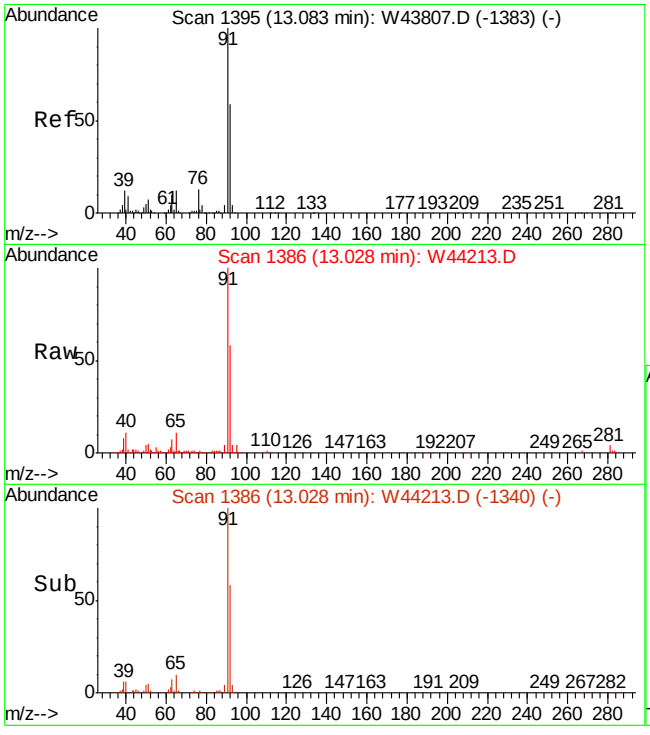


#62
HEPTANE
Concen: 8.47 PPBV
RT: 11.46 min Scan# 1128
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 43 Resp: 294910

Ion	Ratio	Lower	Upper
43	100		
71	67.1	43.7	83.7
57	57.1	34.7	74.7

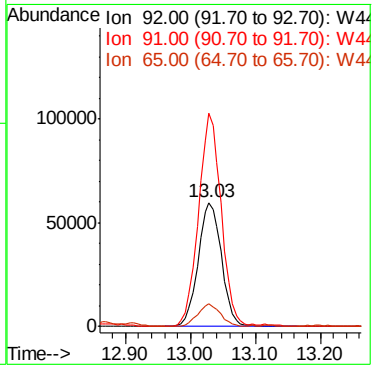


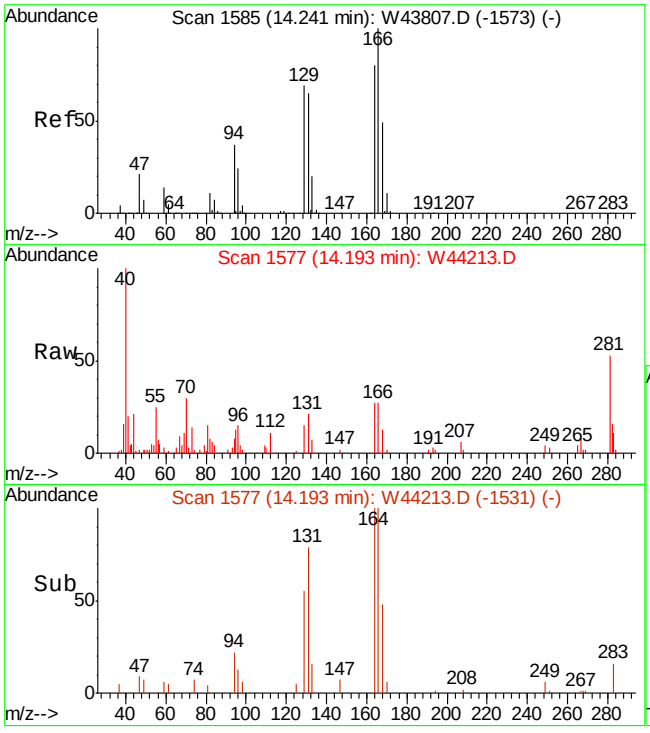


#66
TOLUENE
Concen: 3.38 PPBV
RT: 13.03 min Scan# 1386
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 92 Resp: 149305

Ion	Ratio	Lower	Upper
92	100		
91	169.7	148.0	188.0
65	18.4	0.5	40.5

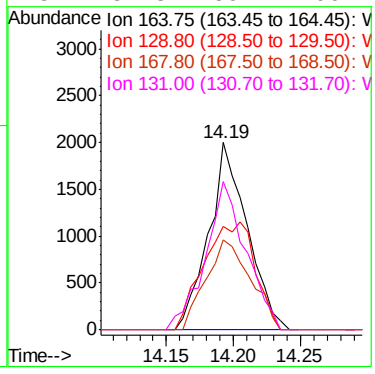


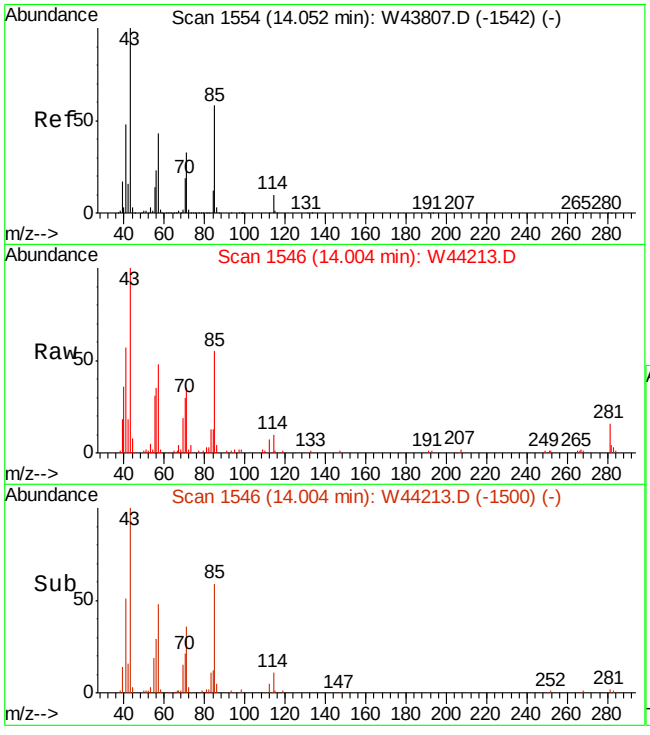


#72
TETRACHLOROETHYLENE
Concen: 0.13 PPBV
RT: 14.19 min Scan# 1577
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:164 Resp: 3984

Ion	Ratio	Lower	Upper
164	100		
129	76.9	62.5	102.5
168	55.3	41.7	81.7
131	82.8	59.1	99.1

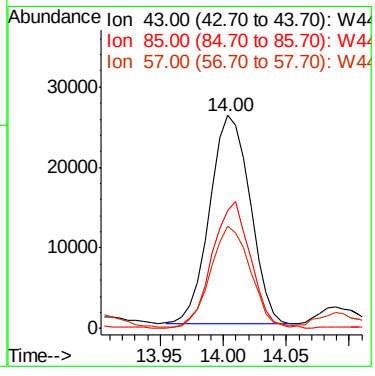


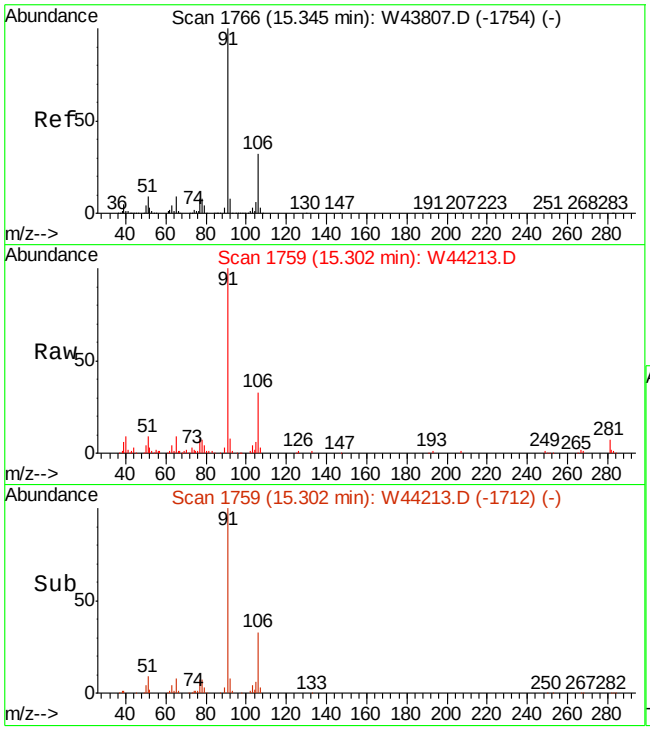


#75
OCTANE
Concen: 1.28 PPBV
RT: 14.00 min Scan# 1546
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 43 Resp: 57592

Ion	Ratio	Lower	Upper
43	100		
85	58.2	41.1	61.7
57	46.8	33.4	50.2

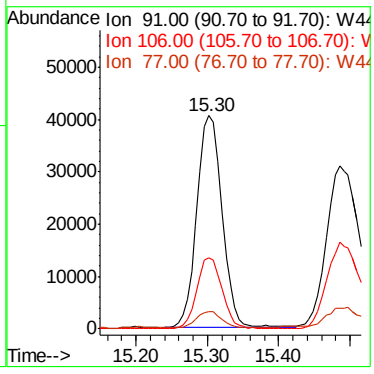


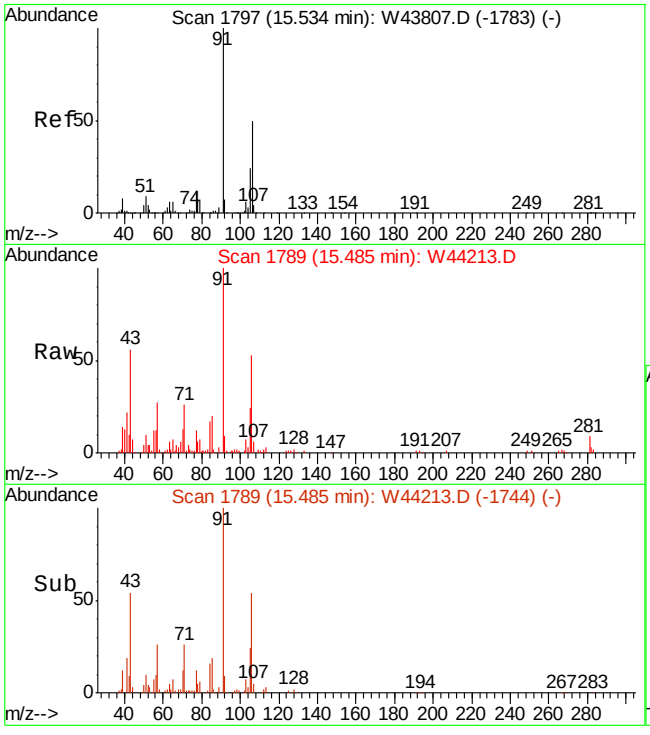


#78
ETHYLBENZENE
Concen: 1.14 PPBV
RT: 15.30 min Scan# 1759
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 91 Resp: 99104

Ion	Ratio	Lower	Upper
91	100		
106	33.4	12.3	52.3
77	9.4	0.0	28.1

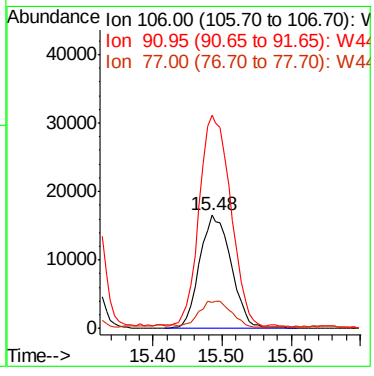


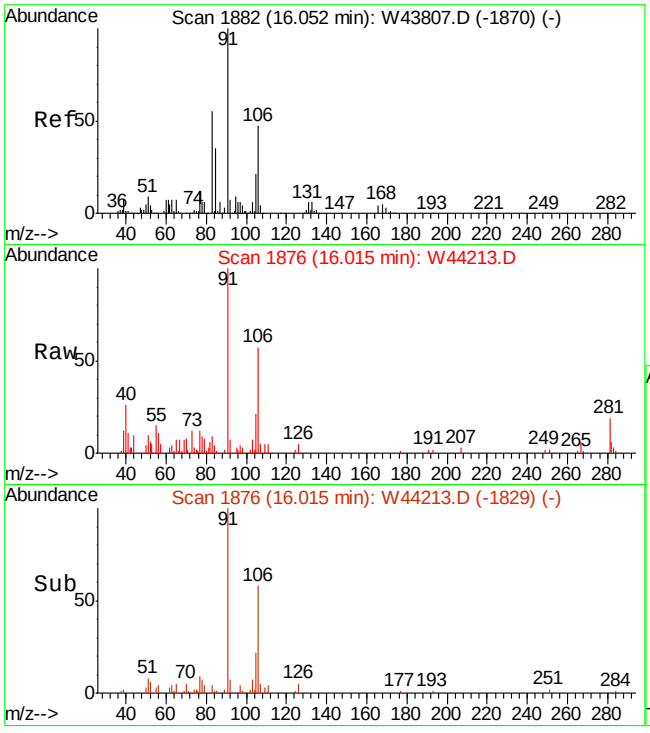


#79
m,p-XYLENE
Concen: 1.56 PPBV
RT: 15.48 min Scan# 1789
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:106 Resp: 52839

Ion	Ratio	Lower	Upper
106	100		
91	188.1	151.2	226.8
77	23.3	18.7	28.1

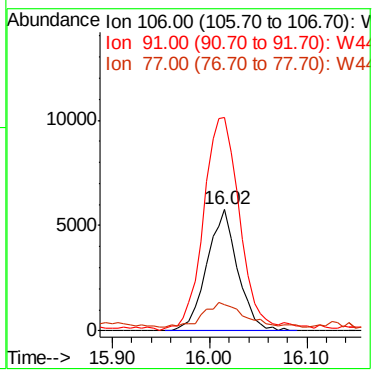


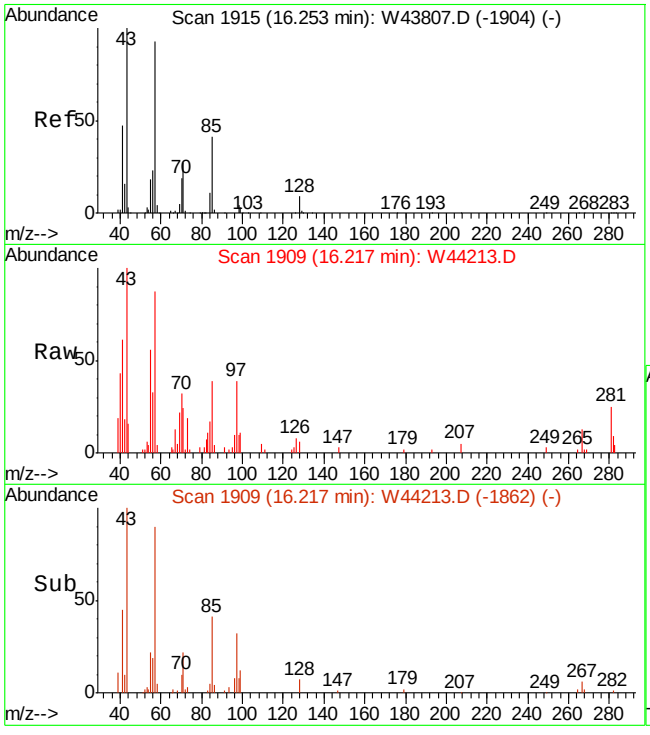


#80
o-XYLENE
Concen: 0.39 PPBV
RT: 16.02 min Scan# 1876
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:106 Resp: 12616

Ion	Ratio	Lower	Upper
106	100		
91	215.0	182.5	222.5
77	47.9	3.8	43.8#

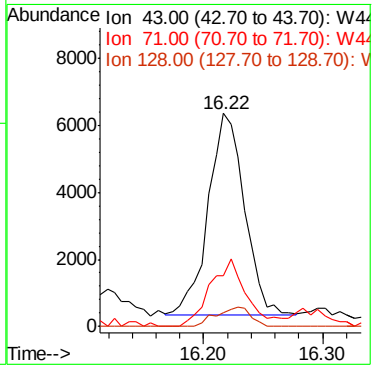


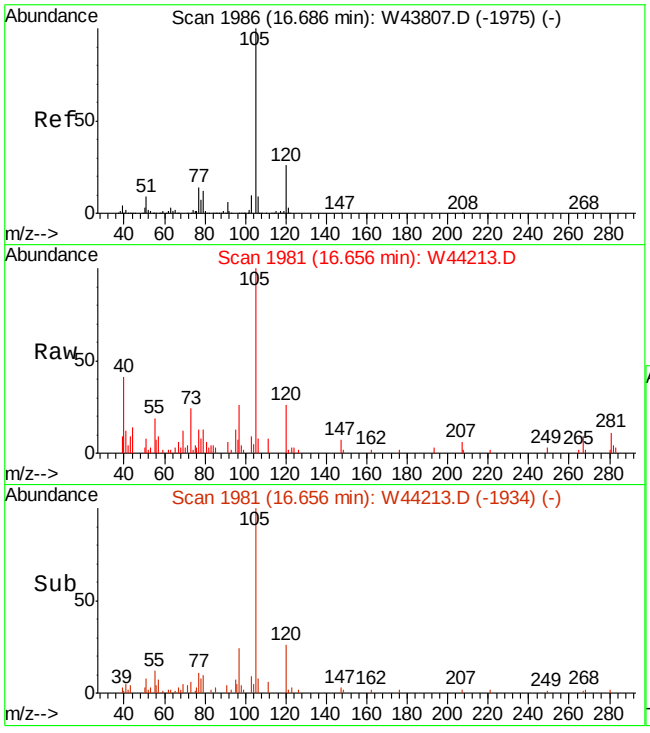


#83
NONANE
Concen: 0.30 PPBV
RT: 16.22 min Scan# 1909
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion: 43 Resp: 12764

Ion	Ratio	Lower	Upper
43	100		
71	34.5	7.3	47.3
128	9.2	0.0	28.0

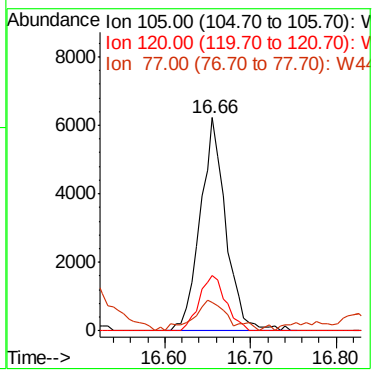


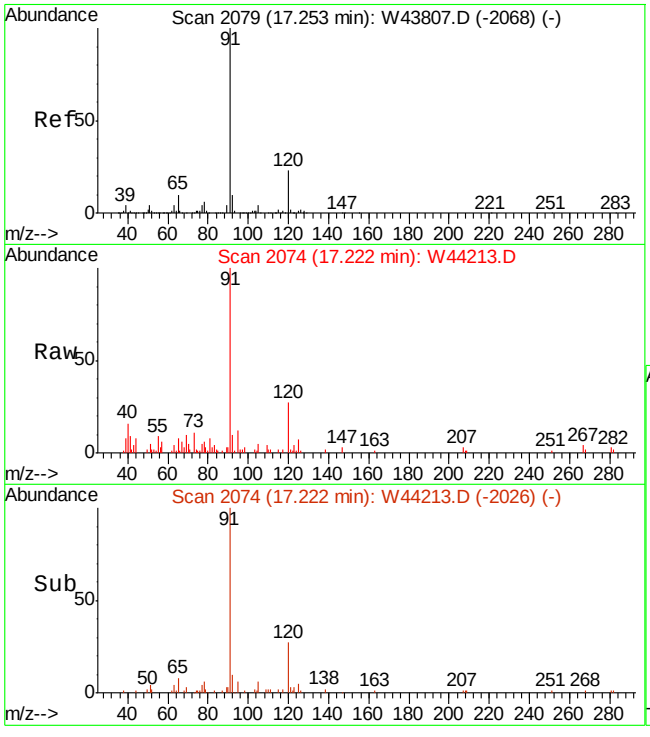


#87
ISOPROPYLBENZENE
Concen: 0.14 PPBV
RT: 16.66 min Scan# 1981
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:105 Resp: 12892

Ion	Ratio	Lower	Upper
105	100		
120	26.8	7.4	47.4
77	19.1	0.0	34.1

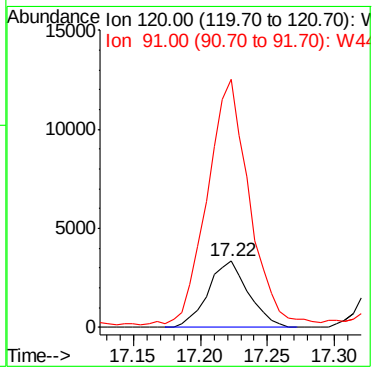


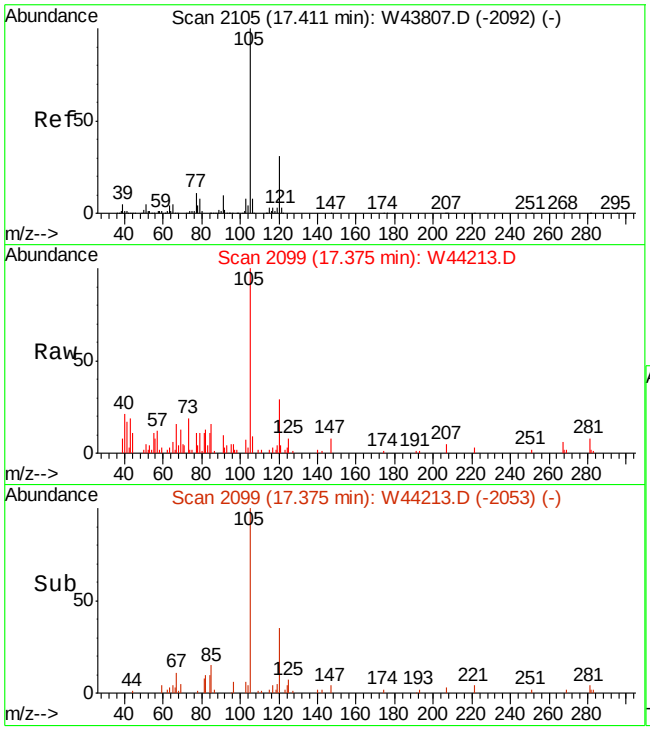


#90
n-PROPYLBENZENE
Concen: 0.29 PPBV
RT: 17.22 min Scan# 2074
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:120 Resp: 7031

Ion	Ratio	Lower	Upper
120	100		
91	377.7	526.1	789.1#

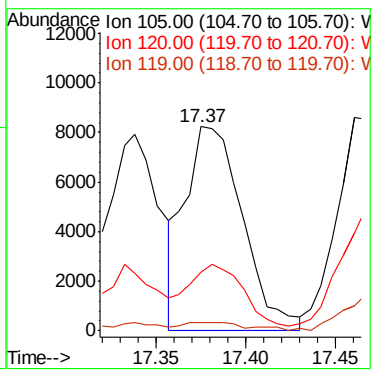


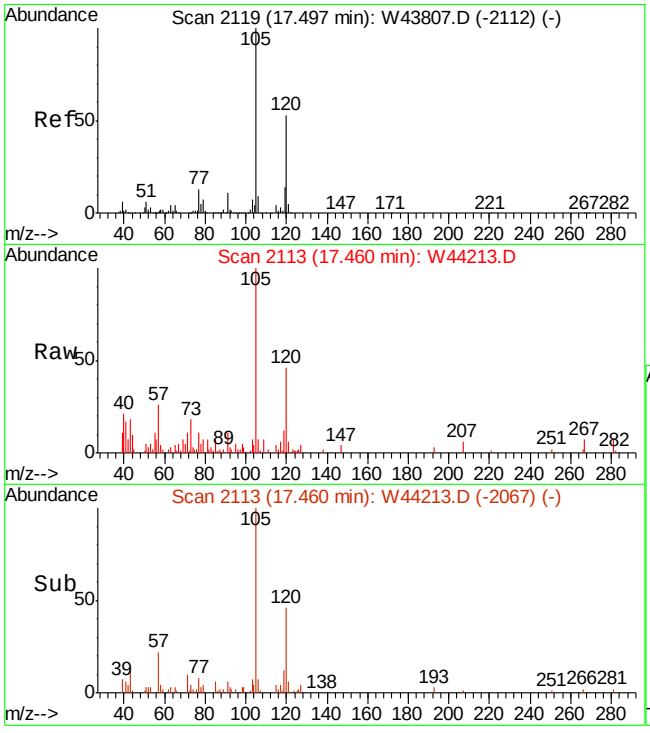


#91
4-ETHYLTOLUENE
Concen: 0.24 PPBV m
RT: 17.37 min Scan# 2099
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:105 Resp: 18403

Ion	Ratio	Lower	Upper
105	100		
120	0.0	10.9	50.9#
119	8.2	0.0	22.7

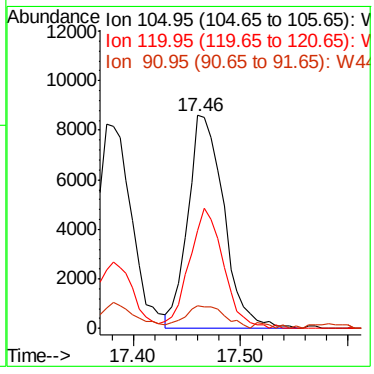


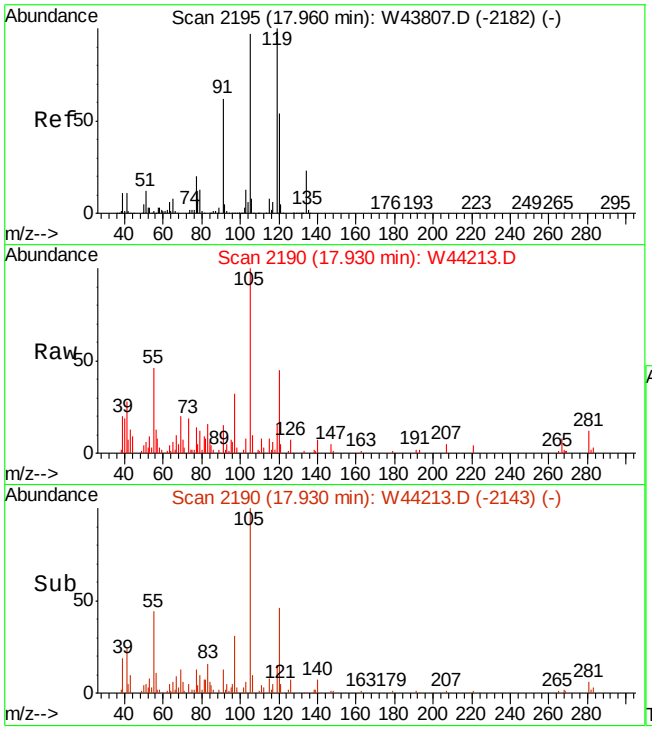


#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.30 PPBV
RT: 17.46 min Scan# 2113
Delta R.T. -0.02 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:105 Resp: 20154

Ion	Ratio	Lower	Upper
105	100		
120	53.7	32.3	72.3
91	0.0	0.0	29.2

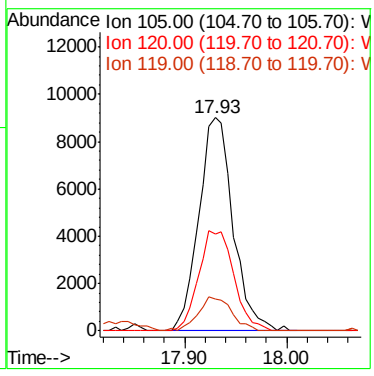




#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.34 PPBV
RT: 17.93 min Scan# 2190
Delta R.T. -0.01 min
Lab File: W44213.D
Acq: 21 Oct 2013 6:08 pm

Tgt Ion:105 Resp: 21016

Ion	Ratio	Lower	Upper
105	100		
120	48.2	39.1	79.1
119	15.5	102.1	142.1#



Manual Integration Approval Summary

Sample Number:	JB50673-2	**Method:**	TO-15
Lab FileID:	W44213.D	**Analyst approved:**	10/22/13 09:27 Dana Tryon
Injection Time:	10/21/13 18:08	**Supervisor approved:**	10/22/13 14:19 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		8.21	Missed peak
4-Ethyltoluene	622-96-8		17.37	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44216.D Vial: 2
Acq On : 22 Oct 2013 8:58 am Operator: danat
Sample : jb50673-2 Inst : MSW
Misc : MS57076,VW1769,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 09:22:25 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

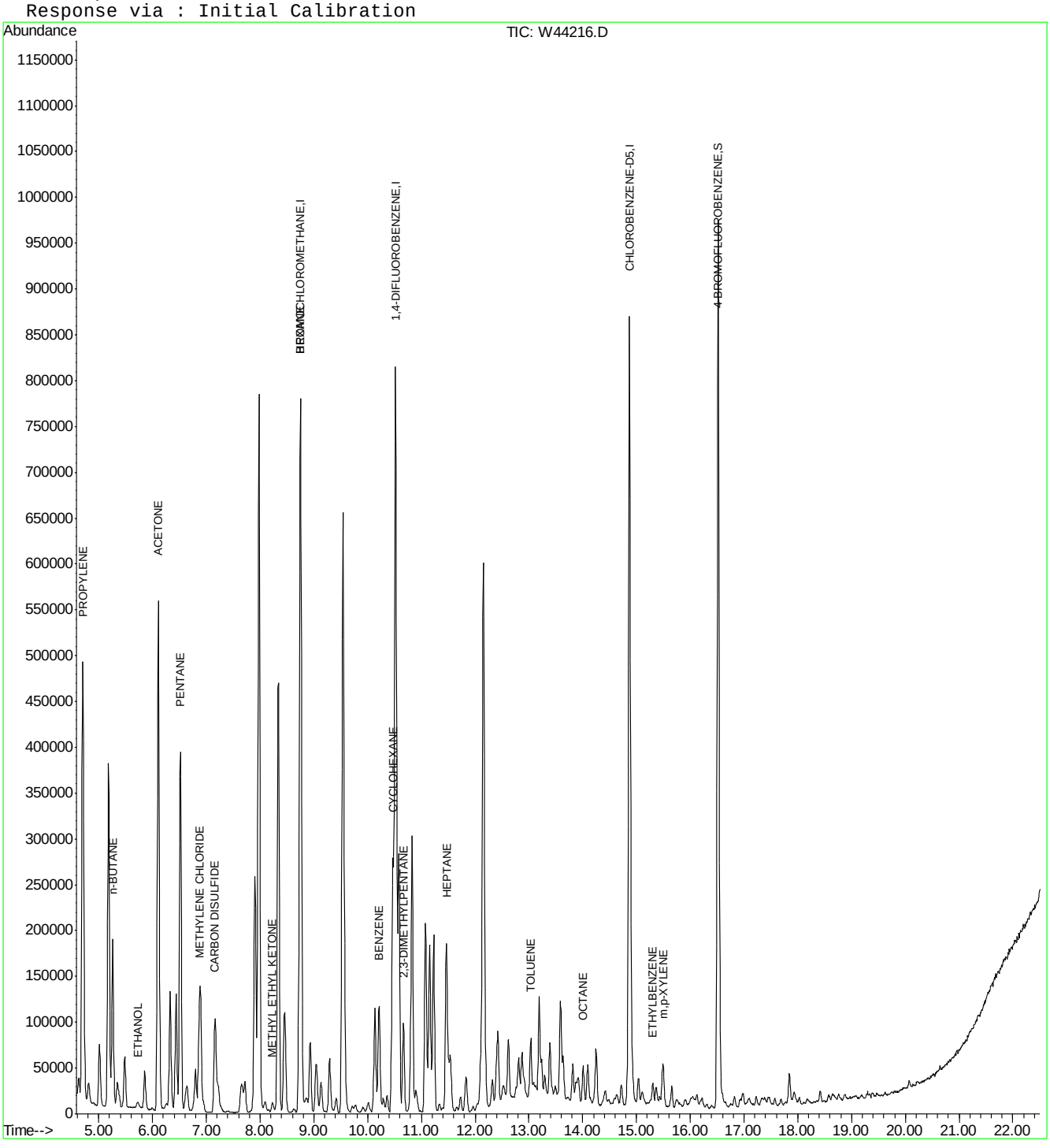
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	204267	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	982862	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	396900	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	473578	10.06	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.60%			
Target Compounds						Qvalue
6) PROPYLENE	4.70	41	349130	18.20	PPBV	95
11) n-BUTANE	5.26	58	30263	5.85	PPBV #	95
20) ACETONE	6.11	58	40315	3.03	PPBV #	1
22) PENTANE	6.52	57	55663	8.39	PPBV #	95
26) CARBON DISULFIDE	7.16	76	227662	3.21	PPBV	100
27) ETHANOL	5.72	45	9167	1.02	PPBV #	93
30) METHYLENE CHLORIDE	6.86	84	54151	2.02	PPBV	98
37) HEXANE	8.75	57	218924	5.28	PPBV #	84
40) METHYL ETHYL KETONE	8.23	72	4904m	0.40	PPBV	
51) BENZENE	10.21	78	138333	1.82	PPBV	99
52) CYCLOHEXANE	10.47	84	152975	4.44	PPBV #	88
53) 2,3-DIMETHYLPENTANE	10.67	71	22697	1.30	PPBV	96
62) HEPTANE	11.46	43	90726	2.17	PPBV	97
66) TOLUENE	13.03	92	40939	0.77	PPBV	99
75) OCTANE	14.01	43	22065	0.43	PPBV	93
78) ETHYLBENZENE	15.30	91	29485	0.30	PPBV	99
79) m,p-XYLENE	15.49	106	14492	0.38	PPBV #	92

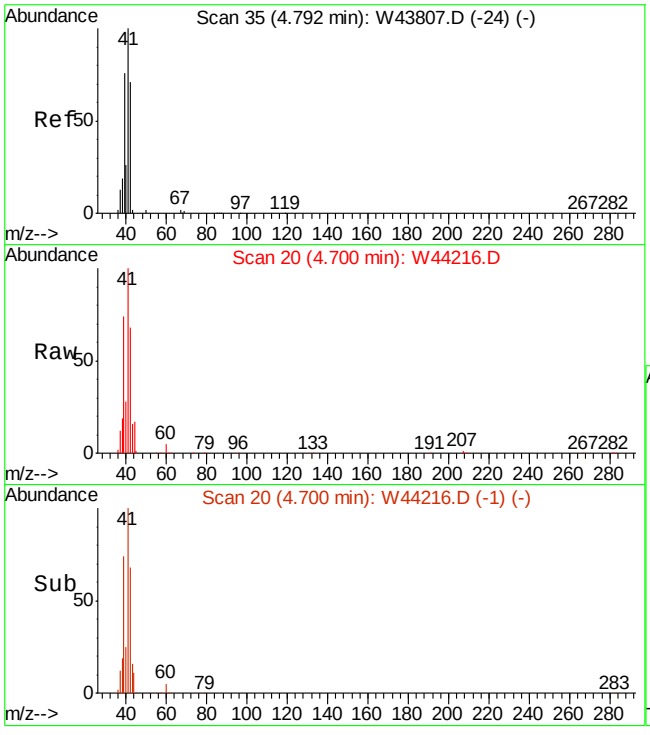
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44216.D Vial: 2
Acq On : 22 Oct 2013 8:58 am Operator: danat
Sample : jb50673-2 Inst : MSW
Misc : MS57076,VW1769,20,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 9:25 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

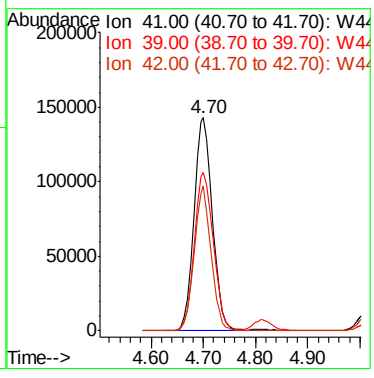


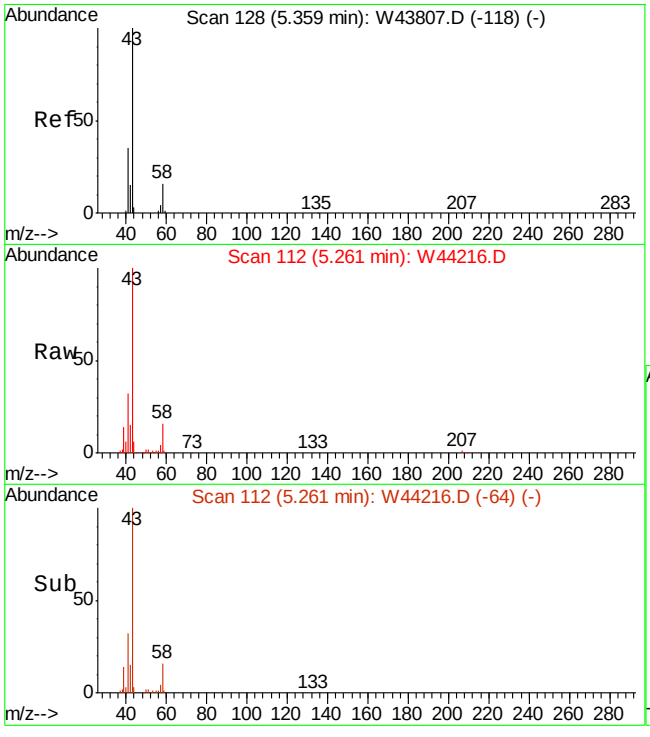


#6
PROPYLENE
Concen: 18.20 PPBV
RT: 4.70 min Scan# 20
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 41 Resp: 349130

Ion	Ratio	Lower	Upper
41	100		
39	74.2	48.7	88.7
42	67.9	44.9	84.9

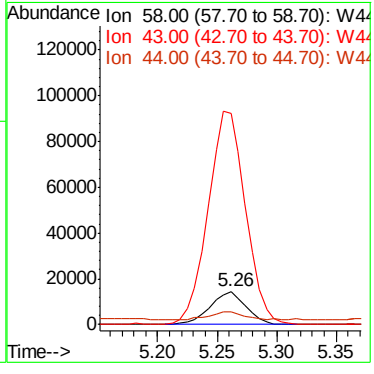


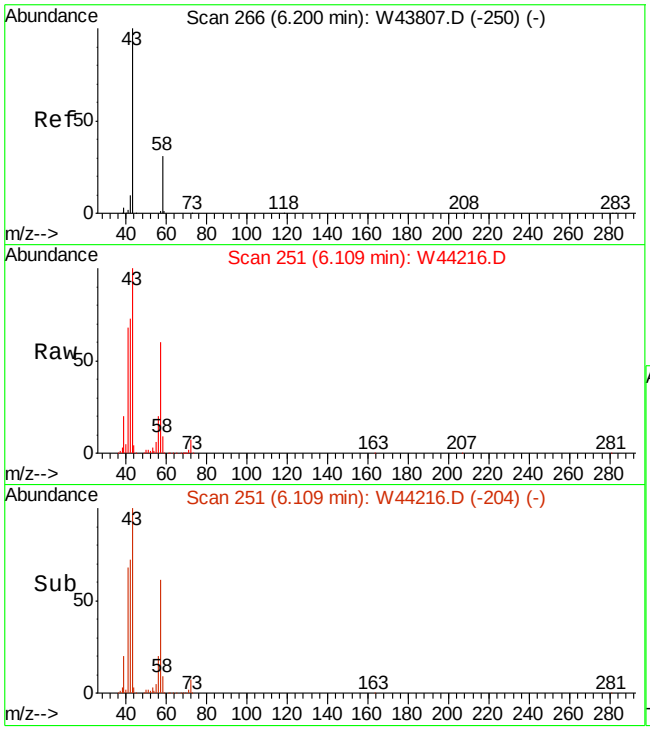


#11
n-BUTANE
Concen: 5.85 PPBV
RT: 5.26 min Scan# 112
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 58 Resp: 30263

Ion	Ratio	Lower	Upper
58	100		
43	673.1	552.0	828.0
44	32.2	20.4	30.6#

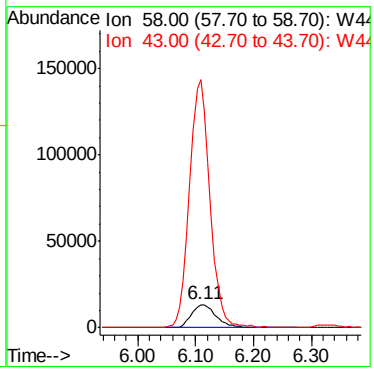


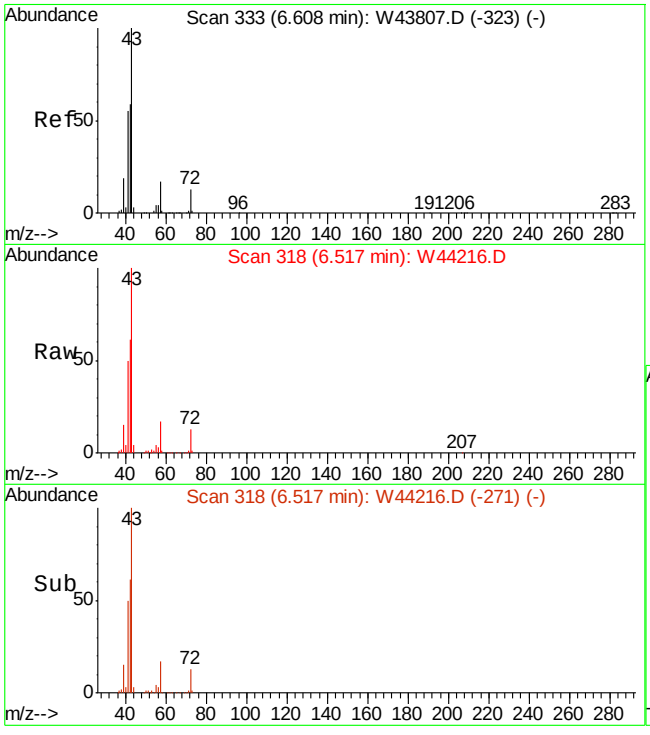


#20
ACETONE
Concen: 3.03 PPBV
RT: 6.11 min Scan# 251
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 58 Resp: 40315

Ion	Ratio	Lower	Upper
58	100		
43	864.1	270.7	310.7#

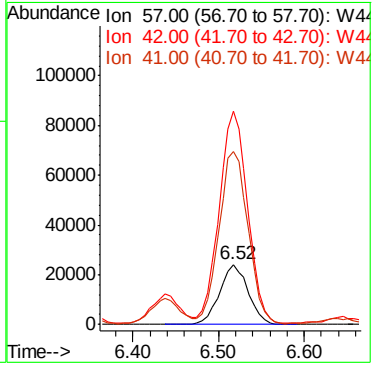


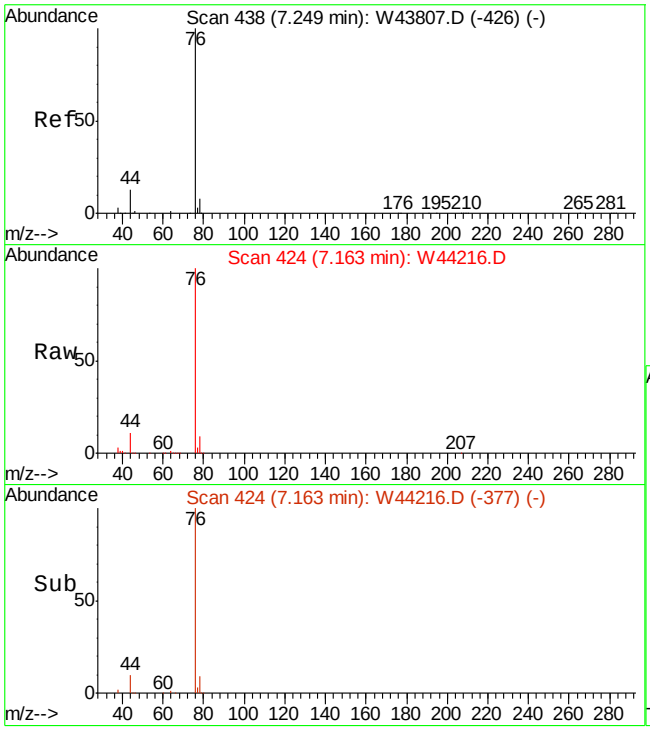


#22
PENTANE
Concen: 8.39 PPBV
RT: 6.52 min Scan# 318
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 57 Resp: 55663

Ion	Ratio	Lower	Upper
57	100		
42	352.7	352.7	392.7#
41	307.4	286.0	326.0

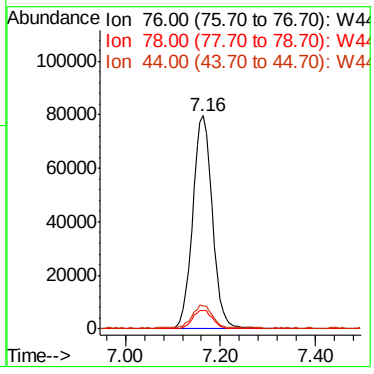


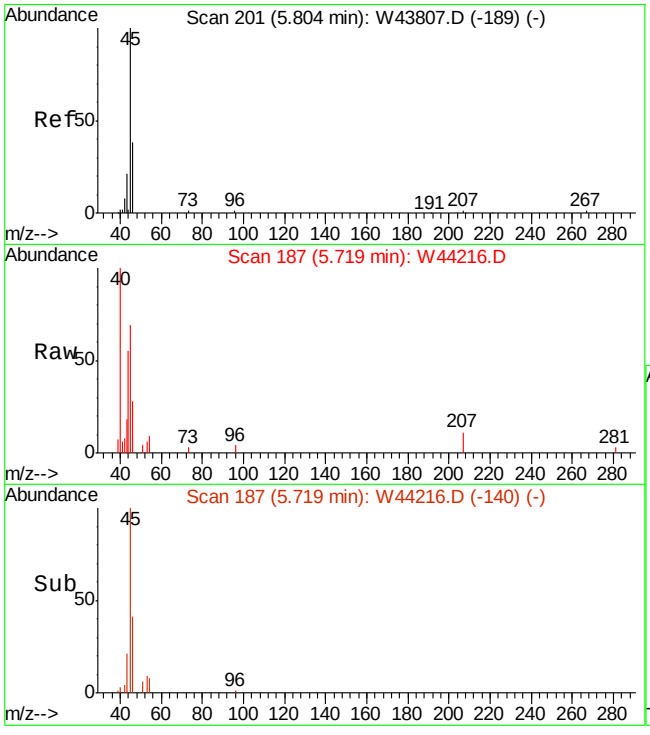


#26
CARBON DISULFIDE
Concen: 3.21 PPBV
RT: 7.16 min Scan# 424
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 76 Resp: 227662

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.0
44	11.4	0.0	31.4

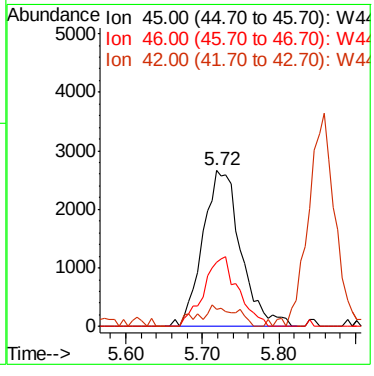




#27
ETHANOL
Concen: 1.02 PPBV
RT: 5.72 min Scan# 187
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

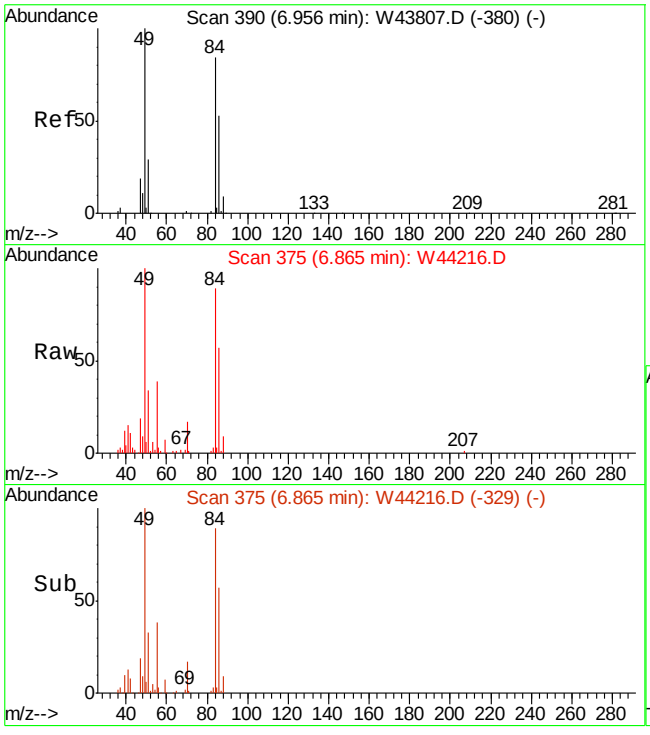
Tgt Ion: 45 Resp: 9167

Ion	Ratio	Lower	Upper
45	100		
46	40.4	18.3	58.3
42	0.0	0.0	27.7



7.1.4

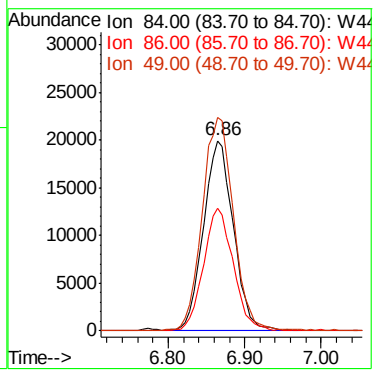
7

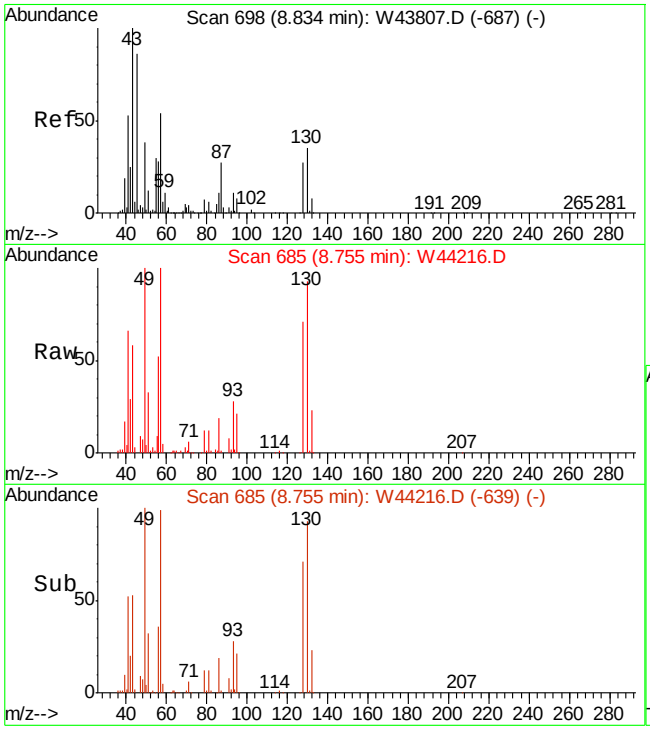


#30
METHYLENE CHLORIDE
Concen: 2.02 PPBV
RT: 6.86 min Scan# 375
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 84 Resp: 54151

Ion	Ratio	Lower	Upper
84	100		
86	64.0	43.2	83.2
49	117.3	0.0	320.8

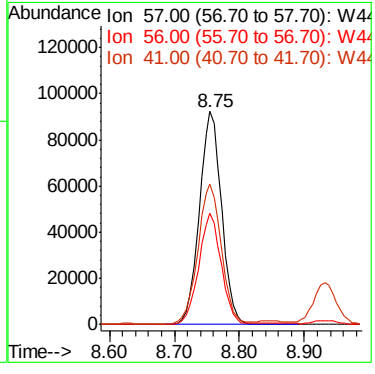


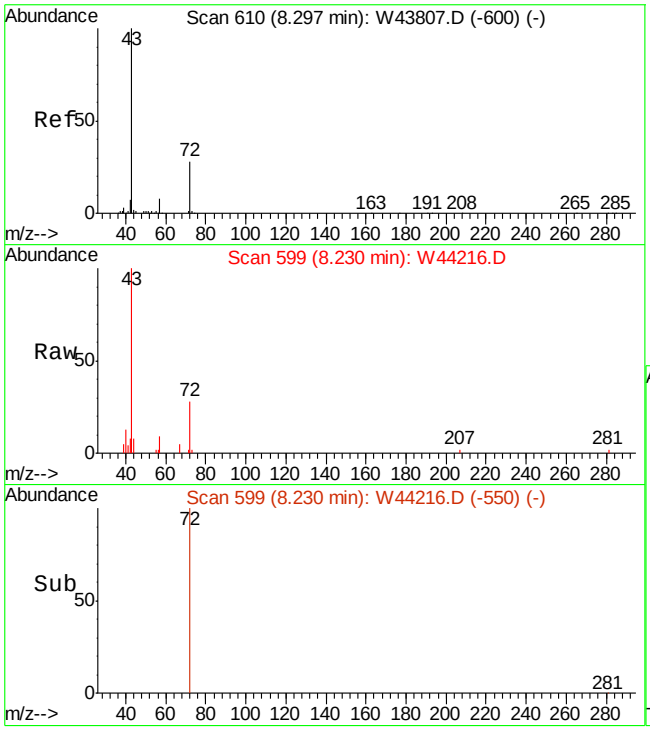


#37
HEXANE
Concen: 5.28 PPBV
RT: 8.75 min Scan# 685
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 57 Resp: 218924

Ion	Ratio	Lower	Upper
57	100		
56	54.5	32.2	72.2
41	71.9	74.7	114.7#

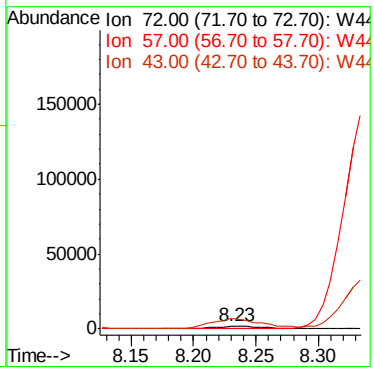


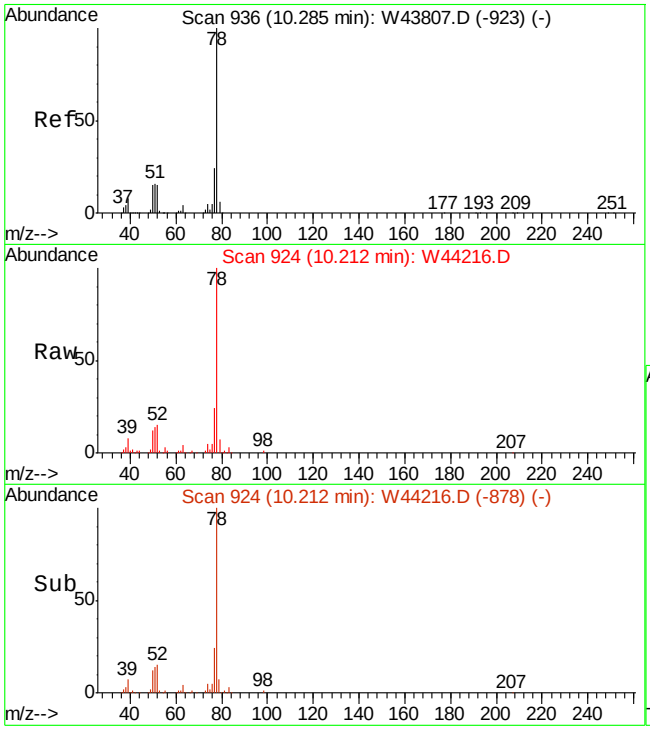


#40
METHYL ETHYL KETONE
Concen: 0.40 PPBV m
RT: 8.23 min Scan# 599
Delta R.T. 0.00 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 72 Resp: 4904

Ion	Ratio	Lower	Upper
72	100		
57	31.7	10.3	50.3
43	359.3	364.5	404.5#

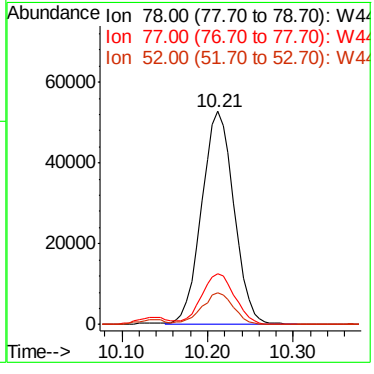




#51
BENZENE
Concen: 1.82 PPBV
RT: 10.21 min Scan# 924
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

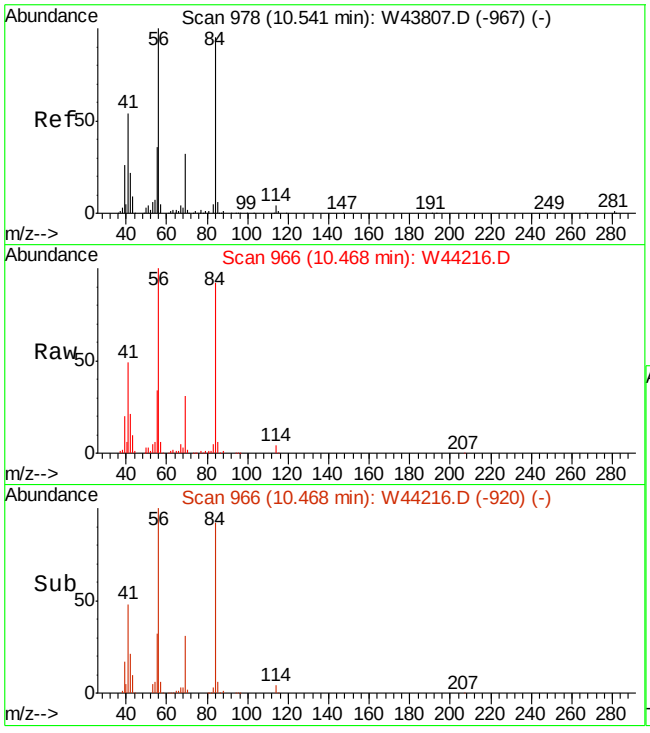
Tgt Ion: 78 Resp: 138333

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
52	14.6	0.0	35.0



7.1.4

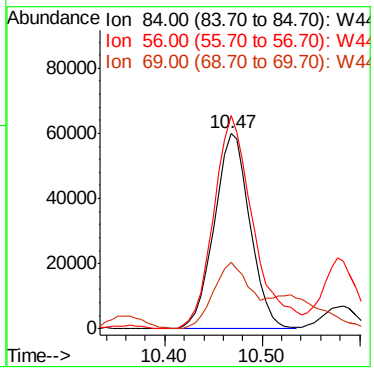
7

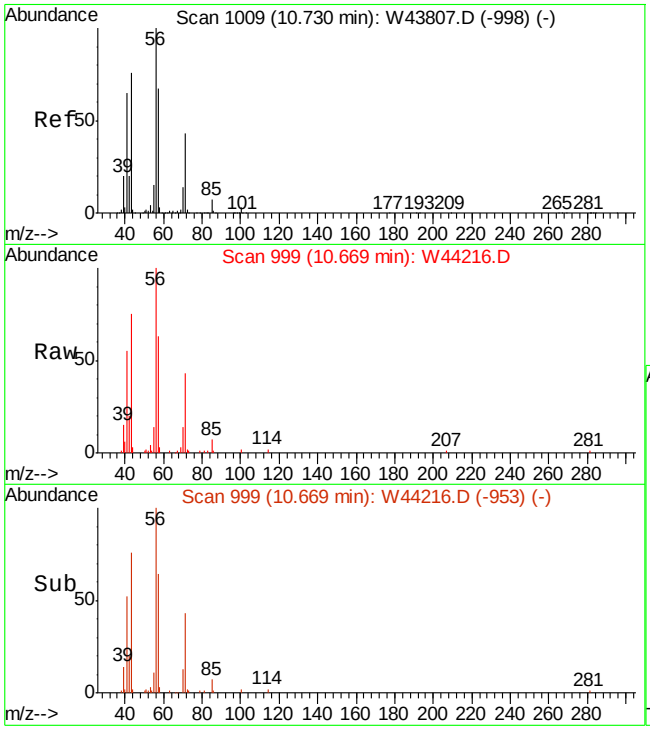


#52
CYCLOHEXANE
Concen: 4.44 PPBV
RT: 10.47 min Scan# 966
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 84 Resp: 152975

Ion	Ratio	Lower	Upper
84	100		
56	121.9	96.7	136.7
69	60.7	20.6	60.6#

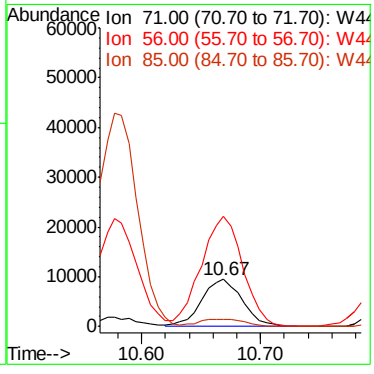


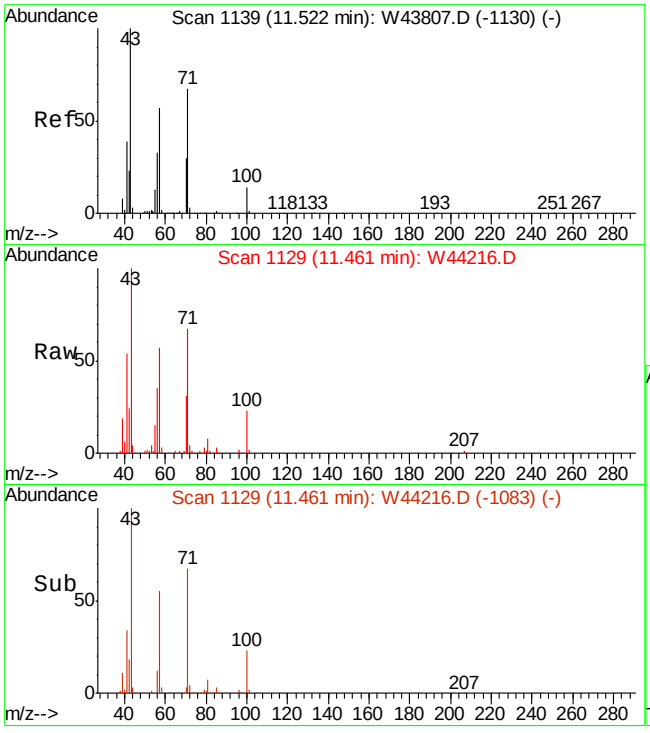


#53
2,3-DIMETHYLPENTANE
Concen: 1.30 PPBV
RT: 10.67 min Scan# 999
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 71 Resp: 22697

Ion	Ratio	Lower	Upper
71	100		
56	238.9	196.2	294.4
85	17.1	13.4	20.0

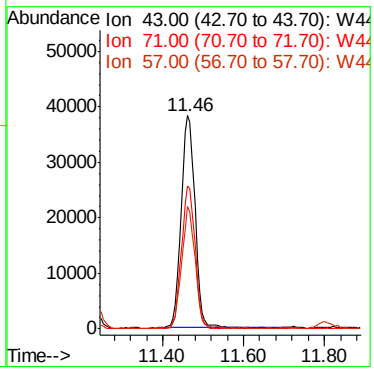


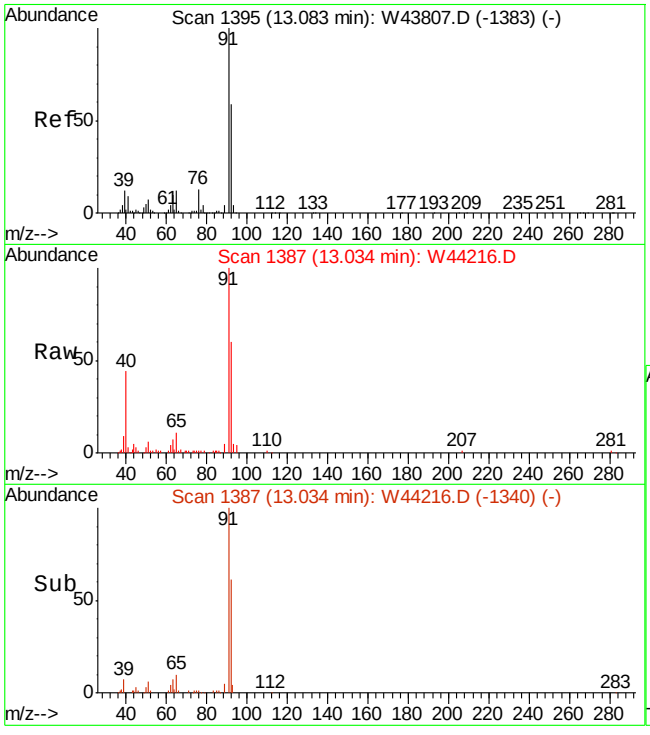


#62
HEPTANE
Concen: 2.17 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 43 Resp: 90726

Ion	Ratio	Lower	Upper
43	100		
71	66.5	43.7	83.7
57	56.3	34.7	74.7

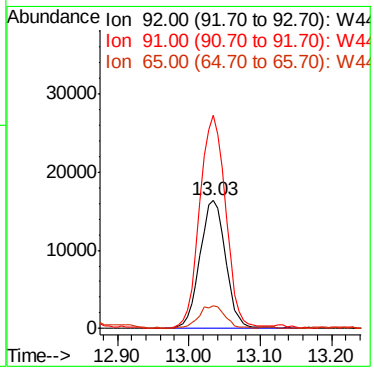


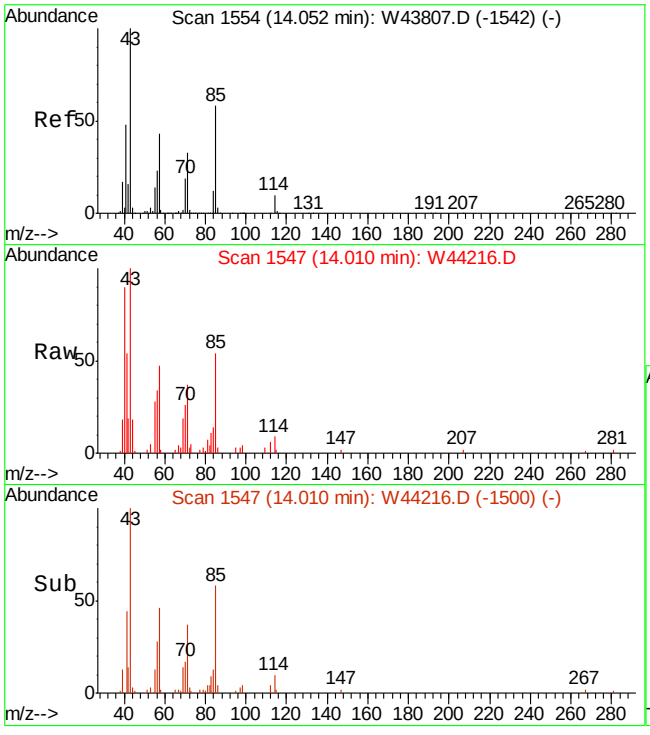


#66
TOLUENE
Concen: 0.77 PPBV
RT: 13.03 min Scan# 1387
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 92 Resp: 40939

Ion	Ratio	Lower	Upper
92	100		
91	169.5	148.0	188.0
65	18.3	0.5	40.5

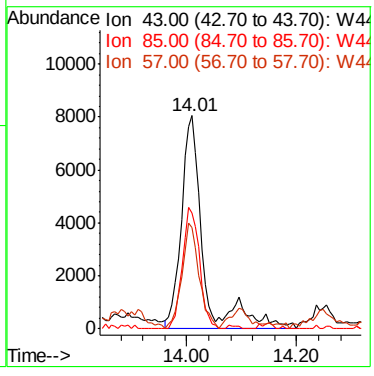


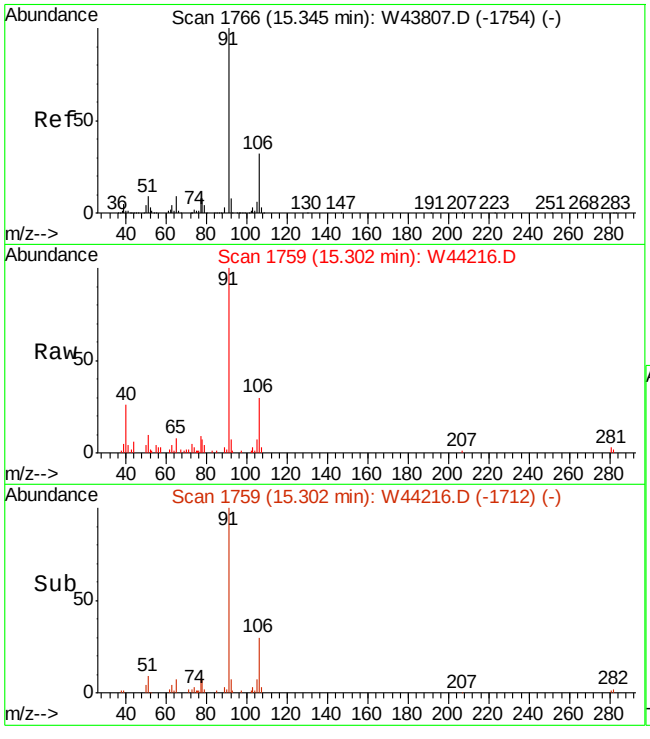


#75
OCTANE
Concen: 0.43 PPBV
RT: 14.01 min Scan# 1547
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion: 43 Resp: 22065

Ion	Ratio	Lower	Upper
43	100		
85	44.5	41.1	61.7
57	38.9	33.4	50.2

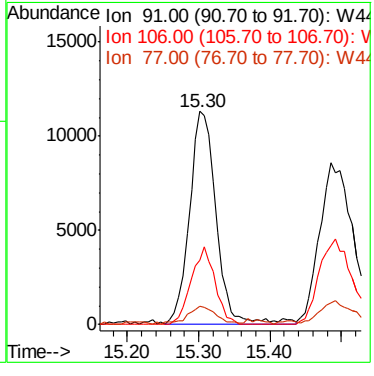




#78
ETHYLBENZENE
Concen: 0.30 PPBV
RT: 15.30 min Scan# 1759
Delta R.T. -0.01 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

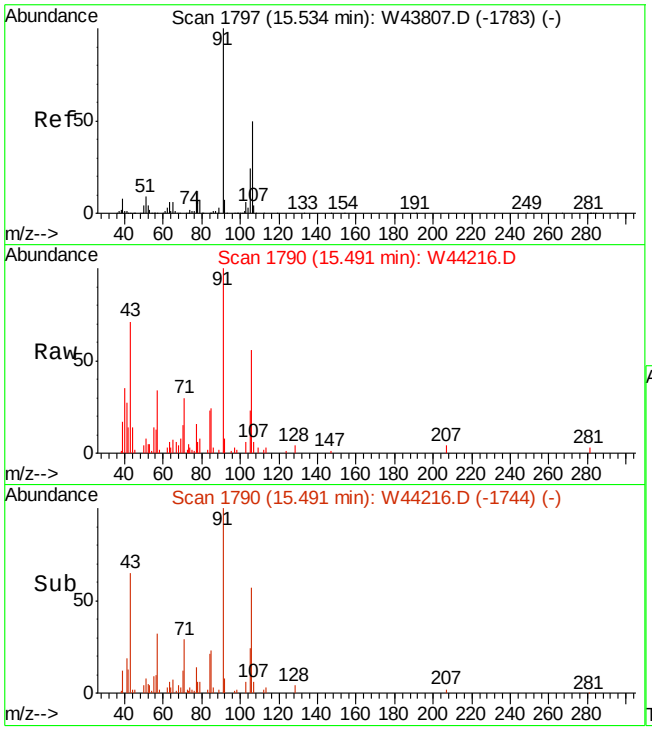
Tgt Ion: 91 Resp: 29485

Ion	Ratio	Lower	Upper
91	100		
106	32.3	12.3	52.3
77	9.5	0.0	28.1



7.1.4

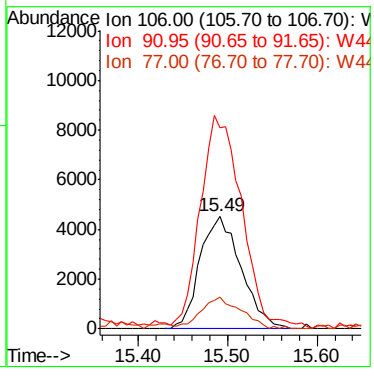
7



#79
m,p-XYLENE
Concen: 0.38 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44216.D
Acq: 22 Oct 2013 8:58 am

Tgt Ion:106 Resp: 14492

Ion	Ratio	Lower	Upper
106	100		
91	178.3	151.2	226.8
77	28.2	18.7	28.1#



7.1.4

7

Manual Integration Approval Summary

Sample Number:	JB50673-2	**Method:**	TO-15
Lab FileID:	W44216.D	**Analyst approved:**	10/22/13 09:29 Dana Tryon
Injection Time:	10/22/13 08:58	**Supervisor approved:**	10/22/13 14:19 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		8.23	Missed peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44206.D Vial: 2
Acq On : 21 Oct 2013 1:28 pm Operator: danat
Sample : mb Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:57:57 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	170419	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.51	114	875559	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	353153	10.00	PPBV	-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	411139	9.81	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 98.10%

Target Compounds Qvalue

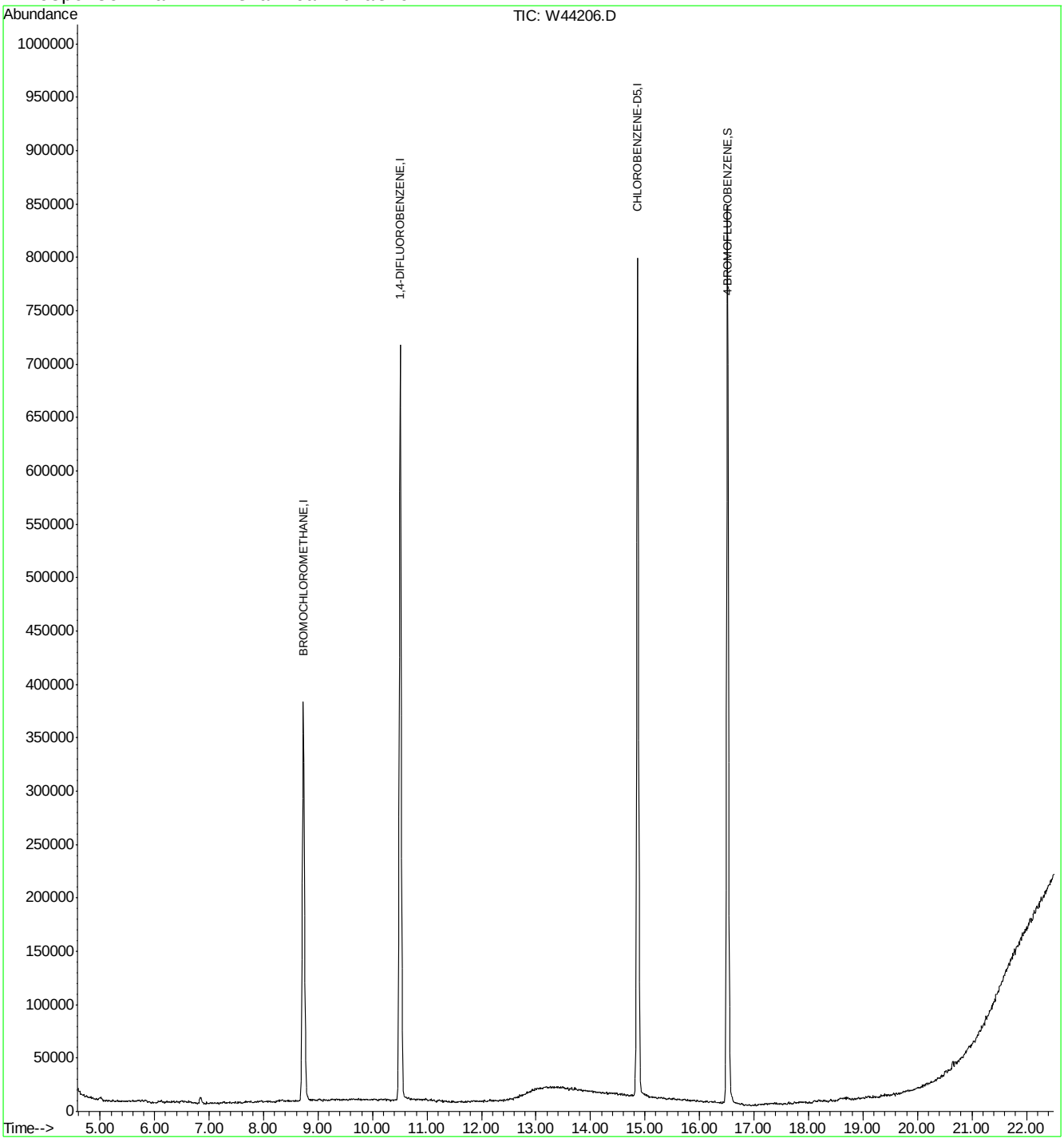
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44206.D
Acq On : 21 Oct 2013 1:28 pm
Sample : mb
Misc : MS56739,VW1769,,,,,1
MS Integration Params: rteint.p
Quant Time: Oct 21 13:58 2013

Vial: 2
Operator: danat
Inst : MSW
Multiplr: 1.00
Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36337.D Vial: 5
Acq On : 7 Oct 2013 12:59 pm Operator: YOUMINH
Sample : MB Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:57:01 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	131285	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.88	114	607940	10.00	PPBV	-0.08
68) CHLOROBENZENE-D5	13.03	82	227800	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	235654	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	214266	8.37	PPBV	-0.07

Spiked Amount 10.000 Range 65 - 128 Recovery = 83.70%

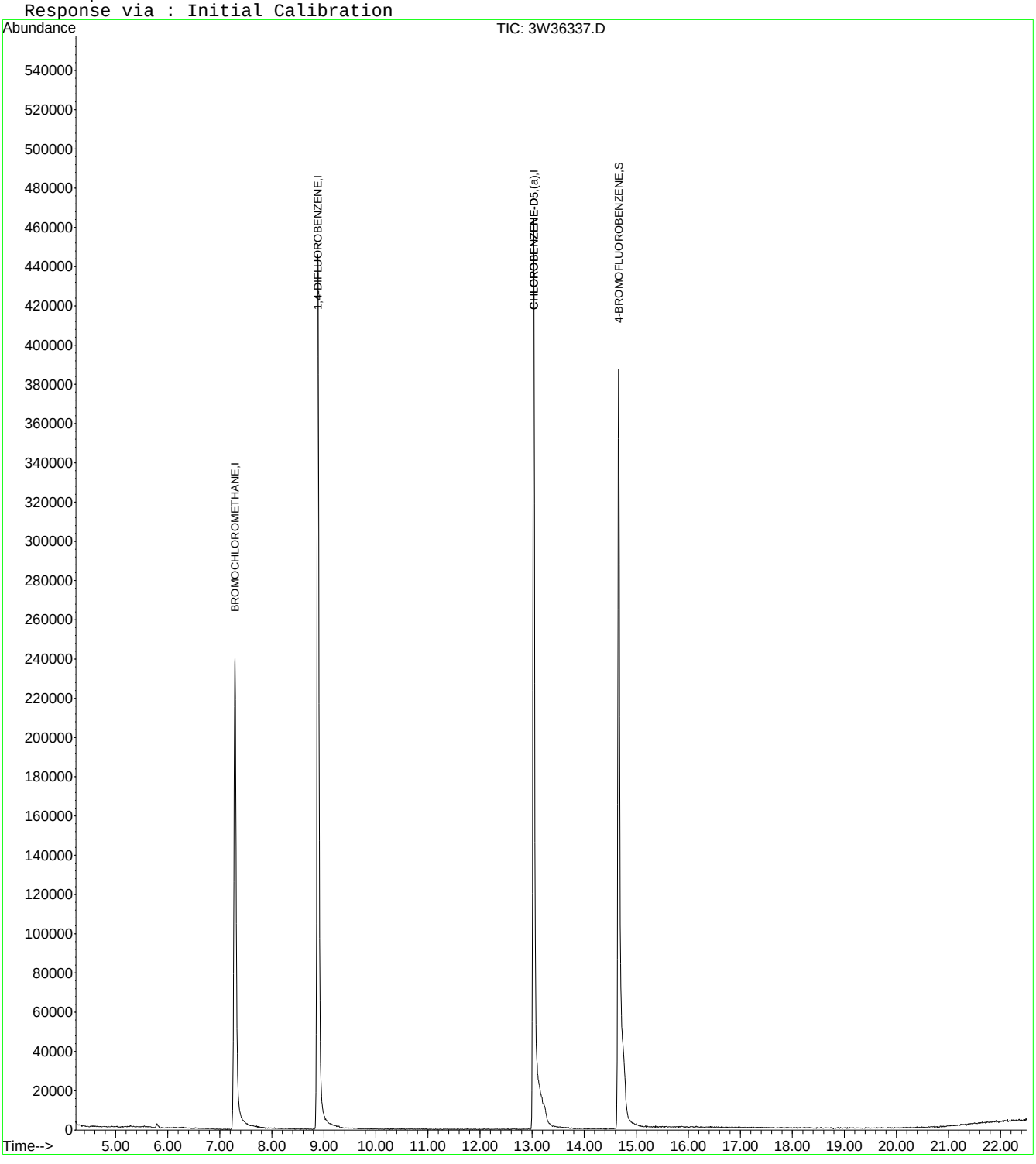
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36337.D M3W1350.M Tue Oct 08 10:25:07 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36337.D Vial: 5
Acq On : 7 Oct 2013 12:59 pm Operator: YOUMINH
Sample : MB Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44183.D Vial: 10
Acq On : 19 Oct 2013 5:34 pm Operator: danat
Sample : mb2 Inst : MSW
Misc : MS56739,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 08:32:02 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	160785	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.51	114	807183	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.87	82	315484	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	310286	8.29	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 82.90%

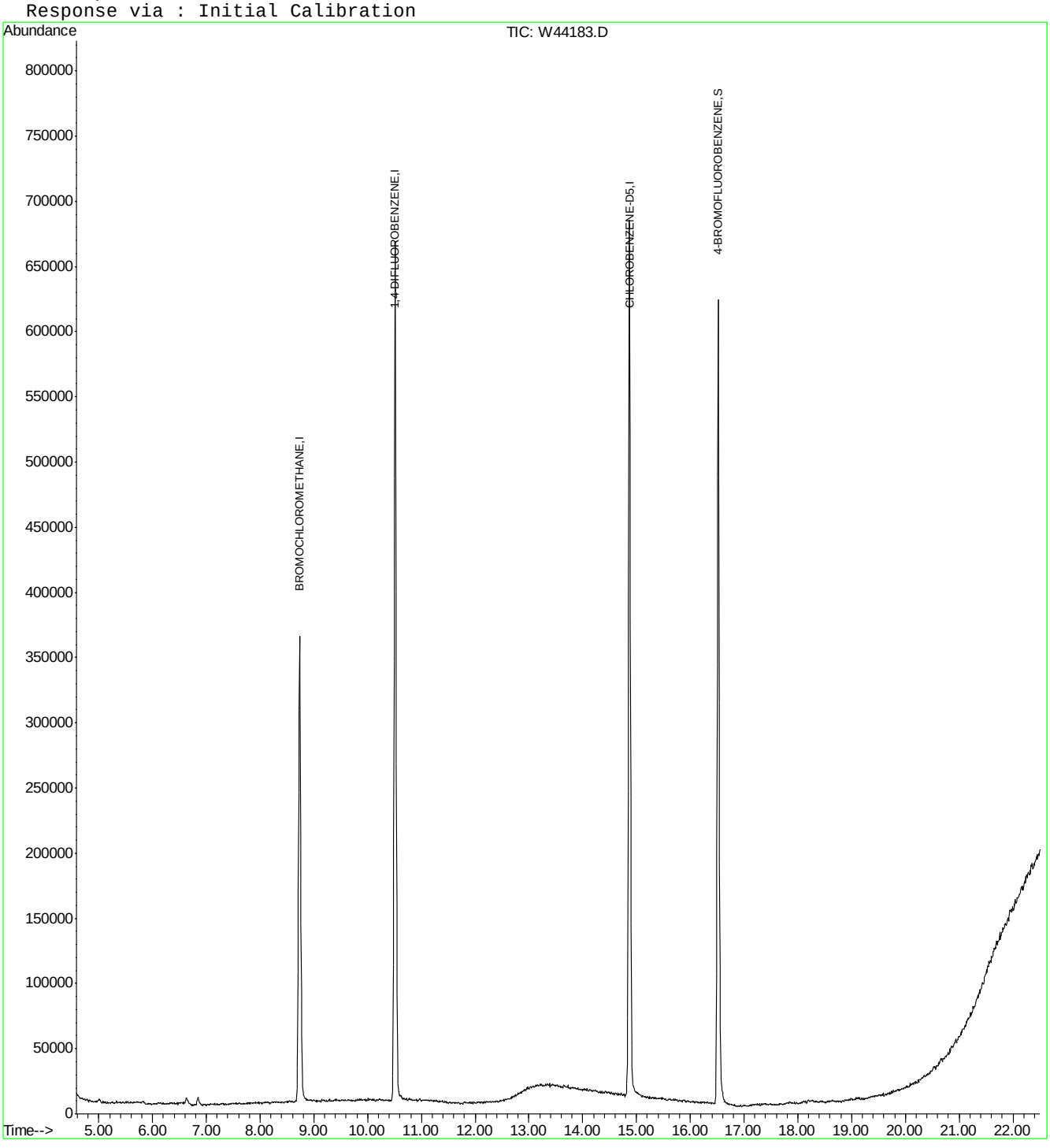
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W44183.D MW1765.M Wed Oct 23 12:01:19 2013 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44183.D Vial: 10
Acq On : 19 Oct 2013 5:34 pm Operator: danat
Sample : mb2 Inst : MSW
Misc : MS56739,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 12:01 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44202.D Vial: 2
Acq On : 21 Oct 2013 10:44 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 11:08:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	165281	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.53	114	861922	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	369998	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	466727	10.63	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.30%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	42594	9.38	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.75	85	457262	9.87	PPBV	99
6) PROPYLENE	4.68	41	142206	9.16	PPBV	98
7) FREON 114	4.97	85	467959	9.76	PPBV	98
8) CHLOROMETHANE	4.90	52	51147	9.34	PPBV #	85
9) VINYL CHLORIDE	5.08	62	194205	9.82	PPBV	100
10) 1,3-BUTADIENE	5.21	54	144086	9.26	PPBV	97
11) n-BUTANE	5.25	58	40336	9.64	PPBV	92
12) BROMOMETHANE	5.44	94	183734	10.00	PPBV	98
13) CHLOROETHANE	5.58	64	107759	9.79	PPBV	99
14) DICHLOROFLUOROMETHANE	5.65	67	384713	9.60	PPBV	100
15) ACROLEIN	5.99	56	72547	8.93	PPBV	100
16) FREON 123	5.99	83	418601	9.46	PPBV #	99
17) FREON 123A	6.03	117	281009	9.72	PPBV	95
18) TRICHLOROFLUOROMETHANE	6.22	101	459293	9.85	PPBV	100
19) ISOPROPYL ALCOHOL	6.33	45	237795	8.39	PPBV	97
20) ACETONE	6.11	58	109218	10.15	PPBV	95
21) ACRYLONITRILE	6.48	53	139662	9.45	PPBV	99
22) PENTANE	6.52	57	48278	8.99	PPBV	97
24) IODOMETHANE	6.72	142	529687	10.22	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.77	96	187913	9.71	PPBV	95
26) CARBON DISULFIDE	7.16	76	512400	8.93	PPBV	99
27) ETHANOL	5.72	45	62917	8.68	PPBV	95
28) ACETONITRILE	5.88	41	131873	9.01	PPBV	99
29) BROMOETHENE	5.88	106	194687	10.02	PPBV	98
30) METHYLENE CHLORIDE	6.86	84	168738	7.79	PPBV	96
31) 3-CHLOROPROPENE	6.97	76	85184	9.43	PPBV	93
32) FREON 113	7.07	151	352264	9.52	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.67	96	195505	9.49	PPBV	94
34) TERTIARY BUTYL ALCOHOL	6.85	59	270407	8.86	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.91	73	470110	8.43	PPBV	98
36) TETRAHYDROFURAN	9.29	72	111011	11.20	PPBV #	91
37) HEXANE	8.75	57	281198	8.39	PPBV	98
38) VINYL ACETATE	7.96	86	49980	9.64	PPBV #	82
39) 1,1-DICHLOROETHANE	7.85	63	320280	8.97	PPBV	99
40) METHYL ETHYL KETONE	8.22	72	105594	10.59	PPBV #	84
41) cis-1,2-DICHLOROETHYLENE	8.60	96	203813	9.73	PPBV	94
42) DI-ISOPROPYL ETHER	8.76	45	566151	8.16	PPBV	98
43) ETHYL ACETATE	8.80	61	54595	8.73	PPBV #	1
44) METHYL ACRYLATE	8.78	55	332989	9.29	PPBV	99
45) CHLOROFORM	8.86	83	362825	9.08	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44202.D Vial: 2
Acq On : 21 Oct 2013 10:44 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 11:08:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.57	57	342144	8.67	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	365710	9.01	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	393406	9.71	PPBV		99
49)	1,2-DICHLOROETHANE	9.55	62	215205	8.98	PPBV		100
51)	BENZENE	10.22	78	581763	8.74	PPBV		99
52)	CYCLOHEXANE	10.47	84	270485	8.96	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.67	71	136418	8.93	PPBV		95
54)	TRICHLOROETHYLENE	11.22	95	250997	8.81	PPBV		98
55)	DIBROMOMETHANE	10.98	174	282405	9.67	PPBV		96
56)	1,2-DICHLOROPROPANE	11.00	63	208429	8.55	PPBV		98
57)	ETHYL ACRYLATE	10.98	55	370833	8.61	PPBV		98
58)	BROMODICHLOROMETHANE	11.19	83	401765	9.48	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	929657	8.75	PPBV		99
60)	1,4-DIOXANE	11.30	88	88758	7.83	PPBV	#	32
61)	METHYL METHACRYLATE	11.41	69	199869	9.02	PPBV		93
62)	HEPTANE	11.47	43	313745	8.55	PPBV		96
64)	METHYL ISOBUTYL KETONE	12.11	43	327309	8.31	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.06	75	315320	8.69	PPBV		98
66)	TOLUENE	13.04	92	435840	9.35	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.58	75	306471	9.92	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.77	83	198099	9.19	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	311171	9.20	PPBV		98
71)	2-HEXANONE	13.33	43	304467	9.26	PPBV		97
72)	TETRACHLOROETHYLENE	14.20	164	322156	9.78	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	440664	10.79	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	355135	10.17	PPBV		99
75)	OCTANE	14.02	43	408778	8.63	PPBV		94
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	329677	10.51	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	568913	9.97	PPBV		98
78)	ETHYLBENZENE	15.31	91	889476	9.76	PPBV		99
79)	m,p-XYLENE	15.50	106	722926	20.36	PPBV		98
80)	o-XYLENE	16.02	106	353255	10.48	PPBV		97
81)	STYRENE	15.90	104	517679	10.17	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.17	75	346893	10.43	PPBV		98
83)	NONANE	16.22	43	411683	9.24	PPBV		95
84)	BROMOFORM	15.61	173	473210	11.98	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	460922	11.01	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1017210	10.20	PPBV		98
88)	BROMOBENZENE	16.78	156	321382	10.81	PPBV		96
89)	2-CHLOROTOLUENE	17.20	126	255457	10.90	PPBV	#	96
90)	n-PROPYLBENZENE	17.23	120	278780	10.92	PPBV		93
91)	4-ETHYLTOLUENE	17.39	105	911983	11.18	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	777400	11.08	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.66	118	372763	11.18	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	215059	11.25	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	741245	11.42	PPBV		99
96)	m-DICHLOROBENZENE	18.12	146	479941	12.17	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	475074	11.74	PPBV		99
98)	p-DICHLOROBENZENE	18.19	146	455366	12.05	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44202.D Vial: 2
Acq On : 21 Oct 2013 10:44 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 11:08:31 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

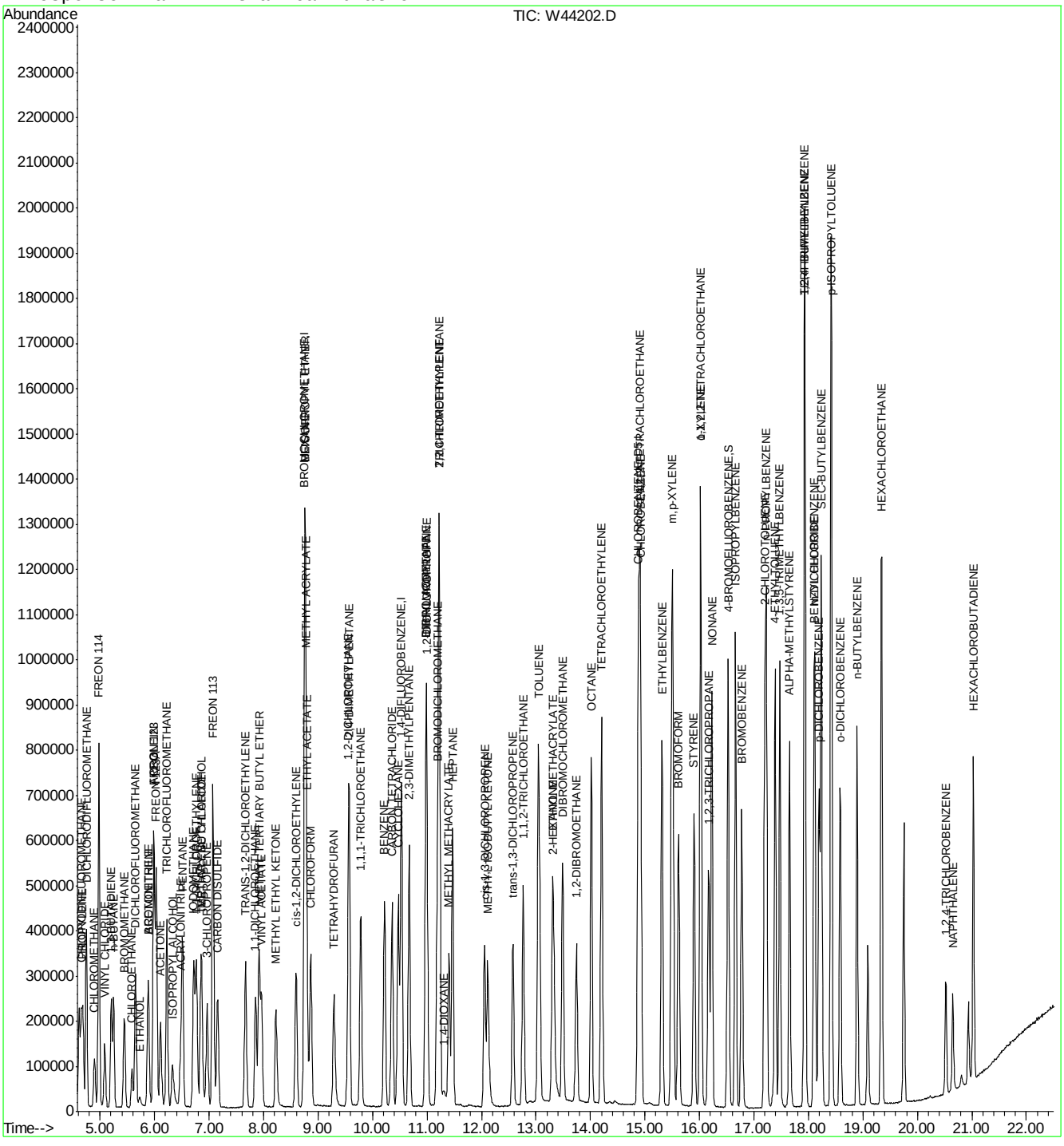
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	254362	11.83	PPBV	94
100)	p-ISOPROPYLTOLUENE	18.42	134	250160	11.99	PPBV	97
101)	o-DICHLOROBENZENE	18.58	146	445888	12.47	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	189199	12.24	PPBV	91
103)	HEXACHLOROETHANE	19.34	201	360415	13.97	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	198240	15.79	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	112708	13.30	PPBV	94
106)	NAPHTHALENE	20.65	128	242290	13.81	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44202.D Vial: 2
Acq On : 21 Oct 2013 10:44 am Operator: danat
Sample : bs Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:57 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44204.D Vial: 2
Acq On : 21 Oct 2013 12:09 pm Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:57:23 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	187408	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	972225	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	406523	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	511251	10.60	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 106.00%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	46612	9.06	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.74	85	508603	9.68	PPBV	100
6) PROPYLENE	4.68	41	156564	8.89	PPBV	99
7) FREON 114	4.97	85	524397	9.65	PPBV	99
8) CHLOROMETHANE	4.89	52	57789	9.31	PPBV #	84
9) VINYL CHLORIDE	5.08	62	217097	9.68	PPBV	99
10) 1,3-BUTADIENE	5.20	54	161998	9.19	PPBV	97
11) n-BUTANE	5.24	58	44832	9.45	PPBV	92
12) BROMOMETHANE	5.44	94	204206	9.80	PPBV	99
13) CHLOROETHANE	5.58	64	120132	9.62	PPBV	99
14) DICHLOROFLUOROMETHANE	5.65	67	427929	9.42	PPBV	99
15) ACROLEIN	5.97	56	85105	9.23	PPBV	99
16) FREON 123	5.97	83	477846	9.52	PPBV #	100
17) FREON 123A	6.02	117	319582	9.75	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.22	101	516230	9.76	PPBV	100
19) ISOPROPYL ALCOHOL	6.30	45	297730	9.26	PPBV	96
20) ACETONE	6.09	58	103527	8.48	PPBV	96
21) ACRYLONITRILE	6.47	53	163161	9.74	PPBV	100
22) PENTANE	6.50	57	55601	9.13	PPBV	96
24) IODOMETHANE	6.71	142	597040	10.16	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.75	96	209438	9.55	PPBV	95
26) CARBON DISULFIDE	7.14	76	576717	8.87	PPBV	99
27) ETHANOL	5.70	45	75886	9.24	PPBV #	96
28) ACETONITRILE	5.87	41	150272	9.05	PPBV	94
29) BROMOETHENE	5.88	106	223206	10.13	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	188427	7.67	PPBV	96
31) 3-CHLOROPROPENE	6.95	76	99904	9.75	PPBV	91
32) FREON 113	7.07	151	400485	9.54	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	224385	9.60	PPBV	94
34) TERTIARY BUTYL ALCOHOL	6.82	59	358632	10.36	PPBV	97
35) METHYL TERTIARY BUTYL ETHE	7.90	73	542837	8.59	PPBV	98
36) TETRAHYDROFURAN	9.27	72	99805	8.88	PPBV	92
37) HEXANE	8.75	57	329437	8.67	PPBV	97
38) VINYL ACETATE	7.95	86	57295	9.75	PPBV #	82
39) 1,1-DICHLOROETHANE	7.85	63	371202	9.17	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	107882	9.55	PPBV #	85
41) cis-1,2-DICHLOROETHYLENE	8.58	96	233991	9.86	PPBV	95
42) DI-ISOPROPYL ETHER	8.75	45	646098	8.22	PPBV	98
43) ETHYL ACETATE	8.77	61	61488	8.67	PPBV #	96
44) METHYL ACRYLATE	8.77	55	384450	9.45	PPBV	98
45) CHLOROFORM	8.85	83	417967	9.22	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44204.D Vial: 2
Acq On : 21 Oct 2013 12:09 pm Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:57:23 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.56	57	397539	8.88	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.77	97	418258	9.09	PPBV		99
48)	CARBON TETRACHLORIDE	10.35	117	450678	9.82	PPBV		100
49)	1,2-DICHLOROETHANE	9.54	62	245827	9.04	PPBV		100
51)	BENZENE	10.21	78	677666	9.03	PPBV		99
52)	CYCLOHEXANE	10.46	84	316576	9.29	PPBV		96
53)	2,3-DIMETHYLPENTANE	10.66	71	159562	9.26	PPBV		95
54)	TRICHLOROETHYLENE	11.21	95	289308	9.00	PPBV		98
55)	DIBROMOMETHANE	10.97	174	324563	9.85	PPBV		97
56)	1,2-DICHLOROPROPANE	10.99	63	238919	8.69	PPBV		99
57)	ETHYL ACRYLATE	10.97	55	424413	8.74	PPBV		98
58)	BROMODICHLOROMETHANE	11.17	83	462365	9.67	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	1070869	8.94	PPBV		100
60)	1,4-DIOXANE	11.29	88	122390	9.57	PPBV	#	33
61)	METHYL METHACRYLATE	11.39	69	226861	9.08	PPBV		94
62)	HEPTANE	11.46	43	358421	8.66	PPBV		95
64)	METHYL ISOBUTYL KETONE	12.10	43	385146	8.67	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.05	75	360349	8.81	PPBV		97
66)	TOLUENE	13.03	92	493819	9.39	PPBV		98
67)	trans-1,3-DICHLOROPROPENE	12.56	75	351146	10.07	PPBV		97
68)	1,1,2-TRICHLOROETHANE	12.75	83	221759	9.12	PPBV		98
70)	ETHYL METHACRYLATE	13.29	69	353599	9.51	PPBV		97
71)	2-HEXANONE	13.31	43	354139	9.80	PPBV		96
72)	TETRACHLOROETHYLENE	14.20	164	365297	10.09	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.48	129	494462	11.02	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	406714	10.60	PPBV		100
75)	OCTANE	14.01	43	464325	8.92	PPBV		93
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	366060	10.62	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	642137	10.24	PPBV		97
78)	ETHYLBENZENE	15.30	91	991113	9.90	PPBV		99
79)	m,p-XYLENE	15.50	106	803738	20.60	PPBV		99
80)	o-XYLENE	16.02	106	391029	10.56	PPBV		98
81)	STYRENE	15.89	104	578219	10.34	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	389237	10.65	PPBV		99
83)	NONANE	16.22	43	461730	9.43	PPBV		96
84)	BROMOFORM	15.61	173	523509	12.06	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	515788	11.21	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1132258	10.33	PPBV		99
88)	BROMOBENZENE	16.77	156	361106	11.06	PPBV		96
89)	2-CHLOROTOLUENE	17.19	126	282711	10.98	PPBV	#	96
90)	n-PROPYLBENZENE	17.22	120	309771	11.05	PPBV		93
91)	4-ETHYLTOLUENE	17.38	105	1019130	11.37	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	865962	11.24	PPBV		98
93)	ALPHA-METHYLSTYRENE	17.65	118	417467	11.40	PPBV		100
94)	TERT-BUTYLBENZENE	17.92	134	240395	11.45	PPBV		95
95)	1,2,4-TRIMETHYLBENZENE	17.93	105	819530	11.49	PPBV		99
96)	m-DICHLOROBENZENE	18.11	146	540524	12.47	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	554776	12.48	PPBV		99
98)	p-DICHLOROBENZENE	18.19	146	524926	12.64	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44204.D Vial: 2
Acq On : 21 Oct 2013 12:09 pm Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:57:23 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

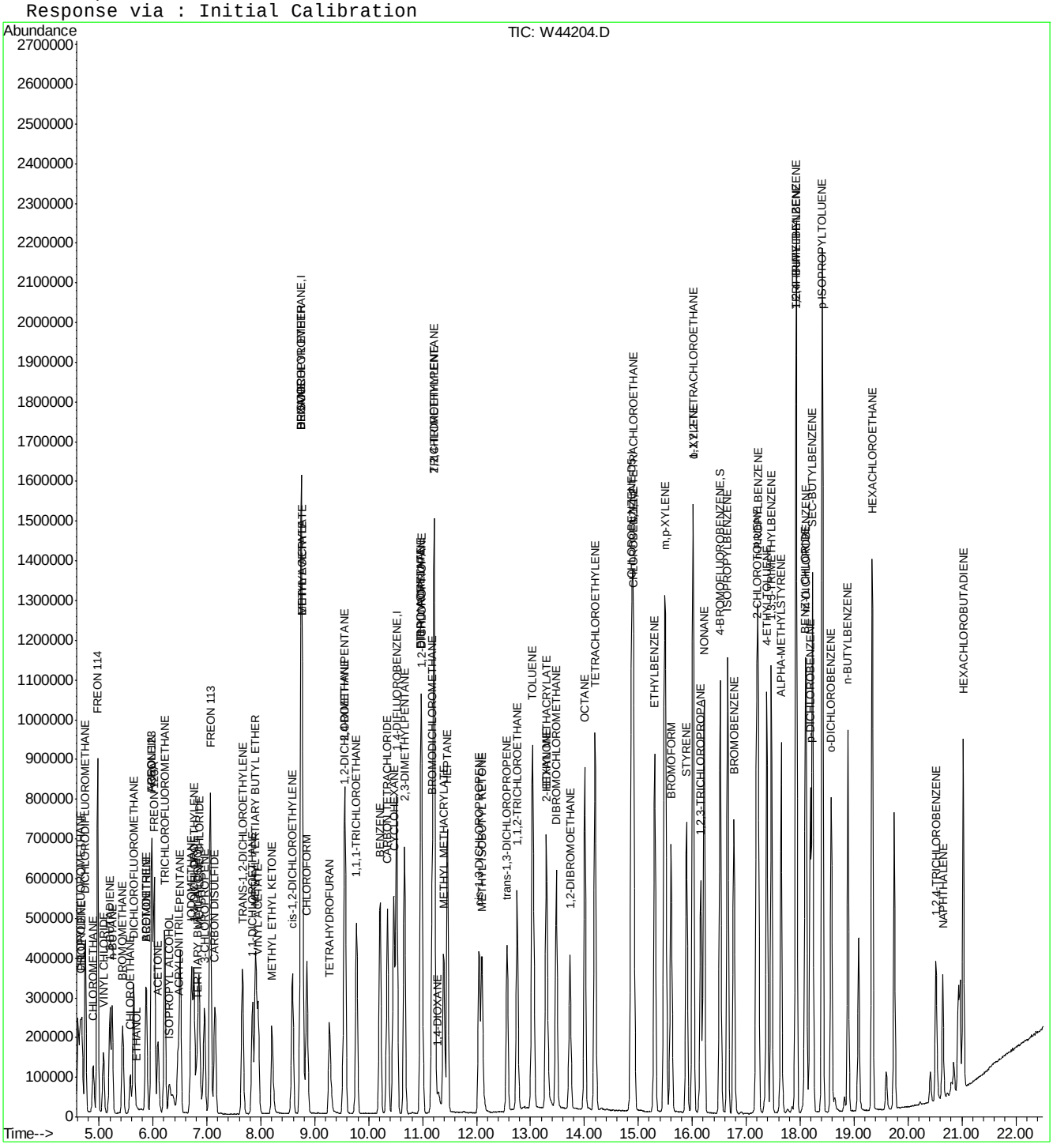
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	283235	11.99	PPBV	93
100)	p-ISOPROPYLTOLUENE	18.41	134	280338	12.22	PPBV	97
101)	o-DICHLOROBENZENE	18.58	146	501283	12.76	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	218231	12.85	PPBV	91
103)	HEXACHLOROETHANE	19.34	201	400197	14.12	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	237711	17.23	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	153710	16.51	PPBV	98
106)	NAPHTHALENE	20.65	128	335336	17.40	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44204.D Vial: 2
Acq On : 21 Oct 2013 12:09 pm Operator: danat
Sample : bsd Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:57 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36334.D Vial: 3
Acq On : 7 Oct 2013 10:57 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:52 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	142513	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.89	114	655162	10.00	PPBV	-0.07
68) CHLOROBENZENE-D5	13.03	82	274630	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	282616	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	303480	9.83	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.30%			
Target Compounds						Qvalue
3) FREON 152A	4.28	65	130191	9.99	PPBV	92
4) CHLORODIFLUOROMETHANE	4.31	67	41532	8.70	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.36	85	460413	9.01	PPBV	97
6) PROPYLENE	4.32	41	171281	10.57	PPBV	96
7) FREON 114	4.50	85	530838	9.84	PPBV	98
8) CHLOROMETHANE	4.46	50	231264	9.92	PPBV	98
9) VINYL CHLORIDE	4.58	62	233747	10.18	PPBV	99
10) 1,3-BUTADIENE	4.64	54	160192	9.68	PPBV	90
11) n-BUTANE	4.67	43	318136	9.77	PPBV	98
12) BROMOMETHANE	4.81	94	211463	9.80	PPBV	100
13) CHLOROETHANE	4.89	64	120048	10.17	PPBV	98
14) DICHLOROFLUOROMETHANE	4.94	67	441508	9.86	PPBV	99
15) ACETONITRILE	5.12	41	142430	11.32	PPBV	96
16) FREON 123	5.15	83	480584	9.68	PPBV	99
17) FREON 123A	5.19	117	277594	9.42	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.32	101	424857	8.53	PPBV	99
19) ISOPROPYL ALCOHOL	5.37	45	340261	10.87	PPBV	96
20) ACETONE	5.23	58	101347	11.93	PPBV #	80
21) PENTANE	5.49	42	205331	9.75	PPBV	92
23) IODOMETHANE	5.67	142	563883	9.94	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.71	96	205513	10.14	PPBV	95
25) CARBON DISULFIDE	5.98	76	601432	10.55	PPBV	98
26) ETHANOL	4.98	45	77698	9.91	PPBV	95
27) BROMOETHENE	5.09	106	212327	9.59	PPBV	99
28) ACRYLONITRILE	5.51	52	116979	11.15	PPBV	93
29) METHYLENE CHLORIDE	5.79	84	188687	9.48	PPBV	91
30) 3-CHLOROPROPENE	5.85	76	93139	10.45	PPBV #	85
31) FREON 113	5.93	151	343007	9.92	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.38	96	197518	10.22	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.72	59	412806	10.53	PPBV	94
34) METHYL TERTIARY BUTYL ETHE	6.53	73	491406	9.87	PPBV	98
35) TETRAHYDROFURAN	7.68	72	95738	10.98	PPBV	98
36) HEXANE	7.22	57	300356	10.14	PPBV	92
37) VINYL ACETATE	6.63	86	41729	10.55	PPBV #	86
38) 1,1-DICHLOROETHANE	6.53	63	339589	9.18	PPBV	98
39) METHYL ETHYL KETONE	6.80	72	96358	11.00	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	7.18	96	201629	9.51	PPBV	99
41) DIISOPROPYL ETHER	7.23	45	656945	10.00	PPBV	93
42) ETHYL ACETATE	7.30	61	67137	10.80	PPBV	95
43) METHYL ACRYLATE	7.31	55	298496	10.17	PPBV #	95
44) CHLOROFORM	7.38	83	357935	8.89	PPBV	97
45) 2,4-DIMETHYLPENTANE	7.92	57	375942	9.56	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.17	97	347823	8.50	PPBV	98
47) CARBON TETRACHLORIDE	8.70	117	354397	8.37	PPBV	99
48) 1,2-DICHLOROETHANE	7.96	62	182566	8.34	PPBV	99
50) BENZENE	8.57	78	584377	8.69	PPBV	99
51) CYCLOHEXANE	8.74	84	310551	8.87	PPBV	96
52) 2,3-DIMETHYLPENTANE	8.93	71	141588	9.11	PPBV	94

(#) = qualifier out of range (m) = manual integration
3W36334.D M3W1350.M Tue Oct 08 10:24:47 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36334.D Vial: 3
Acq On : 7 Oct 2013 10:57 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:52 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

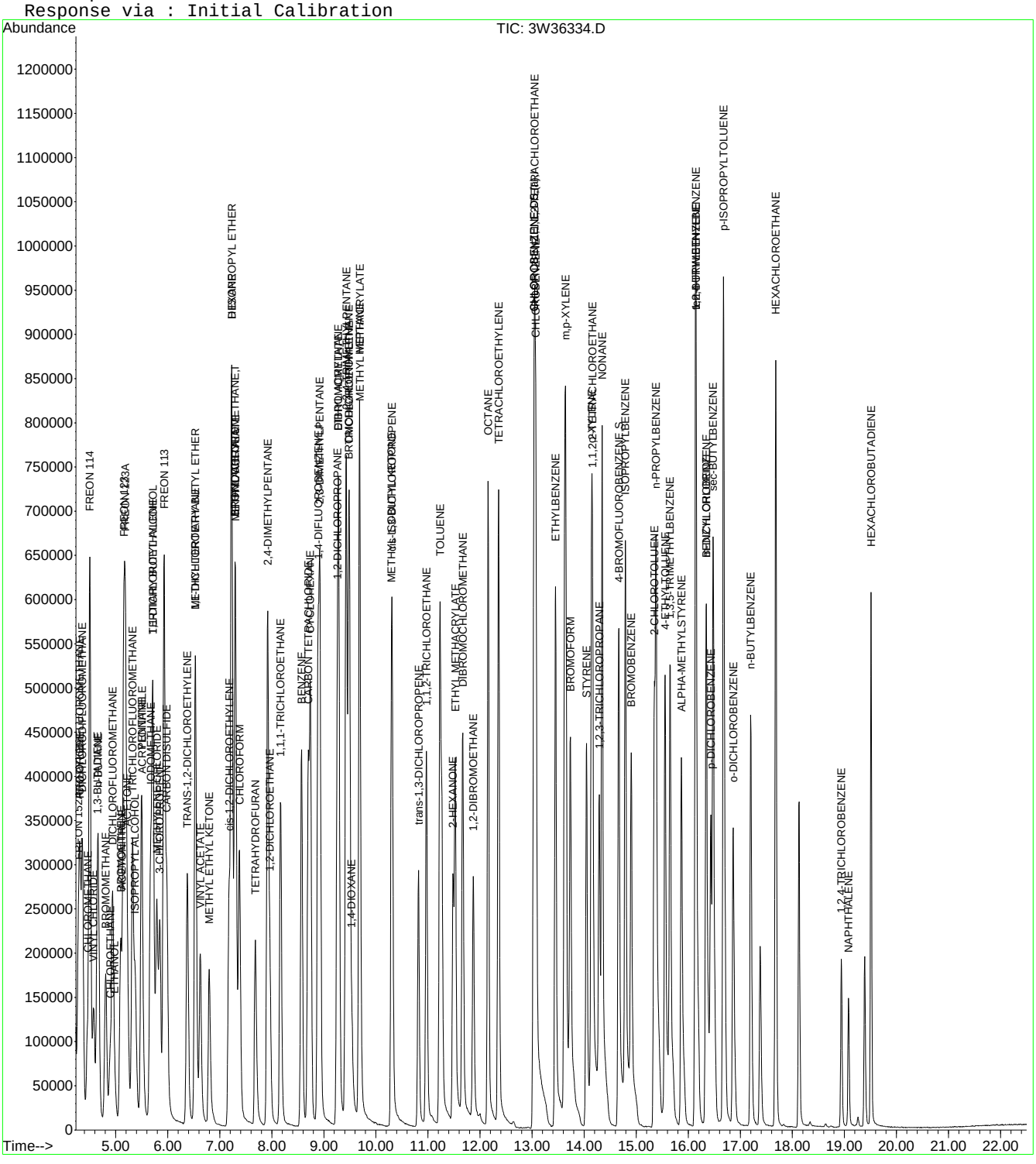
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.49	95	227304	8.65	PPBV	94
54)	1,2-DICHLOROPROPANE	9.25	63	226036	9.27	PPBV	95
55)	DIBROMOMETHANE	9.28	174	240228	9.11	PPBV	99
56)	ETHYL ACRYLATE	9.28	55	373327	9.74	PPBV	99
57)	BROMODICHLOROMETHANE	9.47	83	360757	8.33	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.42	57	964834	9.38	PPBV	100
59)	1,4-DIOXANE	9.53	88	115589	8.95	PPBV	96
60)	HEPTANE	9.68	43	336650	9.12	PPBV	97
62)	METHYL METHACRYLATE	9.70	69	197833	9.89	PPBV	90
63)	METHYL ISOBUTYL KETONE	10.29	58	153483	10.38	PPBV	95
64)	cis-1,3-DICHLOROPROPENE	10.31	75	306187	10.09	PPBV	91
65)	TOLUENE	11.23	92	372910	9.01	PPBV	98
66)	trans-1,3-DICHLOROPROPENE	10.82	75	237902	8.18	PPBV	95
67)	1,1,2-TRICHLOROETHANE	10.97	83	187073	9.03	PPBV	100
69)	2-HEXANONE	11.48	58	208776	12.84	PPBV	93
70)	ETHYL METHACRYLATE	11.52	69	319557	12.56	PPBV	96
71)	TETRACHLOROETHYLENE	12.36	164	257210	10.03	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.67	129	380105	10.44	PPBV	99
73)	1,2-DIBROMOETHANE	11.87	107	295890	10.70	PPBV	100
74)	OCTANE	12.16	43	455485	11.51	PPBV	99
75)	1,1,1,2-TETRACHLOROETHANE	13.06	131	276132	10.46	PPBV	95
76)	CHLOROBENZENE	13.07	112	437743	10.29	PPBV	97
77)	ETHYLBENZENE	13.45	91	698782	10.18	PPBV	98
78)	m,p-XYLENE	13.64	106	537637	20.74	PPBV	97
79)	o-XYLENE	14.14	106	266054	10.59	PPBV	94
80)	STYRENE	14.05	104	344768	9.11	PPBV	96
81)	NONANE	14.35	43	416763	11.80	PPBV	99
82)	BROMOFORM	13.74	173	314322	9.35	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.16	83	366233	9.92	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.29	75	272060	10.21	PPBV	99
86)	ISOPROPYLBENZENE	14.79	105	741717	9.99	PPBV	98
87)	BROMOBENZENE	14.91	77	313200	9.76	PPBV	100
88)	2-CHLOROTOLUENE	15.35	126	176036	10.07	PPBV	100
89)	n-PROPYLBENZENE	15.38	120	189138	10.78	PPBV	98
90)	4-ETHYLTOLUENE	15.56	105	521901	8.41	PPBV	98
91)	1,3,5-TRIMETHYLBENZENE	15.65	105	504436	9.51	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.87	118	225080	9.12	PPBV	98
93)	tert-BUTYLBENZENE	16.14	134	127756	9.80	PPBV	94
94)	1,2,4-TRIMETHYLBENZENE	16.15	105	449254	9.75	PPBV	95
95)	m-DICHLOROBENZENE	16.34	146	272293	9.14	PPBV	100
96)	BENZYL CHLORIDE	16.35	91	313087	8.78	PPBV	98
97)	p-DICHLOROBENZENE	16.43	146	266781	9.09	PPBV	100
98)	sec-BUTYLBENZENE	16.48	134	137144	9.11	PPBV	99
99)	p-ISOPROPYLTOLUENE	16.68	134	140458	9.11	PPBV	97
100)	o-DICHLOROBENZENE	16.86	146	251900	8.86	PPBV	99
101)	n-BUTYLBENZENE	17.20	134	106218	8.80	PPBV	99
102)	HEXACHLOROETHANE	17.68	117	233257	10.07	PPBV	96
103)	HEXACHLOROBUTADIENE	19.51	225	142133	9.88	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	18.94	180	85979	8.70	PPBV	99
106)	NAPHTHALENE	19.08	128	151896	8.34	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36334.D M3W1350.M Tue Oct 08 10:24:47 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36334.D Vial: 3
Acq On : 7 Oct 2013 10:57 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50673

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36335.D Vial: 3
Acq On : 7 Oct 2013 11:36 am Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:56 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	132974	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.89	114	607823	10.00	PPBV	-0.07
68) CHLOROBENZENE-D5	13.03	82	259901	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	265840	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.67	95	277018	9.49	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.90%			
Target Compounds						Qvalue
3) FREON 152A	4.28	65	107945	8.87	PPBV	92
4) CHLORODIFLUOROMETHANE	4.31	67	35882	8.05	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.36	85	409680	8.60	PPBV	97
6) PROPYLENE	4.32	41	150136	9.93	PPBV	97
7) FREON 114	4.50	85	454682	9.03	PPBV	100
8) CHLOROMETHANE	4.46	50	191024	8.78	PPBV	98
9) VINYL CHLORIDE	4.58	62	197663	9.23	PPBV	98
10) 1,3-BUTADIENE	4.64	54	136968	8.87	PPBV	90
11) n-BUTANE	4.67	43	272057	8.95	PPBV	98
12) BROMOMETHANE	4.81	94	189147	9.40	PPBV	99
13) CHLOROETHANE	4.90	64	104496	9.49	PPBV	98
14) DICHLOROFLUOROMETHANE	4.94	67	391328	9.37	PPBV	98
15) ACETONITRILE	5.11	41	119950	10.22	PPBV	99
16) FREON 123	5.15	83	428233	9.24	PPBV	99
17) FREON 123A	5.19	117	246841	8.97	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.32	101	381588	8.21	PPBV	100
19) ISOPROPYL ALCOHOL	5.37	45	299381	10.25	PPBV	94
20) ACETONE	5.23	58	88955	11.22	PPBV #	78
21) PENTANE	5.49	42	179887	9.15	PPBV	94
23) IODOMETHANE	5.67	142	509479	9.62	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.71	96	182478	9.65	PPBV	96
25) CARBON DISULFIDE	5.98	76	538802	10.13	PPBV	98
26) ETHANOL	4.97	45	67648	9.24	PPBV	94
27) BROMOETHENE	5.09	106	189664	9.18	PPBV	98
28) ACRYLONITRILE	5.52	52	102230	10.44	PPBV	95
29) METHYLENE CHLORIDE	5.79	84	168971	9.10	PPBV	90
30) 3-CHLOROPROPENE	5.85	76	82973	9.98	PPBV #	83
31) FREON 113	5.93	151	309433	9.59	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.38	96	178404	9.90	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.72	59	363506	9.94	PPBV	94
34) METHYL TERTIARY BUTYL ETHE	6.53	73	440671	9.49	PPBV	98
35) TETRAHYDROFURAN	7.68	72	87464	10.75	PPBV	98
36) HEXANE	7.23	57	271875	9.84	PPBV	92
37) VINYL ACETATE	6.63	86	37018	10.03	PPBV #	81
38) 1,1-DICHLOROETHANE	6.53	63	305520	8.85	PPBV	98
39) METHYL ETHYL KETONE	6.80	72	86815	10.63	PPBV #	90
40) cis-1,2-DICHLOROETHYLENE	7.18	96	179692	9.09	PPBV	99
41) DIISOPROPYL ETHER	7.23	45	584671	9.54	PPBV	99
42) ETHYL ACETATE	7.30	61	58825	10.15	PPBV	97
43) METHYL ACRYLATE	7.31	55	265248	9.68	PPBV	96
44) CHLOROFORM	7.38	83	321758	8.56	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.92	57	339793	9.26	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.17	97	313685	8.22	PPBV	99
47) CARBON TETRACHLORIDE	8.70	117	324955	8.22	PPBV	99
48) 1,2-DICHLOROETHANE	7.96	62	165687	8.11	PPBV	99
50) BENZENE	8.57	78	532161	8.53	PPBV	99
51) CYCLOHEXANE	8.74	84	283986	8.74	PPBV	97
52) 2,3-DIMETHYLPENTANE	8.93	71	125388	8.69	PPBV	96

(#) = qualifier out of range (m) = manual integration
3W36335.D M3W1350.M Tue Oct 08 10:25:03 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36335.D Vial: 3
Acq On : 7 Oct 2013 11:36 am Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:56 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

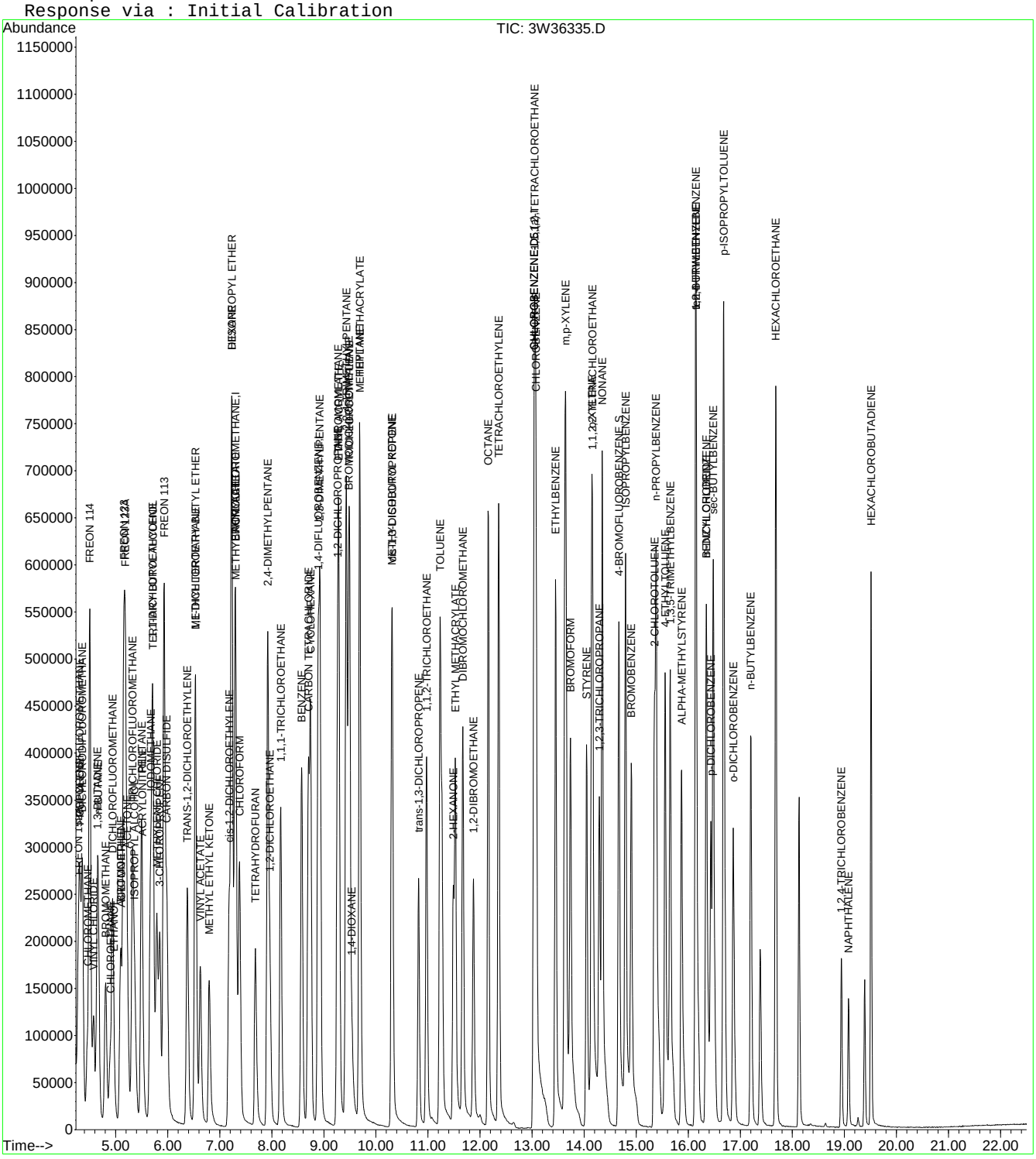
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.50	95	209335	8.59	PPBV		94
54)	1,2-DICHLOROPROPANE	9.26	63	204366	9.03	PPBV		95
55)	DIBROMOMETHANE	9.28	174	220405	9.01	PPBV		99
56)	ETHYL ACRYLATE	9.29	55	336143	9.45	PPBV		99
57)	BROMODICHLOROMETHANE	9.47	83	328423	8.17	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.43	57	873738	9.16	PPBV		100
59)	1,4-DIOXANE	9.54	88	103078	8.60	PPBV		94
60)	HEPTANE	9.69	43	308480	9.00	PPBV		99
62)	METHYL METHACRYLATE	9.70	69	180395	9.72	PPBV	#	87
63)	METHYL ISOBUTYL KETONE	10.30	58	139606	10.18	PPBV		95
64)	cis-1,3-DICHLOROPROPENE	10.32	75	278189	9.88	PPBV		91
65)	TOLUENE	11.23	92	343962	8.96	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.82	75	216598	8.03	PPBV		94
67)	1,1,2-TRICHLOROETHANE	10.97	83	171566	8.93	PPBV		99
69)	2-HEXANONE	11.49	58	188370	12.24	PPBV		93
70)	ETHYL METHACRYLATE	11.52	69	290407	12.06	PPBV		96
71)	TETRACHLOROETHYLENE	12.36	164	238477	9.83	PPBV		100
72)	DIBROMOCHLOROMETHANE	11.67	129	348772	10.12	PPBV		99
73)	1,2-DIBROMOETHANE	11.88	107	270357	10.33	PPBV		100
74)	OCTANE	12.16	43	410877	10.97	PPBV		99
75)	1,1,1,2-TETRACHLOROETHANE	13.06	131	251002	10.05	PPBV		95
76)	CHLOROBENZENE	13.08	112	402030	9.99	PPBV		97
77)	ETHYLBENZENE	13.45	91	646828	9.96	PPBV		99
78)	m,p-XYLENE	13.64	106	493555	20.12	PPBV		100
79)	o-XYLENE	14.15	106	244924	10.30	PPBV		94
80)	STYRENE	14.05	104	319010	8.91	PPBV		97
81)	NONANE	14.35	43	374097	11.19	PPBV		99
82)	BROMOFORM	13.74	173	290851	9.15	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.16	83	337886	9.67	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.29	75	249534	9.90	PPBV		100
86)	ISOPROPYLBENZENE	14.80	105	676071	9.62	PPBV		98
87)	BROMOBENZENE	14.91	77	281935	9.28	PPBV		99
88)	2-CHLOROTOLUENE	15.35	126	160448	9.69	PPBV		99
89)	n-PROPYLBENZENE	15.39	120	172516	10.39	PPBV		98
90)	4-ETHYLTOLUENE	15.56	105	477755	8.13	PPBV		98
91)	1,3,5-TRIMETHYLBENZENE	15.65	105	459816	9.16	PPBV		98
92)	ALPHA-METHYLSTYRENE	15.87	118	204118	8.74	PPBV		99
93)	tert-BUTYLBENZENE	16.14	134	116412	9.44	PPBV		95
94)	1,2,4-TRIMETHYLBENZENE	16.15	105	409533	9.39	PPBV		95
95)	m-DICHLOROBENZENE	16.35	146	256280	9.09	PPBV		99
96)	BENZYL CHLORIDE	16.35	91	284091	8.41	PPBV		99
97)	p-DICHLOROBENZENE	16.43	146	235521	8.48	PPBV		100
98)	sec-BUTYLBENZENE	16.48	134	125334	8.80	PPBV		97
99)	p-ISOPROPYLTOLUENE	16.68	134	126585	8.68	PPBV		98
100)	o-DICHLOROBENZENE	16.86	146	228138	8.48	PPBV		99
101)	n-BUTYLBENZENE	17.21	134	98209	8.59	PPBV		97
102)	HEXACHLOROETHANE	17.68	117	212915	9.71	PPBV		96
103)	HEXACHLOROBUTADIENE	19.51	225	138373	10.16	PPBV		100
104)	1,2,4-TRICHLOROBENZENE	18.95	180	81609	8.72	PPBV		96
106)	NAPHTHALENE	19.08	128	139766	8.16	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36335.D Vial: 3
Acq On : 7 Oct 2013 11:36 am Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50673

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/22/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44214.D Vial: 2
Acq On : 21 Oct 2013 6:48 pm Operator: danat
Sample : jb50673-2dup Inst : MSW
Misc : MS57076,VW1770,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 08:38:05 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

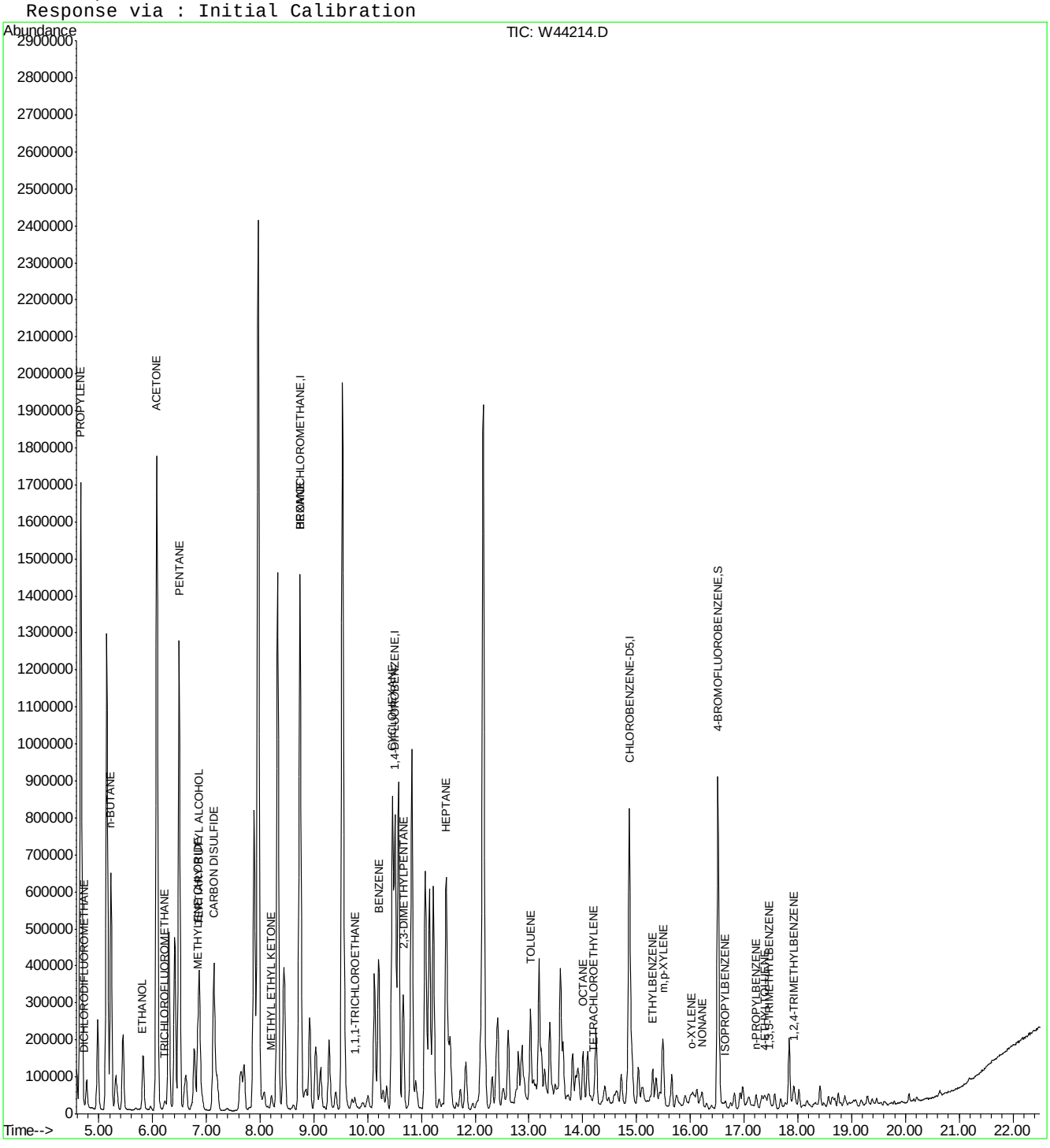
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	179248	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.51	114	875727	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.86	82	377562	10.00	PPBV	-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	430986	9.62	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.20%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.72	85	6886	0.14	PPBV	95
6) PROPYLENE	4.66	41	1171460	69.58	PPBV	97
11) n-BUTANE	5.22	58	105734	23.29	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.21	101	7407	0.15	PPBV	91
20) ACETONE	6.08	58	133273	11.42	PPBV #	1
22) PENTANE	6.49	57	178822	30.72	PPBV #	92
26) CARBON DISULFIDE	7.14	76	838594	13.48	PPBV	99
27) ETHANOL	5.80	45	27117	3.45	PPBV #	92
30) METHYLENE CHLORIDE	6.84	84	110472	4.70	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.87	59	18509	0.56	PPBV #	1
37) HEXANE	8.74	57	699364	19.24	PPBV #	84
40) METHYL ETHYL KETONE	8.22	72	18600m	1.72	PPBV	
47) 1,1,1-TRICHLOROETHANE	9.77	97	8313	0.19	PPBV	96
51) BENZENE	10.21	78	488188	7.22	PPBV	99
52) CYCLOHEXANE	10.46	84	474921	15.48	PPBV	94
53) 2,3-DIMETHYLPENTANE	10.66	71	72711	4.68	PPBV #	92
62) HEPTANE	11.46	43	304865	8.18	PPBV	97
66) TOLUENE	13.03	92	153825	3.25	PPBV	98
72) TETRACHLOROETHYLENE	14.19	164	3884	0.12	PPBV	96
75) OCTANE	14.00	43	61352	1.27	PPBV	92
78) ETHYLBENZENE	15.30	91	104672	1.13	PPBV	99
79) m,p-XYLENE	15.49	106	55000	1.52	PPBV	97
80) o-XYLENE	16.01	106	12727	0.37	PPBV #	88
83) NONANE	16.22	43	15398	0.34	PPBV	83
87) ISOPROPYLBENZENE	16.66	105	13147	0.13	PPBV	96
90) n-PROPYLBENZENE	17.22	120	7645	0.29	PPBV #	19
91) 4-ETHYLTOLUENE	17.38	105	20131m	0.24	PPBV	
92) 1,3,5-TRIMETHYLBENZENE	17.47	105	21951	0.31	PPBV #	93
95) 1,2,4-TRIMETHYLBENZENE	17.93	105	22452	0.34	PPBV #	30

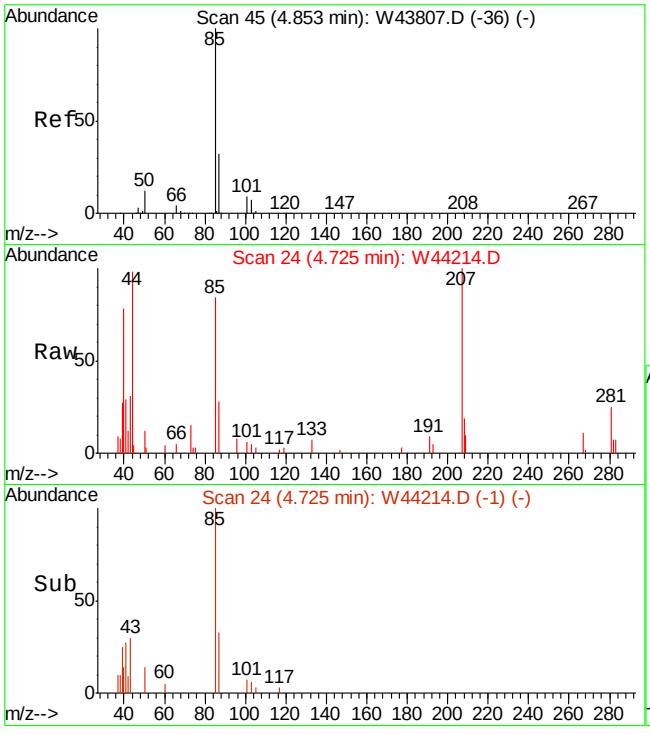
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44214.D Vial: 2
Acq On : 21 Oct 2013 6:48 pm Operator: danat
Sample : jb50673-2dup Inst : MSW
Misc : MS57076,VW1770,100,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 9:04 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration

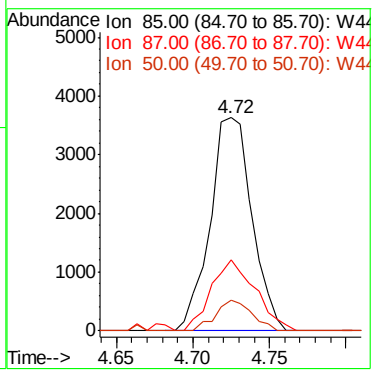


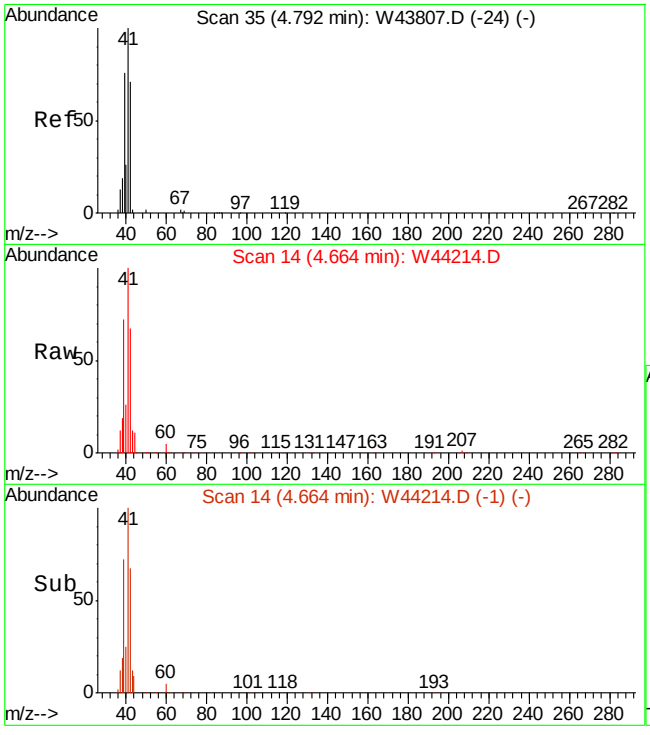


#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.72 min Scan# 24
Delta R.T. -0.05 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 85 Resp: 6886

Ion	Ratio	Lower	Upper
85	100		
87	35.1	12.1	52.1
50	12.4	0.0	30.6

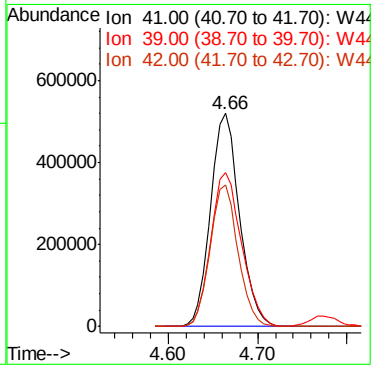


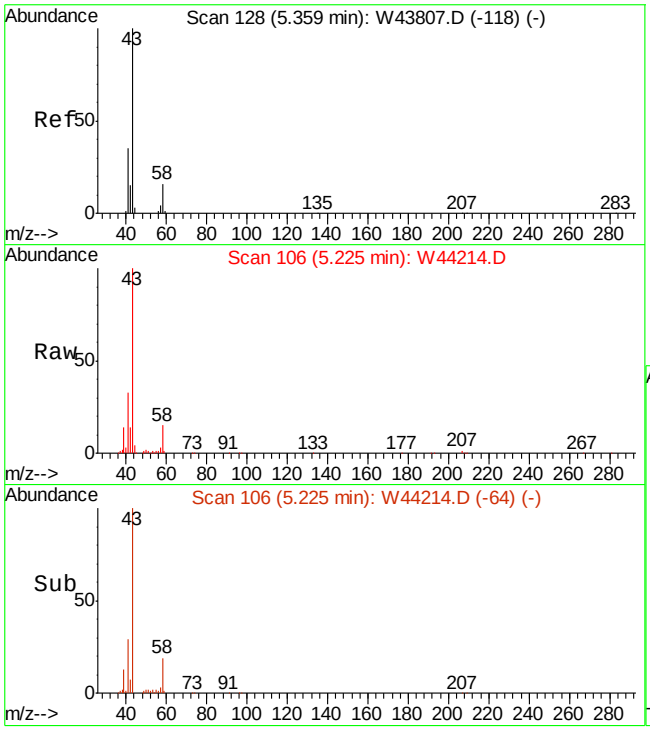


#6
PROPYLENE
Concen: 69.58 PPBV
RT: 4.66 min Scan# 14
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 41 Resp: 1171460

Ion	Ratio	Lower	Upper
41	100		
39	72.3	48.7	88.7
42	66.6	44.9	84.9

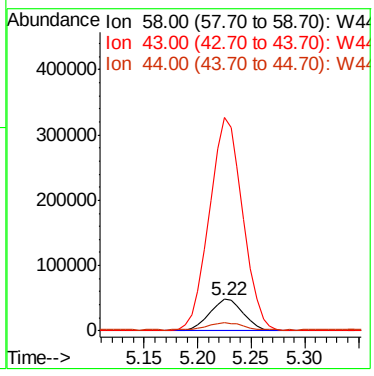


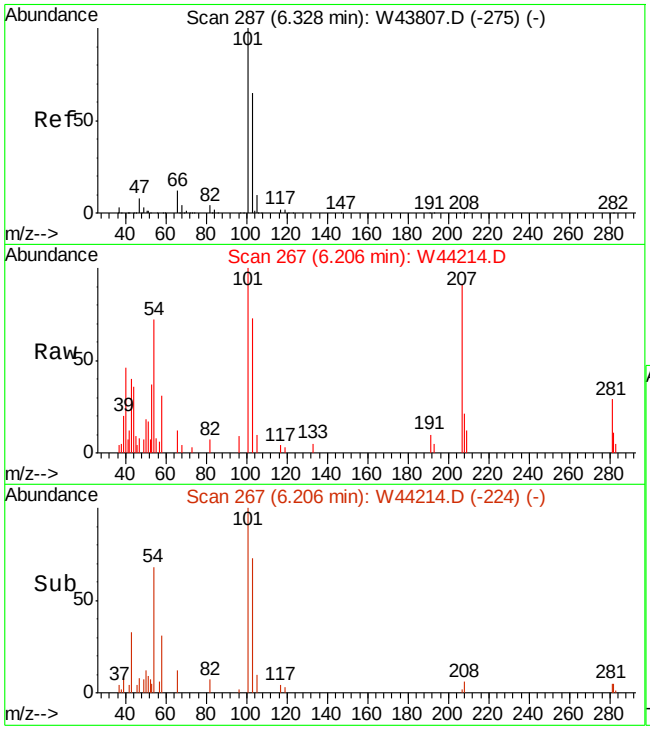


#11
n-BUTANE
Concen: 23.29 PPBV
RT: 5.22 min Scan# 106
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 58 Resp: 105734

Ion	Ratio	Lower	Upper
58	100		
43	670.7	552.0	828.0
44	23.6	20.4	30.6

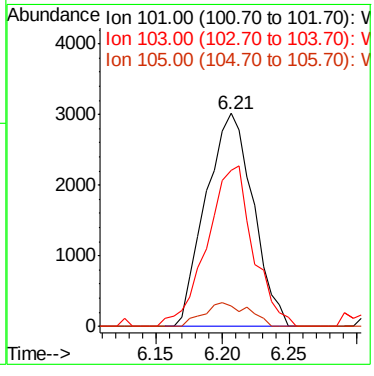




#18
TRICHLOROFLUOROMETHANE
Concen: 0.15 PPBV
RT: 6.21 min Scan# 267
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

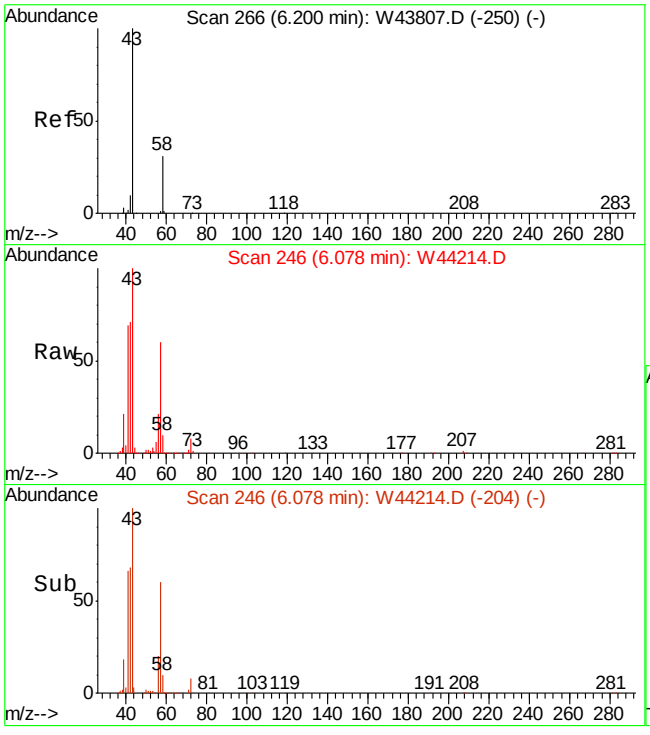
Tgt Ion:101 Resp: 7407

Ion	Ratio	Lower	Upper
101	100		
103	73.2	45.1	85.1
105	10.7	0.0	30.4



7.4.1

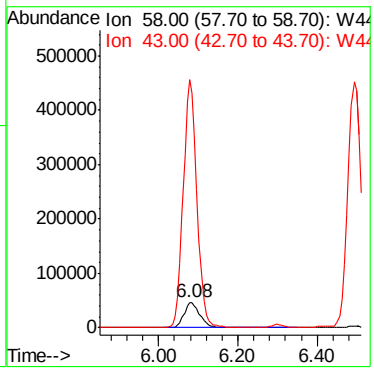
7

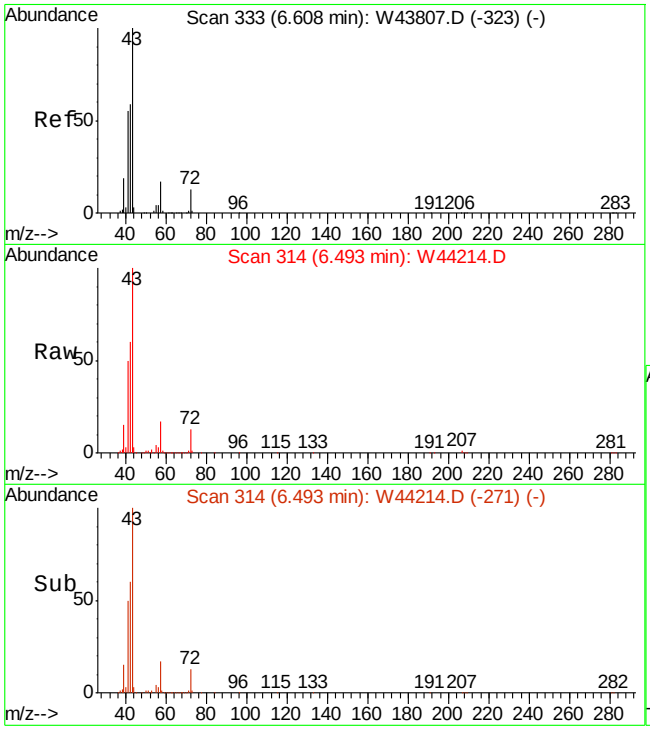


#20
ACETONE
Concen: 11.42 PPBV
RT: 6.08 min Scan# 246
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 58 Resp: 133273

Ion	Ratio	Lower	Upper
58	100		
43	830.5	270.7	310.7#

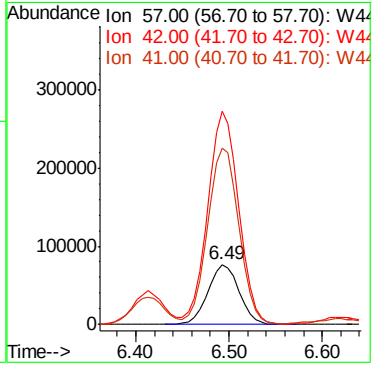




#22
PENTANE
Concen: 30.72 PPBV
RT: 6.49 min Scan# 314
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 57 Resp: 178822

Ion	Ratio	Lower	Upper
57	100		
42	349.4	352.7	392.7#
41	295.1	286.0	326.0



7.4.1

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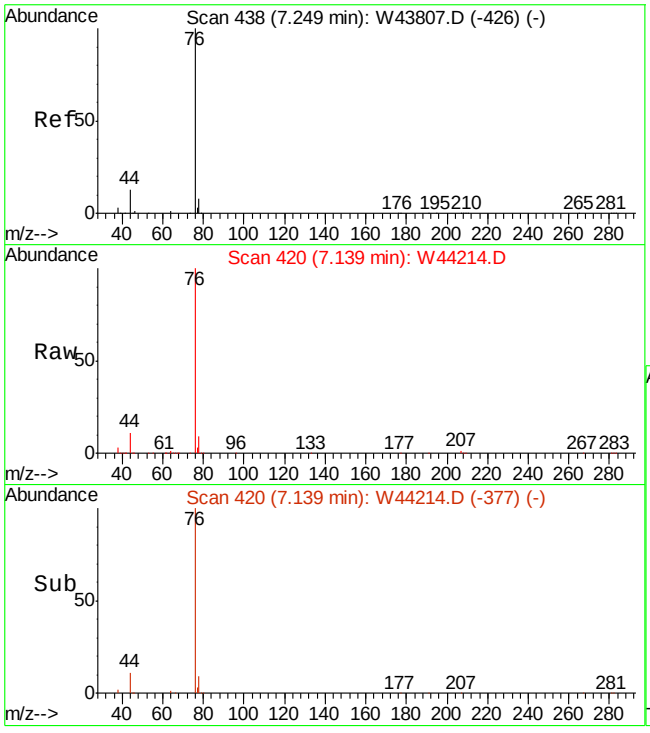
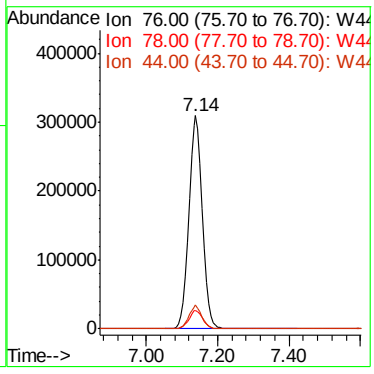
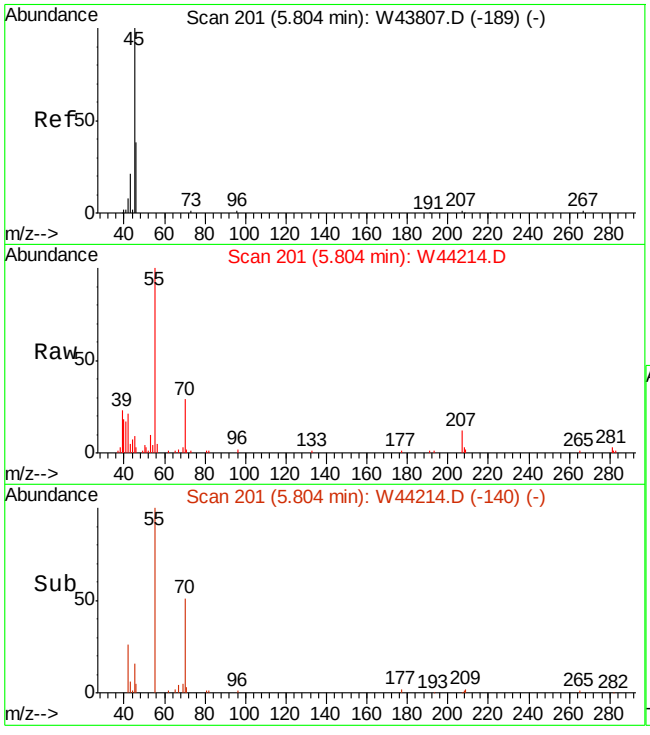


#26
CARBON DISULFIDE
Concen: 13.48 PPBV
RT: 7.14 min Scan# 420
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 76 Resp: 838594

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	29.0
44	10.8	0.0	31.4

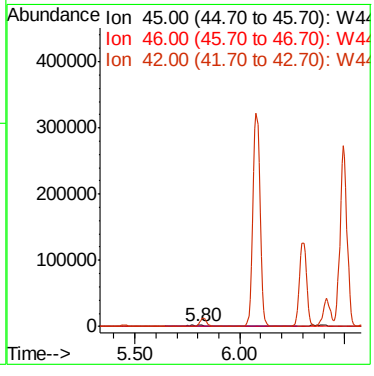




#27
ETHANOL
Concen: 3.45 PPBV
RT: 5.80 min Scan# 201
Delta R.T. 0.07 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 45 Resp: 27117

Ion	Ratio	Lower	Upper
45	100		
46	35.3	18.3	58.3
42	0.0	0.0	27.7



7.4.1

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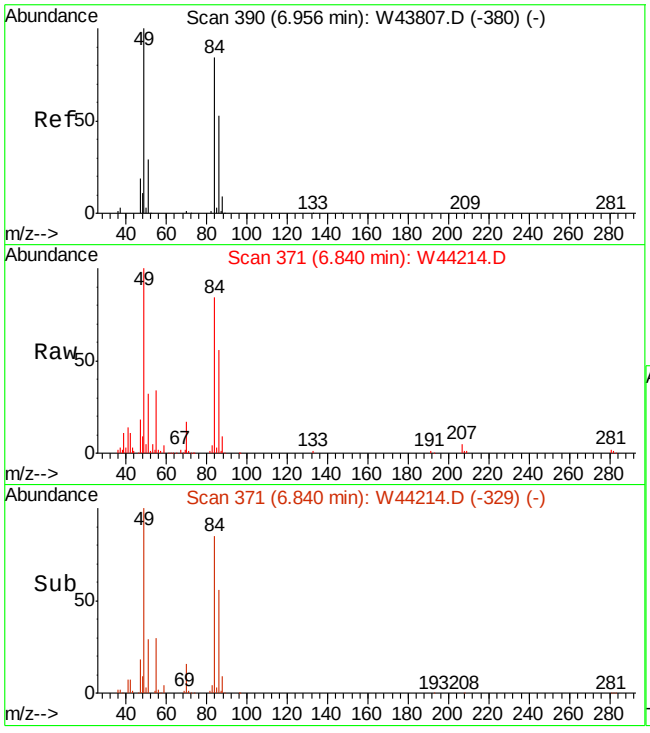
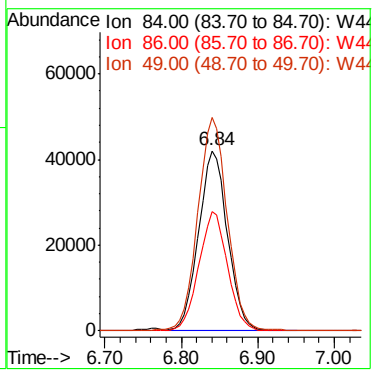
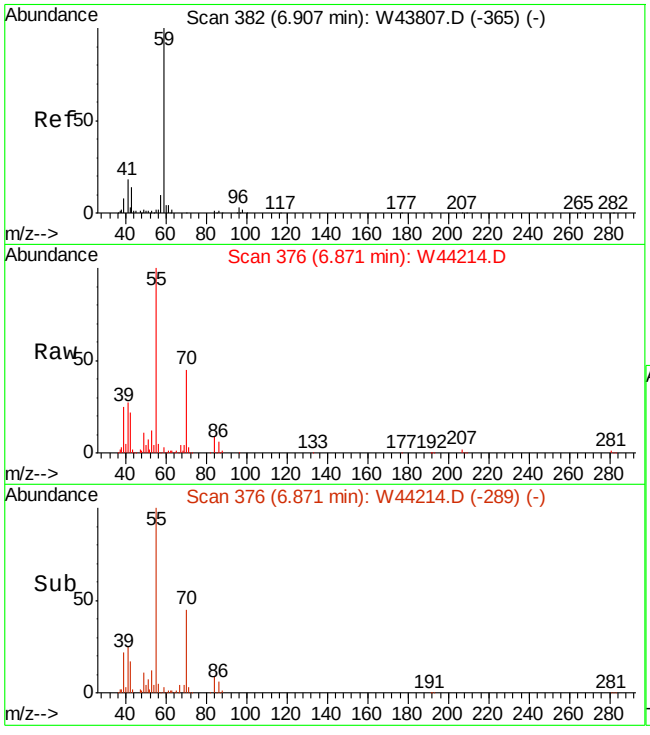


#30
METHYLENE CHLORIDE
Concen: 4.70 PPBV
RT: 6.84 min Scan# 371
Delta R.T. -0.04 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 84 Resp: 110472

Ion	Ratio	Lower	Upper
84	100		
86	65.6	43.2	83.2
49	120.6	0.0	320.8

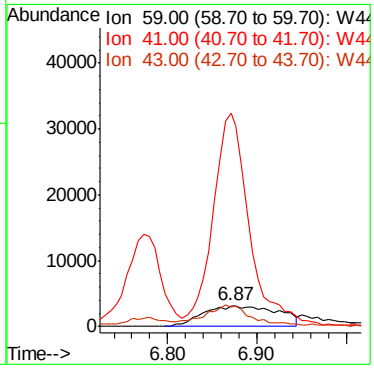


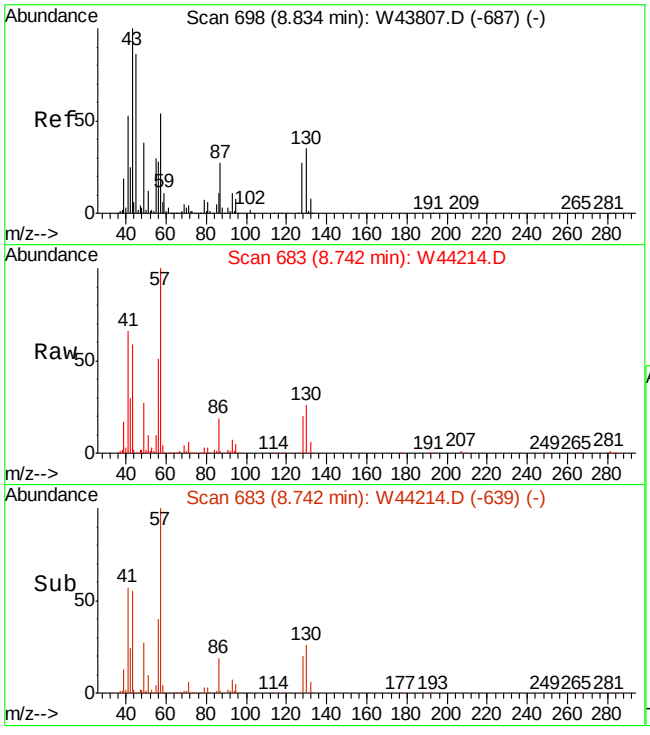


#34
TERTIARY BUTYL ALCOHOL
Concen: 0.56 PPBV
RT: 6.87 min Scan# 376
Delta R.T. 0.03 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 59 Resp: 18509

Ion	Ratio	Lower	Upper
59	100		
41	477.3	1.4	41.4#
43	0.0	0.0	32.3

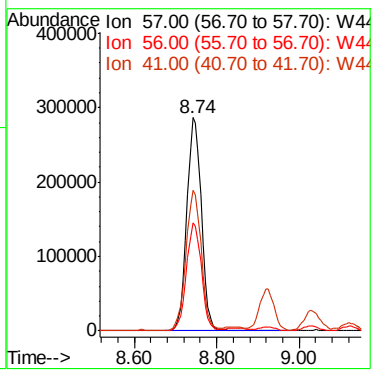


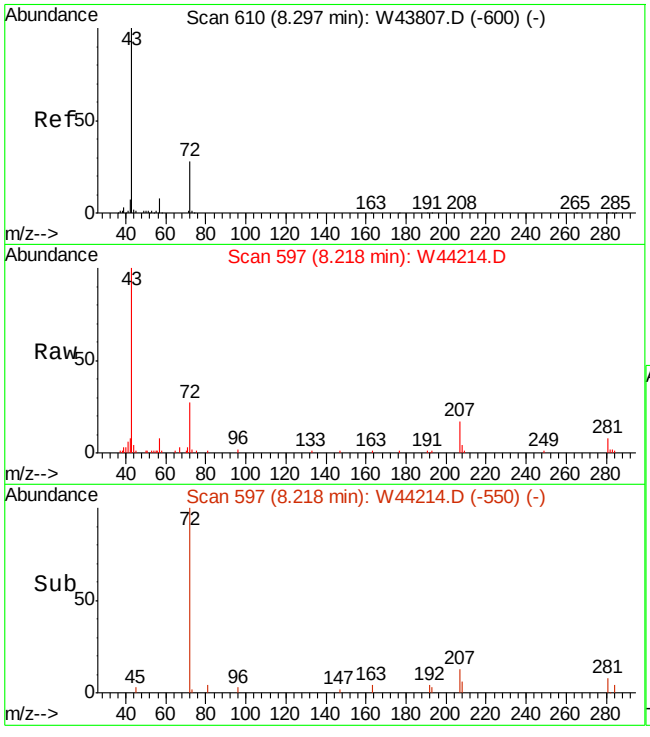


#37
HEXANE
Concen: 19.24 PPBV
RT: 8.74 min Scan# 683
Delta R.T. -0.03 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 57 Resp: 699364

Ion	Ratio	Lower	Upper
57	100		
56	53.7	32.2	72.2
41	72.0	74.7	114.7#

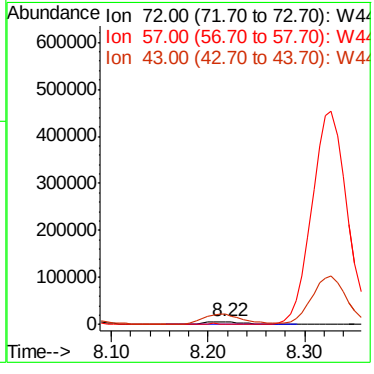




#40
METHYL ETHYL KETONE
Concen: 1.72 PPBV m
RT: 8.22 min Scan# 597
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 72 Resp: 18600

Ion	Ratio	Lower	Upper
72	100		
57	28.3	10.3	50.3
43	365.4	364.5	404.5



7.4.1

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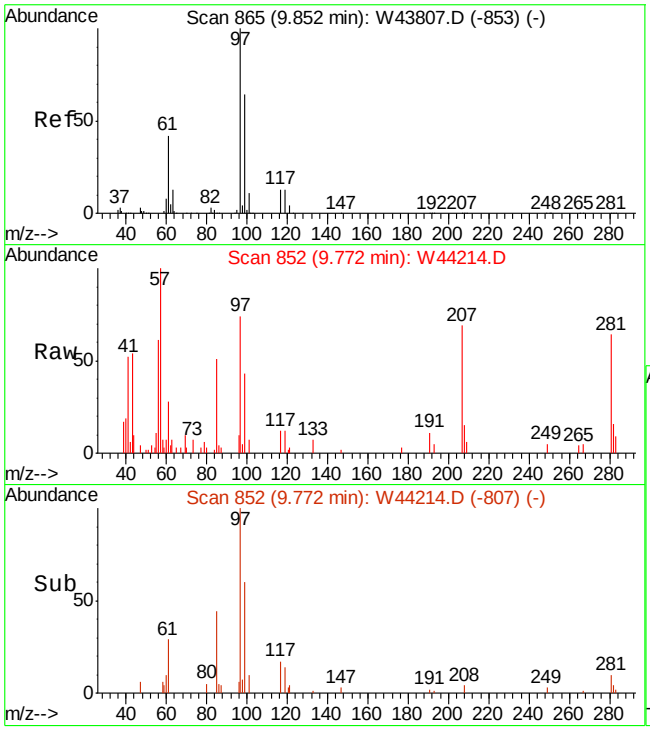
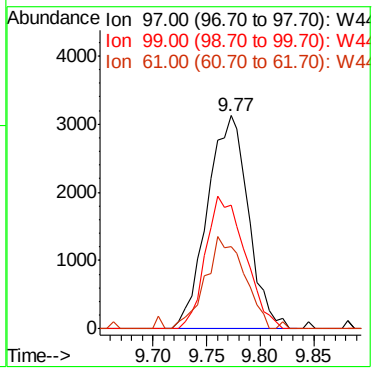
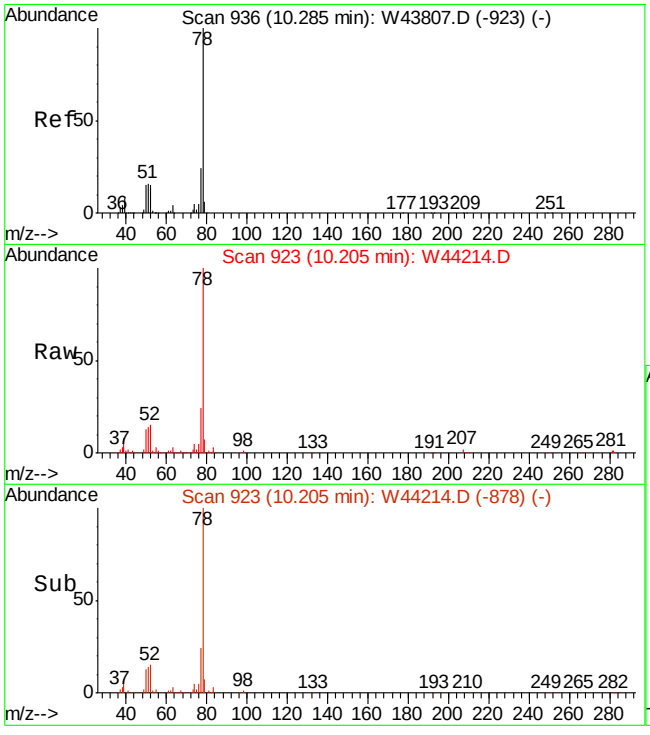


#47
1,1,1-TRICHLOROETHANE
Concen: 0.19 PPBV
RT: 9.77 min Scan# 852
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 97 Resp: 8313

Ion	Ratio	Lower	Upper
97	100		
99	59.6	44.2	84.2
61	41.0	21.3	61.3

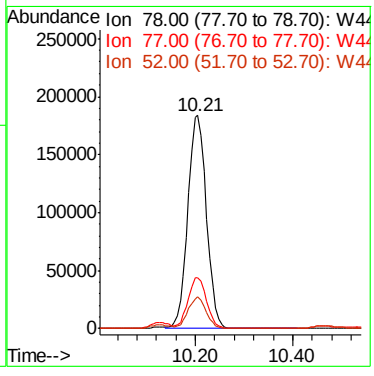


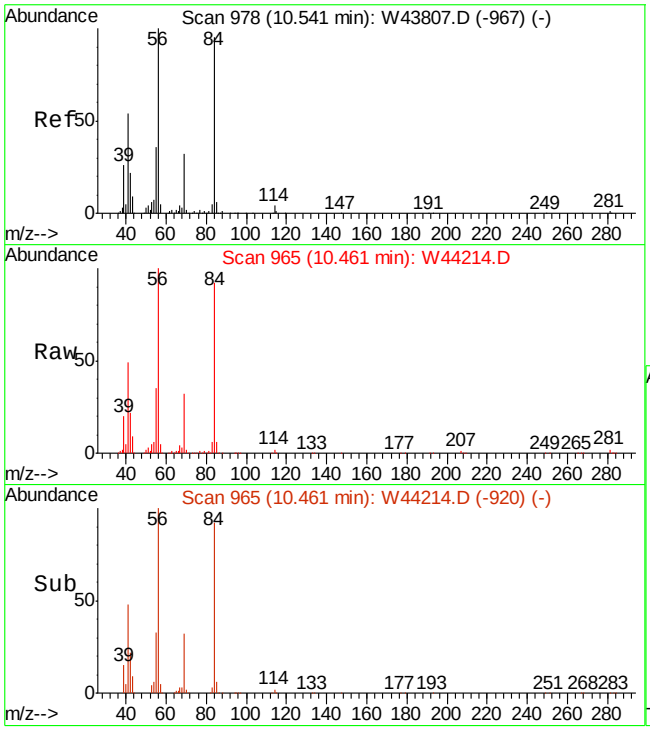


#51
BENZENE
Concen: 7.22 PPBV
RT: 10.21 min Scan# 923
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 78 Resp: 488188

Ion	Ratio	Lower	Upper
78	100		
77	24.0	3.7	43.7
52	14.4	0.0	35.0

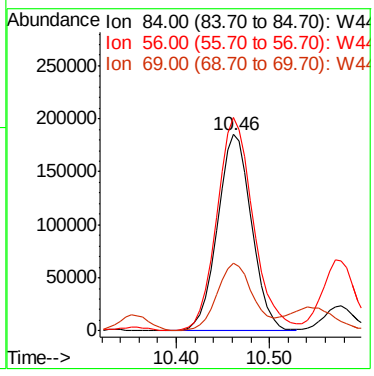


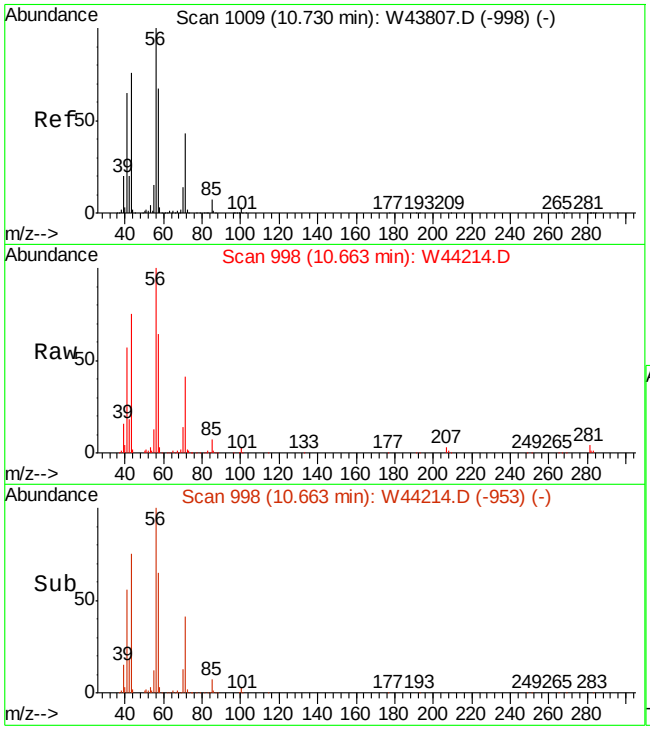


#52
CYCLOHEXANE
Concen: 15.48 PPBV
RT: 10.46 min Scan# 965
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 84 Resp: 474921

Ion	Ratio	Lower	Upper
84	100		
56	115.7	96.7	136.7
69	52.8	20.6	60.6

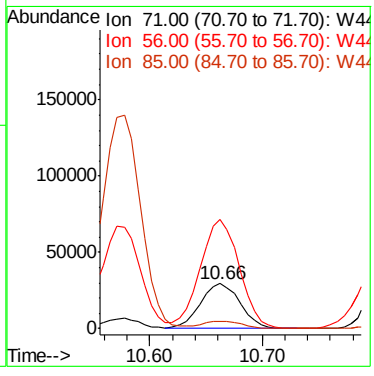




#53
2,3-DIMETHYLPENTANE
Concen: 4.68 PPBV
RT: 10.66 min Scan# 998
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 71 Resp: 72711

Ion	Ratio	Lower	Upper
71	100		
56	235.2	196.2	294.4
85	0.0	13.4	20.0#



7.4.1

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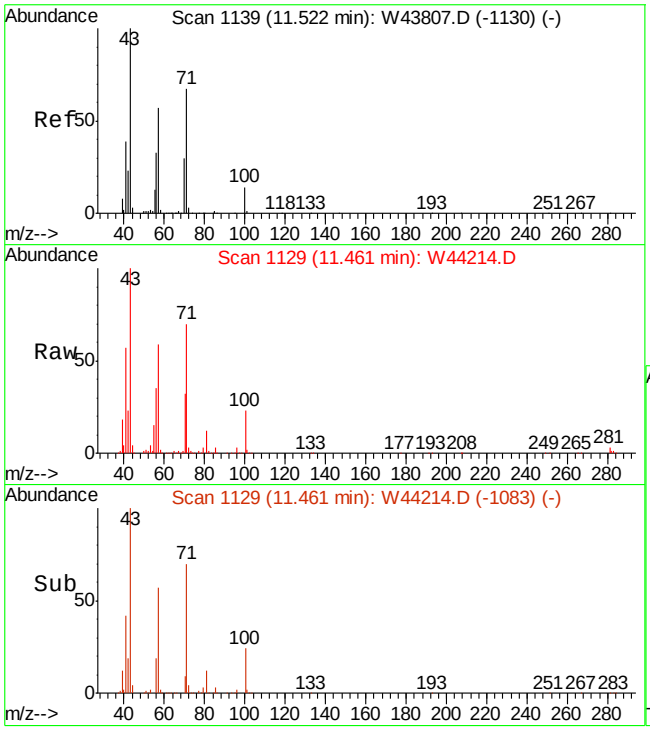
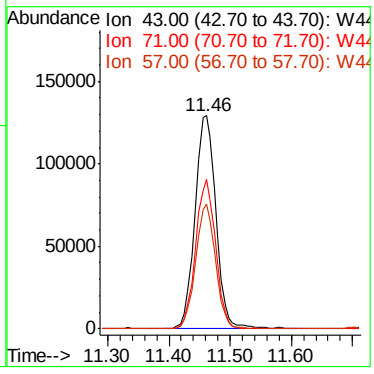
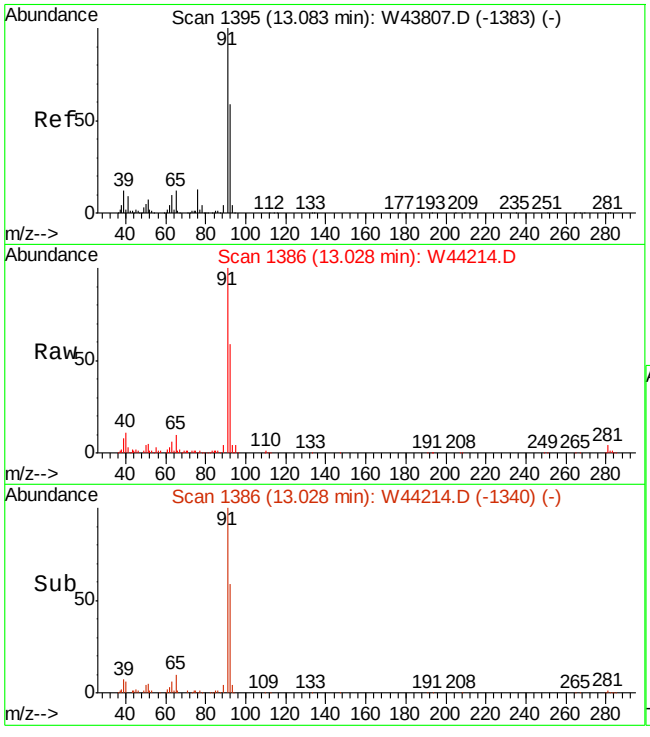


#62
HEPTANE
Concen: 8.18 PPBV
RT: 11.46 min Scan# 1129
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 43 Resp: 304865

Ion	Ratio	Lower	Upper
43	100		
71	67.1	43.7	83.7
57	56.4	34.7	74.7

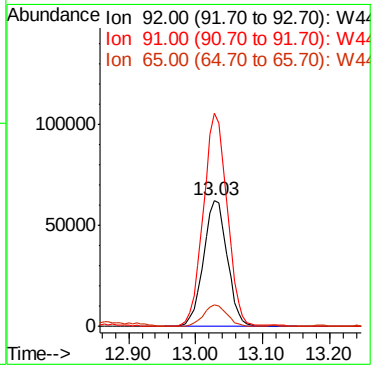


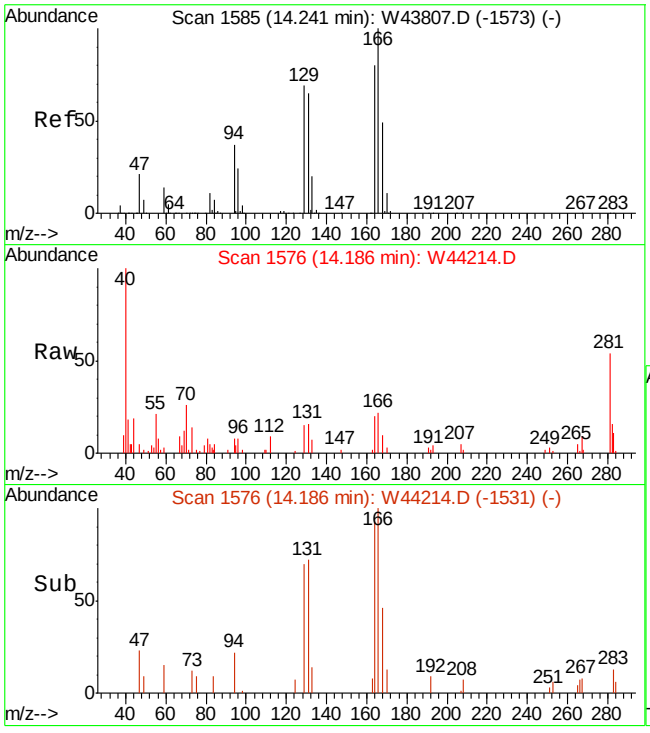


#66
TOLUENE
Concen: 3.25 PPBV
RT: 13.03 min Scan# 1386
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 92 Resp: 153825

Ion	Ratio	Lower	Upper
92	100		
91	170.6	148.0	188.0
65	18.5	0.5	40.5

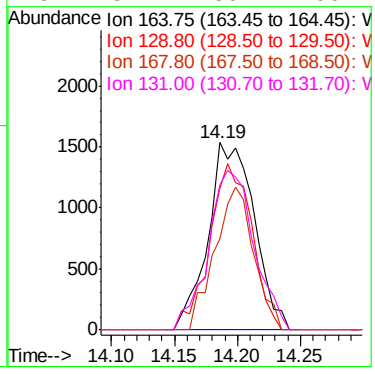


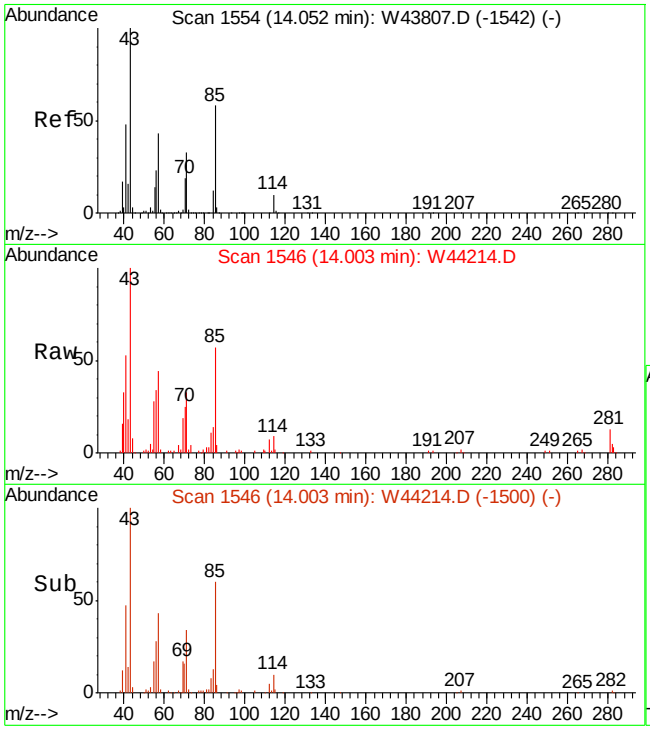


#72
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 14.19 min Scan# 1576
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion:164 Resp: 3884

Ion	Ratio	Lower	Upper
164	100		
129	80.8	62.5	102.5
168	64.4	41.7	81.7
131	84.4	59.1	99.1

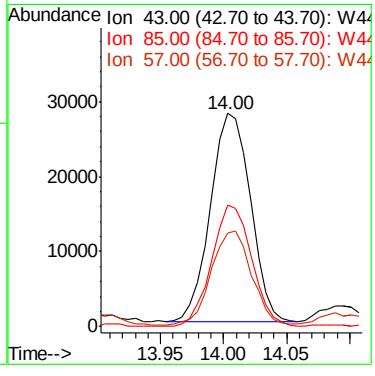




#75
OCTANE
Concen: 1.27 PPBV
RT: 14.00 min Scan# 1546
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 43 Resp: 61352

Ion	Ratio	Lower	Upper
43	100		
85	58.1	41.1	61.7
57	45.7	33.4	50.2



7.4.1

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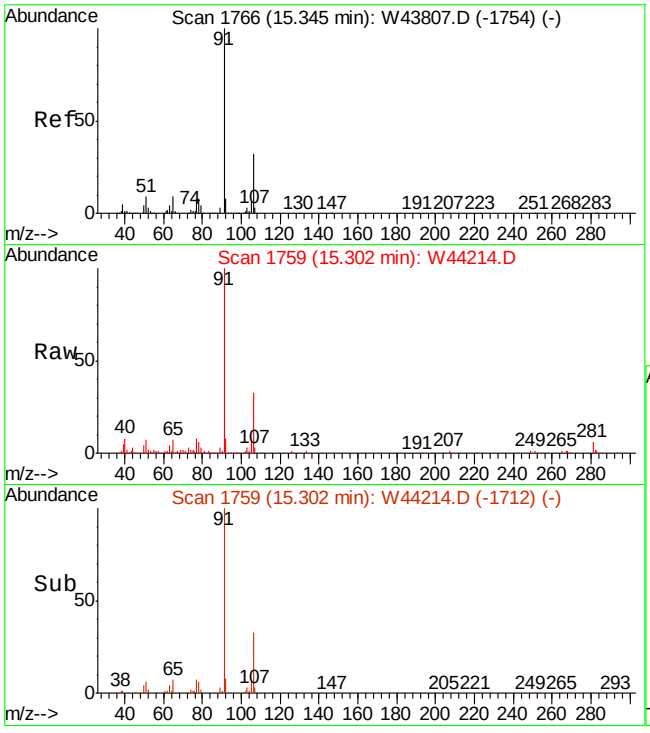
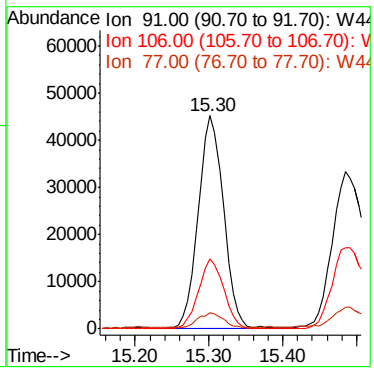
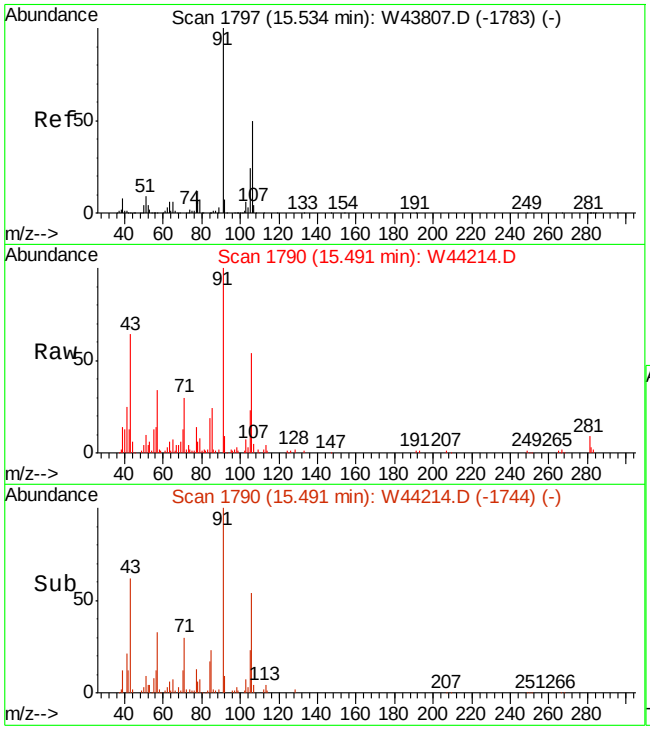


#78
ETHYLBENZENE
Concen: 1.13 PPBV
RT: 15.30 min Scan# 1759
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion: 91 Resp: 104672

Ion	Ratio	Lower	Upper
91	100		
106	32.6	12.3	52.3
77	7.6	0.0	28.1

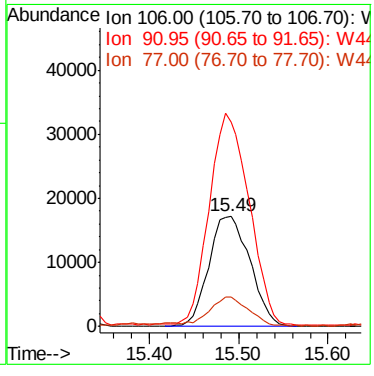




#79
m,p-XYLENE
Concen: 1.52 PPBV
RT: 15.49 min Scan# 1790
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

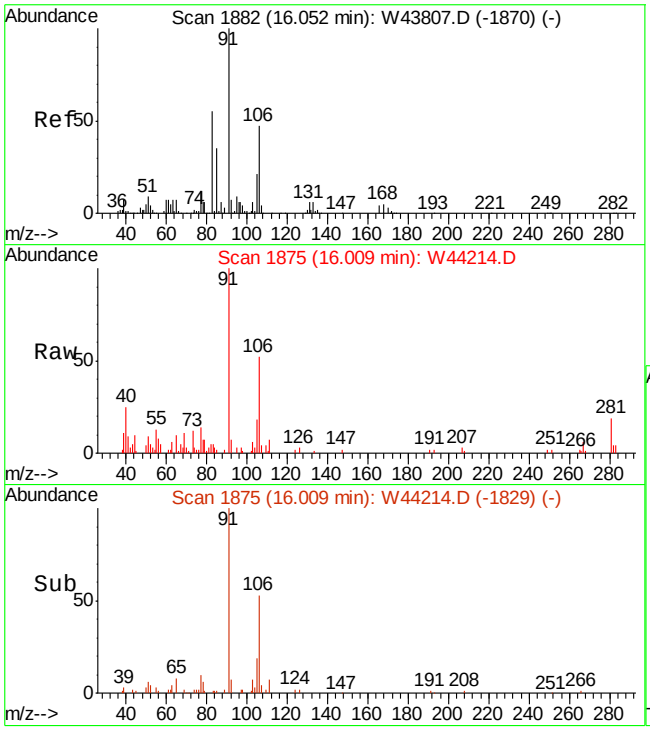
Tgt Ion:106 Resp: 55000

Ion	Ratio	Lower	Upper
106	100		
91	185.2	151.2	226.8
77	26.4	18.7	28.1



7.4.1

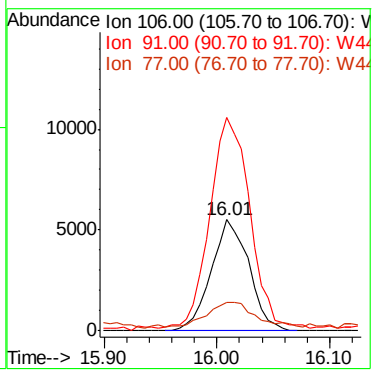
7

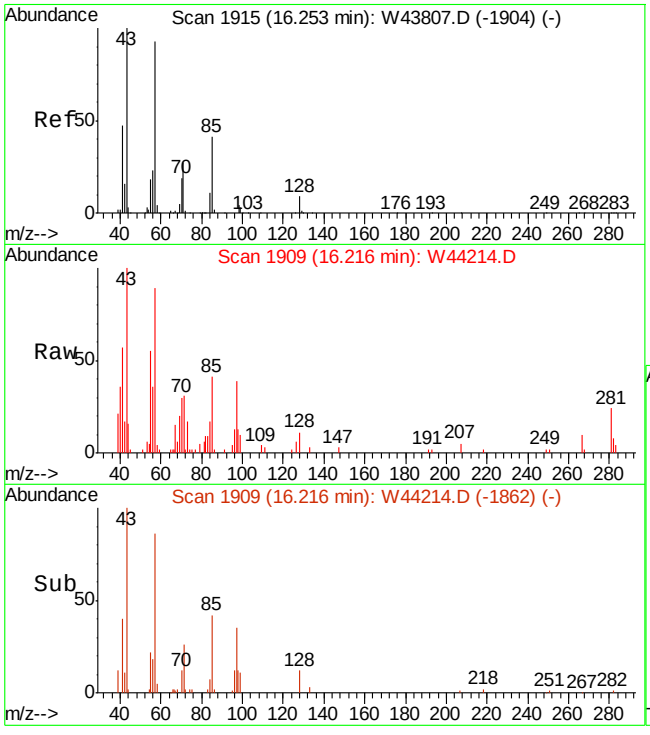


#80
o-XYLENE
Concen: 0.37 PPBV
RT: 16.01 min Scan# 1875
Delta R.T. -0.02 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion:106 Resp: 12727

Ion	Ratio	Lower	Upper
106	100		
91	214.1	182.5	222.5
77	0.0	3.8	43.8#

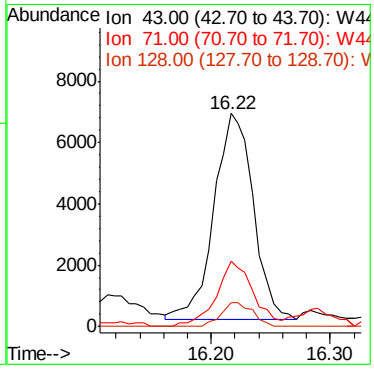




#83
NONANE
Concen: 0.34 PPBV
RT: 16.22 min Scan# 1909
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

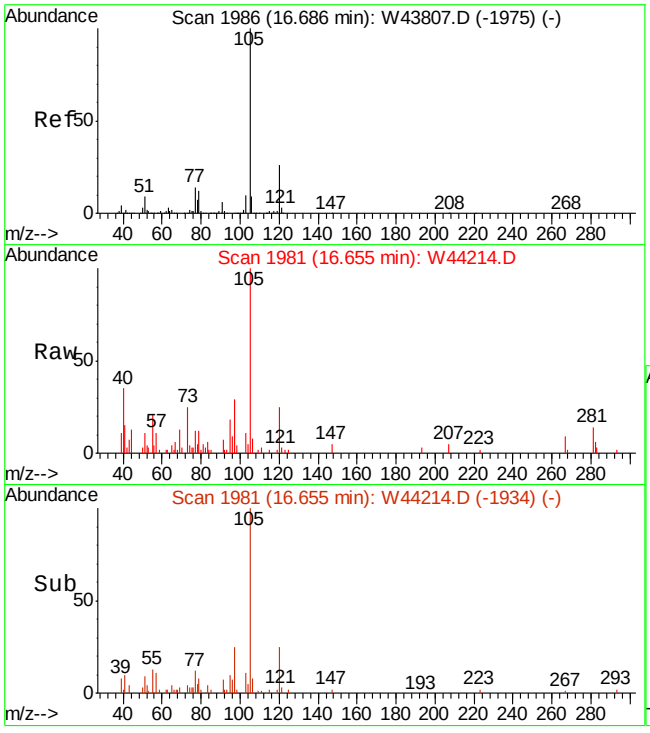
Tgt Ion: 43 Resp: 15398

Ion	Ratio	Lower	Upper
43	100		
71	38.5	7.3	47.3
128	9.4	0.0	28.0



7.4.1

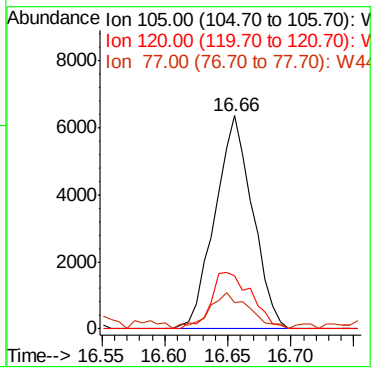
7

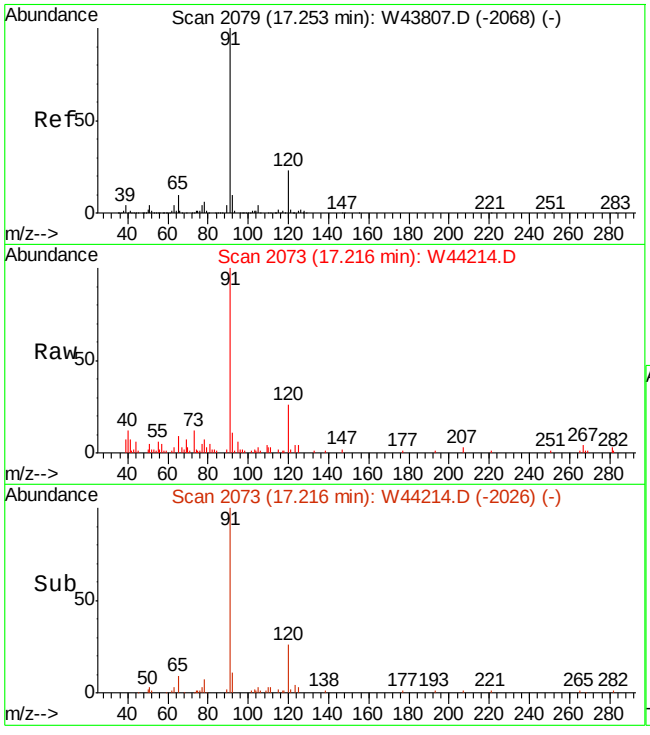


#87
ISOPROPYLBENZENE
Concen: 0.13 PPBV
RT: 16.66 min Scan# 1981
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion:105 Resp: 13147

Ion	Ratio	Lower	Upper
105	100		
120	28.2	7.4	47.4
77	17.4	0.0	34.1

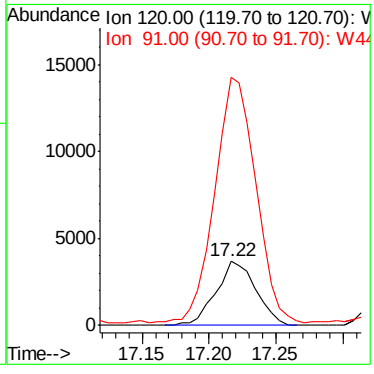


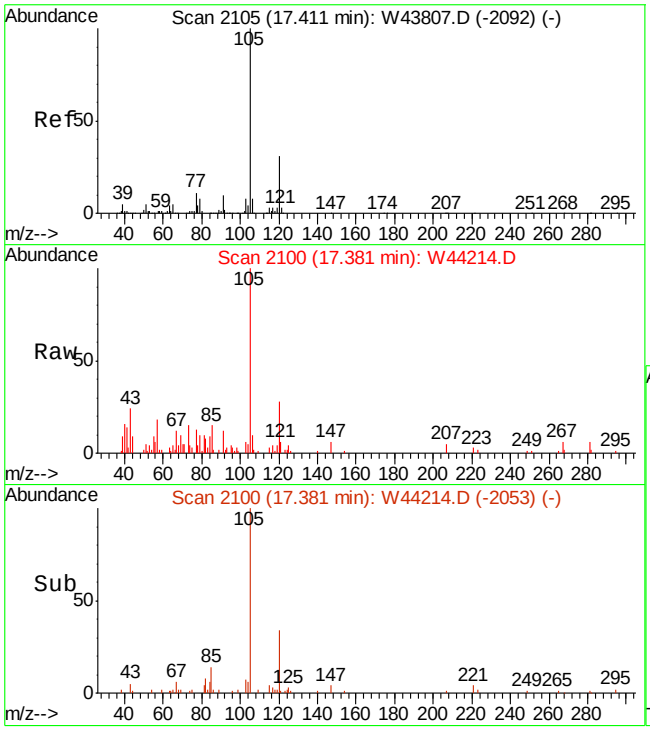


#90
n-PROPYLBENZENE
Concen: 0.29 PPBV
RT: 17.22 min Scan# 2073
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion:120 Resp: 7645

Ion	Ratio	Lower	Upper
120	100		
91	386.7	526.1	789.1#

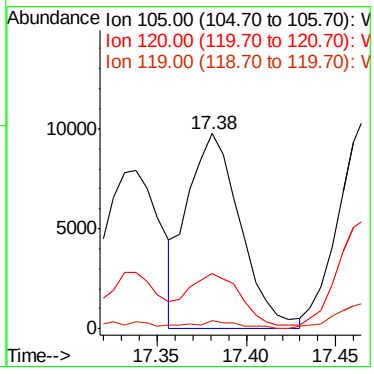


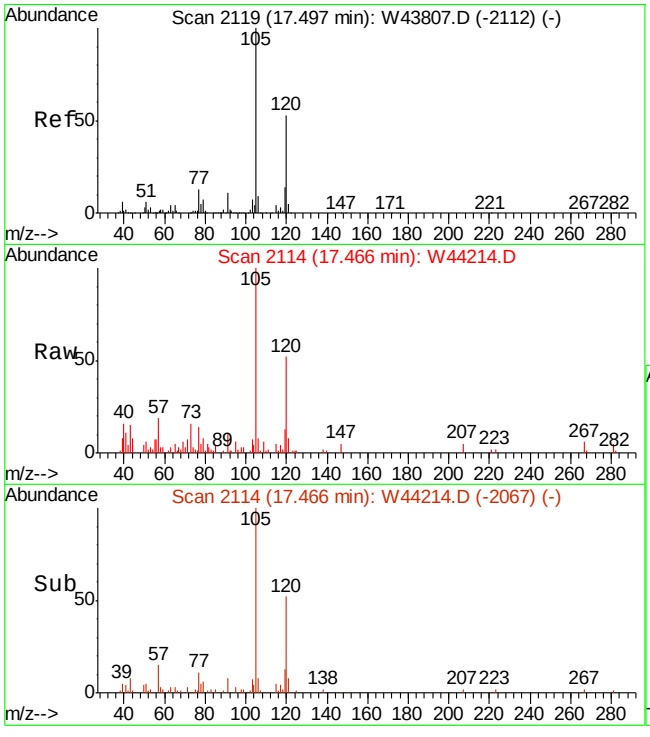


#91
4-ETHYLTOLUENE
Concen: 0.24 PPBV m
RT: 17.38 min Scan# 2100
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion:105 Resp: 20131

Ion	Ratio	Lower	Upper
105	100		
120	0.0	10.9	50.9#
119	7.0	0.0	22.7

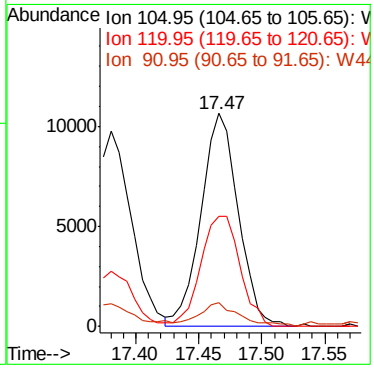




#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.31 PPBV
RT: 17.47 min Scan# 2114
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

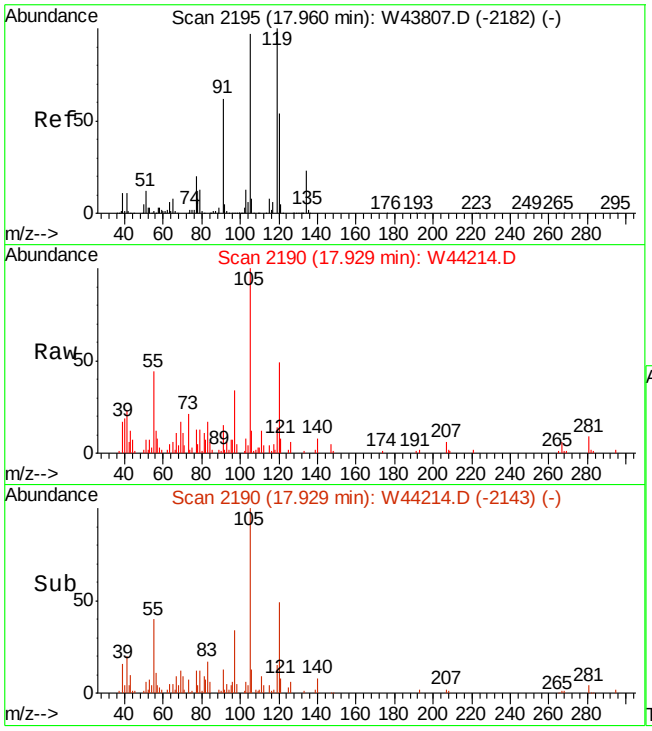
Tgt Ion:105 Resp: 21951

Ion	Ratio	Lower	Upper
105	100		
120	54.8	32.3	72.3
91	0.0	0.0	29.2



7.4.1

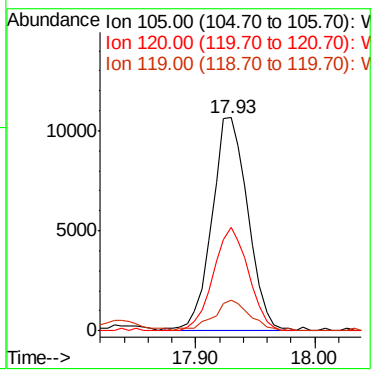
7



#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.34 PPBV
RT: 17.93 min Scan# 2190
Delta R.T. -0.01 min
Lab File: W44214.D
Acq: 21 Oct 2013 6:48 pm

Tgt Ion:105 Resp: 22452

Ion	Ratio	Lower	Upper
105	100		
120	47.5	39.1	79.1
119	14.6	102.1	142.1#



7.4.1

7

Manual Integration Approval Summary

Sample Number:	JB50673-2DUP	**Method:**	TO-15
Lab FileID:	W44214.D	**Analyst approved:**	10/22/13 09:27 Dana Tryon
Injection Time:	10/21/13 18:48	**Supervisor approved:**	10/22/13 14:19 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		8.22	Missed peak
4-Ethyltoluene	622-96-8		17.38	Poor instrument integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36346.D Vial: 13
Acq On : 7 Oct 2013 8:05 pm Operator: YOUMINH
Sample : SCC(A936) Inst : MS3W
Misc : MS56044,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:57:24 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	123170	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.89	114	566574	10.00	PPBV	-0.07
68) CHLOROBENZENE-D5	13.03	82	208260	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	214768	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	198011	8.46	PPBV	-0.07

Spiked Amount 10.000 Range 65 - 128 Recovery = 84.60%

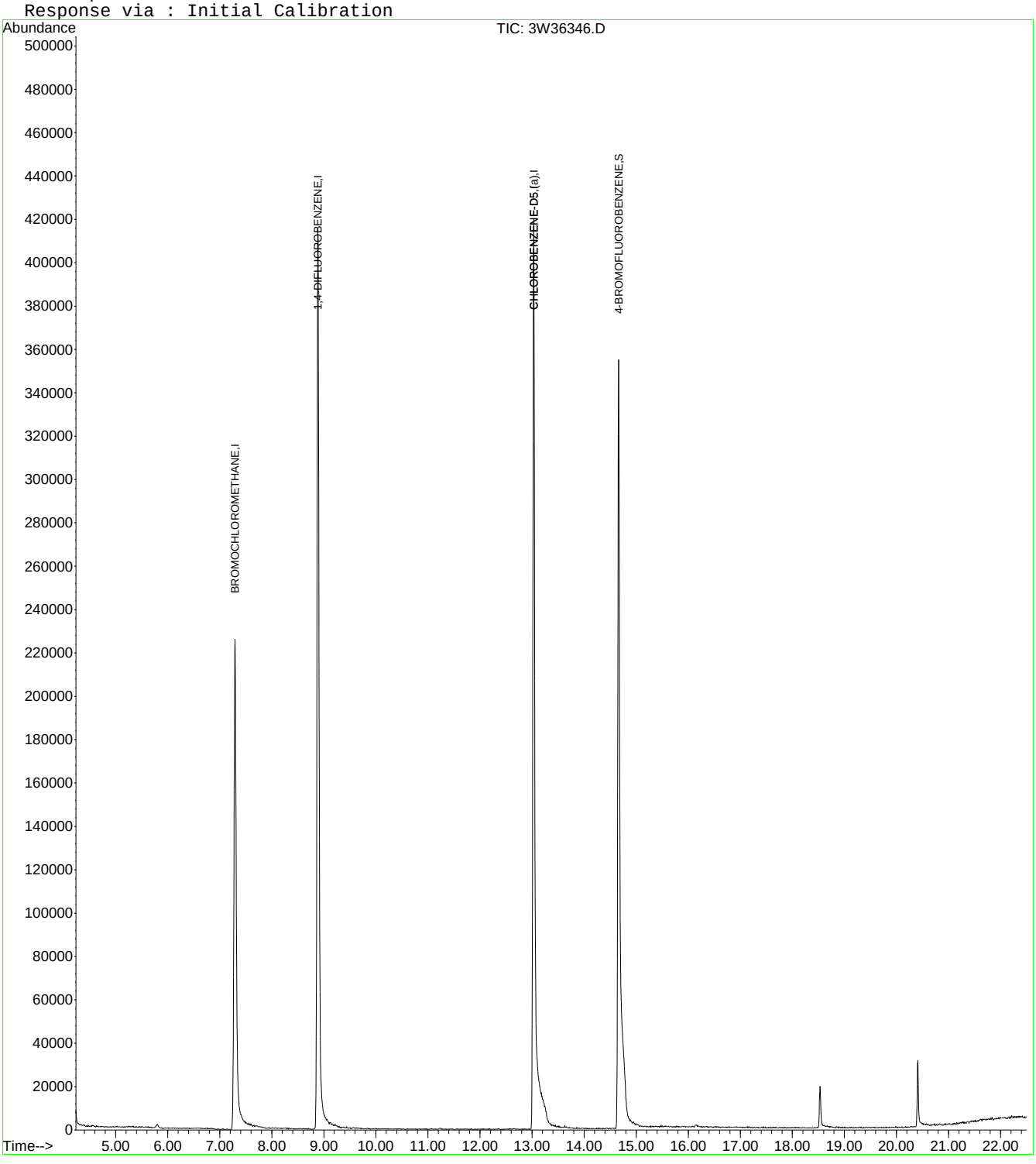
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36346.D M3W1350.M Tue Oct 08 10:21:33 2013 MS3W

Quantitation Report (QT Reviewed)

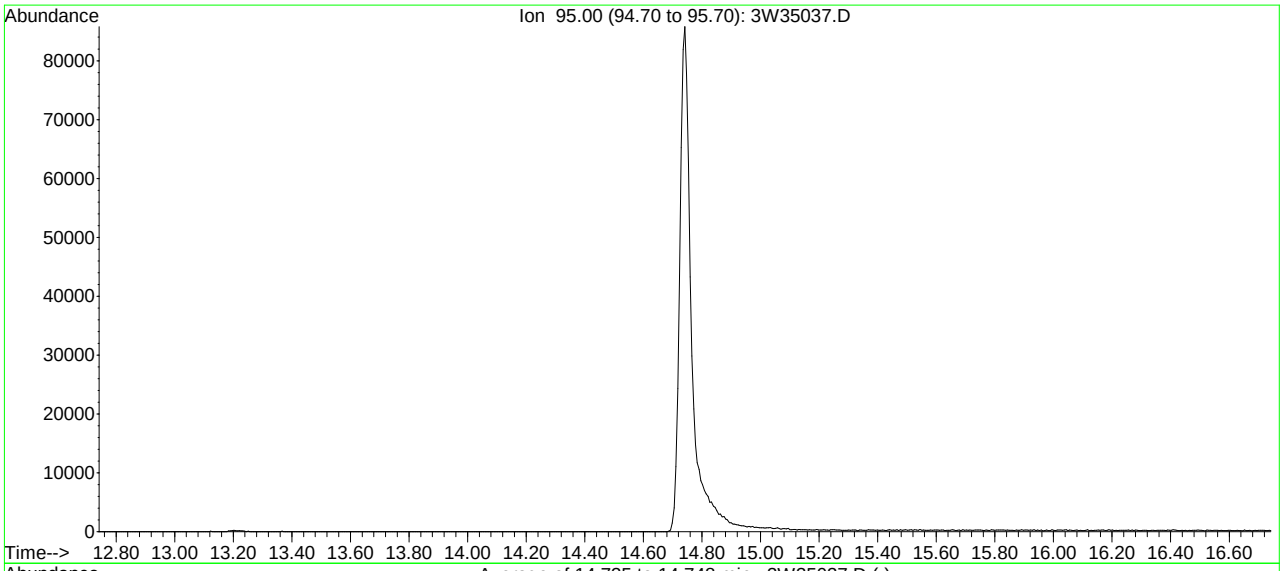
Data File : C:\MSDCHEM\1\DATA\3W36346.D Vial: 13
Acq On : 7 Oct 2013 8:05 pm Operator: YOUMINH
Sample : SCC(A936) Inst : MS3W
Misc : MS56044,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:21 2013 Quant Results File: M3W1350.RES

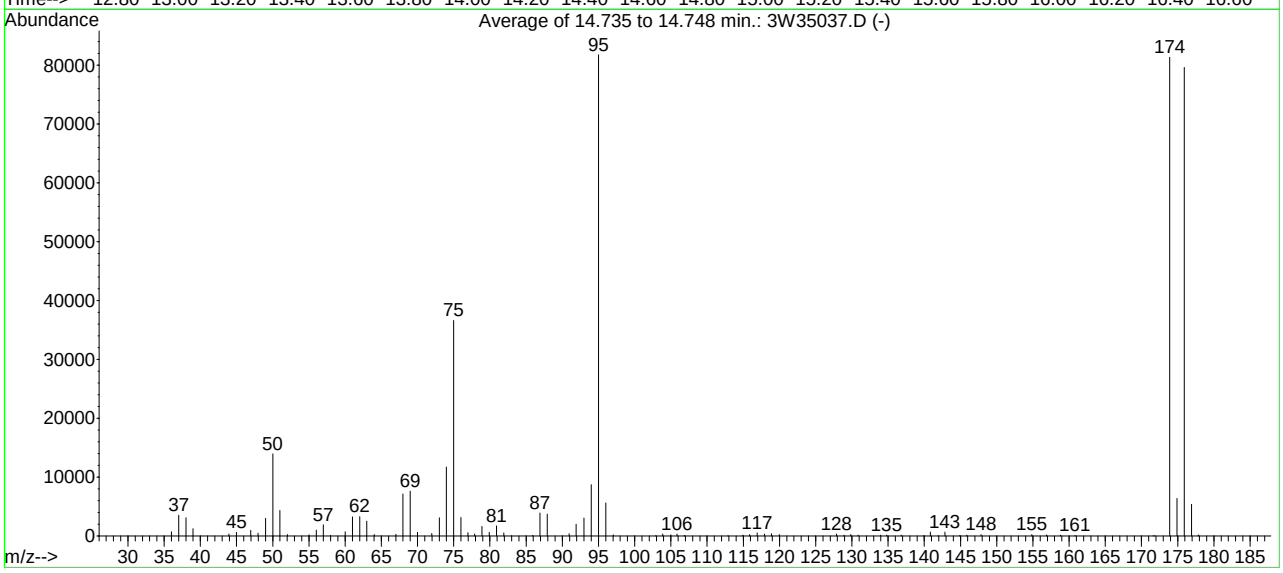
Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



BFB

Data File : C:\MSDCHEM\1\DATA\3W35037.D Vial: 15
Acq On : 23 Jul 2013 8:09 am Operator: YOUMINH
Sample : BFB Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um





AutoFind: Scans 1727, 1728, 1729; Background Corrected with Scan 1716

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.1	13945	PASS
75	95	30	66	44.8	36632	PASS
95	95	100	100	100.0	81770	PASS
96	95	5	9	6.8	5579	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.5	81373	PASS
175	174	4	9	7.8	6376	PASS
176	174	93	101	97.9	79640	PASS
177	176	5	9	6.8	5381	PASS

3W35037.D M3W1350.M Wed Jul 24 08:38:45 2013 MS3W

Average of 14.735 to 14.748 min.: 3W35037.D
BFB
Modified:subtracted

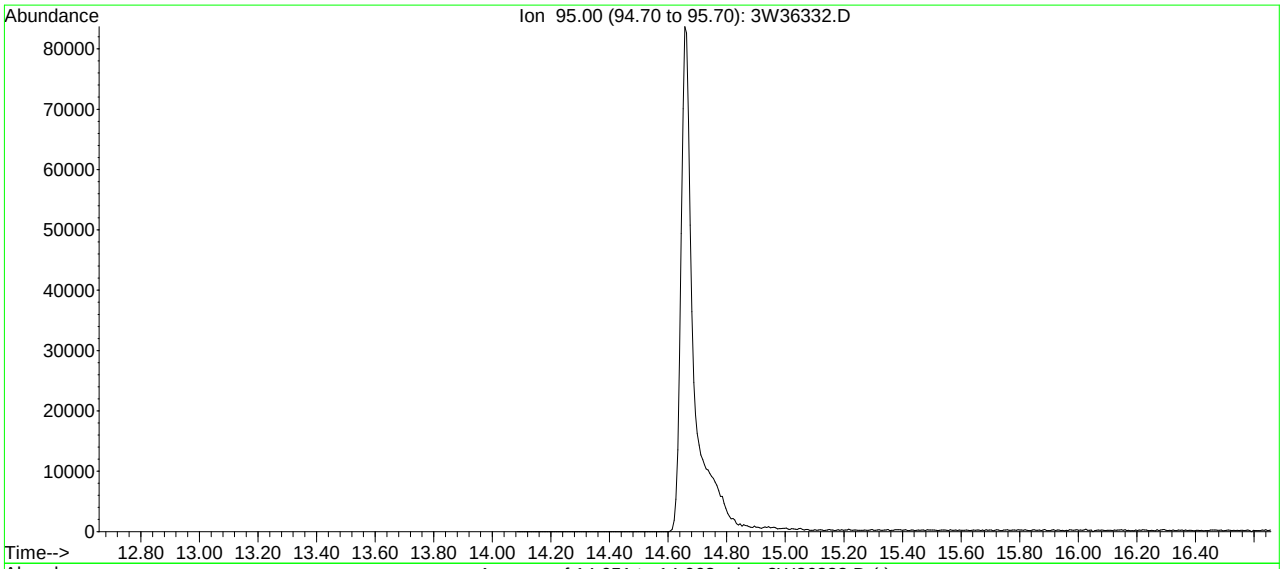
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	705	52.05	232	68.00	7148	79.90	610
37.00	3519	55.00	186	69.00	7610	80.90	1695
38.00	3081	56.00	993	70.00	597	81.90	504
39.00	1201	57.00	1886	71.95	426	83.00	25
43.95	318	58.00	77	73.00	3094	85.90	88
45.00	614	60.00	718	74.00	11693	86.90	3877
46.95	947	61.00	3204	75.00	36632	87.90	3687
47.95	459	62.00	3275	76.00	3124	90.95	345
49.00	2998	63.00	2490	76.95	541	91.90	1979
50.00	13945	64.05	232	77.90	302	93.00	3020
51.00	4330	67.00	241	78.90	1611	94.00	8706

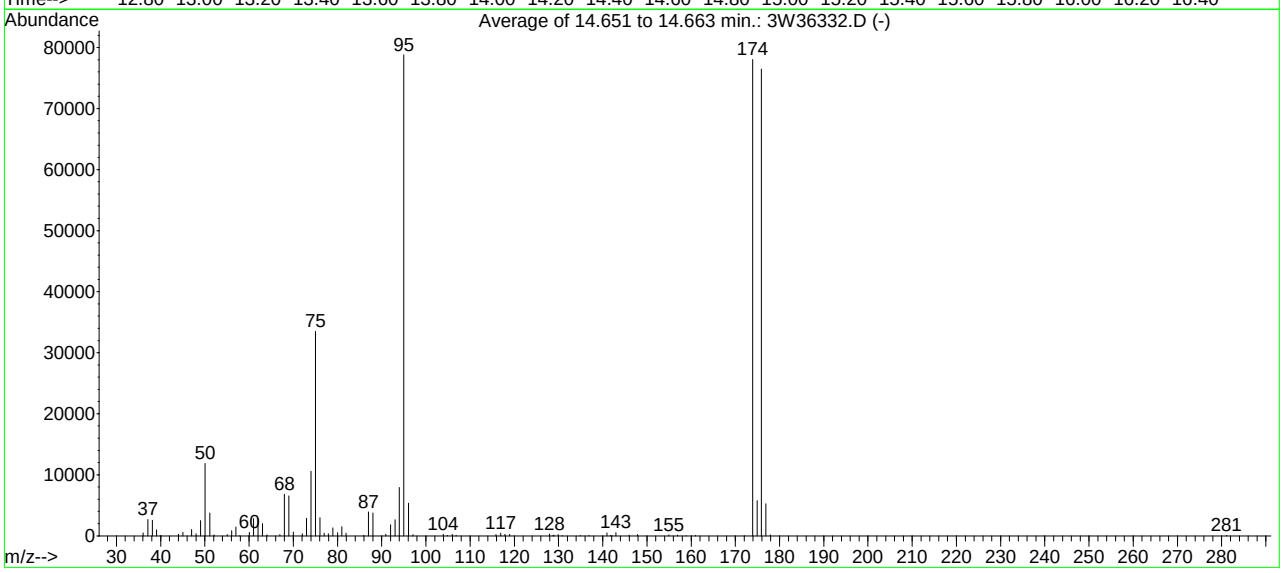
Average of 14.735 to 14.748 min.: 3W35037.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	81770	116.90	495	139.90	27	171.60	32
96.00	5579	117.90	293	140.85	636	171.80	27
97.05	169	118.90	351	141.90	29	173.90	81373
102.90	26	119.95	197	142.85	653	174.90	6376
103.85	312	127.85	311	144.90	59	175.90	79640
105.00	168	128.90	119	145.85	134	176.90	5381
105.85	321	129.85	235	147.85	215	177.85	179
106.85	94	130.85	131	154.85	212		
112.90	25	133.95	114	156.85	179		
114.95	110	134.80	133	158.80	104		
115.85	214	136.80	122	160.80	99		

BFB

Data File : C:\MSDCHEM\1\DATA\3W36332.D Vial: 5
Acq On : 7 Oct 2013 8:30 am Operator: YOUMINH
Sample : BFB Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um





AutoFind: Scans 94, 95, 96; Background Corrected with Scan 84

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.0	11858	PASS
75	95	30	66	42.5	33482	PASS
95	95	100	100	100.0	78797	PASS
96	95	5	9	6.8	5343	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.0	78016	PASS
175	174	4	9	7.4	5787	PASS
176	174	93	101	98.0	76461	PASS
177	176	5	9	6.9	5283	PASS

3W36332.D M3W1350.M Tue Oct 08 10:24:21 2013 MS3W

Average of 14.651 to 14.663 min.: 3W36332.D
BFB
Modified:subtracted

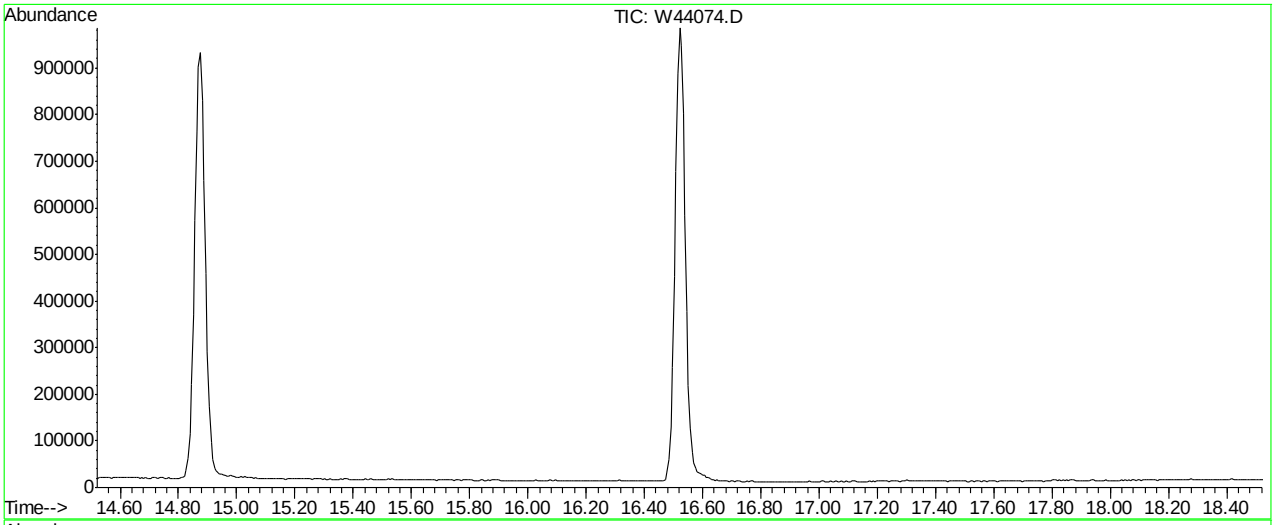
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	502	50.05	11858	64.05	172	77.95	366
37.10	2708	51.10	3727	67.00	193	78.95	1327
38.10	2549	52.05	185	68.00	6807	80.00	542
39.05	1007	55.05	190	69.00	6562	80.95	1480
39.90	33	56.05	854	70.00	607	81.95	454
40.10	39	57.00	1439	72.05	370	85.95	82
44.00	259	57.90	36	73.00	2872	87.00	3908
45.05	590	60.05	560	74.00	10598	88.00	3733
47.00	1020	61.00	2814	75.00	33482	90.95	248
48.00	363	62.00	2773	76.05	2950	92.00	1822
49.00	2510	63.05	1982	77.00	456	93.00	2622

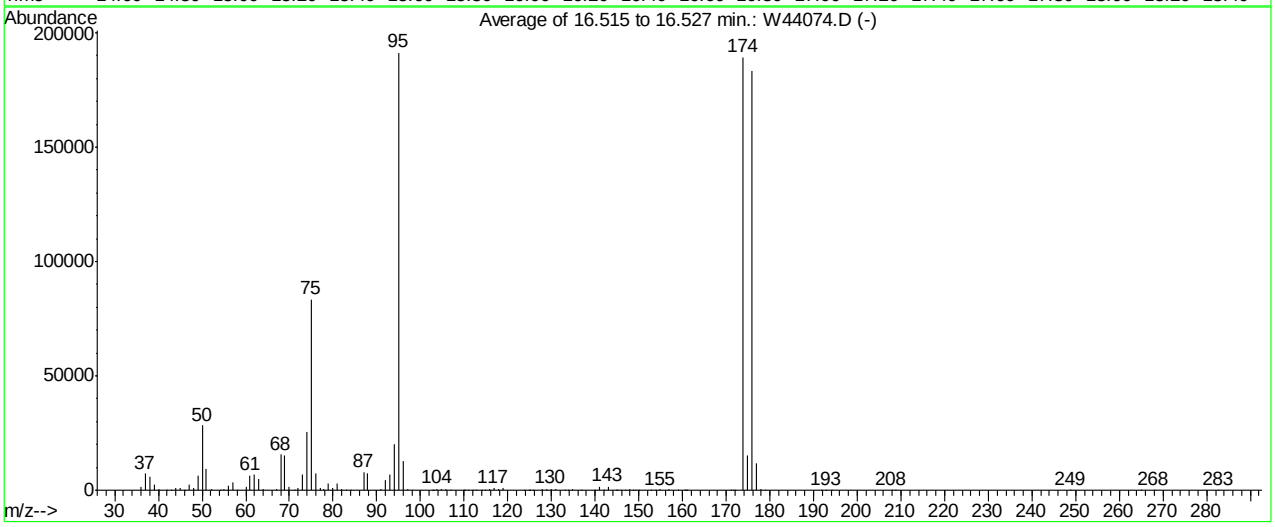
Average of 14.651 to 14.663 min.: 3W36332.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	7934	118.95	241	142.95	549	176.90	5283
95.00	78797	127.95	290	145.95	111	177.90	180
96.05	5343	128.80	48	147.85	196	281.10	80
97.05	188	128.95	102	154.95	171		
103.95	264	129.95	220	156.95	113		
104.85	88	130.90	34	158.90	38		
105.95	246	134.90	55	161.00	56		
106.85	77	136.90	83	172.00	40		
115.85	190	140.95	480	173.90	78016		
116.95	450	141.80	76	174.90	5787		
117.90	262	142.10	36	175.90	76461		

BFB

Data File : C:\MSDCHEM\1\DATA\W44074.D Vial: 1
Acq On : 14 Oct 2013 6:22 pm Operator: danat
Sample : bfb Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1958, 1959, 1960; Background Corrected with Scan 1947

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.8	28394	PASS
75	95	30	66	43.6	83464	PASS
95	95	100	100	100.0	191446	PASS
96	95	5	9	6.6	12705	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.9	189418	PASS
175	174	4	9	8.1	15253	PASS
176	174	93	101	96.9	183530	PASS
177	176	5	9	6.6	12030	PASS

W44074.D MW1765.M Wed Oct 16 08:38:41 2013 MSW

Average of 16.515 to 16.527 min.: W44074.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1519	47.95	991	61.00	6633	74.00	25489
37.00	7190	49.00	6341	62.00	6645	75.00	83464
38.00	6113	50.00	28394	63.00	4702	76.00	7176
39.00	2477	51.00	9110	63.95	540	76.95	1119
40.00	379	52.05	388	67.10	265	77.95	747
41.95	22	54.10	43	68.00	15564	78.90	2906
43.00	61	55.00	322	68.95	15454	79.90	972
44.00	888	55.95	2036	70.00	1297	80.90	2934
44.95	1118	57.00	3615	71.05	195	81.90	593
46.00	44	58.00	237	71.95	984	83.00	45
47.00	2444	60.00	1455	73.00	6952	84.00	70

Average of 16.515 to 16.527 min.: W44074.D
bfb
Modified:subtracted

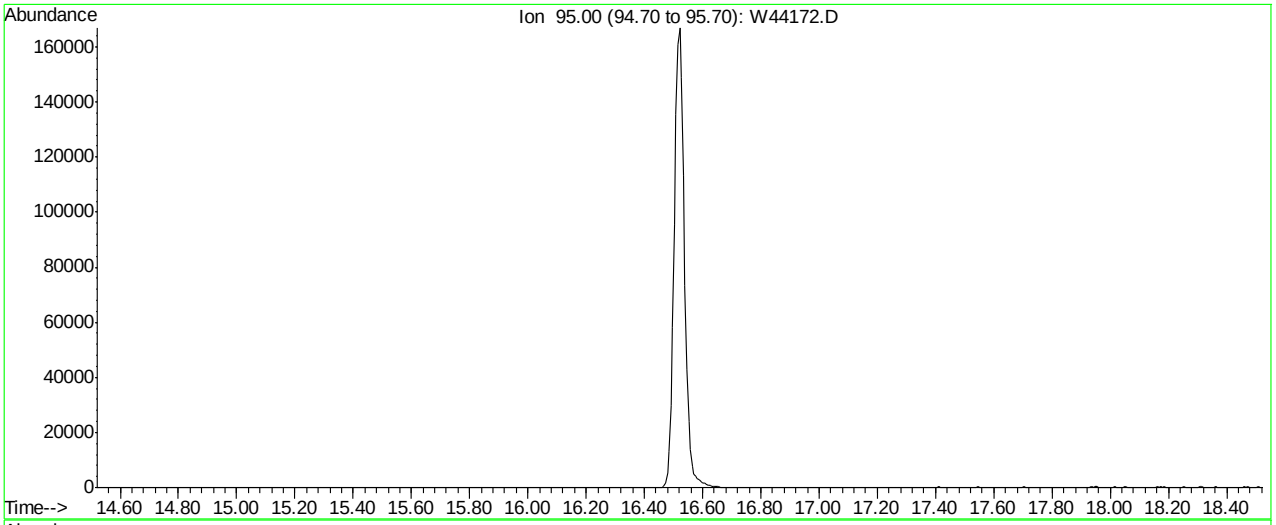
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	7853	102.90	37	114.90	158	129.85	719
87.95	7414	103.85	617	115.85	577	130.85	267
90.90	637	104.85	270	116.85	801	132.95	92
91.95	4447	105.85	594	117.90	532	133.90	40
93.00	7096	106.85	138	118.85	784	134.85	283
94.00	20088	109.80	45	123.80	35	136.80	251
95.00	191446	110.10	89	124.70	38	139.90	67
96.00	12705	110.95	145	125.00	42	140.90	1489
97.00	402	111.90	112	125.85	145	141.95	225
98.05	92	112.80	37	127.85	540	142.90	1544
102.60	44	114.00	35	128.95	307	144.70	74

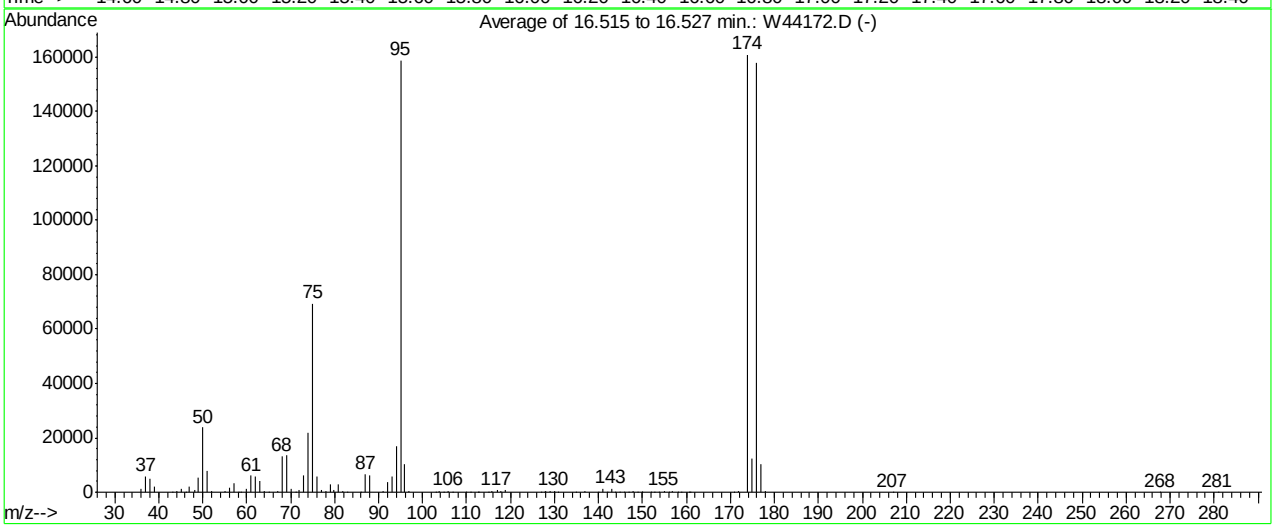
Average of 16.515 to 16.527 min.: W44074.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	74	158.95	182	177.85	341		
145.80	244	160.50	52	178.85	70		
146.90	260	160.80	187	191.90	46		
147.85	435	161.00	68	192.90	77		
148.70	49	171.00	37	194.00	57		
149.10	40	171.50	45	207.95	129		
149.90	206	172.00	69	208.70	34		
152.85	121	173.90	189418	248.80	27		
153.90	169	174.90	15253	264.90	27		
154.90	398	175.90	183530	267.90	37		
156.90	342	176.90	12030	282.70	56		

BFB

Data File : C:\MSDCHEM\1\DATA\W44172.D Vial: 1
Acq On : 19 Oct 2013 8:47 am Operator: danat
Sample : bfb Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1958, 1959, 1960; Background Corrected with Scan 1947

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.0	23896	PASS
75	95	30	66	43.6	69314	PASS
95	95	100	100	100.0	158890	PASS
96	95	5	9	6.6	10409	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.3	160960	PASS
175	174	4	9	7.7	12323	PASS
176	174	93	101	98.1	157888	PASS
177	176	5	9	6.5	10324	PASS

W44172.D MW1765.M Wed Oct 23 11:54:11 2013 MSW

Average of 16.515 to 16.527 min.: W44172.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1239	50.00	23896	63.00	4290	75.00	69314
37.00	5802	51.00	7687	64.00	434	76.00	5815
38.00	5101	52.05	346	64.95	142	76.90	856
39.05	1984	55.00	466	66.95	276	77.95	540
43.00	30	56.00	1801	68.00	13294	78.90	2968
44.00	578	57.00	3332	69.00	13510	79.90	971
45.00	1232	58.00	205	70.00	1104	80.90	3064
46.05	100	58.60	33	71.20	82	81.95	509
47.00	1910	60.00	1218	72.00	830	82.80	42
48.05	655	61.00	6014	73.00	6002	85.85	118
49.00	5275	62.00	5635	74.00	21813	86.95	6762

Average of 16.515 to 16.527 min.: W44172.D
bfb
Modified:subtracted

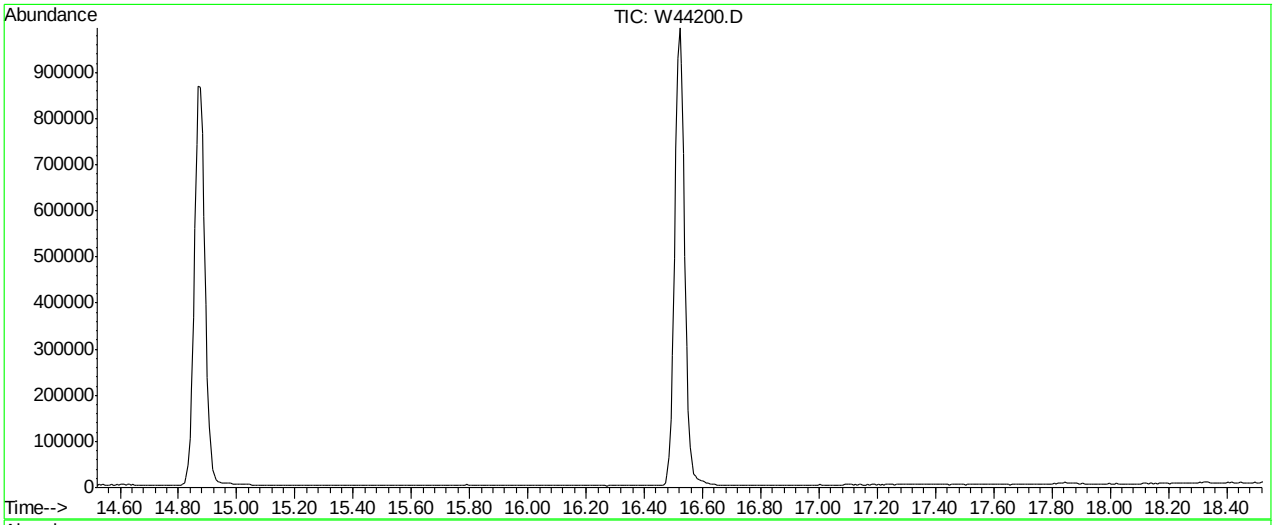
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	6327	105.85	485	126.95	76	142.90	1364
90.90	457	106.85	169	127.80	162	143.90	36
92.00	3870	109.80	42	127.95	326	144.90	172
93.00	5712	110.85	76	128.90	231	145.85	208
94.00	16919	112.60	41	129.90	508	146.95	9
95.00	158890	112.80	38	130.85	179	147.90	361
95.95	10409	114.85	158	134.85	221	148.90	92
96.95	285	115.85	448	136.95	255	149.80	37
103.00	53	116.90	805	140.00	91	150.00	36
103.85	411	117.85	436	140.90	1259	151.90	48
104.90	139	118.85	701	141.95	134	152.80	153

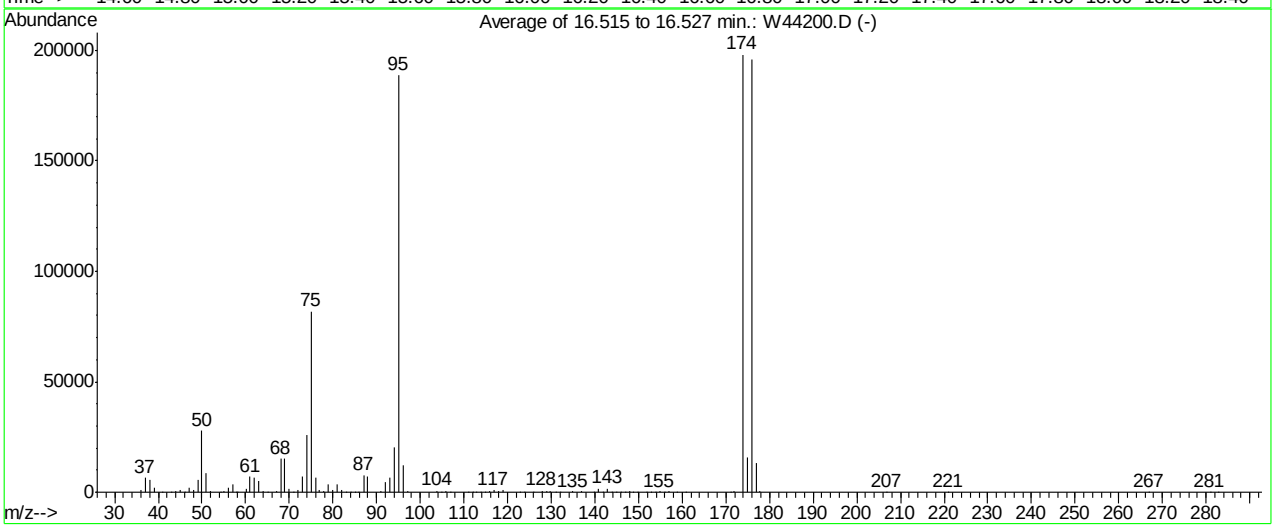
Average of 16.515 to 16.527 min.: W44172.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.80	42	174.90	12323				
154.95	419	175.90	157888				
156.00	42	176.90	10324				
156.85	310	177.90	344				
158.00	37	206.95	30				
158.85	207	267.70	42				
160.50	35	280.95	131				
160.85	132						
170.90	38						
171.95	360						
173.90	160960						

BFB

Data File : C:\MSDCHEM\1\DATA\W44200.D Vial: 1
Acq On : 21 Oct 2013 9:22 am Operator: danat
Sample : bfb Inst : MSW
Misc : MS56739,VW1770,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1958, 1959, 1960; Background Corrected with Scan 1945

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.7	27698	PASS
75	95	30	66	43.3	81792	PASS
95	95	100	100	100.0	188885	PASS
96	95	5	9	6.4	12173	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	104.9	198186	PASS
175	174	4	9	7.9	15695	PASS
176	174	93	101	98.8	195776	PASS
177	176	5	9	6.8	13238	PASS

W44200.D MW1765.M Mon Oct 21 13:55:49 2013 MSW

Average of 16.515 to 16.527 min.: W44200.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1184	49.00	5766	61.00	7042	73.00	7043
37.00	6465	50.00	27698	62.00	6836	74.00	25898
38.00	5672	51.00	8861	63.00	5068	75.00	81792
39.00	2296	52.00	408	64.00	529	76.00	6613
40.95	28	54.20	36	65.00	140	76.95	1076
43.00	115	54.95	405	67.05	375	77.90	736
44.00	608	55.95	2138	68.00	15085	78.90	3689
45.00	1214	56.95	3731	69.00	15431	79.90	1236
46.00	43	57.95	94	69.95	1295	80.90	3436
47.00	2080	58.20	76	70.90	74	81.85	899
48.00	872	60.05	1397	72.00	964	83.05	29

Average of 16.515 to 16.527 min.: W44200.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.00	34	97.05	410	116.90	952	134.90	340
85.10	86	103.90	632	117.95	533	136.80	276
85.90	107	104.85	266	118.85	807	139.85	150
87.00	7774	105.85	608	122.70	45	140.90	1456
87.90	7336	106.85	160	123.85	85	141.85	225
90.90	545	110.95	136	125.90	103	142.85	1528
92.00	4590	111.90	122	127.85	657	143.95	92
93.00	6674	112.85	122	128.85	317	144.95	177
94.00	20496	113.85	78	129.85	601	145.90	249
95.00	188885	114.90	206	130.90	254	146.90	84
96.00	12173	115.90	635	132.00	47	147.90	499

Average of 16.515 to 16.527 min.: W44200.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.85	186	171.95	473				
149.85	262	173.90	198186				
151.80	35	174.90	15695				
152.80	128	175.90	195776				
153.90	143	176.90	13238				
154.85	465	177.85	348				
155.90	45	206.85	131				
156.95	441	221.00	34				
158.85	245	266.90	37				
160.75	198	280.95	125				
171.00	35	282.80	33				

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35039.D Vial: 1
Acq On : 23 Jul 2013 10:20 am Operator: YOUMINH
Sample : ICC1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:03 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	113224	10.00	PPBV	-0.04
49) 1,4-DIFLUOROBENZENE	8.96	114	514163	10.00	PPBV	-0.05
68) CHLOROBENZENE-D5	13.10	82	253225	10.00	PPBV	-0.05
105) CHLOROBENZENE-D5 (a)	13.10	82	253499	10.00	PPBV	-0.05
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.74	95	302914	11.29	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.90%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	106557	10.13	PPBV	98
4) CHLORODIFLUOROMETHANE	4.35	67	39013	10.36	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.41	85	404148	10.04	PPBV	99
6) PROPYLENE	4.36	41	130458	9.09	PPBV	99
7) FREON 114	4.55	85	434716	10.45	PPBV	98
8) CHLOROMETHANE	4.50	50	190338	9.63	PPBV	99
9) VINYL CHLORIDE	4.62	62	188025	10.54	PPBV	100
10) 1,3-BUTADIENE	4.69	54	136667	10.49	PPBV	99
11) n-BUTANE	4.72	43	256973	9.14	PPBV	99
12) BROMOMETHANE	4.86	94	174539	11.14	PPBV	99
13) CHLOROETHANE	4.94	64	100486	11.30	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	374634	10.46	PPBV	100
15) ACETONITRILE	5.17	41	107552	10.56	PPBV	99
16) FREON 123	5.21	83	410586	11.02	PPBV	99
17) FREON 123A	5.24	117	239605	10.99	PPBV	91
18) TRICHLOROFLUOROMETHANE	5.38	101	398857	10.17	PPBV	99
19) ISOPROPYL ALCOHOL	5.45	45	250877	10.12	PPBV #	5
20) ACETONE	5.29	58	70564	9.74	PPBV	96
21) PENTANE	5.55	42	166463	9.14	PPBV	99
23) IODOMETHANE	5.73	142	467151	11.54	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.77	96	167405	11.04	PPBV	94
25) CARBON DISULFIDE	6.04	76	456774	10.04	PPBV	98
26) ETHANOL	5.05	45	62443	10.79	PPBV	98
27) BROMOETHENE	5.15	106	181506	11.52	PPBV	100
28) ACRYLONITRILE	5.59	52	91644	11.56	PPBV	94
29) METHYLENE CHLORIDE	5.85	84	146201	8.97	PPBV	98
30) 3-CHLOROPROPENE	5.91	76	76340	11.08	PPBV #	64
31) FREON 113	5.99	151	287364	11.41	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	171000	11.79	PPBV	96
33) TERTIARY BUTYL ALCOHOL	5.80	59	331373	11.92	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.61	73	432440	10.81	PPBV	99
35) TETRAHYDROFURAN	7.77	72	76603	11.51	PPBV	95
36) HEXANE	7.29	57	261949	10.62	PPBV	97
37) VINYL ACETATE	6.69	86	35744	11.37	PPBV #	81
38) 1,1-DICHLOROETHANE	6.60	63	318772	10.55	PPBV	99
39) METHYL ETHYL KETONE	6.88	72	74352	11.42	PPBV #	87
40) cis-1,2-DICHLOROETHYLENE	7.25	96	184805	11.53	PPBV	96
41) DIISOPROPYL ETHER	7.31	45	554121	10.23	PPBV	97
42) ETHYL ACETATE	7.37	61	52485	10.05	PPBV #	93
43) METHYL ACRYLATE	7.39	55	254070	10.84	PPBV #	100
44) CHLOROFORM	7.45	83	340237	10.83	PPBV	91
45) 2,4-DIMETHYLPENTANE	7.99	57	328476	10.61	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.24	97	341210	10.89	PPBV	99
47) CARBON TETRACHLORIDE	8.77	117	347228	10.79	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	192559	10.83	PPBV	99
50) BENZENE	8.65	78	533673	10.72	PPBV	99
51) CYCLOHEXANE	8.81	84	282389	11.10	PPBV	96
52) 2,3-DIMETHYLPENTANE	8.99	71	119742	9.84	PPBV	99

(#) = qualifier out of range (m) = manual integration
3W35039.D M3W1350.M Thu Jul 25 10:23:41 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35039.D Vial: 1
Acq On : 23 Jul 2013 10:20 am Operator: YOUMINH
Sample : ICC1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:03 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

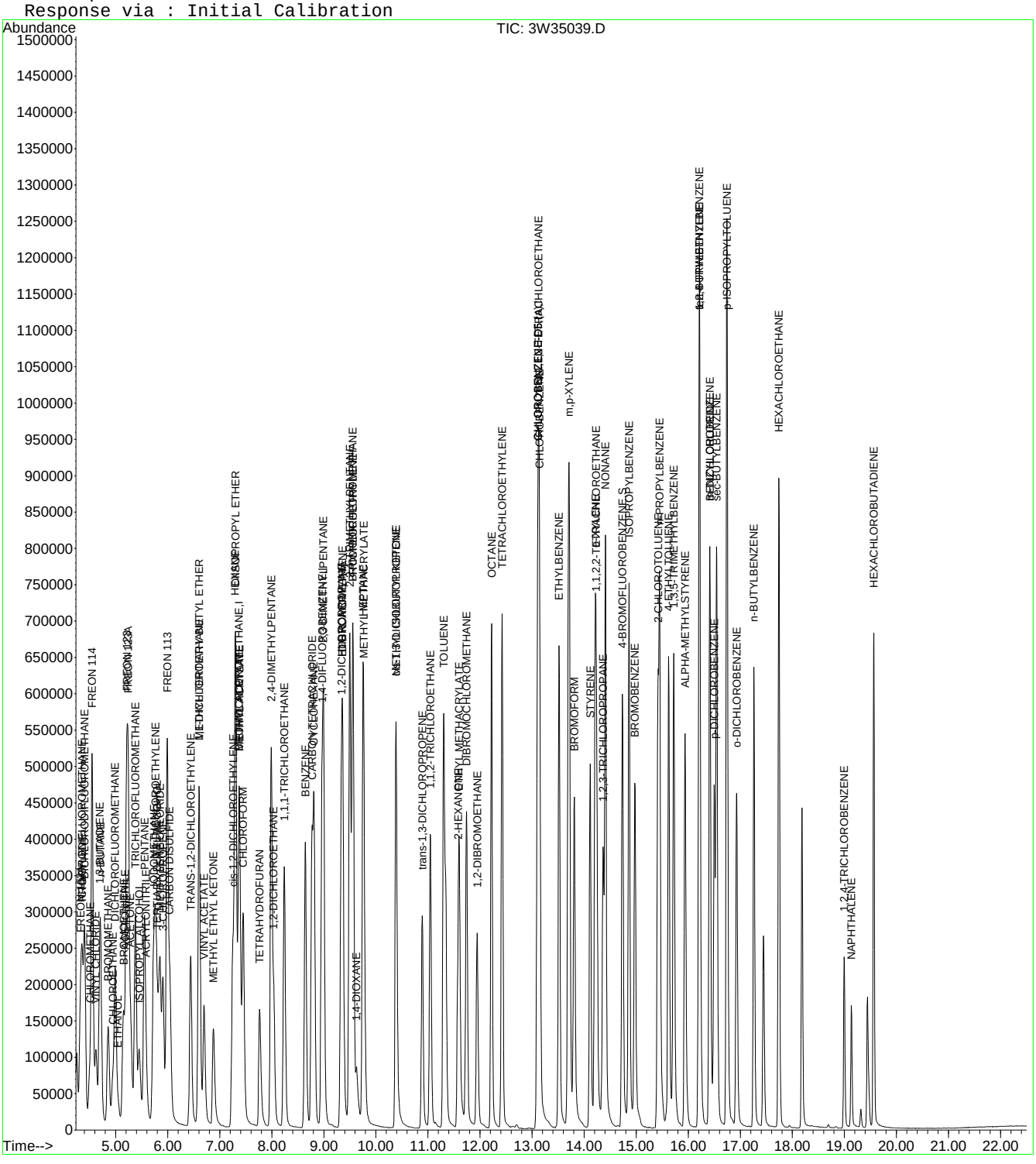
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53) TRICHLOROETHYLENE	9.56	95	211959	10.91	PPBV		96
54) 1,2-DICHLOROPROPANE	9.33	63	193853	9.43	PPBV		98
55) DIBROMOMETHANE	9.36	174	214845	11.67	PPBV		97
56) ETHYL ACRYLATE	9.36	55	304564	9.07	PPBV	#	91
57) BROMODICHLOROMETHANE	9.55	83	360700	10.75	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	9.50	57	841936	10.27	PPBV		98
59) 1,4-DIOXANE	9.63	88	102924	11.58	PPBV	#	1
60) HEPTANE	9.75	43	303146	9.46	PPBV		93
62) METHYL METHACRYLATE	9.77	69	165470	10.88	PPBV	#	100
63) METHYL ISOBUTYL KETONE	10.39	58	125892	10.15	PPBV		97
64) cis-1,3-DICHLOROPROPENE	10.39	75	269616	11.25	PPBV		98
65) TOLUENE	11.30	92	359078	11.37	PPBV		99
66) trans-1,3-DICHLOROPROPENE	10.89	75	251064	11.87	PPBV		97
67) 1,1,2-TRICHLOROETHANE	11.04	83	178797	11.14	PPBV		99
69) 2-HEXANONE	11.58	58	167362	11.40	PPBV		97
70) ETHYL METHACRYLATE	11.60	69	244818	11.24	PPBV		96
71) TETRACHLOROETHYLENE	12.42	164	242486	11.97	PPBV		99
72) DIBROMOCHLOROMETHANE	11.74	129	355822	11.46	PPBV		100
73) 1,2-DIBROMOETHANE	11.94	107	288487	11.92	PPBV		99
74) OCTANE	12.22	43	397218	10.13	PPBV		97
75) 1,1,1,2-TETRACHLOROETHANE	13.12	131	257110	11.41	PPBV		98
76) CHLOROBENZENE	13.15	112	423366	11.35	PPBV		98
77) ETHYLBENZENE	13.52	91	701729	11.19	PPBV		98
78) m,p-XYLENE	13.71	106	539083	23.04	PPBV		95
79) o-XYLENE	14.21	106	260309	11.33	PPBV	#	99
80) STYRENE	14.11	104	406724	12.69	PPBV		82
81) NONANE	14.41	43	388903	10.38	PPBV		97
82) BROMOFORM	13.81	173	342827	11.95	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	14.24	83	378554	12.16	PPBV		98
85) 1,2,3-TRICHLOROPROPANE	14.36	75	270236	12.32	PPBV		100
86) ISOPROPYLBENZENE	14.86	105	753629	11.45	PPBV		99
87) BROMOBENZENE	14.97	77	319330	11.21	PPBV		94
88) 2-CHLOROTOLUENE	15.42	126	180077	12.64	PPBV		99
89) n-PROPYLBENZENE	15.45	120	188385	13.39	PPBV		99
90) 4-ETHYLTOLUENE	15.62	105	640951	14.10	PPBV		100
91) 1,3,5-TRIMETHYLBENZENE	15.72	105	565584	14.88	PPBV		99
92) ALPHA-METHYLSTYRENE	15.94	118	261164	18.60	PPBV		99
93) tert-BUTYLBENZENE	16.21	134	129753	16.36	PPBV		97
94) 1,2,4-TRIMETHYLBENZENE	16.22	105	502881	16.40	PPBV	#	84
95) m-DICHLOROBENZENE	16.41	146	317422	17.31	PPBV		99
96) BENZYL CHLORIDE	16.41	91	360629	21.27	PPBV		97
97) p-DICHLOROBENZENE	16.50	146	311465	17.40	PPBV		100
98) sec-BUTYLBENZENE	16.55	134	150835	17.25	PPBV	#	93
99) p-ISOPROPYLTOLUENE	16.74	134	158377	20.52	PPBV		98
100) o-DICHLOROBENZENE	16.93	146	294376	17.73	PPBV		98
101) n-BUTYLBENZENE	17.26	134	127373	25.89	PPBV	#	90
102) HEXACHLOROETHANE	17.74	117	225740	14.55	PPBV		97
103) HEXACHLOROBUTADIENE	19.57	225	166907	22.23	PPBV		82
104) 1,2,4-TRICHLOROBENZENE	19.00	180	102537	22.38	PPBV		98
106) NAPHTHALENE	19.13	128	170082	22.39	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35039.D M3W1350.M Thu Jul 25 10:23:42 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35039.D Vial: 1
Acq On : 23 Jul 2013 10:20 am Operator: YOUMINH
Sample : ICC1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:23 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50673

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
07/25/13 11:35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:09 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	115384	10.00	PPBV	-0.05
49) 1,4-DIFLUOROBENZENE	8.96	114	516654	10.00	PPBV	-0.05
68) CHLOROBENZENE-D5	13.10	82	253999	10.00	PPBV	-0.06
105) CHLOROBENZENE-D5 (a)	13.10	82	254275	10.00	PPBV	-0.06
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.73	95	304447	11.31	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 113.10%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	53061	4.95	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	19413	5.06	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.40	85	205306	5.01	PPBV	100
6) PROPYLENE	4.36	41	67251	4.60	PPBV	100
7) FREON 114	4.55	85	214448	5.06	PPBV	97
8) CHLOROMETHANE	4.50	50	92265	4.58	PPBV	96
9) VINYL CHLORIDE	4.62	62	93415	5.14	PPBV	100
10) 1,3-BUTADIENE	4.69	54	67056	5.05	PPBV	98
11) n-BUTANE	4.71	43	130390	4.55	PPBV	99
12) BROMOMETHANE	4.85	94	86553	5.42	PPBV	99
13) CHLOROETHANE	4.94	64	47098	5.20	PPBV	98
14) DICHLOROFLUOROMETHANE	4.99	67	180690	4.95	PPBV	100
15) ACETONITRILE	5.17	41	48460	4.67	PPBV	97
16) FREON 123	5.20	83	199630	5.26	PPBV	99
17) FREON 123A	5.24	117	115120	5.18	PPBV	93
18) TRICHLOROFLUOROMETHANE	5.38	101	198386	4.96	PPBV	99
19) ISOPROPYL ALCOHOL	5.45	45	116141	4.60	PPBV #	6
20) ACETONE	5.29	58	32507	4.40	PPBV	92
21) PENTANE	5.55	42	81843	4.41	PPBV	98
23) IODOMETHANE	5.73	142	227136	5.51	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.76	96	81906	5.30	PPBV	94
25) CARBON DISULFIDE	6.04	76	229346	4.94	PPBV	98
26) ETHANOL	5.04	45	28725	4.87	PPBV	99
27) BROMOETHENE	5.14	106	88388	5.50	PPBV	99
28) ACRYLONITRILE	5.58	52	40121	4.96	PPBV	94
29) METHYLENE CHLORIDE	5.85	84	71370	4.30	PPBV	89
30) 3-CHLOROPROPENE	5.91	76	35680	5.08	PPBV #	66
31) FREON 113	5.99	151	140058	5.46	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	81044	5.48	PPBV	96
33) TERTIARY BUTYL ALCOHOL	5.82	59	147095	5.19	PPBV	91
34) METHYL TERTIARY BUTYL ETHE	6.61	73	199089	4.88	PPBV	99
35) TETRAHYDROFURAN	7.77	72	34600	5.10	PPBV	96
36) HEXANE	7.29	57	124528	4.95	PPBV	96
37) VINYL ACETATE	6.70	86	16185	5.05	PPBV #	79
38) 1,1-DICHLOROETHANE	6.59	63	151410	4.92	PPBV	100
39) METHYL ETHYL KETONE	6.88	72	32171	4.85	PPBV #	90
40) cis-1,2-DICHLOROETHYLENE	7.24	96	86330	5.29	PPBV	97
41) DIISOPROPYL ETHER	7.31	45	258304	4.68	PPBV	98
42) ETHYL ACETATE	7.38	61	23758	4.46	PPBV #	93
43) METHYL ACRYLATE	7.38	55	111716	4.68	PPBV #	99
44) CHLOROFORM	7.44	83	159313	4.98	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.98	57	158269	5.02	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.24	97	164313	5.15	PPBV	98
47) CARBON TETRACHLORIDE	8.77	117	166709	5.09	PPBV	99
48) 1,2-DICHLOROETHANE	8.03	62	87766	4.84	PPBV	99
50) BENZENE	8.64	78	251992	5.04	PPBV	99
51) CYCLOHEXANE	8.81	84	135707	5.31	PPBV	96
52) 2,3-DIMETHYLPENTANE	8.99	71	57964	4.74	PPBV	96

(#) = qualifier out of range (m) = manual integration
3W35040.D M3W1350.M Thu Jul 25 10:24:17 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:50:09 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Sat Jul 20 17:28:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

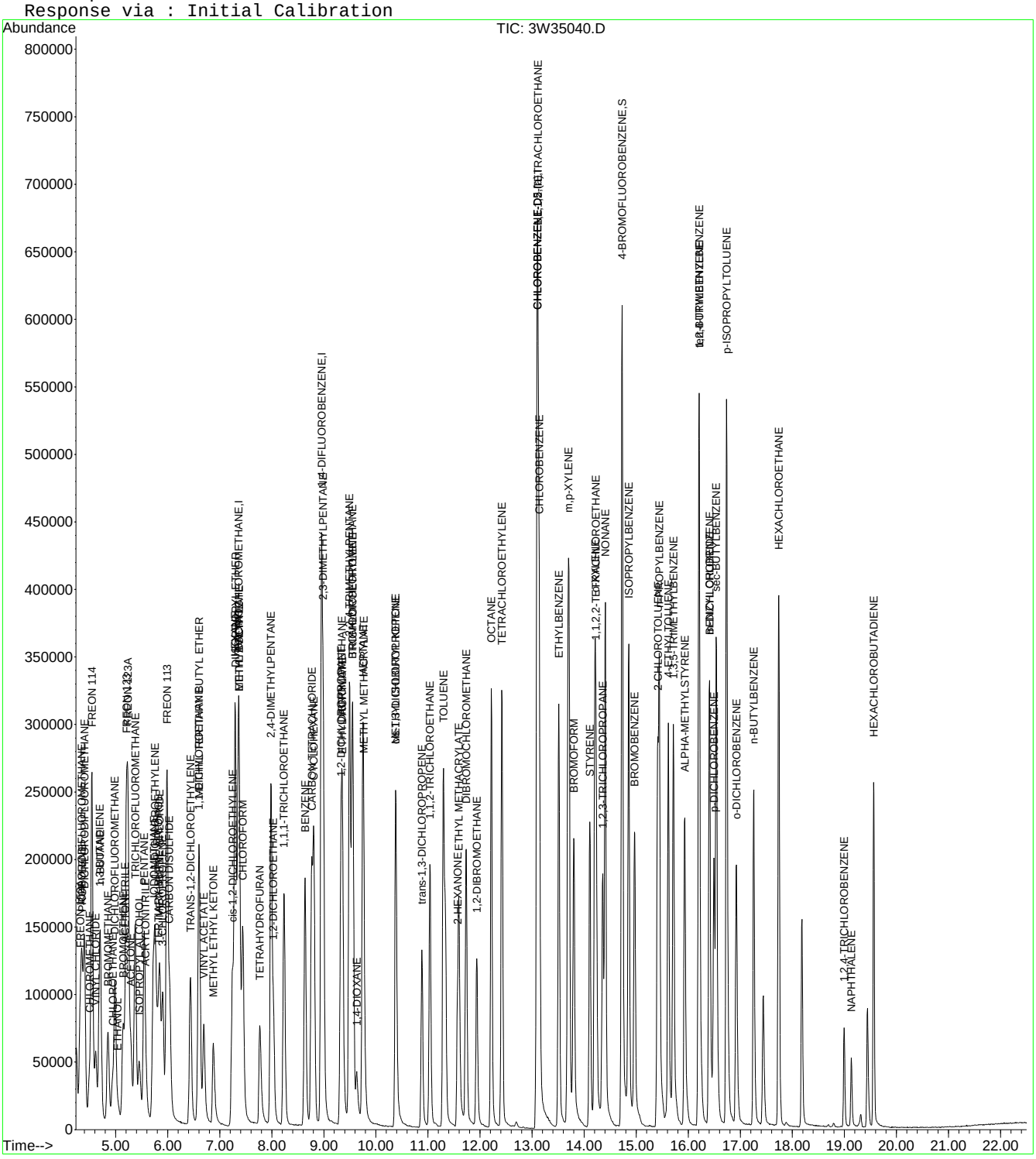
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.56	95	97883	5.01	PPBV		97
54)	1,2-DICHLOROPROPANE	9.32	63	90382	4.38	PPBV		98
55)	DIBROMOMETHANE	9.35	174	98309	5.31	PPBV		97
56)	ETHYL ACRYLATE	9.36	55	131534	3.90	PPBV	#	91
57)	BROMODICHLOROMETHANE	9.54	83	169366	5.02	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.49	57	411262	4.99	PPBV		98
59)	1,4-DIOXANE	9.63	88	43628	4.88	PPBV	#	1
60)	HEPTANE	9.75	43	141286	4.39	PPBV		94
62)	METHYL METHACRYLATE	9.77	69	72388	4.74	PPBV	#	100
63)	METHYL ISOBUTYL KETONE	10.39	58	53989	4.33	PPBV		98
64)	cis-1,3-DICHLOROPROPENE	10.38	75	121971	5.06	PPBV		98
65)	TOLUENE	11.30	92	166787	5.25	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.88	75	111054	5.22	PPBV		98
67)	1,1,2-TRICHLOROETHANE	11.04	83	82787	5.13	PPBV		98
69)	2-HEXANONE	11.57	58	69941	4.75	PPBV		99
70)	ETHYL METHACRYLATE	11.60	69	105629	4.84	PPBV		96
71)	TETRACHLOROETHYLENE	12.42	164	113829	5.60	PPBV		98
72)	DIBROMOCHLOROMETHANE	11.74	129	165930	5.33	PPBV		99
73)	1,2-DIBROMOETHANE	11.94	107	129612	5.34	PPBV		100
74)	OCTANE	12.22	43	189142	4.81	PPBV		98
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	120871	5.35	PPBV		98
76)	CHLOROBENZENE	13.14	112	195897	5.24	PPBV		99
77)	ETHYLBENZENE	13.51	91	323373	5.14	PPBV		99
78)	m,p-XYLENE	13.70	106	250447	10.67	PPBV		97
79)	o-XYLENE	14.21	106	123014	5.34	PPBV	#	97
80)	STYRENE	14.11	104	180086	5.60	PPBV		82
81)	NONANE	14.41	43	184384	4.91	PPBV		98
82)	BROMOFORM	13.80	173	155798	5.41	PPBV		100
84)	1,1,2,2-TETRACHLOROETHANE	14.23	83	174859	5.60	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.36	75	122832	5.58	PPBV		99
86)	ISOPROPYLBENZENE	14.86	105	352065	5.33	PPBV		99
87)	BROMOBENZENE	14.97	77	144035	5.04	PPBV		94
88)	2-CHLOROTOLUENE	15.41	126	82400	5.77	PPBV		100
89)	n-PROPYLBENZENE	15.44	120	86390	6.12	PPBV		98
90)	4-ETHYLTOLUENE	15.62	105	283490	6.22	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	260395	6.83	PPBV		97
92)	ALPHA-METHYLSTYRENE	15.93	118	112035	7.95	PPBV		99
93)	tert-BUTYLBENZENE	16.20	134	58562	7.36	PPBV		99
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	226444	7.36	PPBV	#	85
95)	m-DICHLOROBENZENE	16.40	146	135620	7.37	PPBV		99
96)	BENZYL CHLORIDE	16.41	91	148904	8.76	PPBV		98
97)	p-DICHLOROBENZENE	16.49	146	136050	7.58	PPBV		99
98)	sec-BUTYLBENZENE	16.54	134	68043	7.76	PPBV		95
99)	p-ISOPROPYLTOLUENE	16.74	134	70327	9.08	PPBV		100
100)	o-DICHLOROBENZENE	16.93	146	130102	7.81	PPBV		98
101)	n-BUTYLBENZENE	17.26	134	52399	10.62	PPBV		97
102)	HEXACHLOROETHANE	17.73	117	103232	6.63	PPBV		98
103)	HEXACHLOROBUTADIENE	19.57	225	63252m	8.40	PPBV		
104)	1,2,4-TRICHLOROBENZENE	18.99	180	34249	7.45	PPBV		97
106)	NAPHTHALENE	19.13	128	56666	7.44	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integration Approval Summary

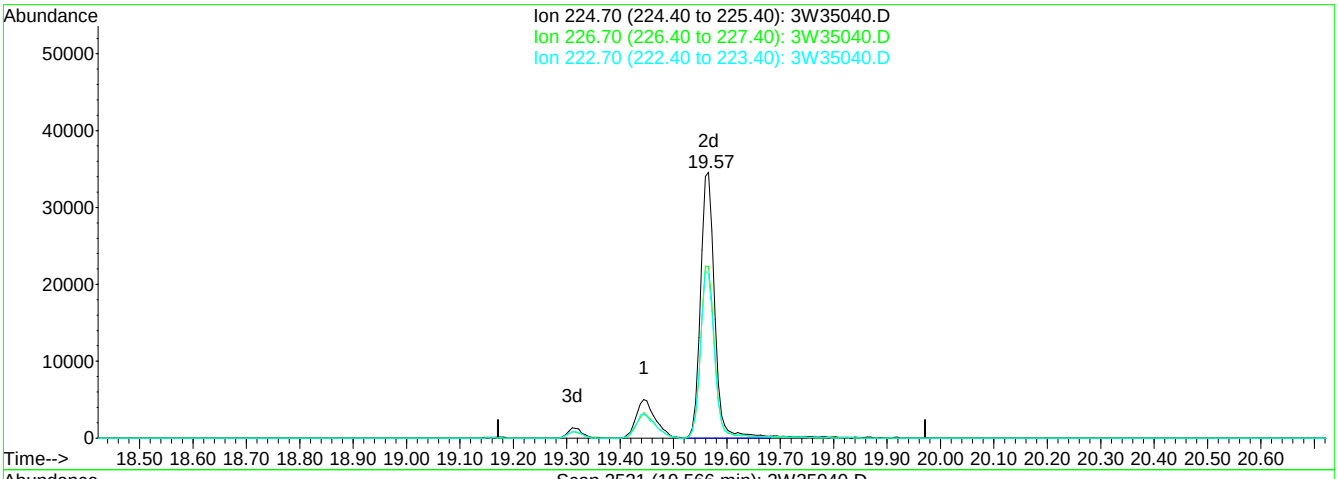
Sample Number:	V3W1350-IC1350	**Method:**	TO-15
Lab FileID:	3W35040.D	**Analyst approved:**	07/24/13 08:58 Dana Tryon
Injection Time:	07/23/13 11:05	**Supervisor approved:**	07/25/13 11:35 Jessica Reitan-Chu

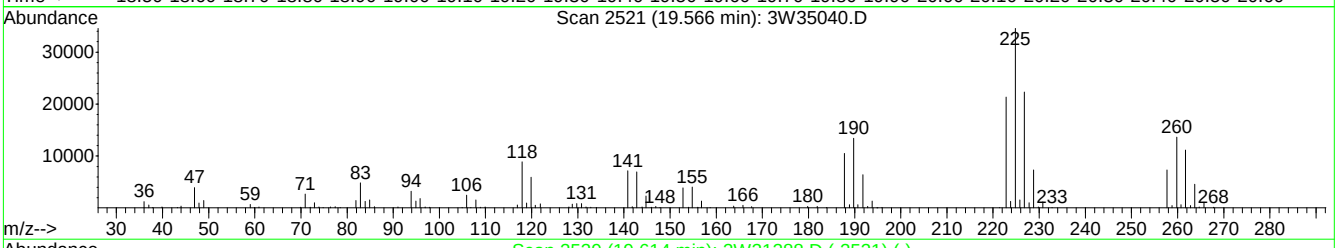
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorobutadiene	87-68-3		19.57	Missed peak

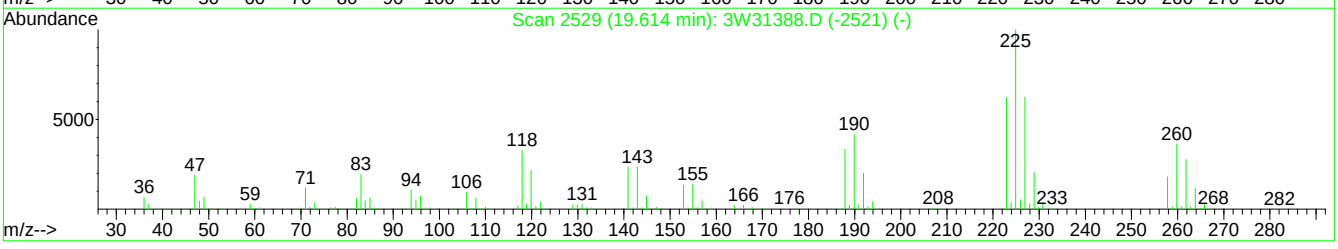
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35040.D Vial: 1
Acq On : 23 Jul 2013 11:05 am Operator: YOUMINH
Sample : IC1350-5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 11:52 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Multiple Level Calibration







TIC: 3W35040.D

(103) HEXACHLOROBUTADIENE

19.57min 8.40PPBV m

response 63252

Ion	Exp%	Act%
224.70	100	100
226.70	84.80	12.55#
222.70	73.40	12.70#
0.00	0.00	0.00

3W35040.D M3W1350.M Wed Jul 24 08:40:10 2013 MS3W

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
07/25/13 11:35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:50:00 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	110932	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.95	114	471475	10.00	PPBV	-0.01
68) CHLOROBENZENE-D5	13.09	82	211383	10.00	PPBV	-0.01
105) CHLOROBENZENE-D5 (a)	13.09	82	211593	10.00	PPBV	-0.01
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.72	95	229341	9.31	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.10%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	1990	0.20	PPBV	90
4) CHLORODIFLUOROMETHANE	4.34	67	702	0.18	PPBV	84
5) DICHLORODIFLUOROMETHANE	4.41	85	8613	0.21	PPBV	99
6) PROPYLENE	4.36	41	2848	0.22	PPBV	94
7) FREON 114	4.55	85	9040	0.21	PPBV	98
8) CHLOROMETHANE	4.50	50	4107	0.22	PPBV	98
9) VINYL CHLORIDE	4.62	62	3658	0.20	PPBV	96
10) 1,3-BUTADIENE	4.69	54	2564	0.20	PPBV	91
11) n-BUTANE	4.71	43	5750	0.22	PPBV #	92
12) BROMOMETHANE	4.86	94	3341	0.20	PPBV	99
13) CHLOROETHANE	4.93	64	1736	0.18	PPBV #	61
14) DICHLOROFLUOROMETHANE	4.99	67	7047	0.20	PPBV	98
15) ACETONITRILE	5.20	41	1316	0.13	PPBV #	63
16) FREON 123	5.21	83	7632	0.19	PPBV	97
17) FREON 123A	5.24	117	4551	0.20	PPBV	100
18) TRICHLOROFLUOROMETHANE	5.38	101	8005	0.20	PPBV	97
19) ISOPROPYL ALCOHOL	5.51	45	4057	0.17	PPBV #	24
20) ACETONE	5.35	58	953	0.15	PPBV #	45
21) PENTANE	5.54	42	3534	0.22	PPBV	87
23) IODOMETHANE	5.73	142	8686	0.19	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.76	96	2834	0.18	PPBV	91
25) CARBON DISULFIDE	6.04	76	9275	0.20	PPBV #	84
26) ETHANOL	5.10	45	898m	0.16	PPBV	
27) BROMOETHENE	5.15	106	3264	0.19	PPBV	96
28) ACRYLONITRILE	5.59	52	792	0.11	PPBV #	82
29) METHYLENE CHLORIDE	5.85	84	4426	0.29	PPBV	95
30) 3-CHLOROPROPENE	5.91	76	1146	0.16	PPBV #	35
31) FREON 113	5.99	151	5297	0.19	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	2508	0.16	PPBV	91
33) TERTIARY BUTYL ALCOHOL	5.89	59	4992	0.17	PPBV #	1
34) METHYL TERTIARY BUTYL ETHE	6.65	73	6771	0.17	PPBV	98
35) TETRAHYDROFURAN	7.85	72	716	0.11	PPBV #	63
36) HEXANE	7.29	57	4412	0.18	PPBV	92
37) VINYL ACETATE	6.72	86	177	0.06	PPBV #	1
38) 1,1-DICHLOROETHANE	6.60	63	5642	0.19	PPBV	98
39) METHYL ETHYL KETONE	6.94	72	741	0.12	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.24	96	2874	0.17	PPBV	95
41) DIISOPROPYL ETHER	7.34	45	8543	0.17	PPBV	88
42) ETHYL ACETATE	7.42	61	585m	0.13	PPBV	
43) METHYL ACRYLATE	7.42	55	2639	0.13	PPBV #	70
44) CHLOROFORM	7.43	83	5894	0.19	PPBV #	88
45) 2,4-DIMETHYLPENTANE	7.98	57	5802	0.19	PPBV	96
46) 1,1,1-TRICHLOROETHANE	8.23	97	6150	0.19	PPBV	97
47) CARBON TETRACHLORIDE	8.76	117	6500	0.20	PPBV	94
48) 1,2-DICHLOROETHANE	8.03	62	2912	0.17	PPBV	94
50) BENZENE	8.64	78	9452	0.20	PPBV	98
51) CYCLOHEXANE	8.81	84	5223	0.20	PPBV	98
52) 2,3-DIMETHYLPENTANE	8.98	71	2772	0.25	PPBV #	1

(#) = qualifier out of range (m) = manual integration
3W35042.D M3W1350.M Thu Jul 25 10:24:43 2013 MS3W

7.7.3
7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:50:00 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

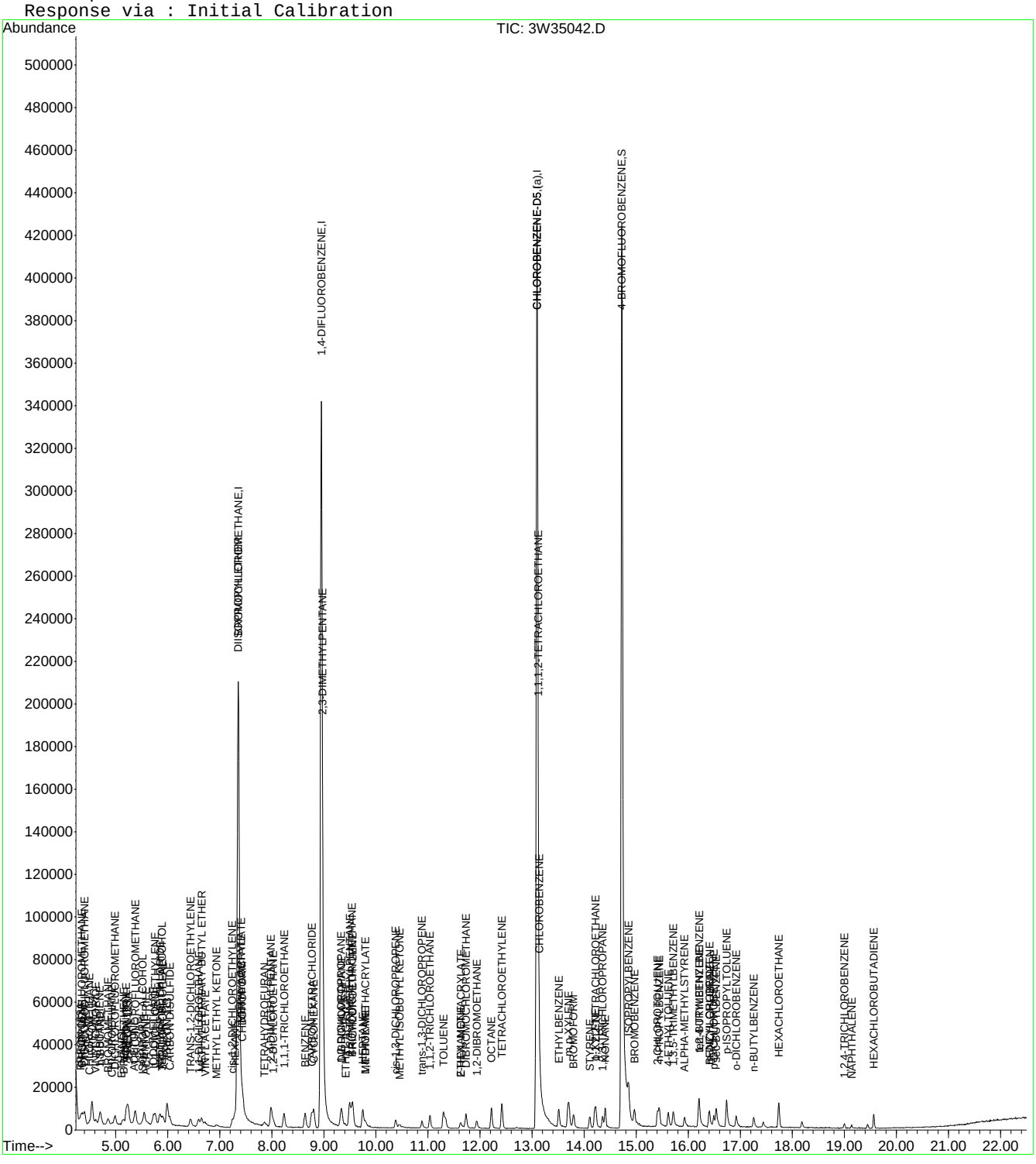
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.55	95	3837	0.20	PPBV		98
54)	1,2-DICHLOROPROPANE	9.33	63	4268	0.26	PPBV		78
55)	DIBROMOMETHANE	9.35	174	3527	0.19	PPBV		95
56)	ETHYL ACRYLATE	9.42	55	4158	0.16	PPBV	#	72
57)	BROMODICHLOROMETHANE	9.53	83	6045	0.19	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	9.49	57	15219	0.20	PPBV		98
59)	1,4-DIOXANE	9.80	88	1244m	0.17	PPBV		
60)	HEPTANE	9.75	43	5371	0.20	PPBV		95
62)	METHYL METHACRYLATE	9.80	69	1996	0.15	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.46	58	873m	0.09	PPBV		
64)	cis-1,3-DICHLOROPROPENE	10.38	75	3928	0.17	PPBV		95
65)	TOLUENE	11.30	92	5288	0.17	PPBV		99
66)	trans-1,3-DICHLOROPROPENE	10.88	75	3076	0.15	PPBV		96
67)	1,1,2-TRICHLOROETHANE	11.04	83	2610	0.18	PPBV		99
69)	2-HEXANONE	11.64	58	981m	0.09	PPBV		
70)	ETHYL METHACRYLATE	11.62	69	2258	0.13	PPBV	#	90
71)	TETRACHLOROETHYLENE	12.42	164	4011	0.20	PPBV		97
72)	DIBROMOCHLOROMETHANE	11.73	129	5385	0.19	PPBV		98
73)	1,2-DIBROMOETHANE	11.94	107	3921	0.18	PPBV	#	96
74)	OCTANE	12.22	43	6021	0.19	PPBV		94
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	4024	0.20	PPBV		99
76)	CHLOROBENZENE	13.14	112	6345	0.19	PPBV	#	57
77)	ETHYLBENZENE	13.51	91	9687	0.18	PPBV		96
78)	m,p-XYLENE	13.71	106	7446	0.36	PPBV		97
79)	o-XYLENE	14.21	106	3452	0.17	PPBV	#	87
80)	STYRENE	14.11	104	4291	0.15	PPBV		98
81)	NONANE	14.40	43	5059	0.16	PPBV		94
82)	BROMOFORM	13.79	173	4667	0.18	PPBV		95
84)	1,1,2,2-TETRACHLOROETHANE	14.22	83	5606	0.19	PPBV		89
85)	1,2,3-TRICHLOROPROPANE	14.35	75	3707	0.18	PPBV		92
86)	ISOPROPYLBENZENE	14.86	105	10670	0.18	PPBV		98
87)	BROMOBENZENE	14.96	77	4243	0.17	PPBV		98
88)	2-CHLOROTOLUENE	15.40	126	2322	0.17	PPBV		91
89)	n-PROPYLBENZENE	15.45	120	2090	0.15	PPBV		94
90)	4-ETHYLTOLUENE	15.62	105	7224	0.15	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	7870	0.18	PPBV		94
92)	ALPHA-METHYLSTYRENE	15.93	118	2240	0.12	PPBV		89
93)	tert-BUTYLBENZENE	16.20	134	1679	0.17	PPBV	#	82
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	6150	0.16	PPBV		88
95)	m-DICHLOROBENZENE	16.40	146	3778	0.16	PPBV		97
96)	BENZYL CHLORIDE	16.41	91	4210	0.17	PPBV		88
97)	p-DICHLOROBENZENE	16.49	146	4016	0.17	PPBV		94
98)	sec-BUTYLBENZENE	16.54	134	1883	0.17	PPBV	#	87
99)	p-ISOPROPYLTOLUENE	16.74	134	1649	0.14	PPBV	#	66
100)	o-DICHLOROBENZENE	16.93	146	3951	0.18	PPBV		95
101)	n-BUTYLBENZENE	17.25	134	1138	0.13	PPBV	#	82
102)	HEXACHLOROETHANE	17.74	117	3543	0.20	PPBV		87
103)	HEXACHLOROBUTADIENE	19.56	225	1840	0.16	PPBV		98
104)	1,2,4-TRICHLOROBENZENE	19.00	180	1119	0.16	PPBV		91
106)	NAPHTHALENE	19.15	128	1634	0.14	PPBV	#	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35042.D M3W1350.M Thu Jul 25 10:24:44 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integration Approval Summary

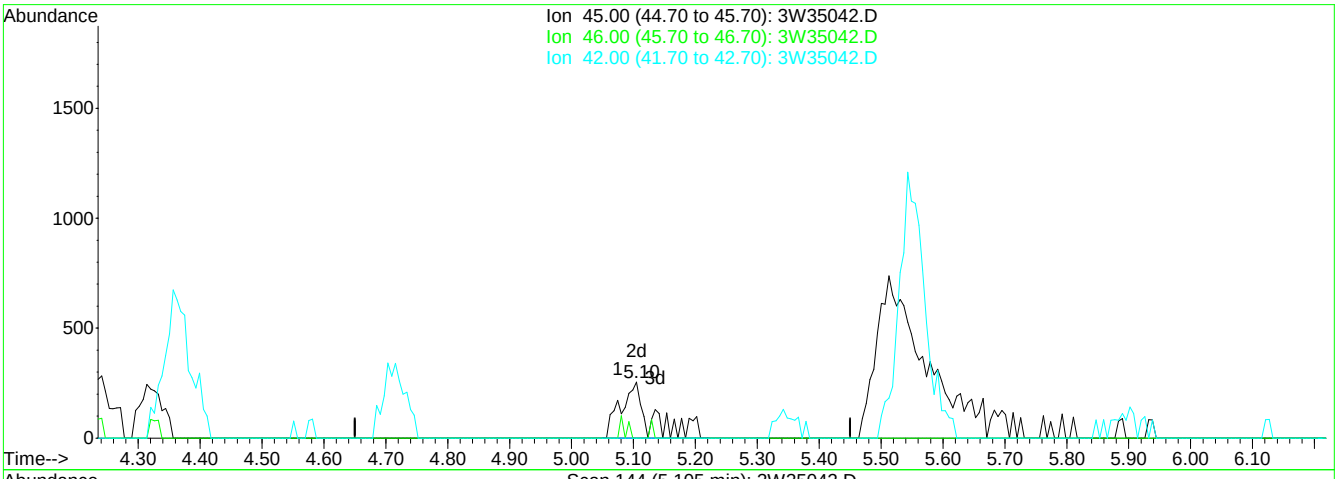
Sample Number:	V3W1350-IC1350	**Method:**	TO-15
Lab FileID:	3W35042.D	**Analyst approved:**	07/24/13 08:58 Dana Tryon
Injection Time:	07/23/13 12:23	**Supervisor approved:**	07/25/13 11:35 Jessica Reitan-Chu

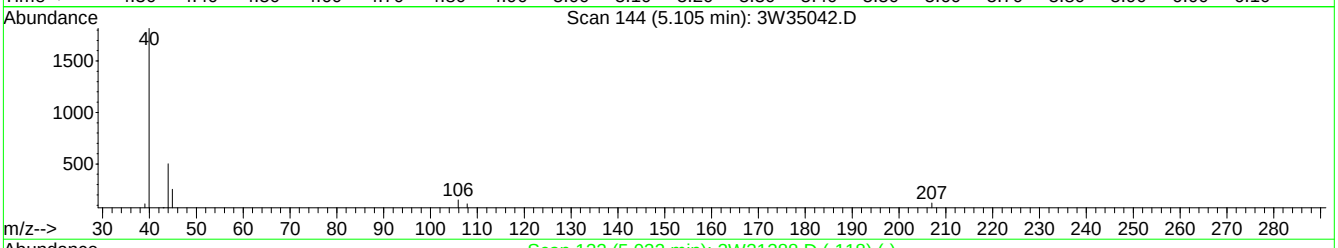
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		5.10	Missed peak
Ethyl Acetate	141-78-6		7.42	Missed peak
1,4-Dioxane	123-91-1		9.80	Missed peak
Methyl Isobutyl Ketone	108-10-1		10.46	Missed peak
2-Hexanone	591-78-6		11.64	Missed peak

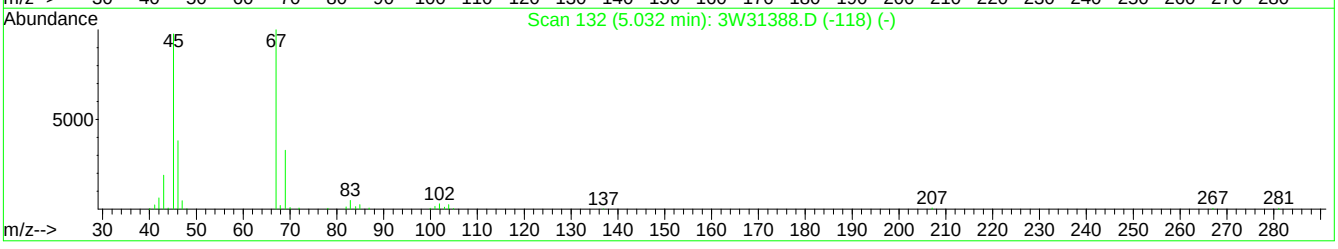
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35042.D

(26) ETHANOL

5.10min 0.16PPBV m

response 898

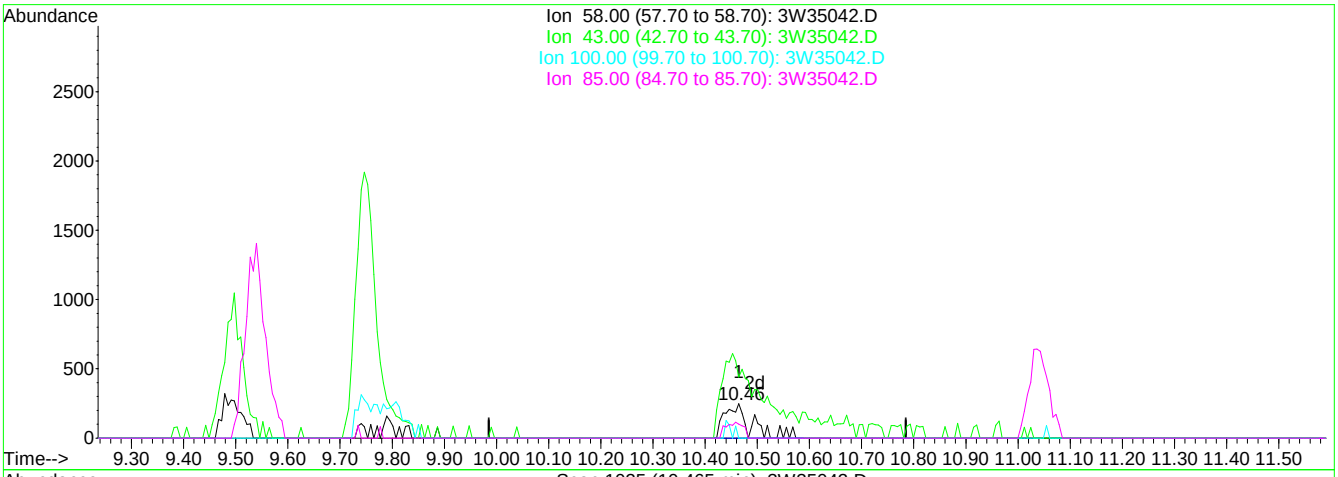
Ion	Exp%	Act%
45.00	100	100
46.00	35.30	0.00#
42.00	4.90	0.00
0.00	0.00	0.00

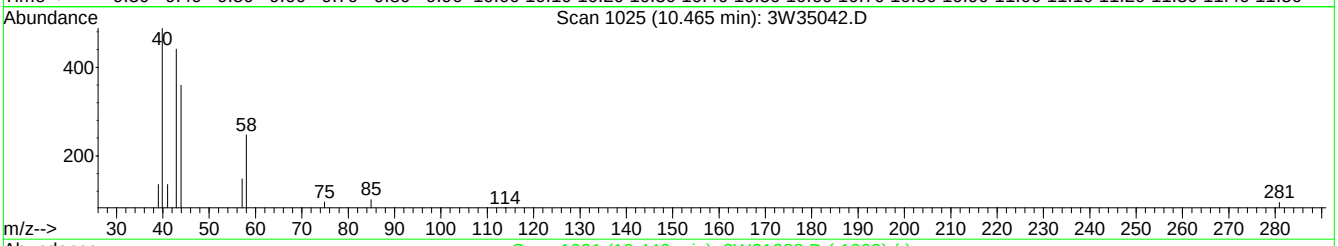
3W35042.D M3W1350.M Wed Jul 24 08:42:00 2013 MS3W

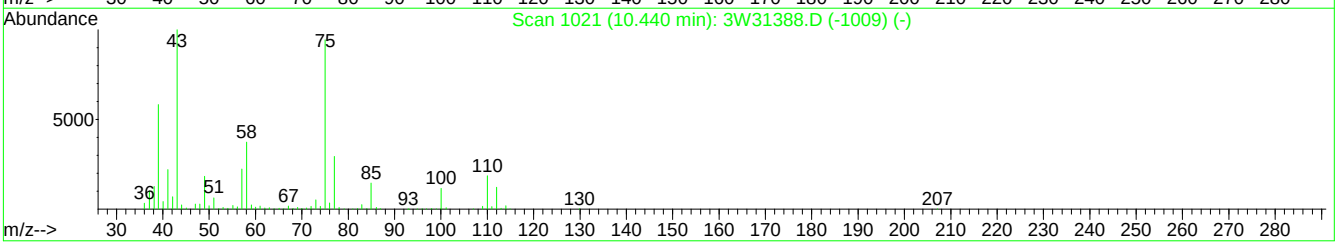
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35042.D

(63) METHYL ISOBUTYL KETONE

10.46min 0.09PPBV m

response 873

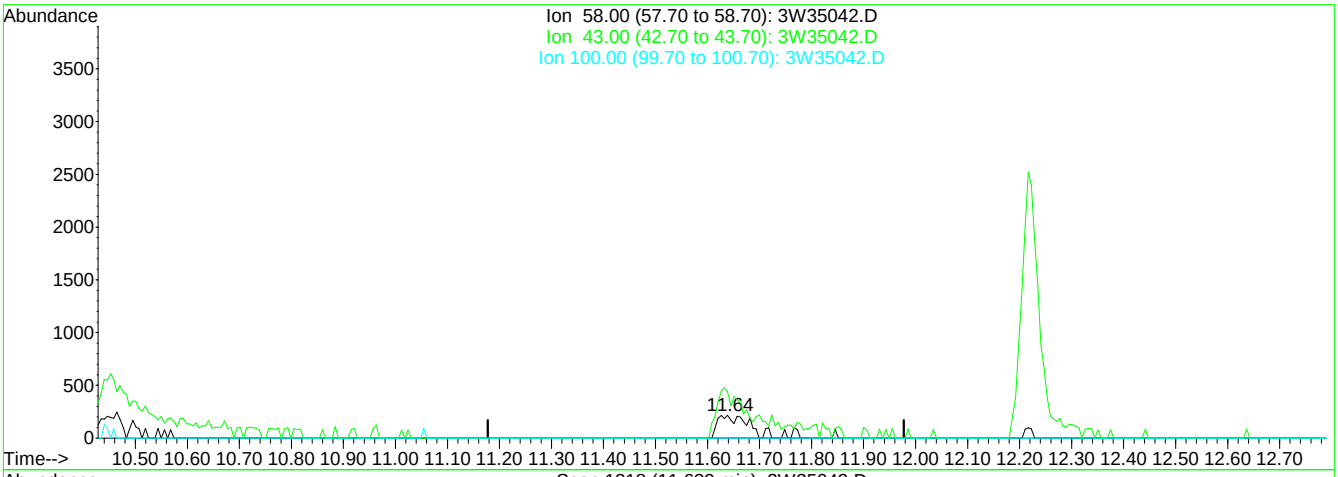
Ion	Exp%	Act%
58.00	100	100
43.00	239.30	452.81#
100.00	35.00	0.00#
85.00	44.80	31.04

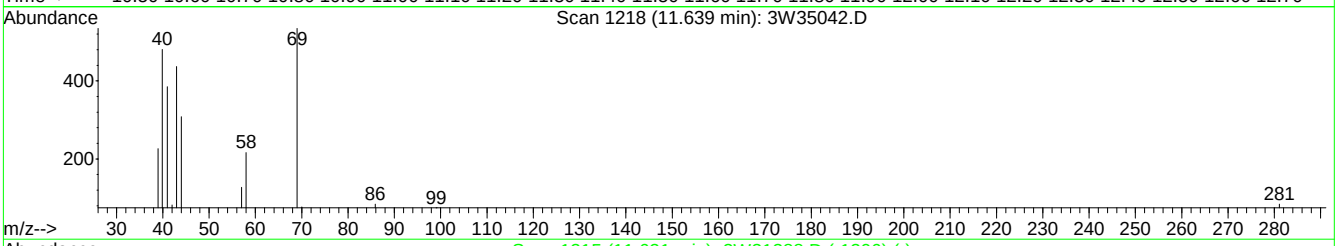
3W35042.D M3W1350.M Wed Jul 24 08:42:46 2013 MS3W

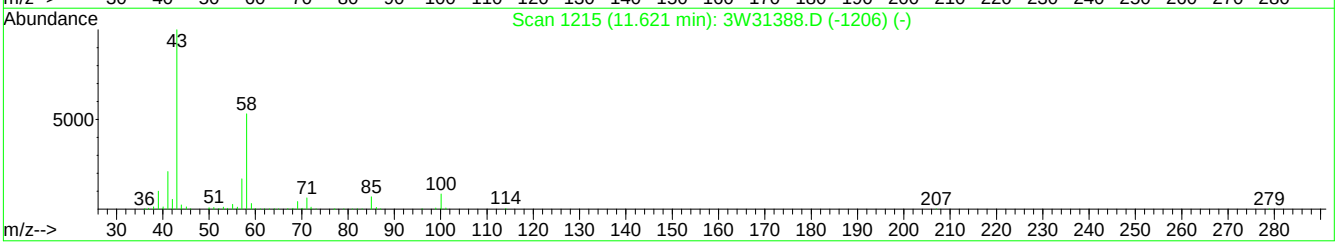
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:06 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35042.D

(69) 2-HEXANONE

11.64min 0.09PPBV m

response 981

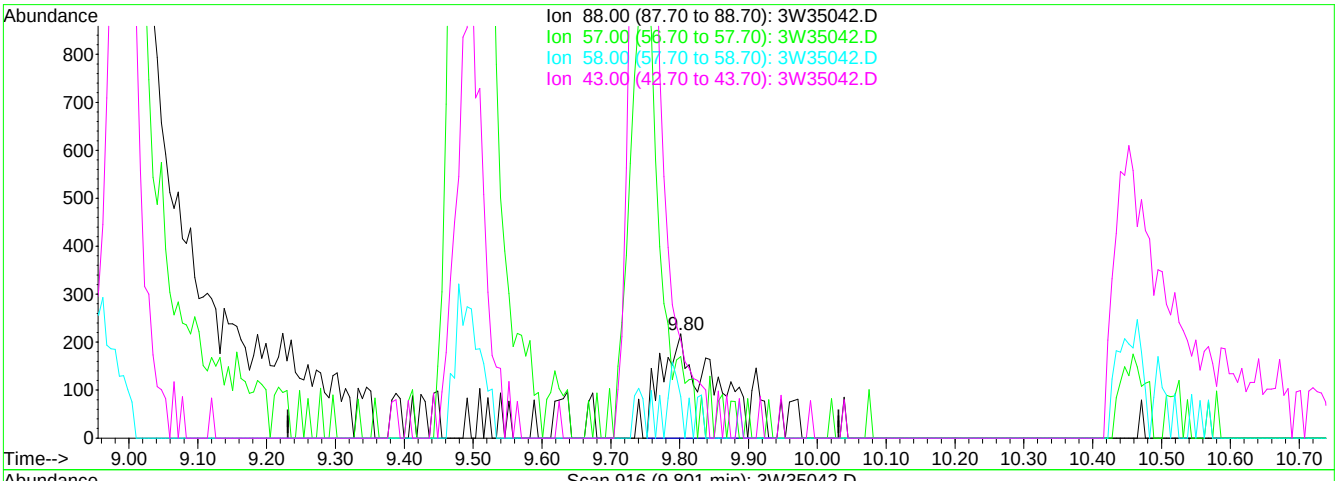
Ion	Exp%	Act%
58.00	100	100
43.00	171.50	258.00#
100.00	19.80	0.00
0.00	0.00	0.00

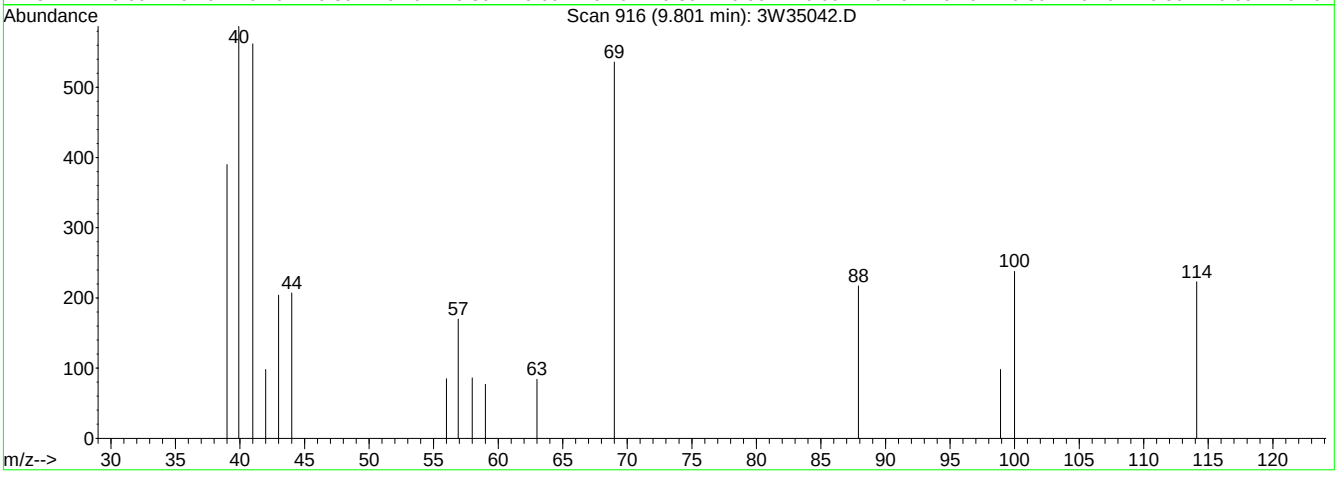
3W35042.D M3W1350.M Wed Jul 24 08:43:03 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35042.D

(59) 1,4-DIOXANE

9.80min 0.17PPBV m

response 1244

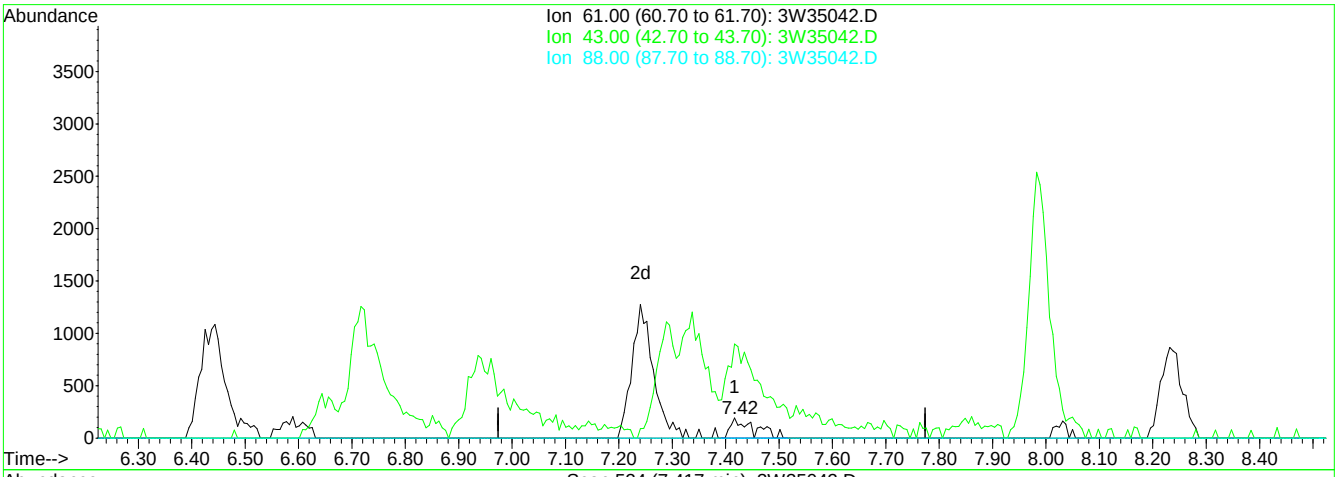
Ion	Exp%	Act%
88.00	100	100
57.00	24.60	78.34#
58.00	62.80	39.63#
43.00	26.40	94.01#

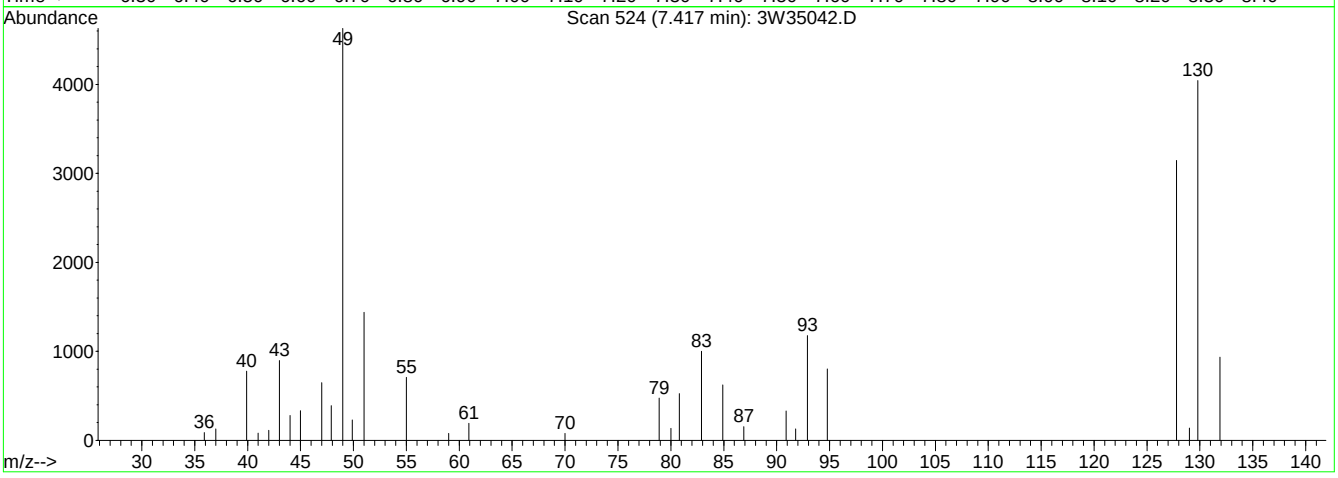
3W35042.D M3W1350.M Thu Jul 25 10:35:46 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35042.D Vial: 2
Acq On : 23 Jul 2013 12:23 pm Operator: YOUMINH
Sample : IC1350-0.2 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:24 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Single Level Calibration





TIC: 3W35042.D

(42) ETHYL ACETATE

7.42min 0.13PPBV m

response 585

Ion	Exp%	Act%
61.00	100	100
43.00	592.50	991.45#
88.00	24.70	0.00#
0.00	0.00	0.00

3W35042.D M3W1350.M Thu Jul 25 10:37:16 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35043.D Vial: 1
Acq On : 23 Jul 2013 1:03 pm Operator: YOUMINH
Sample : IC1350-30 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:49:04 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.38	128	109141	10.00	PPBV	0.02
49) 1,4-DIFLUOROBENZENE	8.97	114	508144	10.00	PPBV	0.01
68) CHLOROBENZENE-D5	13.12	82	275918	10.00	PPBV	0.02
105) CHLOROBENZENE-D5 (a)	13.12	82	275918	10.00	PPBV	0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.75	95	315806	9.82	PPBV	0.02

Spiked Amount 10.000 Range 65 - 128 Recovery = 98.20%

Target Compounds						Qvalue
3) FREON 152A	4.32	65	293341	29.51	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	108615	28.82	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.41	85	1092395	27.07	PPBV	99
6) PROPYLENE	4.36	41	338920	26.13	PPBV	99
7) FREON 114	4.55	85	1192459	28.10	PPBV	97
8) CHLOROMETHANE	4.50	50	521876	27.96	PPBV	99
9) VINYL CHLORIDE	4.62	62	522526	28.99	PPBV	99
10) 1,3-BUTADIENE	4.69	54	380125	29.50	PPBV	96
11) n-BUTANE	4.72	43	685117	26.77	PPBV	99
12) BROMOMETHANE	4.86	94	491812	29.58	PPBV	100
13) CHLOROETHANE	4.95	64	271964	29.29	PPBV	99
14) DICHLOROFLUOROMETHANE	5.00	67	1013498	28.80	PPBV	99
15) ACETONITRILE	5.18	41	318654	33.20	PPBV	98
16) FREON 123	5.21	83	1103830	28.66	PPBV	98
17) FREON 123A	5.25	117	675485	29.88	PPBV	94
18) TRICHLOROFLUOROMETHANE	5.38	101	1105977	28.70	PPBV	99
19) ISOPROPYL ALCOHOL	5.48	45	776568	33.44	PPBV	100
20) ACETONE	5.29	58	214350	34.52	PPBV	98
21) PENTANE	5.56	42	445995	27.77	PPBV	99
23) IODOMETHANE	5.73	142	1320118	29.98	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	478188	30.60	PPBV	96
25) CARBON DISULFIDE	6.05	76	1273045	28.07	PPBV	100
26) ETHANOL	5.06	45	199032	36.67	PPBV	98
27) BROMOETHENE	5.15	106	518591	30.28	PPBV	100
28) ACRYLONITRILE	5.59	52	282317	38.95	PPBV	97
29) METHYLENE CHLORIDE	5.86	84	413308	27.56	PPBV	87
30) 3-CHLOROPROPENE	5.91	76	215678	31.11	PPBV	96
31) FREON 113	5.99	151	816510	30.09	PPBV	97
32) TRANS-1,2-DICHLOROETHYLENE	6.45	96	491664	32.74	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.83	59	972684	32.99	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	6.61	73	1270225	33.12	PPBV	99
35) TETRAHYDROFURAN	7.77	72	239777	37.75	PPBV	96
36) HEXANE	7.29	57	708429	29.23	PPBV	97
37) VINYL ACETATE	6.71	86	113817	40.17	PPBV #	92
38) 1,1-DICHLOROETHANE	6.61	63	860108	29.19	PPBV	99
39) METHYL ETHYL KETONE	6.89	72	244005	40.73	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.26	96	530655	31.57	PPBV	99
41) DIISOPROPYL ETHER	7.32	45	1571295	32.06	PPBV	99
42) ETHYL ACETATE	7.39	61	165308	36.63	PPBV #	93
43) METHYL ACRYLATE	7.40	55	790041	38.32	PPBV	97
44) CHLOROFORM	7.47	83	969709	31.04	PPBV	100
45) 2,4-DIMETHYLPENTANE	8.00	57	901940	29.60	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	959033	30.29	PPBV	99
47) CARBON TETRACHLORIDE	8.78	117	980096	30.29	PPBV	99
48) 1,2-DICHLOROETHANE	8.05	62	569365	33.51	PPBV	100
50) BENZENE	8.66	78	1525296	30.13	PPBV	99
51) CYCLOHEXANE	8.82	84	796146	28.99	PPBV	98
52) 2,3-DIMETHYLPENTANE	9.00	71	342241	28.80	PPBV	92

(#) = qualifier out of range (m) = manual integration
3W35043.D M3W1350.M Thu Jul 25 10:25:16 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35043.D Vial: 1
Acq On : 23 Jul 2013 1:03 pm Operator: YOUMINH
Sample : IC1350-30 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 13:49:04 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 12:24:44 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

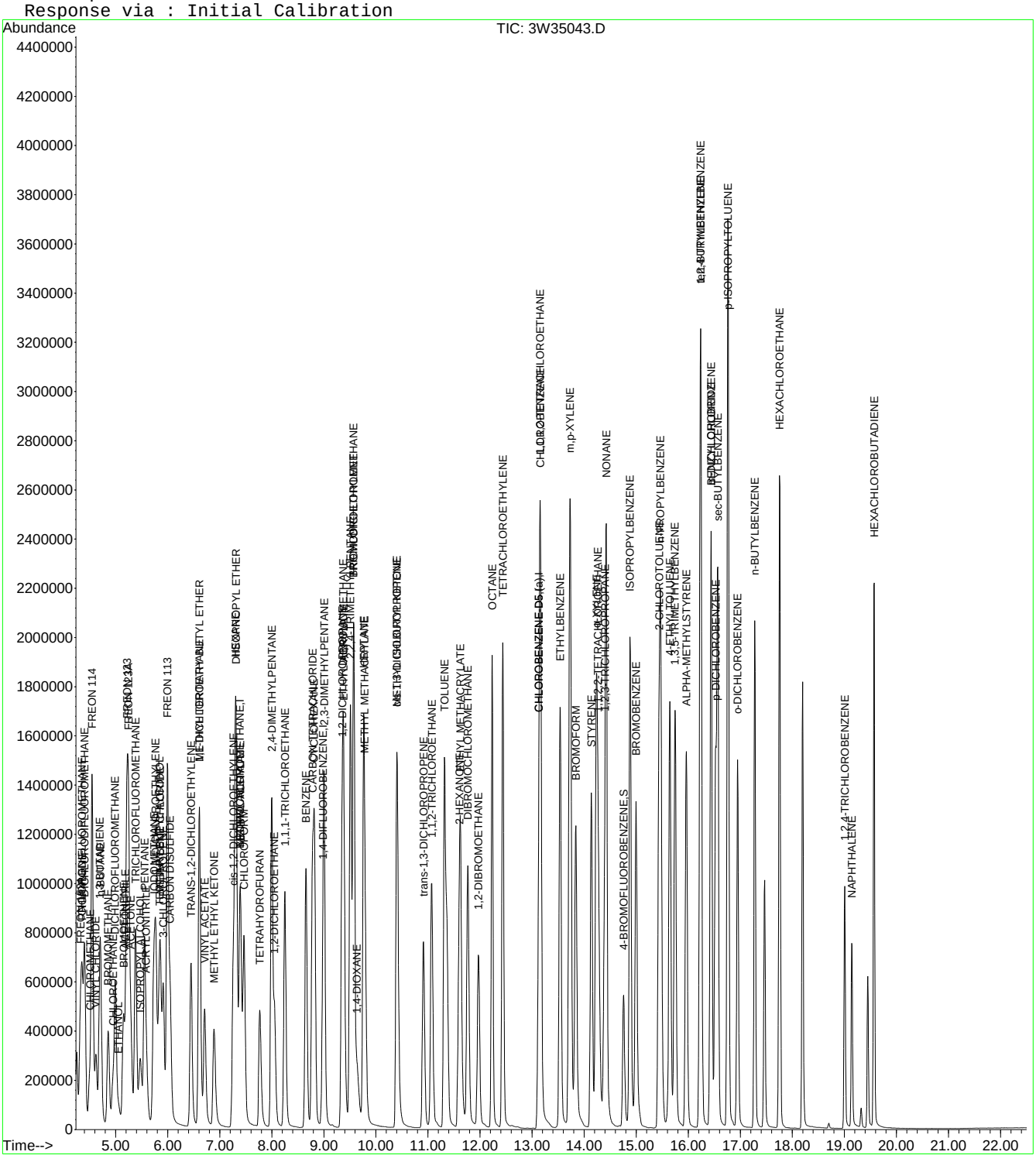
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.58	95	624683	30.45	PPBV		98
54)	1,2-DICHLOROPROPANE	9.35	63	565137	32.02	PPBV		99
55)	DIBROMOMETHANE	9.38	174	649085	32.68	PPBV		99
56)	ETHYL ACRYLATE	9.39	55	1011364	36.83	PPBV		99
57)	BROMODICHLOROMETHANE	9.56	83	1031438	30.11	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.51	57	2241946	27.16	PPBV		99
59)	1,4-DIOXANE	9.64	88	359056	44.98	PPBV		99
60)	HEPTANE	9.76	43	844942	28.63	PPBV		98
62)	METHYL METHACRYLATE	9.79	69	534110	37.58	PPBV		92
63)	METHYL ISOBUTYL KETONE	10.41	58	433232	42.14	PPBV		98
64)	cis-1,3-DICHLOROPROPENE	10.40	75	813966	33.28	PPBV		99
65)	TOLUENE	11.32	92	1073280	32.67	PPBV		97
66)	trans-1,3-DICHLOROPROPENE	10.91	75	794838	36.50	PPBV		100
67)	1,1,2-TRICHLOROETHANE	11.07	83	532274	33.12	PPBV		98
69)	2-HEXANONE	11.60	58	591472	42.95	PPBV		97
70)	ETHYL METHACRYLATE	11.63	69	886255	38.76	PPBV		97
71)	TETRACHLOROETHYLENE	12.44	164	731044	27.83	PPBV		99
72)	DIBROMOCHLOROMETHANE	11.77	129	1080995	29.03	PPBV		99
73)	1,2-DIBROMOETHANE	11.97	107	910976	31.46	PPBV		100
74)	OCTANE	12.23	43	1126249	26.68	PPBV		97
75)	1,1,1,2-TETRACHLOROETHANE	13.15	131	775206	29.26	PPBV		100
76)	CHLOROBENZENE	13.17	112	1296160	29.28	PPBV		99
77)	ETHYLBENZENE	13.54	91	2122861	29.82	PPBV		98
78)	m,p-XYLENE	13.73	106	1670207	61.25	PPBV		94
79)	o-XYLENE	14.24	106	828797	30.83	PPBV		96
80)	STYRENE	14.14	104	1309287	34.94	PPBV		99
81)	NONANE	14.42	43	1097732	27.18	PPBV		97
82)	BROMOFORM	13.84	173	1085905	31.30	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.27	83	1177908	30.56	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.39	75	852945	31.13	PPBV		98
86)	ISOPROPYLBENZENE	14.88	105	2313471	30.09	PPBV		98
87)	BROMOBENZENE	15.00	77	1006159	30.90	PPBV		98
88)	2-CHLOROTOLUENE	15.43	126	575967	32.20	PPBV		100
89)	n-PROPYLBENZENE	15.47	120	614578	32.71	PPBV		99
90)	4-ETHYLTOLUENE	15.65	105	2065561	33.69	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.75	105	1742649	31.11	PPBV		97
92)	ALPHA-METHYLSTYRENE	15.96	118	872458	36.81	PPBV		99
93)	tert-BUTYLBENZENE	16.23	134	419219	32.73	PPBV	#	92
94)	1,2,4-TRIMETHYLBENZENE	16.24	105	1587032	31.62	PPBV		98
95)	m-DICHLOROBENZENE	16.43	146	1057298	35.28	PPBV		99
96)	BENZYL CHLORIDE	16.44	91	1254164	39.28	PPBV		99
97)	p-DICHLOROBENZENE	16.52	146	1037242	34.06	PPBV		99
98)	sec-BUTYLBENZENE	16.57	134	500331	34.31	PPBV	#	88
99)	p-ISOPROPYLTOLUENE	16.76	134	528014	35.57	PPBV	#	87
100)	o-DICHLOROBENZENE	16.95	146	970655	33.20	PPBV		99
101)	n-BUTYLBENZENE	17.28	134	437272	38.87	PPBV		91
102)	HEXACHLOROETHANE	17.75	117	708608	30.57	PPBV		98
103)	HEXACHLOROBUTADIENE	19.57	225	536528	35.17	PPBV		100
104)	1,2,4-TRICHLOROBENZENE	19.01	180	419995	47.39	PPBV		99
106)	NAPHTHALENE	19.15	128	768644	51.34	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35043.D M3W1350.M Thu Jul 25 10:25:16 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35043.D Vial: 1
Acq On : 23 Jul 2013 1:03 pm Operator: YOUMINH
Sample : IC1350-30 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:25 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50673

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35044.D Vial: 1
Acq On : 23 Jul 2013 1:43 pm Operator: YOUMINH
Sample : IC1350-20 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:07:15 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:06:57 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	114945	10.00	PPBV	0.01
49) 1,4-DIFLUOROBENZENE	8.97	114	542685	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.11	82	276531	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.11	82	276256	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.75	95	319699	10.09	PPBV	0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.90%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	208628	20.05	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	75473	19.49	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.41	85	774897	18.41	PPBV	98
6) PROPYLENE	4.36	41	251432	18.59	PPBV	100
7) FREON 114	4.55	85	828113	18.59	PPBV	98
8) CHLOROMETHANE	4.50	50	361042	18.31	PPBV	98
9) VINYL CHLORIDE	4.62	62	356697	18.92	PPBV	98
10) 1,3-BUTADIENE	4.69	54	265881	19.74	PPBV	98
11) n-BUTANE	4.72	43	510284	18.94	PPBV	100
12) BROMOMETHANE	4.86	94	338154	19.41	PPBV	100
13) CHLOROETHANE	4.94	64	193318	20.19	PPBV	97
14) DICHLOROFLUOROMETHANE	4.99	67	729323	19.90	PPBV	100
15) ACETONITRILE	5.18	41	233599	24.17	PPBV	99
16) FREON 123	5.21	83	796841	19.92	PPBV	99
17) FREON 123A	5.24	117	476376	20.06	PPBV	94
18) TRICHLOROFLUOROMETHANE	5.38	101	777206	19.23	PPBV	99
19) ISOPROPYL ALCOHOL	5.46	45	562213	23.11	PPBV	100
20) ACETONE	5.29	58	151778	23.65	PPBV	99
21) PENTANE	5.56	42	328384	19.38	PPBV	99
23) IODOMETHANE	5.73	142	914038	19.83	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	329223	20.36	PPBV	100
25) CARBON DISULFIDE	6.04	76	886307	18.77	PPBV	99
26) ETHANOL	5.04	45	144818	25.15	PPBV	99
27) BROMOETHENE	5.15	106	351989	19.73	PPBV	100
28) ACRYLONITRILE	5.59	52	205841	27.88	PPBV	98
29) METHYLENE CHLORIDE	5.86	84	284424	16.77	PPBV	93
30) 3-CHLOROPROPENE	5.91	76	151784	21.43	PPBV	96
31) FREON 113	5.99	151	561380	19.79	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	333139	21.44	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.82	59	678965	22.16	PPBV	95
34) METHYL TERTIARY BUTYL ETHE	6.61	73	902886	22.48	PPBV	100
35) TETRAHYDROFURAN	7.77	72	164022	25.47	PPBV	98
36) HEXANE	7.30	57	491326	19.76	PPBV	97
37) VINYL ACETATE	6.71	86	75508	27.23	PPBV	99
38) 1,1-DICHLOROETHANE	6.60	63	603114	19.77	PPBV	98
39) METHYL ETHYL KETONE	6.89	72	169303	27.02	PPBV	100
40) cis-1,2-DICHLOROETHYLENE	7.26	96	361615	20.87	PPBV	98
41) DIISOPROPYL ETHER	7.31	45	1165918	22.93	PPBV	93
42) ETHYL ACETATE	7.39	61	115742	25.06	PPBV	97
43) METHYL ACRYLATE	7.40	55	566850	26.60	PPBV	98
44) CHLOROFORM	7.46	83	670213	20.52	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.99	57	662635	20.97	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	672396	20.31	PPBV	100
47) CARBON TETRACHLORIDE	8.78	117	680716	19.98	PPBV	100
48) 1,2-DICHLOROETHANE	8.05	62	390492	22.00	PPBV	99
50) BENZENE	8.65	78	1061840	19.60	PPBV	100
51) CYCLOHEXANE	8.82	84	557005	19.02	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.00	71	246852	18.64	PPBV	92

(#) = qualifier out of range (m) = manual integration
3W35044.D M3W1350.M Thu Jul 25 10:25:51 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35044.D Vial: 1
Acq On : 23 Jul 2013 1:43 pm Operator: YOUMINH
Sample : IC1350-20 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:07:15 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:06:57 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

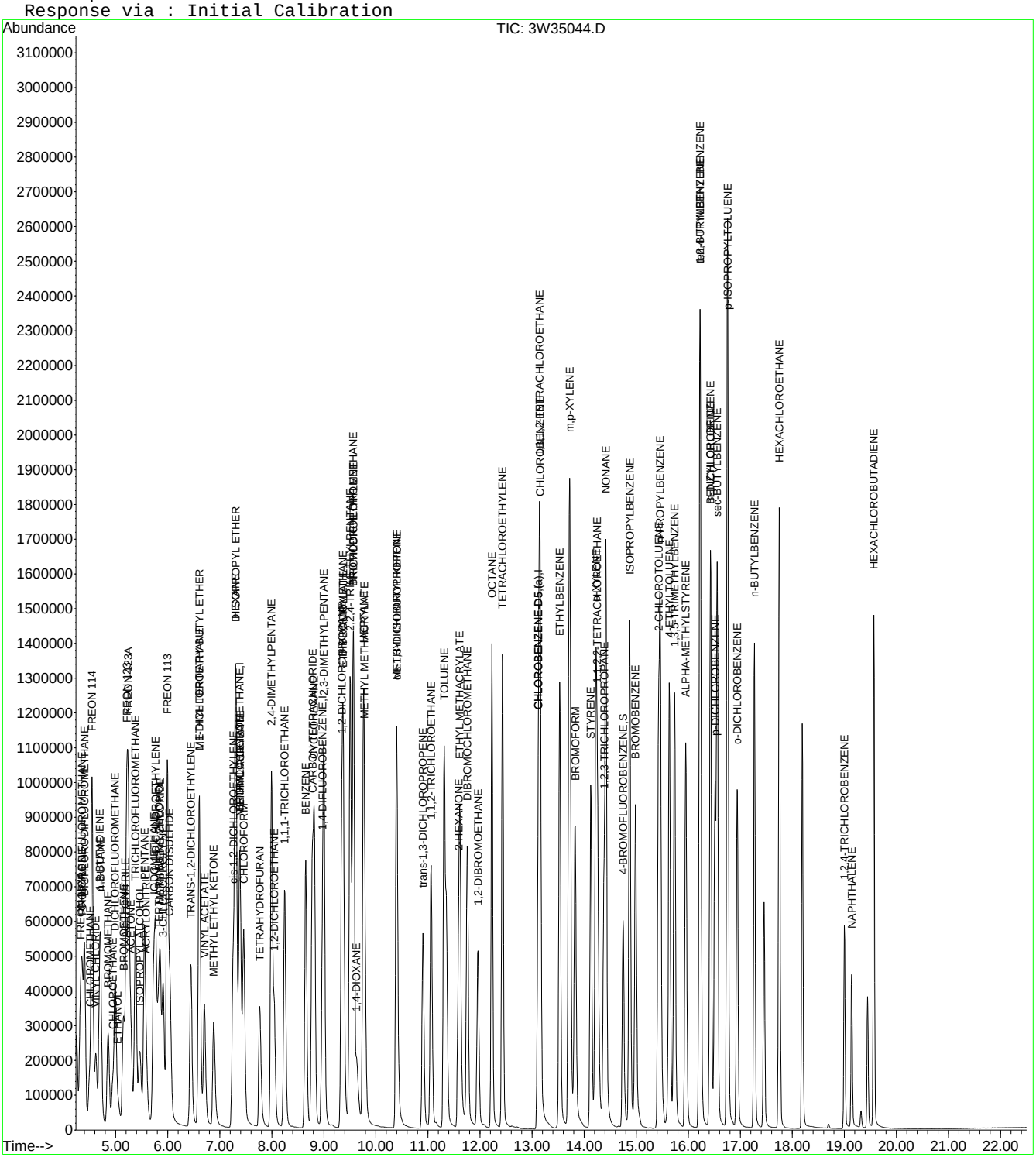
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.57	95	414539	18.83	PPBV	98
54)	1,2-DICHLOROPROPANE	9.34	63	400032	19.76	PPBV	99
55)	DIBROMOMETHANE	9.36	174	432287	20.19	PPBV	99
56)	ETHYL ACRYLATE	9.38	55	718143	24.27	PPBV	99
57)	BROMODICHLOROMETHANE	9.56	83	711647	19.63	PPBV	98
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	1664598	19.27	PPBV	100
59)	1,4-DIOXANE	9.63	88	244095	26.81	PPBV	97
60)	HEPTANE	9.76	43	610640	19.63	PPBV	100
62)	METHYL METHACRYLATE	9.78	69	373287	24.55	PPBV	94
63)	METHYL ISOBUTYL KETONE	10.40	58	294730	27.60	PPBV	99
64)	cis-1,3-DICHLOROPROPENE	10.40	75	550348	21.18	PPBV	99
65)	TOLUENE	11.31	92	728152	20.94	PPBV	98
66)	trans-1,3-DICHLOROPROPENE	10.90	75	516174	22.29	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.06	83	362597	21.22	PPBV	99
69)	2-HEXANONE	11.58	58	399494	29.56	PPBV	99
70)	ETHYL METHACRYLATE	11.61	69	608999	26.92	PPBV	99
71)	TETRACHLOROETHYLENE	12.43	164	487978	18.82	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.75	129	721653	19.69	PPBV	99
73)	1,2-DIBROMOETHANE	11.96	107	584376	20.41	PPBV	99
74)	OCTANE	12.23	43	810858	19.88	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.14	131	530167	20.10	PPBV	100
76)	CHLOROBENZENE	13.16	112	851138	19.53	PPBV	100
77)	ETHYLBENZENE	13.53	91	1456572	20.91	PPBV	99
78)	m,p-XYLENE	13.72	106	1103021	41.08	PPBV	98
79)	o-XYLENE	14.22	106	548100	20.91	PPBV	98
80)	STYRENE	14.13	104	801324	21.72	PPBV	94
81)	NONANE	14.42	43	785193	20.53	PPBV	99
82)	BROMOFORM	13.83	173	700619	20.47	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.25	83	771866	20.11	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.38	75	581278	21.51	PPBV	99
86)	ISOPROPYLBENZENE	14.88	105	1559181	20.61	PPBV	99
87)	BROMOBENZENE	14.98	77	676135	21.23	PPBV	99
88)	2-CHLOROTOLUENE	15.43	126	378018	21.43	PPBV	100
89)	n-PROPYLBENZENE	15.47	120	407044	22.44	PPBV	99
90)	4-ETHYLTOLUENE	15.64	105	1369970	22.79	PPBV	99
91)	1,3,5-TRIMETHYLBENZENE	15.74	105	1149274	20.66	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.95	118	562088	24.43	PPBV	100
93)	tert-BUTYLBENZENE	16.22	134	277263	21.83	PPBV	96
94)	1,2,4-TRIMETHYLBENZENE	16.23	105	1064737	21.80	PPBV	99
95)	m-DICHLOROBENZENE	16.43	146	684634	22.80	PPBV	100
96)	BENZYL CHLORIDE	16.43	91	813294	24.58	PPBV	100
97)	p-DICHLOROBENZENE	16.51	146	641789	21.05	PPBV	99
98)	sec-BUTYLBENZENE	16.55	134	324099	22.24	PPBV	95
99)	p-ISOPROPYLTOLUENE	16.76	134	339700	23.25	PPBV	95
100)	o-DICHLOROBENZENE	16.94	146	624974	21.38	PPBV	99
101)	n-BUTYLBENZENE	17.27	134	279348	25.00	PPBV	97
102)	HEXACHLOROETHANE	17.75	117	469370	20.14	PPBV	100
103)	HEXACHLOROBUTADIENE	19.57	225	346316	22.83	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.00	180	250486	26.09	PPBV	99
106)	NAPHTHALENE	19.14	128	443396	27.27	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35044.D M3W1350.M Thu Jul 25 10:25:51 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35044.D
Vial: 1
Acq On : 23 Jul 2013 1:43 pm
Operator: YOUMINH
Sample : IC1350-20
Inst : MS3W
Misc : MS51919,V3W1350,,,,,1
Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:25 2013
Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35045.D Vial: 1
Acq On : 23 Jul 2013 2:22 pm Operator: YOUMINH
Sample : IC1350-15 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:48:27 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:08:01 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	116094	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.97	114	544592	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.11	82	277708	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.11	82	277708	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.74	95	326862	10.26	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.60%			
Target Compounds						Qvalue
3) FREON 152A	4.32	65	163983	15.60	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	58178	14.94	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.41	85	608750	14.51	PPBV	98
6) PROPYLENE	4.36	41	201189	14.90	PPBV	100
7) FREON 114	4.55	85	640120	14.40	PPBV	99
8) CHLOROMETHANE	4.50	50	282036	14.37	PPBV	99
9) VINYL CHLORIDE	4.62	62	279912	14.84	PPBV	99
10) 1,3-BUTADIENE	4.69	54	204189	15.04	PPBV	99
11) n-BUTANE	4.72	43	401725	14.89	PPBV	100
12) BROMOMETHANE	4.86	94	259700	14.83	PPBV	100
13) CHLOROETHANE	4.94	64	147567	15.23	PPBV	97
14) DICHLOROFLUOROMETHANE	5.00	67	566935	15.33	PPBV	100
15) ACETONITRILE	5.17	41	178912	17.71	PPBV	98
16) FREON 123	5.21	83	616802	15.28	PPBV	99
17) FREON 123A	5.24	117	358681	14.95	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.38	101	597709	14.74	PPBV	100
19) ISOPROPYL ALCOHOL	5.46	45	421179	16.71	PPBV	100
20) ACETONE	5.29	58	114438	17.14	PPBV	97
21) PENTANE	5.56	42	255643	15.02	PPBV	99
23) IODOMETHANE	5.73	142	700241	15.06	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	250868	15.31	PPBV	98
25) CARBON DISULFIDE	6.04	76	688877	14.60	PPBV	99
26) ETHANOL	5.05	45	110332	18.19	PPBV	99
27) BROMOETHENE	5.15	106	268259	14.92	PPBV	99
28) ACRYLONITRILE	5.59	52	154059	19.39	PPBV	96
29) METHYLENE CHLORIDE	5.85	84	218894	13.13	PPBV	94
30) 3-CHLOROPROPENE	5.91	76	116774	16.13	PPBV	95
31) FREON 113	5.99	151	427186	14.94	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	251249	15.82	PPBV	95
33) TERTIARY BUTYL ALCOHOL	5.82	59	518055	16.45	PPBV	95
34) METHYL TERTIARY BUTYL ETHE	6.61	73	690937	16.69	PPBV	100
35) TETRAHYDROFURAN	7.77	72	123560	18.17	PPBV	97
36) HEXANE	7.30	57	382116	15.25	PPBV	98
37) VINYL ACETATE	6.71	86	55800	18.79	PPBV	97
38) 1,1-DICHLOROETHANE	6.60	63	472017	15.35	PPBV	99
39) METHYL ETHYL KETONE	6.88	72	126797	18.93	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	7.25	96	271312	15.39	PPBV	96
41) DIISOPROPYL ETHER	7.31	45	899927	17.10	PPBV	93
42) ETHYL ACETATE	7.38	61	86444	17.78	PPBV	96
43) METHYL ACRYLATE	7.39	55	423694	18.66	PPBV	96
44) CHLOROFORM	7.46	83	513148	15.49	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.99	57	518759	16.12	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.24	97	519043	15.48	PPBV	99
47) CARBON TETRACHLORIDE	8.77	117	520994	15.15	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	295495	16.21	PPBV	99
50) BENZENE	8.65	78	809708	14.94	PPBV	100
51) CYCLOHEXANE	8.82	84	425109	14.59	PPBV	98
52) 2,3-DIMETHYLPENTANE	9.00	71	186579	14.20	PPBV	98

(#) = qualifier out of range (m) = manual integration
3W35045.D M3W1350.M Thu Jul 25 10:26:11 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35045.D Vial: 1
Acq On : 23 Jul 2013 2:22 pm Operator: YOUMINH
Sample : IC1350-15 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 14:48:27 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:08:01 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

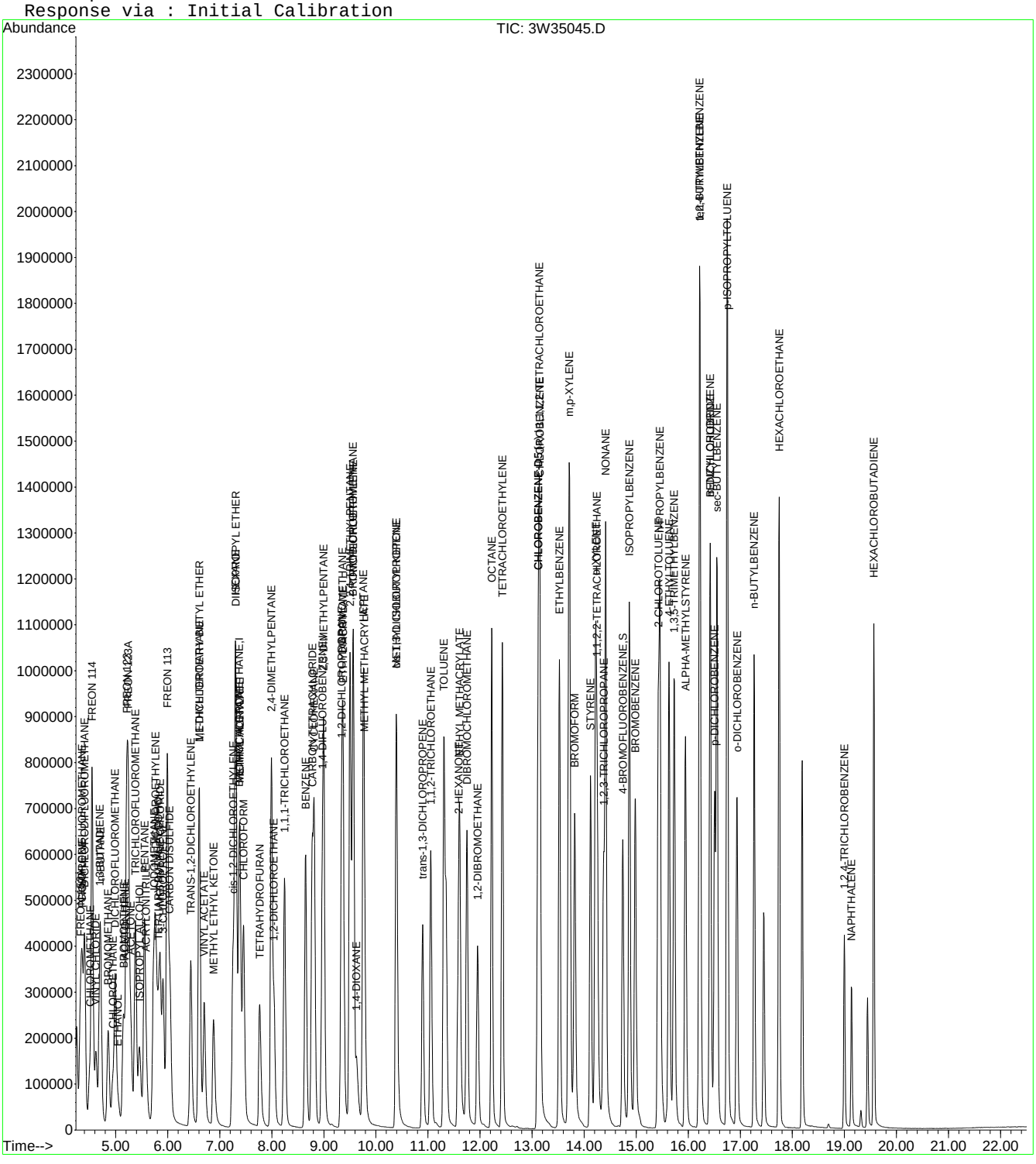
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.57	95	312399	14.28	PPBV	99
54)	1,2-DICHLOROPROPANE	9.33	63	303030	14.95	PPBV	100
55)	DIBROMOMETHANE	9.36	174	324247	15.07	PPBV	99
56)	ETHYL ACRYLATE	9.38	55	545090	17.73	PPBV	100
57)	BROMODICHLOROMETHANE	9.55	83	544677	15.02	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	1294609	15.03	PPBV	100
59)	1,4-DIOXANE	9.63	88	178084	18.45	PPBV	96
60)	HEPTANE	9.75	43	477304	15.34	PPBV	99
62)	METHYL METHACRYLATE	9.78	69	283963	17.93	PPBV	95
63)	METHYL ISOBUTYL KETONE	10.39	58	215952	18.95	PPBV	98
64)	cis-1,3-DICHLOROPROPENE	10.39	75	416496	15.81	PPBV	98
65)	TOLUENE	11.30	92	554638	15.77	PPBV	98
66)	trans-1,3-DICHLOROPROPENE	10.90	75	385810	16.29	PPBV	98
67)	1,1,2-TRICHLOROETHANE	11.05	83	275572	15.91	PPBV	99
69)	2-HEXANONE	11.58	58	292899	19.99	PPBV	99
70)	ETHYL METHACRYLATE	11.61	69	453560	18.87	PPBV	100
71)	TETRACHLOROETHYLENE	12.43	164	368408	14.29	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.75	129	548138	14.93	PPBV	99
73)	1,2-DIBROMOETHANE	11.95	107	437208	15.15	PPBV	100
74)	OCTANE	12.22	43	636534	15.56	PPBV	99
75)	1,1,1,2-TETRACHLOROETHANE	13.14	131	402187	15.17	PPBV	100
76)	CHLOROBENZENE	13.15	112	641229	14.71	PPBV	99
77)	ETHYLBENZENE	13.52	91	1109722	15.74	PPBV	99
78)	m,p-XYLENE	13.71	106	839710	31.00	PPBV	98
79)	o-XYLENE	14.22	106	415233	15.65	PPBV	99
80)	STYRENE	14.12	104	601654	16.01	PPBV	94
81)	NONANE	14.41	43	620005	16.07	PPBV	100
82)	BROMOFORM	13.82	173	527599	15.29	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.25	83	590480	15.31	PPBV	99
85)	1,2,3-TRICHLOROPROPANE	14.38	75	441004	16.05	PPBV	99
86)	ISOPROPYLBENZENE	14.87	105	1191516	15.61	PPBV	99
87)	BROMOBENZENE	14.98	77	508341	15.73	PPBV	99
88)	2-CHLOROTOLUENE	15.42	126	283842	15.83	PPBV	100
89)	n-PROPYLBENZENE	15.46	120	304493	16.38	PPBV	99
90)	4-ETHYLTOLUENE	15.63	105	1033569	16.73	PPBV	99
91)	1,3,5-TRIMETHYLBENZENE	15.73	105	869144	15.48	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.95	118	415288	17.33	PPBV	99
93)	tert-BUTYLBENZENE	16.21	134	207796	16.05	PPBV	98
94)	1,2,4-TRIMETHYLBENZENE	16.23	105	799843	16.07	PPBV	99
95)	m-DICHLOROBENZENE	16.42	146	504115	16.34	PPBV	100
96)	BENZYL CHLORIDE	16.43	91	595471	17.26	PPBV	100
97)	p-DICHLOROBENZENE	16.51	146	474008	15.34	PPBV	100
98)	sec-BUTYLBENZENE	16.55	134	241537	16.20	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.75	134	250946	16.65	PPBV	99
100)	o-DICHLOROBENZENE	16.94	146	461745	15.55	PPBV	100
101)	n-BUTYLBENZENE	17.27	134	202114	17.29	PPBV	98
102)	HEXACHLOROETHANE	17.75	117	350957	14.98	PPBV	100
103)	HEXACHLOROBUTADIENE	19.57	225	260643	16.72	PPBV	100
104)	1,2,4-TRICHLOROBENZENE	19.00	180	179360	17.71	PPBV	99
106)	NAPHTHALENE	19.14	128	313149	18.07	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35045.D M3W1350.M Thu Jul 25 10:26:11 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35045.D Vial: 1
Acq On : 23 Jul 2013 2:22 pm Operator: YOUMINH
Sample : IC1350-15 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



3W35047.D

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
07/25/13 11:35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:29:25 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:49:02 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	106171	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	466196	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.10	82	200492	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.10	82	200492	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.73	95	214510	9.29	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 92.90%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	5195	0.54	PPBV	100
4) CHLORODIFLUOROMETHANE	4.34	67	1963	0.55	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.40	85	20735	0.54	PPBV	96
6) PROPYLENE	4.36	41	6559	0.53	PPBV	96
7) FREON 114	4.55	85	22278	0.55	PPBV	99
8) CHLOROMETHANE	4.50	50	9159	0.51	PPBV	91
9) VINYL CHLORIDE	4.62	62	9337	0.54	PPBV	99
10) 1,3-BUTADIENE	4.69	54	6257	0.50	PPBV	96
11) n-BUTANE	4.72	43	13459	0.55	PPBV #	97
12) BROMOMETHANE	4.86	94	8608	0.54	PPBV	98
13) CHLOROETHANE	4.95	64	4591	0.52	PPBV	99
14) DICHLOROFLUOROMETHANE	4.98	67	17481	0.52	PPBV	99
15) ACETONITRILE	5.20	41	3849	0.41	PPBV #	67
16) FREON 123	5.21	83	19096	0.52	PPBV	97
17) FREON 123A	5.24	117	11287	0.51	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.37	101	19808	0.54	PPBV	98
19) ISOPROPYL ALCOHOL	5.51	45	10652	0.45	PPBV #	33
20) ACETONE	5.34	58	2952	0.47	PPBV #	89
21) PENTANE	5.55	42	8537	0.55	PPBV	98
23) IODOMETHANE	5.73	142	22063	0.52	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.77	96	7986	0.53	PPBV	99
25) CARBON DISULFIDE	6.04	76	22404	0.52	PPBV	89
26) ETHANOL	5.10	45	2612	0.46	PPBV	90
27) BROMOETHENE	5.15	106	8746	0.53	PPBV	96
28) ACRYLONITRILE	5.60	52	2876m	0.38	PPBV	
29) METHYLENE CHLORIDE	5.86	84	8969	0.60	PPBV	85
30) 3-CHLOROPROPENE	5.91	76	3243	0.48	PPBV #	62
31) FREON 113	5.99	151	13657	0.52	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	7077	0.48	PPBV	97
33) TERTIARY BUTYL ALCOHOL	5.88	59	13754m	0.47	PPBV	
34) METHYL TERTIARY BUTYL ETHE	6.64	73	16977	0.44	PPBV	96
35) TETRAHYDROFURAN	7.85	72	2328	0.36	PPBV	98
36) HEXANE	7.29	57	10955	0.48	PPBV	93
37) VINYL ACETATE	6.72	86	1139m	0.40	PPBV	
38) 1,1-DICHLOROETHANE	6.60	63	14459	0.51	PPBV	98
39) METHYL ETHYL KETONE	6.92	72	2276	0.36	PPBV	91
40) cis-1,2-DICHLOROETHYLENE	7.24	96	7528	0.47	PPBV	95
41) DIISOPROPYL ETHER	7.33	45	21530	0.44	PPBV	97
42) ETHYL ACETATE	7.42	61	1940	0.43	PPBV #	1
43) METHYL ACRYLATE	7.42	55	7662	0.36	PPBV #	80
44) CHLOROFORM	7.44	83	15356	0.50	PPBV #	83
45) 2,4-DIMETHYLPENTANE	7.99	57	14536	0.49	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.24	97	15512	0.50	PPBV	99
47) CARBON TETRACHLORIDE	8.76	117	16183	0.51	PPBV	99
48) 1,2-DICHLOROETHANE	8.03	62	8022	0.48	PPBV	96
50) BENZENE	8.64	78	23081	0.50	PPBV	99
51) CYCLOHEXANE	8.80	84	12966	0.52	PPBV	100
52) 2,3-DIMETHYLPENTANE	8.99	71	5725	0.51	PPBV #	49

(#) = qualifier out of range (m) = manual integration
3W35047.D M3W1350.M Thu Jul 25 10:26:39 2013 MS3W

7.2.7

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:29:25 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 14:49:02 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

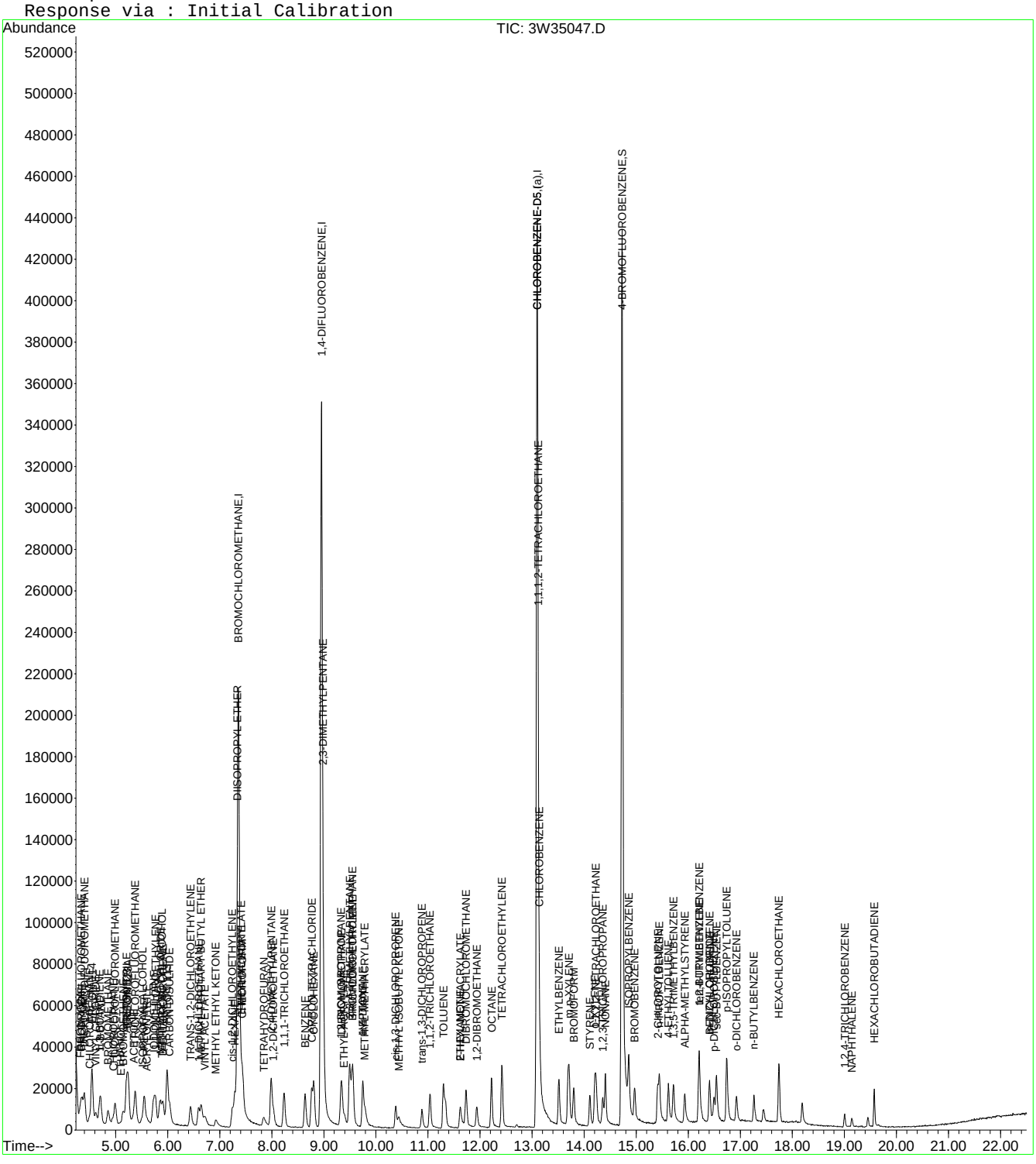
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.56	95	9594	0.52	PPBV		98
54)	1,2-DICHLOROPROPANE	9.32	63	8231	0.47	PPBV		97
55)	DIBROMOMETHANE	9.35	174	9237	0.50	PPBV		98
56)	ETHYL ACRYLATE	9.39	55	11692	0.43	PPBV	#	90
57)	BROMODICHLOROMETHANE	9.54	83	15786	0.51	PPBV		99
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	37245	0.50	PPBV		96
59)	1,4-DIOXANE	9.75	88	3769m	0.44	PPBV		
60)	HEPTANE	9.75	43	14195	0.53	PPBV		91
62)	METHYL METHACRYLATE	9.79	69	5676	0.41	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.44	58	3837m	0.38	PPBV		
64)	cis-1,3-DICHLOROPROPENE	10.38	75	9809	0.43	PPBV		99
65)	TOLUENE	11.29	92	13626	0.45	PPBV		98
66)	trans-1,3-DICHLOROPROPENE	10.88	75	7905	0.39	PPBV		96
67)	1,1,2-TRICHLOROETHANE	11.04	83	6862	0.46	PPBV		97
69)	2-HEXANONE	11.63	58	4725m	0.43	PPBV		
70)	ETHYL METHACRYLATE	11.62	69	7919	0.44	PPBV		97
71)	TETRACHLOROETHYLENE	12.42	164	10961	0.59	PPBV		96
72)	DIBROMOCHLOROMETHANE	11.73	129	14644	0.55	PPBV		99
73)	1,2-DIBROMOETHANE	11.94	107	10527	0.50	PPBV		100
74)	OCTANE	12.22	43	15489	0.52	PPBV		95
75)	1,1,1,2-TETRACHLOROETHANE	13.12	131	9931	0.52	PPBV		100
76)	CHLOROBENZENE	13.14	112	16235	0.52	PPBV		82
77)	ETHYLBENZENE	13.52	91	24852	0.48	PPBV		98
78)	m,p-XYLENE	13.71	106	17986	0.92	PPBV		99
79)	o-XYLENE	14.21	106	9329	0.48	PPBV		94
80)	STYRENE	14.11	104	10807	0.39	PPBV		91
81)	NONANE	14.41	43	11929	0.42	PPBV		100
82)	BROMOFORM	13.80	173	12578	0.50	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.23	83	13045	0.47	PPBV		99
85)	1,2,3-TRICHLOROPROPANE	14.36	75	9444	0.47	PPBV		98
86)	ISOPROPYLBENZENE	14.86	105	25440	0.46	PPBV		98
87)	BROMOBENZENE	14.97	77	11916	0.51	PPBV		91
88)	2-CHLOROTOLUENE	15.42	126	6306	0.48	PPBV		97
89)	n-PROPYLBENZENE	15.45	120	6080	0.45	PPBV		94
90)	4-ETHYLTOLUENE	15.62	105	17808	0.39	PPBV		96
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	17452	0.43	PPBV		98
92)	ALPHA-METHYLSTYRENE	15.93	118	6591	0.37	PPBV		94
93)	tert-BUTYLBENZENE	16.21	134	4274	0.45	PPBV		95
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	14951	0.41	PPBV		90
95)	m-DICHLOROBENZENE	16.41	146	8634	0.38	PPBV		97
96)	BENZYL CHLORIDE	16.41	91	9064	0.36	PPBV		97
97)	p-DICHLOROBENZENE	16.50	146	8278	0.37	PPBV		93
98)	sec-BUTYLBENZENE	16.54	134	4463	0.41	PPBV		99
99)	p-ISOPROPYLTOLUENE	16.74	134	4586	0.41	PPBV		96
100)	o-DICHLOROBENZENE	16.93	146	9381	0.44	PPBV		95
101)	n-BUTYLBENZENE	17.27	134	3075	0.36	PPBV	#	89
102)	HEXACHLOROETHANE	17.74	117	8301	0.49	PPBV		93
103)	HEXACHLOROBUTADIENE	19.57	225	4548	0.40	PPBV		83
104)	1,2,4-TRICHLOROBENZENE	19.00	180	2916	0.39	PPBV		99
106)	NAPHTHALENE	19.15	128	5268	0.41	PPBV		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35047.D M3W1350.M Thu Jul 25 10:26:39 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Manual Integration Approval Summary

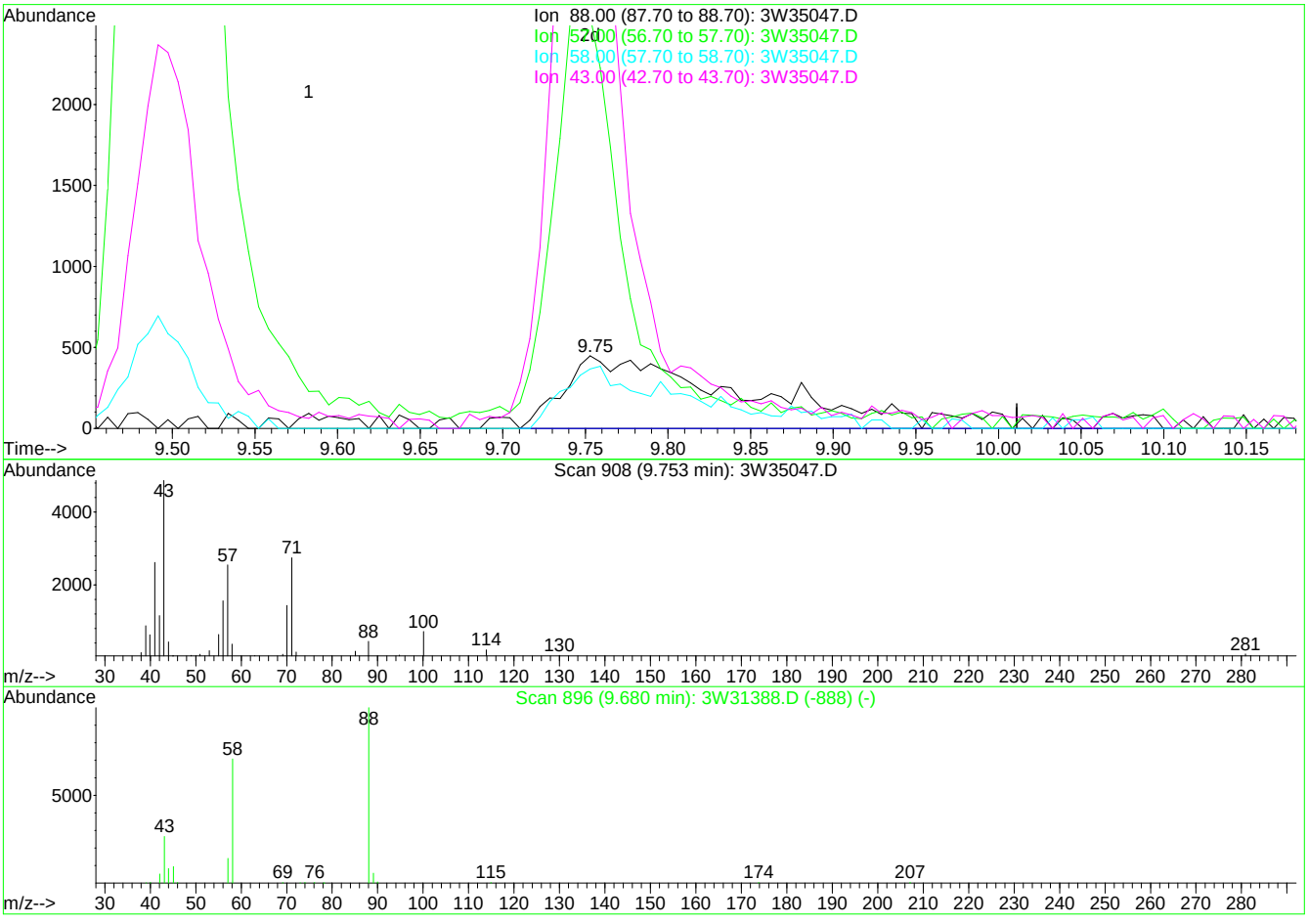
Sample Number:	V3W1350-IC1350	**Method:**	TO-15
Lab FileID:	3W35047.D	**Analyst approved:**	07/24/13 08:58 Dana Tryon
Injection Time:	07/23/13 17:03	**Supervisor approved:**	07/25/13 11:35 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrylonitrile	107-13-1		5.60	Missed peak
Tertiary Butyl Alcohol	75-65-0		5.88	Missed peak
Vinyl Acetate	108-05-4		6.72	Missed peak
1,4-Dioxane	123-91-1		9.75	Missed peak
Methyl Isobutyl Ketone	108-10-1		10.44	Missed peak
2-Hexanone	591-78-6		11.63	Missed peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:31 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Multiple Level Calibration



TIC: 3W35047.D

(59) 1,4-DIOXANE

9.75min 0.44PPBV m

response 3769

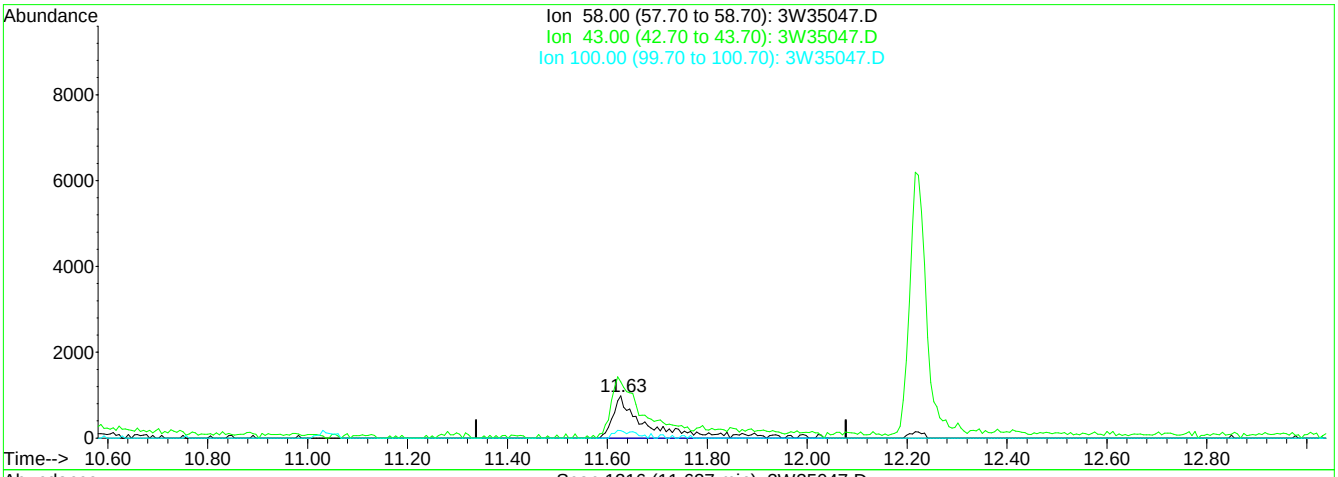
Ion	Exp%	Act%
88.00	100	100
57.00	24.60	570.47#
58.00	62.80	82.10
43.00	26.40	1090.38#

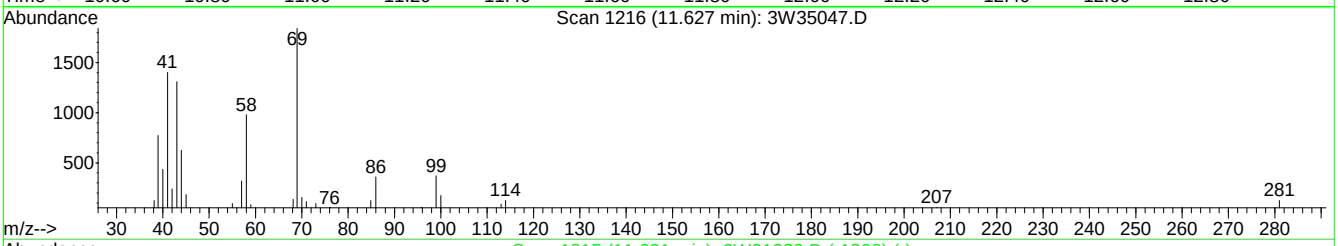
3W35047.D M3W1350.M Wed Jul 24 08:45:06 2013 MS3W

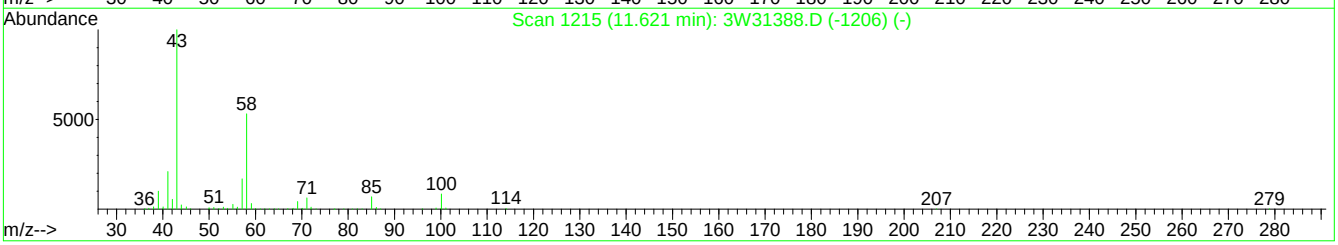
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 17:31 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:35:36 2013
Response via : Single Level Calibration







TIC: 3W35047.D

(69) 2-HEXANONE

11.63min 0.43PPBV m

response 4725

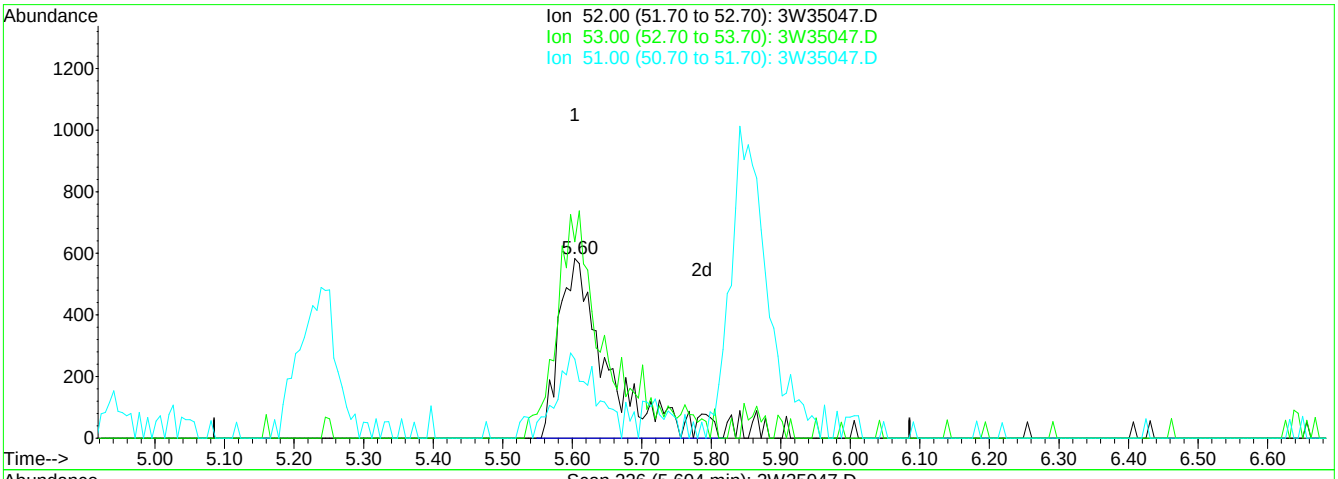
Ion	Exp%	Act%
58.00	100	100
43.00	171.50	135.94#
100.00	19.80	10.88
0.00	0.00	0.00

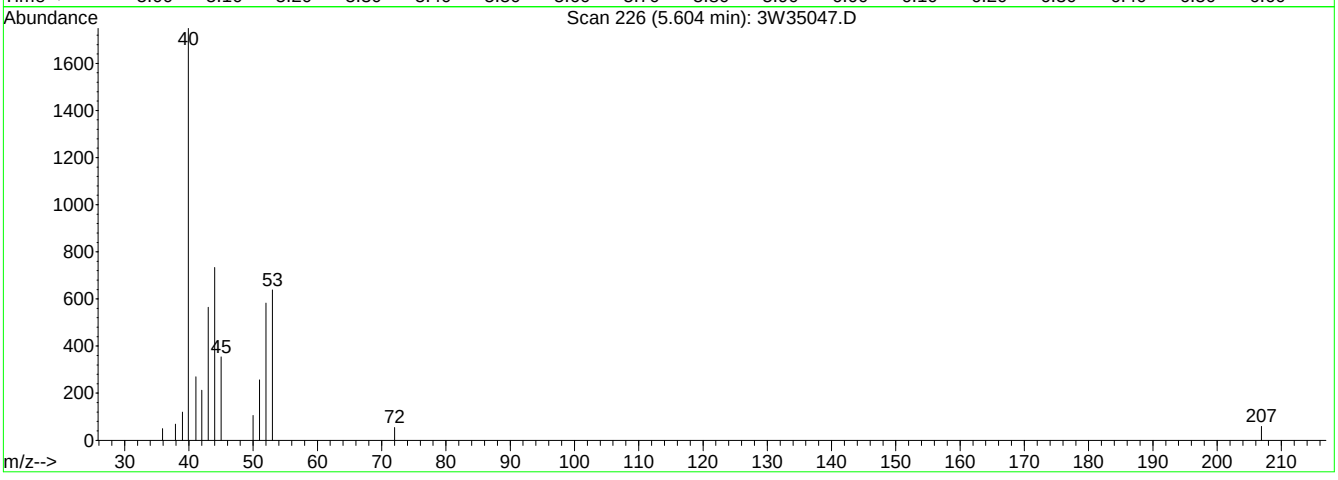
3W35047.D M3W1350.M Wed Jul 24 08:45:31 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35047.D

(28) ACRYLONITRILE

5.60min 0.38PPBV m

response 2876

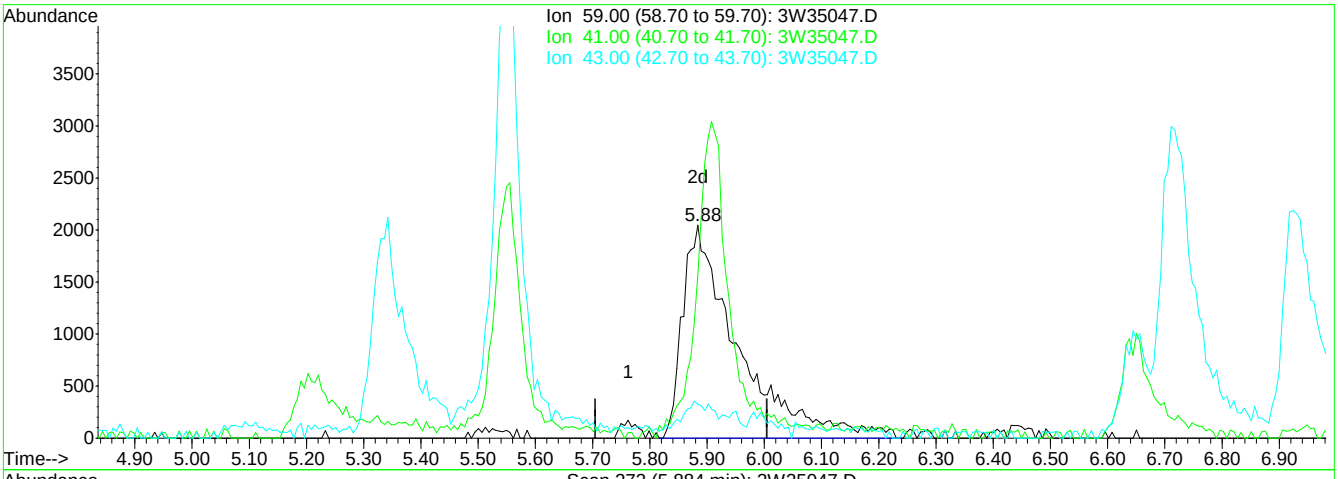
Ion	Exp%	Act%
52.00	100	100
53.00	117.70	126.04
51.00	44.30	36.30
0.00	0.00	0.00

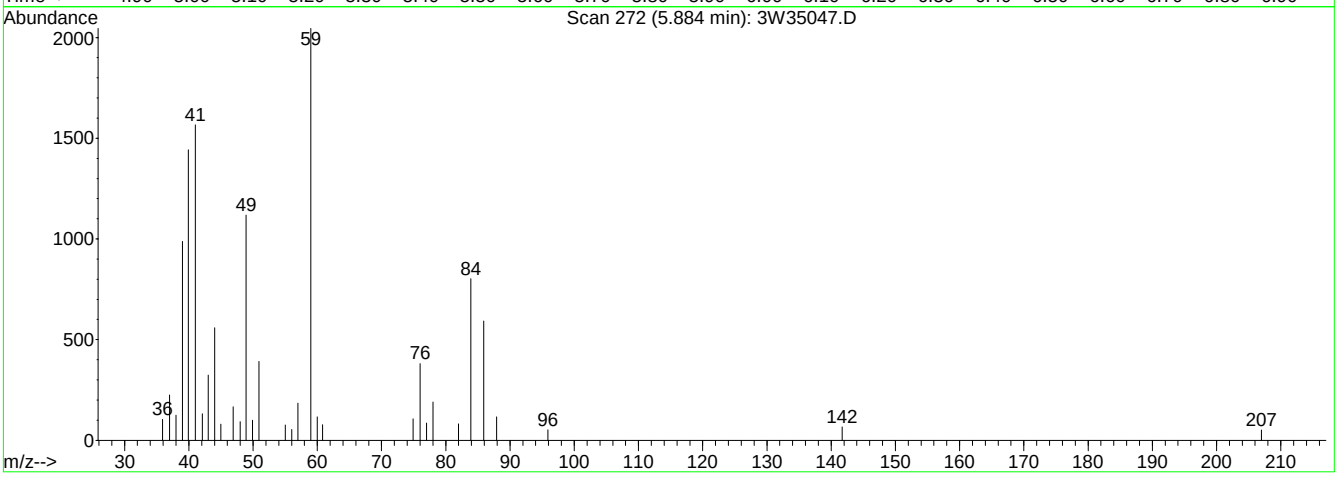
3W35047.D M3W1350.M Thu Jul 25 10:36:10 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35047.D

(33) TERTIARY BUTYL ALCOHOL

5.88min 0.47PPBV m

response 13754

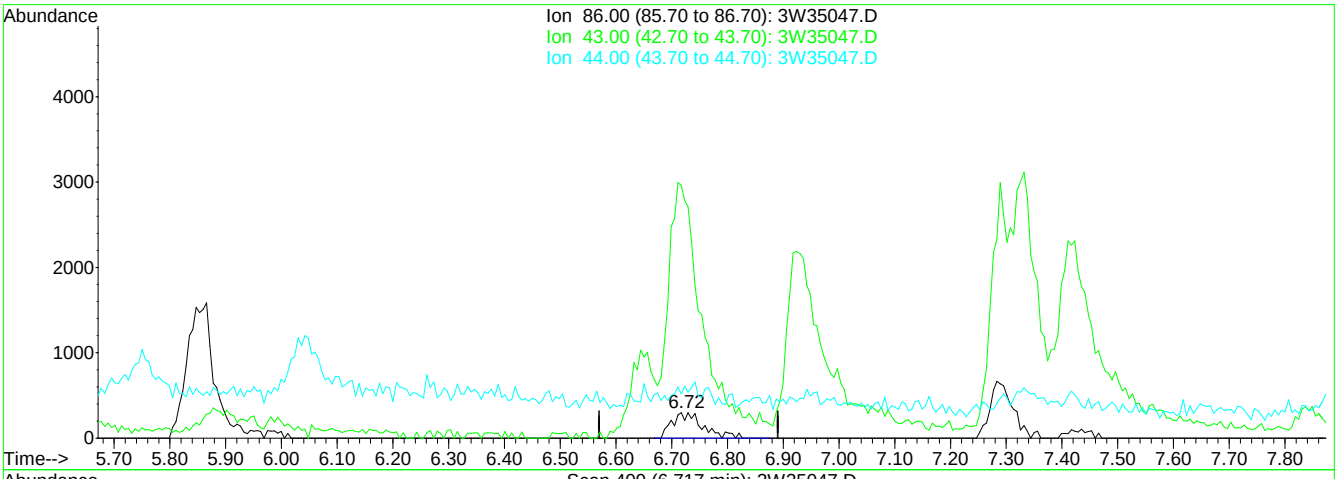
Ion	Exp%	Act%
59.00	100	100
41.00	16.20	0.00
43.00	15.40	0.00
0.00	0.00	0.00

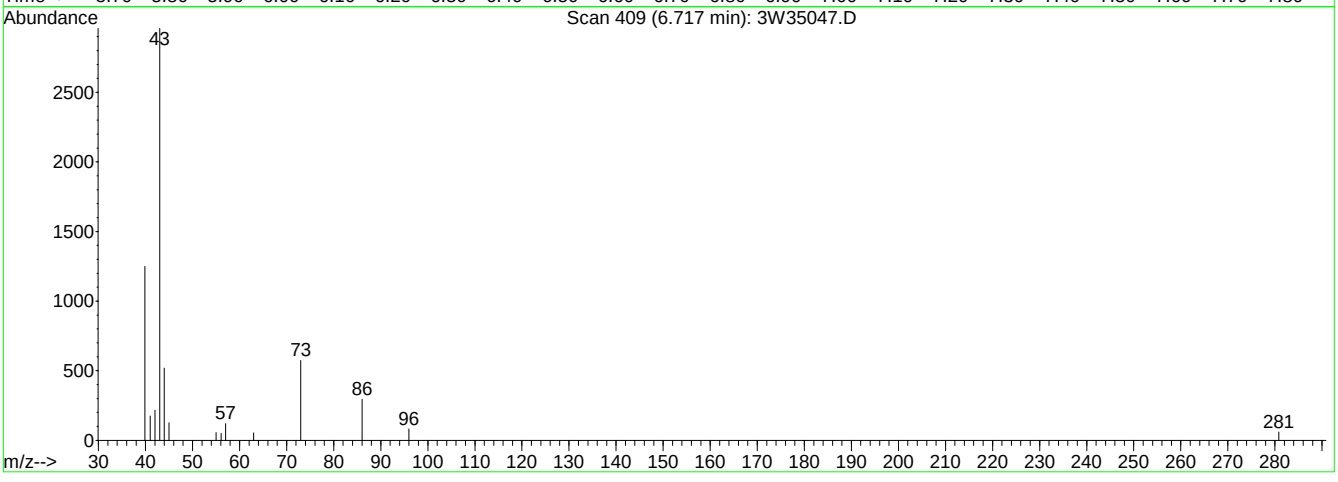
3W35047.D M3W1350.M Thu Jul 25 10:37:55 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Multiple Level Calibration





TIC: 3W35047.D

(37) VINYL ACETATE

6.72min 0.40PPBV m

response 1139

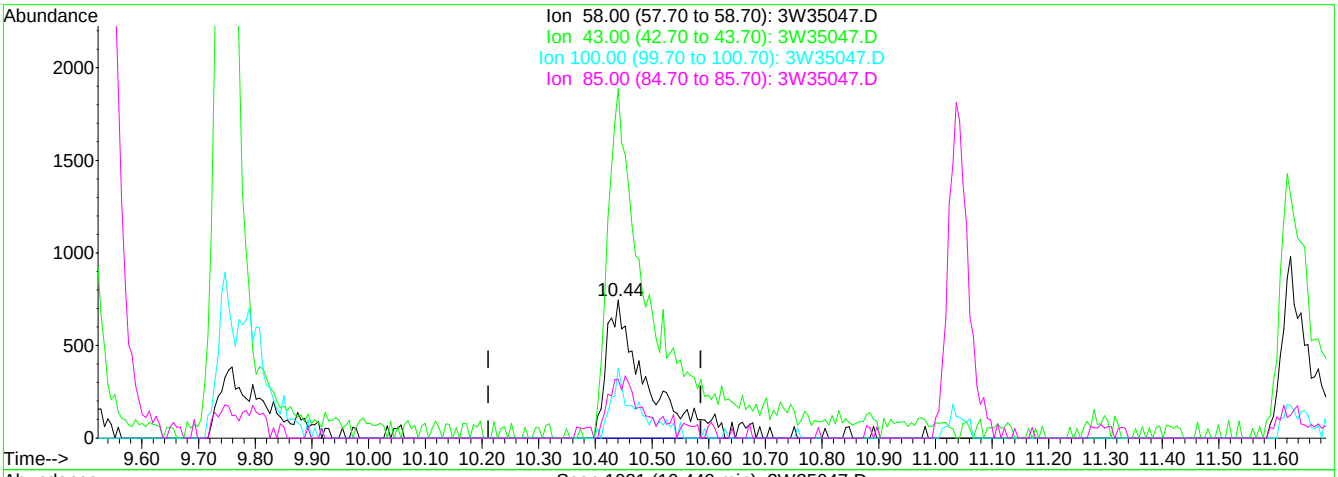
Ion	Exp%	Act%
86.00	100	100
43.00	1097.20	1010.27#
44.00	54.60	0.00#
0.00	0.00	0.00

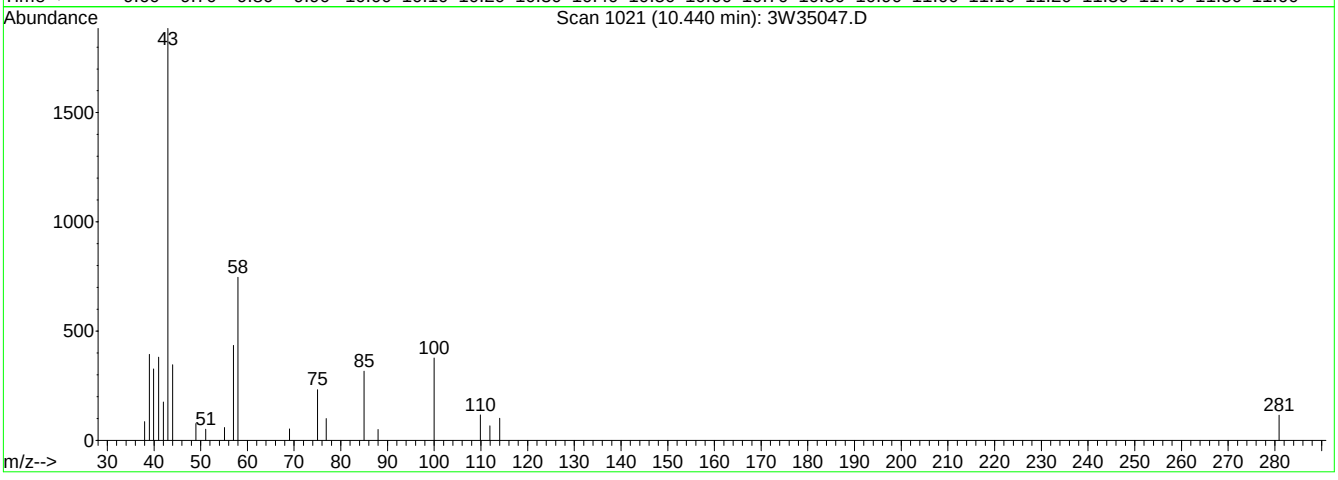
3W35047.D M3W1350.M Thu Jul 25 10:39:33 2013 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W35047.D Vial: 2
Acq On : 23 Jul 2013 5:03 pm Operator: YOUMINH
Sample : IC1350-0.5 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Single Level Calibration





TIC: 3W35047.D

(63) METHYL ISOBUTYL KETONE

10.44min 0.38PPBV m

response 3837

Ion	Exp%	Act%
58.00	100	100
43.00	239.30	212.09#
100.00	35.00	30.73
85.00	44.80	36.67

3W35047.D M3W1350.M Thu Jul 25 10:43:43 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35048.D Vial: 3
Acq On : 23 Jul 2013 5:45 pm Operator: YOUMINH
Sample : IC1350-0.1 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 18:13:59 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 17:32:20 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	100679	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	430193	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.09	82	192761	10.00	PPBV	-0.01
105) CHLOROBENZENE-D5 (a)	13.09	82	191875	10.00	PPBV	-0.01
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.72	95	200207	9.06	PPBV	-0.01
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.60%			
Target Compounds						Qvalue
3) FREON 152A	4.33	65	909	0.10	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.40	85	3858	0.11	PPBV #	92
7) FREON 114	4.55	85	4080	0.11	PPBV	95
9) VINYL CHLORIDE	4.62	62	1588	0.10	PPBV #	91
12) BROMOMETHANE	4.86	94	1533	0.10	PPBV #	93
13) CHLOROETHANE	4.94	64	795	0.09	PPBV #	59
14) DICHLOROFLUOROMETHANE	4.99	67	3020	0.09	PPBV #	93
16) FREON 123	5.21	83	3482	0.10	PPBV	94
17) FREON 123A	5.24	117	2202	0.11	PPBV	93
18) TRICHLOROFLUOROMETHANE	5.38	101	3553	0.10	PPBV	94
20) ACETONE	5.34	58	673	0.11	PPBV #	85
21) PENTANE	5.55	42	1637	0.11	PPBV #	82
23) IODOMETHANE	5.72	142	3907	0.10	PPBV	98
24) 1,1-DICHLOROETHYLENE	5.77	96	1394	0.10	PPBV	98
25) CARBON DISULFIDE	6.04	76	4338	0.11	PPBV	90
27) BROMOETHENE	5.15	106	1639	0.10	PPBV #	86
30) 3-CHLOROPROPENE	5.91	76	580	0.09	PPBV #	46
31) FREON 113	5.99	151	2509	0.10	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.45	96	1206	0.09	PPBV	97
34) METHYL TERTIARY BUTYL ETHE	6.67	73	2868	0.08	PPBV #	77
36) HEXANE	7.29	57	1965	0.09	PPBV	94
38) 1,1-DICHLOROETHANE	6.60	63	2541	0.09	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	7.24	96	1237	0.08	PPBV	87
44) CHLOROFORM	7.44	83	2748	0.09	PPBV #	86
45) 2,4-DIMETHYLPENTANE	7.99	57	2563	0.09	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.23	97	2774	0.09	PPBV	95
47) CARBON TETRACHLORIDE	8.77	117	3183	0.11	PPBV	94
48) 1,2-DICHLOROETHANE	8.03	62	1318	0.08	PPBV #	88
50) BENZENE	8.63	78	4510	0.11	PPBV	97
51) CYCLOHEXANE	8.81	84	2419	0.11	PPBV	91
53) TRICHLOROETHYLENE	9.55	95	1766	0.10	PPBV #	88
54) 1,2-DICHLOROPROPANE	9.33	63	1543	0.09	PPBV	87
55) DIBROMOMETHANE	9.35	174	1610	0.09	PPBV #	86
57) BROMODICHLOROMETHANE	9.53	83	2717	0.09	PPBV	97
58) 2,2,4-TRIMETHYLPENTANE	9.49	57	6857	0.10	PPBV	99
60) HEPTANE	9.75	43	2268	0.09	PPBV	95
64) cis-1,3-DICHLOROPROPENE	10.39	75	1648	0.08	PPBV	92
65) TOLUENE	11.30	92	2359	0.08	PPBV	93
67) 1,1,2-TRICHLOROETHANE	11.04	83	1199	0.09	PPBV	97
71) TETRACHLOROETHYLENE	12.42	164	1818	0.10	PPBV	98
72) DIBROMOCHLOROMETHANE	11.74	129	2468	0.10	PPBV	98
73) 1,2-DIBROMOETHANE	11.94	107	1689	0.08	PPBV #	99
74) OCTANE	12.22	43	2696	0.09	PPBV	89
75) 1,1,1,2-TETRACHLOROETHANE	13.12	131	1785	0.10	PPBV	81
76) CHLOROBENZENE	13.15	112	3001	0.10	PPBV #	48
77) ETHYLBENZENE	13.51	91	4395	0.09	PPBV	94
78) m,p-XYLENE	13.70	106	3244	0.17	PPBV	88
79) o-XYLENE	14.21	106	1459	0.08	PPBV #	78

(#) = qualifier out of range (m) = manual integration
3W35048.D M3W1350.M Thu Jul 25 10:27:01 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35048.D Vial: 3
Acq On : 23 Jul 2013 5:45 pm Operator: YOUMINH
Sample : IC1350-0.1 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 18:13:59 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 17:32:20 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

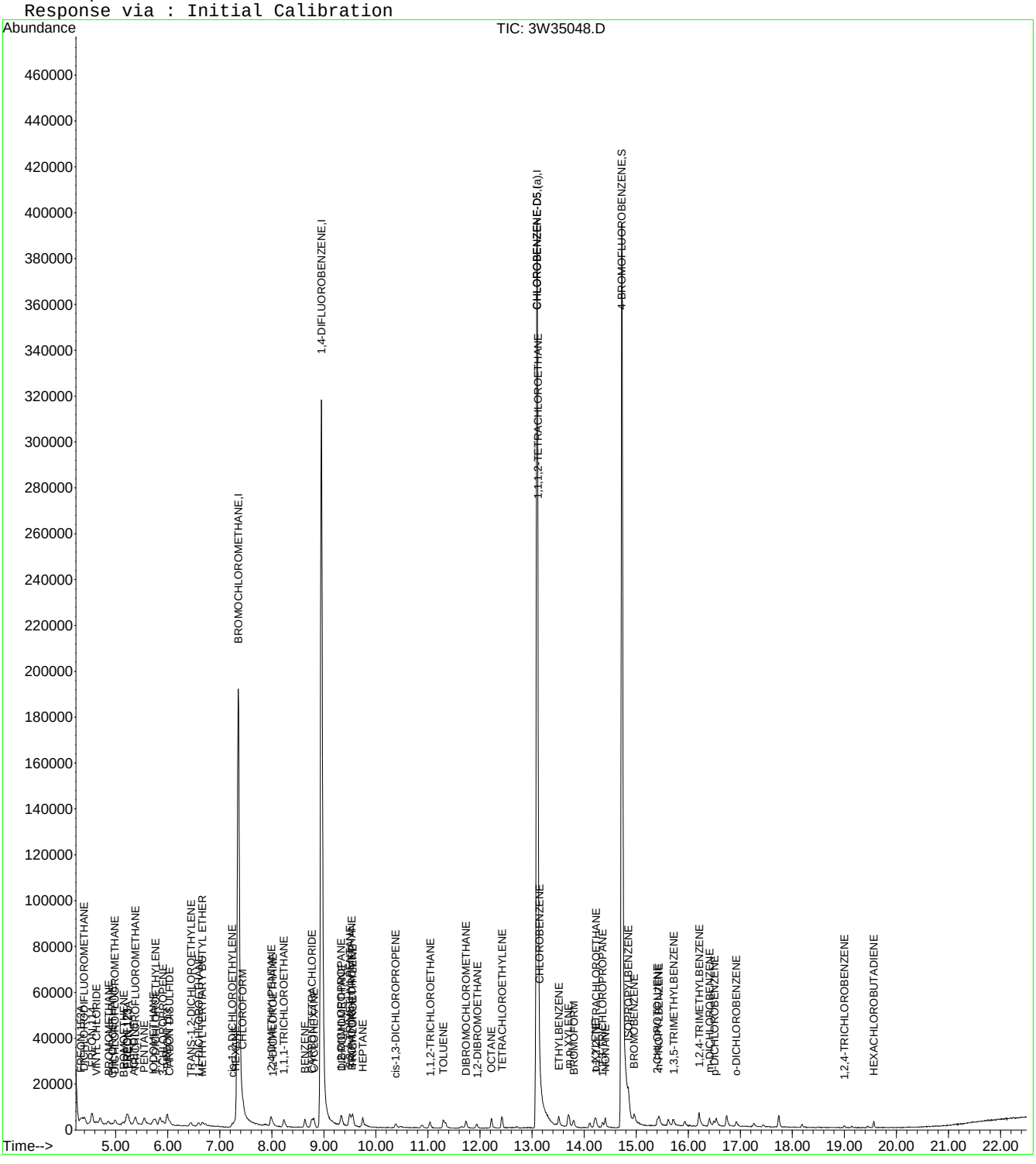
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	NONANE	14.41	43	2232	0.08	PPBV	#	88
82)	BROMOFORM	13.80	173	2253	0.09	PPBV		90
84)	1,1,2,2-TETRACHLOROETHANE	14.24	83	2458	0.09	PPBV		91
85)	1,2,3-TRICHLOROPROPANE	14.36	75	1704	0.09	PPBV		87
86)	ISOPROPYLBENZENE	14.85	105	5157	0.10	PPBV		96
87)	BROMOBENZENE	14.96	77	1923	0.08	PPBV		100
88)	2-CHLOROTOLUENE	15.40	126	993	0.08	PPBV		93
89)	n-PROPYLBENZENE	15.43	120	966	0.07	PPBV		60
91)	1,3,5-TRIMETHYLBENZENE	15.72	105	2988	0.08	PPBV		98
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	2567	0.07	PPBV	#	80
95)	m-DICHLOROBENZENE	16.41	146	1848	0.09	PPBV		98
97)	p-DICHLOROBENZENE	16.51	146	1830	0.09	PPBV		97
100)	o-DICHLOROBENZENE	16.93	146	1680	0.08	PPBV		96
103)	HEXACHLOROBUTADIENE	19.57	225	786	0.07	PPBV		96
104)	1,2,4-TRICHLOROBENZENE	18.99	180	500	0.07	PPBV	#	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35048.D M3W1350.M Thu Jul 25 10:27:01 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35048.D Vial: 3
Acq On : 23 Jul 2013 5:45 pm Operator: YOUMINH
Sample : IC1350-0.1 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:26 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35049.D Vial: 3
Acq On : 23 Jul 2013 6:23 pm Operator: YOUMINH
Sample : IC1350-0.04 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:11:17 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 18:17:25 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.36	128	102105	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	435104	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.10	82	192155	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.10	82	192155	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.72	95	199854	9.18	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 91.80%

Target Compounds						Qvalue
7) FREON 114	4.55	85	1472	0.04	PPBV	95
9) VINYL CHLORIDE	4.62	62	662	0.04	PPBV #	73
14) DICHLOROFLUOROMETHANE	5.00	67	1218	0.04	PPBV #	85
16) FREON 123	5.20	83	1481	0.04	PPBV	90
17) FREON 123A	5.24	117	811	0.04	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.38	101	1483	0.04	PPBV	94
23) IODOMETHANE	5.73	142	1547	0.04	PPBV	93
24) 1,1-DICHLOROETHYLENE	5.77	96	579	0.04	PPBV	93
25) CARBON DISULFIDE	6.04	76	1611	0.04	PPBV	68
27) BROMOETHENE	5.15	106	598	0.04	PPBV #	93
31) FREON 113	5.99	151	824	0.03	PPBV	92
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	463	0.03	PPBV #	86
34) METHYL TERTIARY BUTYL ETHE	6.69	73	1240	0.03	PPBV #	71
36) HEXANE	7.29	57	747	0.03	PPBV	92
38) 1,1-DICHLOROETHANE	6.58	63	934	0.03	PPBV #	64
40) cis-1,2-DICHLOROETHYLENE	7.24	96	606	0.04	PPBV #	76
44) CHLOROFORM	7.43	83	1026	0.04	PPBV #	87
46) 1,1,1-TRICHLOROETHANE	8.23	97	1090	0.04	PPBV	98
47) CARBON TETRACHLORIDE	8.76	117	1113	0.04	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	478	0.03	PPBV #	49
50) BENZENE	8.64	78	2230	0.05	PPBV	95
51) CYCLOHEXANE	8.80	84	941	0.04	PPBV	90
53) TRICHLOROETHYLENE	9.55	95	751	0.04	PPBV #	83
55) DIBROMOMETHANE	9.36	174	765	0.04	PPBV #	85
57) BROMODICHLOROMETHANE	9.54	83	1146	0.04	PPBV	93
58) 2,2,4-TRIMETHYLPENTANE	9.49	57	2918	0.04	PPBV #	96
60) HEPTANE	9.74	43	986	0.04	PPBV	88
64) cis-1,3-DICHLOROPROPENE	10.38	75	605	0.03	PPBV	92
65) TOLUENE	11.29	92	939	0.03	PPBV	91
67) 1,1,2-TRICHLOROETHANE	11.04	83	493	0.04	PPBV	94
71) TETRACHLOROETHYLENE	12.42	164	765	0.04	PPBV	98
72) DIBROMOCHLOROMETHANE	11.73	129	1029	0.04	PPBV	95
73) 1,2-DIBROMOETHANE	11.93	107	619	0.03	PPBV #	86
74) OCTANE	12.22	43	1056	0.04	PPBV	90
75) 1,1,1,2-TETRACHLOROETHANE	13.12	131	771	0.04	PPBV	94
76) CHLOROBENZENE	13.14	112	1142	0.04	PPBV #	20
77) ETHYLBENZENE	13.52	91	1770	0.04	PPBV	90
78) m,p-XYLENE	13.71	106	1249	0.07	PPBV #	83
79) o-XYLENE	14.20	106	543	0.03	PPBV #	72
80) STYRENE	14.11	104	686	0.03	PPBV	91
81) NONANE	14.41	43	681	0.03	PPBV #	91
82) BROMOFORM	13.80	173	783	0.03	PPBV #	90
84) 1,1,2,2-TETRACHLOROETHANE	14.23	83	846	0.03	PPBV #	91
85) 1,2,3-TRICHLOROPROPANE	14.36	75	649	0.03	PPBV	76
86) ISOPROPYLBENZENE	14.86	105	1863	0.04	PPBV	95
87) BROMOBENZENE	14.96	77	970	0.04	PPBV #	83
88) 2-CHLOROTOLUENE	15.41	126	447	0.04	PPBV #	42
89) n-PROPYLBENZENE	15.45	120	335	0.03	PPBV #	62

(#) = qualifier out of range (m) = manual integration
3W35049.D M3W1350.M Thu Jul 25 10:27:19 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35049.D Vial: 3
Acq On : 23 Jul 2013 6:23 pm Operator: YOUMINH
Sample : IC1350-0.04 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:11:17 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 18:17:25 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

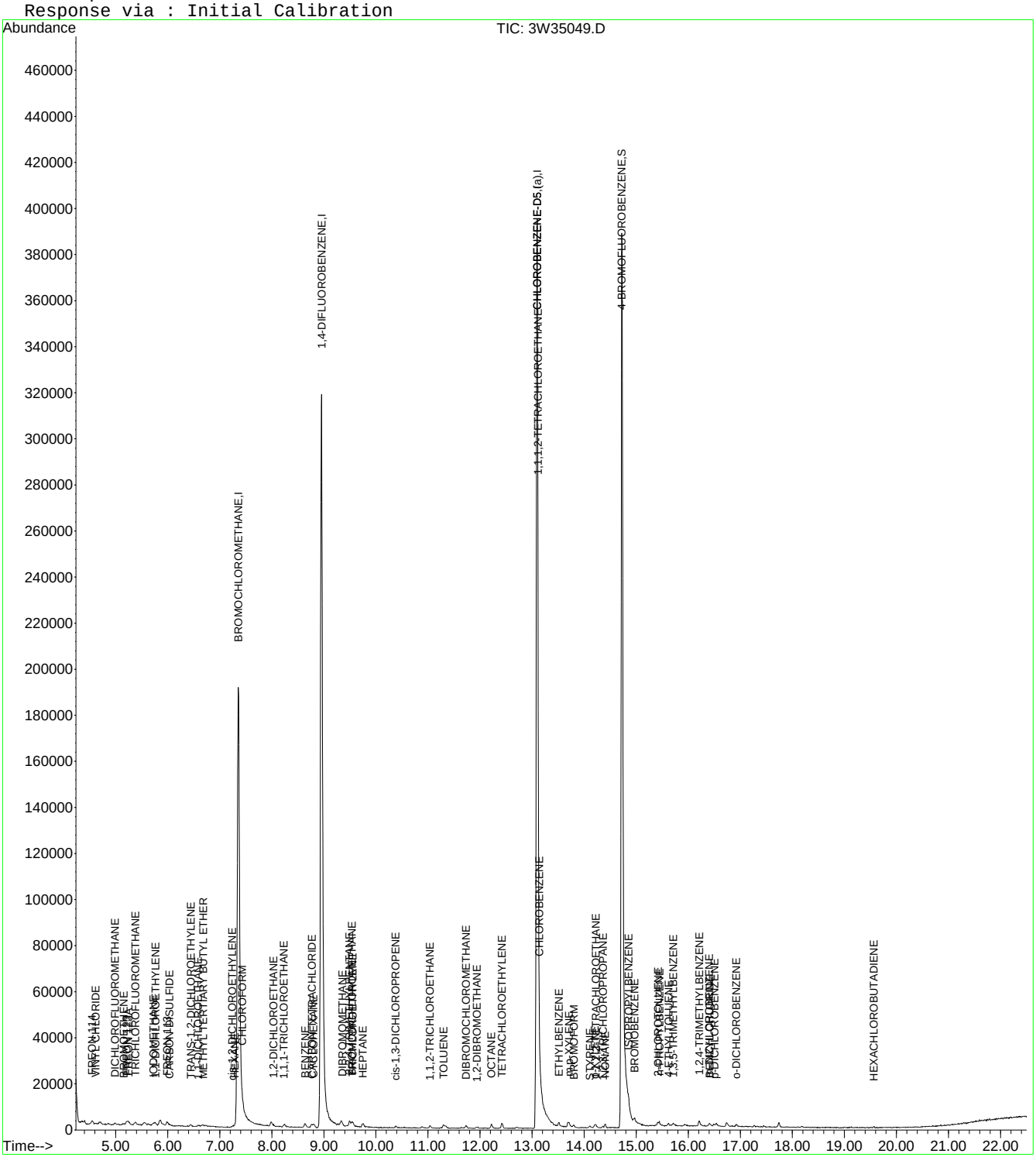
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
90)	4-ETHYLTOLUENE	15.62	105	1152	0.03	PPBV		92
91)	1,3,5-TRIMETHYLBENZENE	15.71	105	1261	0.03	PPBV	#	86
94)	1,2,4-TRIMETHYLBENZENE	16.21	105	872	0.03	PPBV	#	71
95)	m-DICHLOROBENZENE	16.40	146	635	0.03	PPBV		90
96)	BENZYL CHLORIDE	16.41	91	658	0.03	PPBV	#	59
97)	p-DICHLOROBENZENE	16.50	146	695	0.03	PPBV		91
100)	o-DICHLOROBENZENE	16.93	146	672	0.03	PPBV		94
103)	HEXACHLOROBUTADIENE	19.55	225	278	0.03	PPBV		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35049.D M3W1350.M Thu Jul 25 10:27:19 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35049.D Vial: 3
Acq On : 23 Jul 2013 6:23 pm Operator: YOUMINH
Sample : IC1350-0.04 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:27 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35050.D Vial: 1
Acq On : 23 Jul 2013 7:05 pm Operator: YOUMINH
Sample : IC1350-40 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:29:53 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:13:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.39	128	102769	10.00	PPBV	0.02
49) 1,4-DIFLUOROBENZENE	8.99	114	487642	10.00	PPBV	0.02
68) CHLOROBENZENE-D5	13.14	82	270229	10.00	PPBV	0.03
105) CHLOROBENZENE-D5 (a)	13.14	82	270229	10.00	PPBV	0.03
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.77	95	305601	10.07	PPBV	0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.70%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	349221	36.81	PPBV	99
4) CHLORODIFLUOROMETHANE	4.34	67	131180	37.84	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.40	85	1357786	36.51	PPBV	97
6) PROPYLENE	4.36	41	399617	33.52	PPBV	100
7) FREON 114	4.55	85	1423803	36.24	PPBV	95
8) CHLOROMETHANE	4.50	50	596803	34.92	PPBV	99
9) VINYL CHLORIDE	4.62	62	602140	36.02	PPBV	98
10) 1,3-BUTADIENE	4.69	54	448728	37.30	PPBV	96
11) n-BUTANE	4.72	43	825569	34.55	PPBV	99
12) BROMOMETHANE	4.86	94	601914	38.54	PPBV	99
13) CHLOROETHANE	4.95	64	327425	38.27	PPBV	98
14) DICHLOROFLUOROMETHANE	5.00	67	1234677	38.05	PPBV	99
15) ACETONITRILE	5.18	41	385338	42.85	PPBV	99
16) FREON 123	5.21	83	1338205	37.10	PPBV	97
17) FREON 123A	5.25	117	834210	39.16	PPBV	89
18) TRICHLOROFLUOROMETHANE	5.38	101	1360297	37.64	PPBV	99
19) ISOPROPYL ALCOHOL	5.49	45	934749	41.61	PPBV	100
20) ACETONE	5.30	58	257188	42.27	PPBV	99
21) PENTANE	5.56	42	546170	35.51	PPBV	95
23) IODOMETHANE	5.74	142	1636894	40.01	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.77	96	578717	39.55	PPBV	95
25) CARBON DISULFIDE	6.05	76	1491534	35.92	PPBV	99
26) ETHANOL	5.07	45	240674	42.94	PPBV	99
27) BROMOETHENE	5.15	106	631182	39.48	PPBV	99
28) ACRYLONITRILE	5.60	52	347536	46.91	PPBV	97
29) METHYLENE CHLORIDE	5.86	84	495315	33.84	PPBV	88
30) 3-CHLOROPROPENE	5.92	76	264726	41.33	PPBV #	88
31) FREON 113	6.00	151	999138	40.09	PPBV	97
32) TRANS-1,2-DICHLOROETHYLENE	6.45	96	596874	43.19	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.86	59	1145712	40.61	PPBV #	78
34) METHYL TERTIARY BUTYL ETHE	6.61	73	1536906	43.17	PPBV	99
35) TETRAHYDROFURAN	7.78	72	287800	46.75	PPBV	98
36) HEXANE	7.30	57	814306	37.93	PPBV	98
37) VINYL ACETATE	6.72	86	137141	49.50	PPBV #	85
38) 1,1-DICHLOROETHANE	6.61	63	1017760	37.96	PPBV	97
39) METHYL ETHYL KETONE	6.90	72	299419	48.71	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	7.26	96	643202	42.33	PPBV	99
41) DIISOPROPYL ETHER	7.33	45	1877740	39.58	PPBV	99
42) ETHYL ACETATE	7.40	61	196856	44.56	PPBV #	91
43) METHYL ACRYLATE	7.42	55	968504	46.70	PPBV #	80
44) CHLOROFORM	7.48	83	1183735	40.84	PPBV	88
45) 2,4-DIMETHYLPENTANE	8.00	57	1104513	38.80	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.26	97	1192565	40.46	PPBV	99
47) CARBON TETRACHLORIDE	8.79	117	1214843	39.75	PPBV	99
48) 1,2-DICHLOROETHANE	8.06	62	702308	45.03	PPBV	100
50) BENZENE	8.66	78	1862242	36.93	PPBV	100
51) CYCLOHEXANE	8.82	84	978311	37.28	PPBV	98
52) 2,3-DIMETHYLPENTANE	9.01	71	431814	36.96	PPBV #	87

(#) = qualifier out of range (m) = manual integration
3W35050.D M3W1350.M Thu Jul 25 10:27:39 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35050.D Vial: 1
Acq On : 23 Jul 2013 7:05 pm Operator: YOUMINH
Sample : IC1350-40 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 23 19:29:53 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Tue Jul 23 19:13:28 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

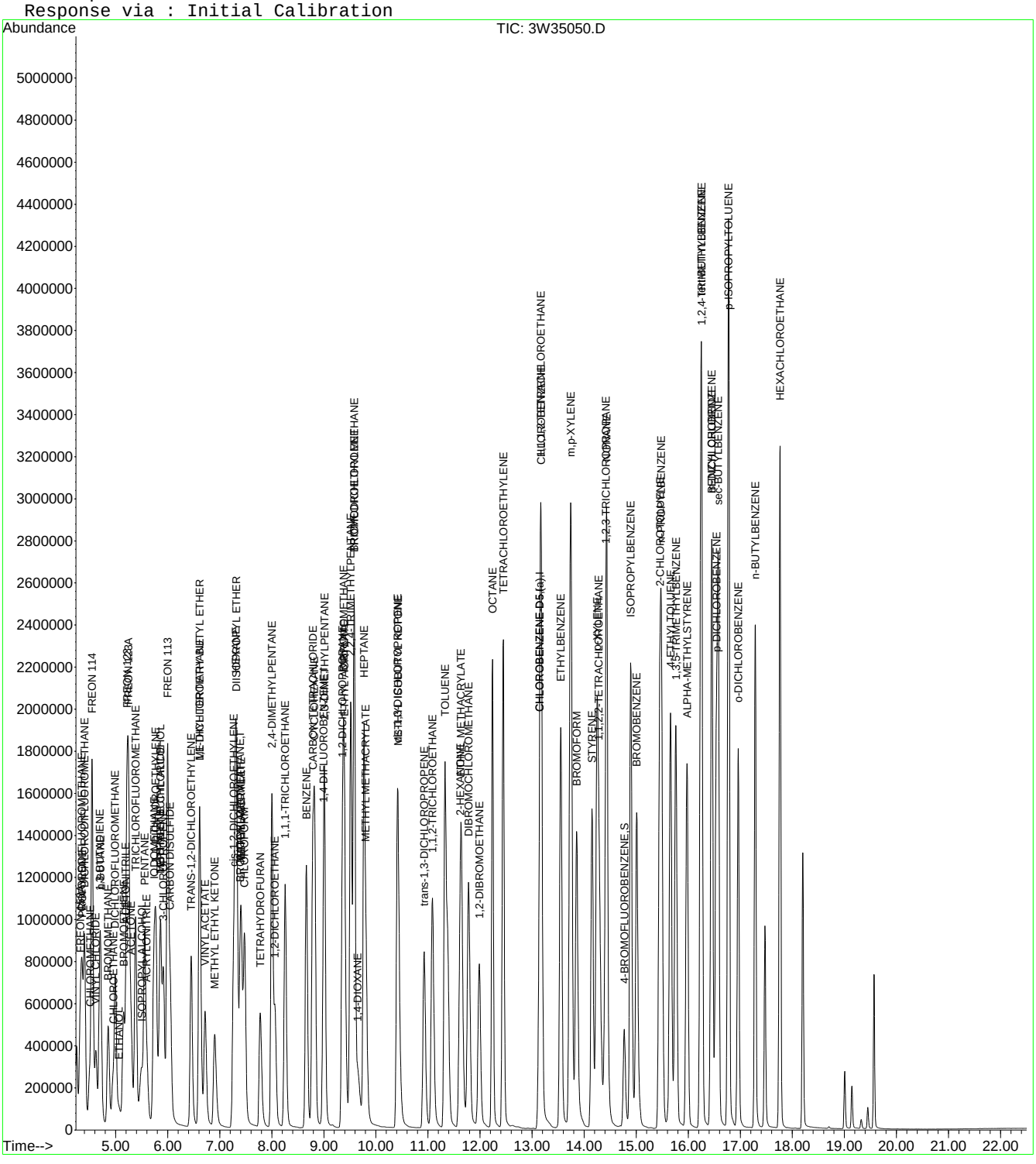
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	TRICHLOROETHYLENE	9.59	95	752487	38.30	PPBV		96
54)	1,2-DICHLOROPROPANE	9.35	63	681895	37.27	PPBV		99
55)	DIBROMOMETHANE	9.38	174	824531	42.23	PPBV		98
56)	ETHYL ACRYLATE	9.40	55	1254329	44.61	PPBV		99
57)	BROMODICHLOROMETHANE	9.58	83	1261014	39.02	PPBV		98
58)	2,2,4-TRIMETHYLPENTANE	9.52	57	2726162	35.18	PPBV		99
59)	1,4-DIOXANE	9.66	88	461696	49.42	PPBV		98
60)	HEPTANE	9.77	43	1026869	37.09	PPBV		96
62)	METHYL METHACRYLATE	9.81	69	671070	45.89	PPBV	#	1
63)	METHYL ISOBUTYL KETONE	10.43	58	533581	50.02	PPBV		97
64)	cis-1,3-DICHLOROPROPENE	10.41	75	1004835	45.06	PPBV		99
65)	TOLUENE	11.33	92	1332789	43.68	PPBV		96
66)	trans-1,3-DICHLOROPROPENE	10.93	75	968241	45.53	PPBV		99
67)	1,1,2-TRICHLOROETHANE	11.09	83	662144	43.31	PPBV		98
69)	2-HEXANONE	11.61	58	736181	47.03	PPBV		96
70)	ETHYL METHACRYLATE	11.64	69	1110585	45.07	PPBV		97
71)	TETRACHLOROETHYLENE	12.45	164	918202	36.04	PPBV		99
72)	DIBROMOCHLOROMETHANE	11.78	129	1365503	37.92	PPBV		99
73)	1,2-DIBROMOETHANE	11.99	107	1123781	41.47	PPBV		100
74)	OCTANE	12.24	43	1358705	34.40	PPBV		95
75)	1,1,1,2-TETRACHLOROETHANE	13.16	131	984584	37.69	PPBV		100
76)	CHLOROBENZENE	13.18	112	1582977	37.60	PPBV		99
77)	ETHYLBENZENE	13.55	91	2659854	39.31	PPBV		98
78)	m,p-XYLENE	13.74	106	2039983	79.97	PPBV		93
79)	o-XYLENE	14.25	106	1031183	41.90	PPBV		95
80)	STYRENE	14.15	104	1548615	43.73	PPBV		94
81)	NONANE	14.43	43	1308862	37.41	PPBV		96
82)	BROMOFORM	13.86	173	1366203	41.47	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	14.29	83	1437879	39.54	PPBV		98
85)	1,2,3-TRICHLOROPROPANE	14.41	75	1055632	40.31	PPBV		98
86)	ISOPROPYLBENZENE	14.89	105	2872819	39.24	PPBV		97
87)	BROMOBENZENE	15.01	77	1274351	40.40	PPBV		97
88)	2-CHLOROTOLUENE	15.45	126	726992	42.51	PPBV		100
89)	n-PROPYLBENZENE	15.48	120	778260	45.70	PPBV		99
90)	4-ETHYLTOLUENE	15.66	105	2577922	44.37	PPBV		99
91)	1,3,5-TRIMETHYLBENZENE	15.76	105	2134630	40.98	PPBV		97
92)	ALPHA-METHYLSTYRENE	15.98	118	1101530	46.26	PPBV		99
93)	tert-BUTYLBENZENE	16.24	134	533462	41.83	PPBV	#	89
94)	1,2,4-TRIMETHYLBENZENE	16.26	105	1984954	44.24	PPBV		98
95)	m-DICHLOROBENZENE	16.45	146	1360470	47.26	PPBV		99
96)	BENZYL CHLORIDE	16.46	91	1601020	48.52	PPBV		99
97)	p-DICHLOROBENZENE	16.54	146	1299239	45.64	PPBV		99
98)	sec-BUTYLBENZENE	16.58	134	639208	43.66	PPBV	#	84
99)	p-ISOPROPYLTOLUENE	16.77	134	658779	43.97	PPBV	#	86
100)	o-DICHLOROBENZENE	16.96	146	1234004	44.60	PPBV		98
101)	n-BUTYLBENZENE	17.29	134	548656	47.22	PPBV	#	88
102)	HEXACHLOROETHANE	17.76	117	899766	39.39	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35050.D M3W1350.M Thu Jul 25 10:27:39 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35050.D Vial: 1
Acq On : 23 Jul 2013 7:05 pm Operator: YOUMINH
Sample : IC1350-40 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:27 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB50673

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:28:30 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.37	128	113462	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	8.96	114	518334	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.10	82	255042	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.10	82	255042	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.74	95	301716	10.53	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.30%			
Target Compounds						Qvalue
3) FREON 152A	4.31	65	99539	9.59	PPBV	98
4) CHLORODIFLUOROMETHANE	4.34	67	36772	9.67	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.40	85	385606	9.48	PPBV	98
6) PROPYLENE	4.36	41	123541	9.58	PPBV	100
7) FREON 114	4.55	85	407830	9.49	PPBV	99
8) CHLOROMETHANE	4.50	50	174411	9.39	PPBV	99
9) VINYL CHLORIDE	4.62	62	173675	9.50	PPBV	99
10) 1,3-BUTADIENE	4.69	54	125332	9.52	PPBV	100
11) n-BUTANE	4.71	43	246806	9.52	PPBV	99
12) BROMOMETHANE	4.86	94	162474	9.46	PPBV	99
13) CHLOROETHANE	4.94	64	90410	9.62	PPBV	98
14) DICHLOROFLUOROMETHANE	4.99	67	347770	9.76	PPBV	99
15) ACETONITRILE	5.18	41	94330	9.42	PPBV	93
16) FREON 123	5.21	83	380909	9.64	PPBV	100
17) FREON 123A	5.25	117	223054	9.50	PPBV	97
18) TRICHLOROFLUOROMETHANE	5.38	101	374802	9.45	PPBV	100
19) ISOPROPYL ALCOHOL	5.46	45	229841	9.22	PPBV	99
20) ACETONE	5.29	58	64938	9.60	PPBV	98
21) PENTANE	5.55	42	155756	9.29	PPBV	99
23) IODOMETHANE	5.73	142	438416	9.71	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.77	96	156718	9.71	PPBV	100
25) CARBON DISULFIDE	6.04	76	419044	9.24	PPBV	99
26) ETHANOL	5.05	45	55476	8.88	PPBV	98
27) BROMOETHENE	5.15	106	168197	9.54	PPBV	100
28) ACRYLONITRILE	5.59	52	84015	10.06	PPBV	97
29) METHYLENE CHLORIDE	5.85	84	139387	8.80	PPBV	89
30) 3-CHLOROPROPENE	5.91	76	70837	9.98	PPBV	94
31) FREON 113	5.99	151	270123	9.82	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.44	96	152770	9.93	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.82	59	294727	9.44	PPBV	96
34) METHYL TERTIARY BUTYL ETHE	6.61	73	398236	10.05	PPBV	100
35) TETRAHYDROFURAN	7.78	72	69693	10.04	PPBV	100
36) HEXANE	7.30	57	231638	9.82	PPBV	99
37) VINYL ACETATE	6.70	86	31416	9.97	PPBV #	94
38) 1,1-DICHLOROETHANE	6.60	63	283896	9.64	PPBV	99
39) METHYL ETHYL KETONE	6.88	72	69461	9.96	PPBV	98
40) cis-1,2-DICHLOROETHYLENE	7.25	96	164593	9.75	PPBV	98
41) DIISOPROPYL ETHER	7.31	45	513433	9.81	PPBV	88
42) ETHYL ACETATE	7.38	61	47626	9.63	PPBV #	92
43) METHYL ACRYLATE	7.39	55	233911	10.01	PPBV	99
44) CHLOROFORM	7.45	83	309395	9.65	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.99	57	305226	9.74	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.24	97	313822	9.63	PPBV	100
47) CARBON TETRACHLORIDE	8.77	117	321331	9.53	PPBV	100
48) 1,2-DICHLOROETHANE	8.04	62	172098	9.87	PPBV	99
50) BENZENE	8.65	78	480386	9.03	PPBV	100
51) CYCLOHEXANE	8.81	84	258109	9.32	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.00	71	112004	9.11	PPBV	97

(#) = qualifier out of range (m) = manual integration
3W35053.D M3W1350.M Thu Jul 25 10:28:48 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:28:30 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

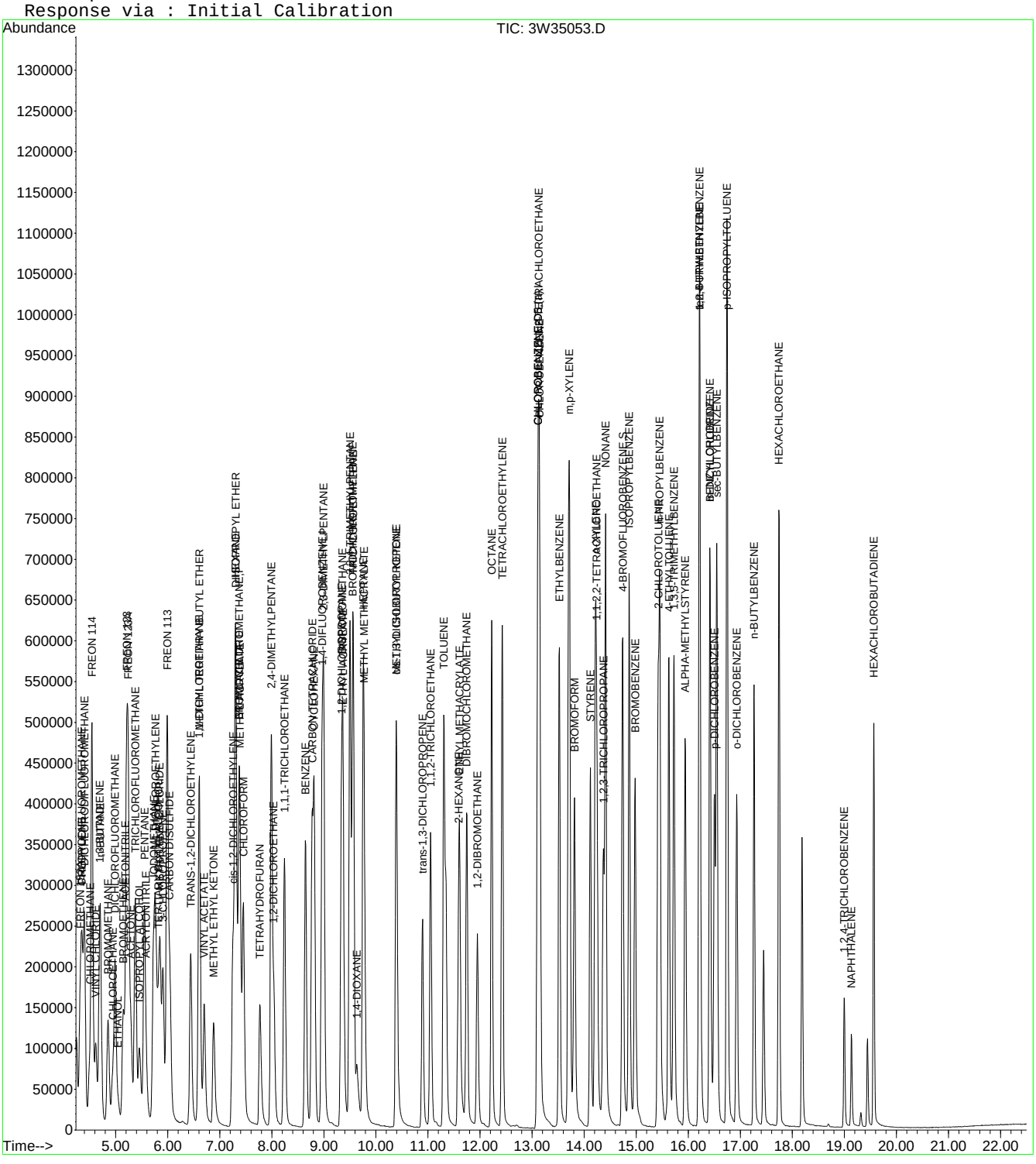
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.57	95	185240	8.91	PPBV	98
54)	1,2-DICHLOROPROPANE	9.33	63	175672	9.10	PPBV	100
55)	DIBROMOMETHANE	9.36	174	194309	9.31	PPBV	100
56)	ETHYL ACRYLATE	9.38	55	284504	9.38	PPBV	99
57)	BROMODICHLOROMETHANE	9.55	83	322838	9.42	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.50	57	781007	9.60	PPBV	100
59)	1,4-DIOXANE	9.64	88	95209	9.31	PPBV	96
60)	HEPTANE	9.75	43	275384	9.43	PPBV	100
62)	METHYL METHACRYLATE	9.78	69	154425	9.76	PPBV	99
63)	METHYL ISOBUTYL KETONE	10.40	58	111086	9.50	PPBV	99
64)	cis-1,3-DICHLOROPROPENE	10.39	75	239725	9.99	PPBV	99
65)	TOLUENE	11.30	92	320284	9.79	PPBV	100
66)	trans-1,3-DICHLOROPROPENE	10.90	75	214939	9.35	PPBV	99
67)	1,1,2-TRICHLOROETHANE	11.05	83	157401	9.61	PPBV	98
69)	2-HEXANONE	11.58	58	147050	9.74	PPBV	100
70)	ETHYL METHACRYLATE	11.60	69	230187	9.74	PPBV	99
71)	TETRACHLOROETHYLENE	12.43	164	216803	9.11	PPBV	100
72)	DIBROMOCHLOROMETHANE	11.74	129	316827	9.37	PPBV	100
73)	1,2-DIBROMOETHANE	11.95	107	250279	9.75	PPBV	99
74)	OCTANE	12.22	43	361301	9.83	PPBV	100
75)	1,1,1,2-TETRACHLOROETHANE	13.13	131	232435	9.48	PPBV	100
76)	CHLOROBENZENE	13.15	112	370630	9.38	PPBV	100
77)	ETHYLBENZENE	13.52	91	633234	9.93	PPBV	100
78)	m,p-XYLENE	13.71	106	473313	19.66	PPBV	99
79)	o-XYLENE	14.22	106	234785	10.06	PPBV	99
80)	STYRENE	14.12	104	331554	9.43	PPBV	94
81)	NONANE	14.41	43	348382	10.62	PPBV	100
82)	BROMOFORM	13.82	173	300745	9.64	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	14.24	83	327408	9.55	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.37	75	242502	9.80	PPBV	100
86)	ISOPROPYLBENZENE	14.86	105	677580	9.82	PPBV	100
87)	BROMOBENZENE	14.98	77	283114	9.50	PPBV	99
88)	2-CHLOROTOLUENE	15.42	126	162537	10.01	PPBV	100
89)	n-PROPYLBENZENE	15.45	120	171433	10.52	PPBV	99
90)	4-ETHYLTOLUENE	15.63	105	577611	10.02	PPBV	98
91)	1,3,5-TRIMETHYLBENZENE	15.73	105	482650	9.79	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.94	118	226619	9.89	PPBV	100
93)	tert-BUTYLBENZENE	16.21	134	117351	9.69	PPBV	100
94)	1,2,4-TRIMETHYLBENZENE	16.23	105	446930	10.44	PPBV	99
95)	m-DICHLOROBENZENE	16.41	146	278805	10.08	PPBV	100
96)	BENZYL CHLORIDE	16.42	91	316600	9.56	PPBV	99
97)	p-DICHLOROBENZENE	16.51	146	263452	9.67	PPBV	100
98)	sec-BUTYLBENZENE	16.55	134	135716	9.71	PPBV	99
99)	p-ISOPROPYLTOLUENE	16.74	134	139170	9.72	PPBV	98
100)	o-DICHLOROBENZENE	16.93	146	255380	9.67	PPBV	100
101)	n-BUTYLBENZENE	17.27	134	108519	9.68	PPBV	97
102)	HEXACHLOROETHANE	17.74	117	195215	9.07	PPBV	100
103)	HEXACHLOROBUTADIENE	19.57	225	121436	9.09	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	19.00	180	72704	7.92	PPBV	100
106)	NAPHTHALENE	19.13	128	116887	7.11	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W35053.D M3W1350.M Thu Jul 25 10:28:48 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W35053.D Vial: 4
Acq On : 23 Jul 2013 9:02 pm Operator: YOUMINH
Sample : ICV1350-10 Inst : MS3W
Misc : MS51919,V3W1350,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 10:28 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jul 25 10:22:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:47 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.29	128	110889	10.00	PPBV	-0.07
49) 1,4-DIFLUOROBENZENE	8.88	114	513599	10.00	PPBV	-0.08
68) CHLOROBENZENE-D5	13.03	82	225012	10.00	PPBV	-0.07
105) CHLOROBENZENE-D5 (a)	13.03	82	231217	10.00	PPBV	-0.07
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	14.66	95	242000	9.57	PPBV	-0.07
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.70%			
Target Compounds						Qvalue
3) FREON 152A	4.28	65	108344	10.68	PPBV	94
4) CHLORODIFLUOROMETHANE	4.31	67	34461	9.28	PPBV #	41
5) DICHLORODIFLUOROMETHANE	4.36	85	374179	9.42	PPBV	97
6) PROPYLENE	4.32	41	153165	12.15	PPBV	96
7) FREON 114	4.50	85	427560	10.18	PPBV	95
8) CHLOROMETHANE	4.46	50	203964	11.24	PPBV	97
9) VINYL CHLORIDE	4.58	62	200722	11.24	PPBV	99
10) 1,3-BUTADIENE	4.64	54	141680	11.01	PPBV	92
11) n-BUTANE	4.67	43	288268	11.37	PPBV	99
12) BROMOMETHANE	4.81	94	170438	10.16	PPBV	100
13) CHLOROETHANE	4.89	64	100278	10.92	PPBV	100
14) DICHLOROFLUOROMETHANE	4.94	67	369404	10.60	PPBV	99
15) ACETONITRILE	5.11	41	125198	12.79	PPBV	98
16) FREON 123	5.15	83	389074	10.07	PPBV	98
17) FREON 123A	5.19	117	217257	9.47	PPBV	89
18) TRICHLOROFLUOROMETHANE	5.32	101	340896	8.79	PPBV	100
19) ISOPROPYL ALCOHOL	5.36	45	291587	11.97	PPBV	94
20) ACETONE	5.23	58	85455	12.92	PPBV #	83
21) PENTANE	5.49	42	183164	11.17	PPBV	91
23) IODOMETHANE	5.66	142	430468	9.75	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.71	96	160540	10.18	PPBV	97
25) CARBON DISULFIDE	5.98	76	484289	10.92	PPBV	99
26) ETHANOL	4.96	45	67904	11.13	PPBV	97
27) BROMOETHENE	5.09	106	167447	9.72	PPBV	99
28) ACRYLONITRILE	5.52	52	99679	12.21	PPBV	93
29) METHYLENE CHLORIDE	5.79	84	147404	9.52	PPBV	98
30) 3-CHLOROPROPENE	5.85	76	74883	10.80	PPBV #	89
31) FREON 113	5.93	151	260243	9.68	PPBV	95
32) TRANS-1,2-DICHLOROETHYLENE	6.38	96	156945	10.44	PPBV	94
33) TERTIARY BUTYL ALCOHOL	5.71	59	336718	11.04	PPBV	94
34) METHYL TERTIARY BUTYL ETHE	6.53	73	398581	10.29	PPBV	98
35) TETRAHYDROFURAN	7.68	72	78430	11.56	PPBV	92
36) HEXANE	7.22	57	251719	10.92	PPBV	94
37) VINYL ACETATE	6.62	86	33770	10.97	PPBV	97
38) 1,1-DICHLOROETHANE	6.53	63	285356	9.92	PPBV	99
39) METHYL ETHYL KETONE	6.80	72	77533	11.38	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	7.17	96	158534	9.61	PPBV	95
41) DIISOPROPYL ETHER	7.23	45	565767	11.07	PPBV	98
42) ETHYL ACETATE	7.29	61	56079	11.60	PPBV	97
43) METHYL ACRYLATE	7.31	55	250649	10.97	PPBV	97
44) CHLOROFORM	7.37	83	287315	9.17	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.92	57	320264	10.46	PPBV	97
46) 1,1,1-TRICHLOROETHANE	8.16	97	276266	8.68	PPBV	99
47) CARBON TETRACHLORIDE	8.70	117	279979	8.49	PPBV	100
48) 1,2-DICHLOROETHANE	7.96	62	152160	8.93	PPBV	99
50) BENZENE	8.57	78	476542	9.04	PPBV	99
51) CYCLOHEXANE	8.74	84	251208	9.15	PPBV	92
52) 2,3-DIMETHYLPENTANE	8.92	71	116577	9.56	PPBV	97

(#) = qualifier out of range (m) = manual integration
3W36333.D M3W1350.M Tue Oct 08 10:24:29 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 08:56:47 2013 Quant Results File: M3W1350.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration
DataAcq Meth : TO153W

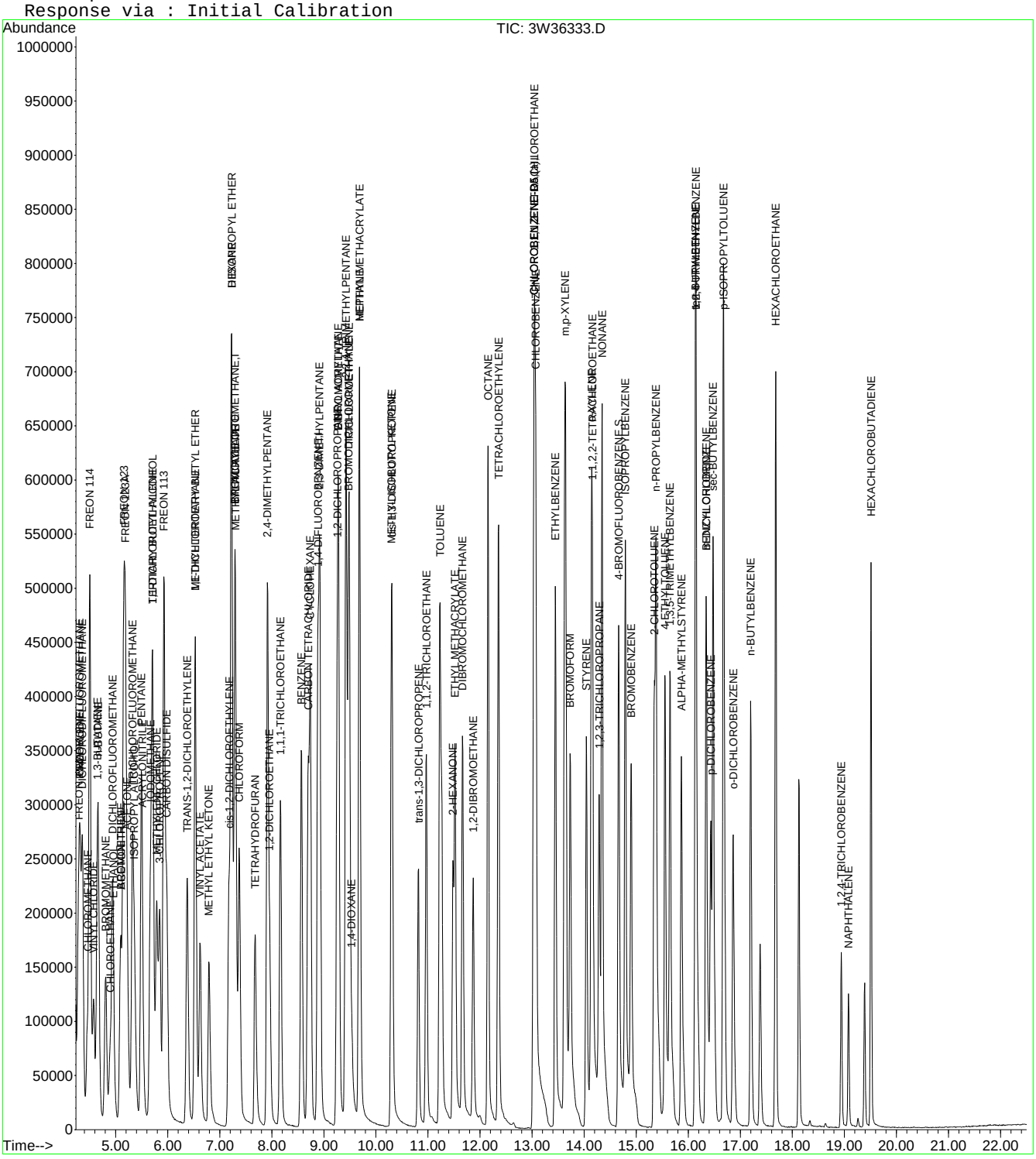
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	TRICHLOROETHYLENE	9.49	95	179913	8.73	PPBV	96
54)	1,2-DICHLOROPROPANE	9.25	63	188627	9.86	PPBV	95
55)	DIBROMOMETHANE	9.28	174	183461	8.87	PPBV	97
56)	ETHYL ACRYLATE	9.28	55	313424	10.43	PPBV	99
57)	BROMODICHLOROMETHANE	9.47	83	290558	8.56	PPBV	99
58)	2,2,4-TRIMETHYLPENTANE	9.42	57	840356	10.42	PPBV	99
59)	1,4-DIOXANE	9.53	88	89955	8.88	PPBV	93
60)	HEPTANE	9.68	43	297963	10.29	PPBV	98
62)	METHYL METHACRYLATE	9.69	69	159781	10.19	PPBV	95
63)	METHYL ISOBUTYL KETONE	10.29	58	126995	10.96	PPBV	98
64)	cis-1,3-DICHLOROPROPENE	10.31	75	250734	10.54	PPBV	94
65)	TOLUENE	11.22	92	298972	9.22	PPBV	99
66)	trans-1,3-DICHLOROPROPENE	10.82	75	193777	8.50	PPBV	98
67)	1,1,2-TRICHLOROETHANE	10.97	83	151744	9.35	PPBV	99
69)	2-HEXANONE	11.48	58	172357	12.94	PPBV	96
70)	ETHYL METHACRYLATE	11.52	69	258601	12.41	PPBV	97
71)	TETRACHLOROETHYLENE	12.36	164	197776	9.42	PPBV	99
72)	DIBROMOCHLOROMETHANE	11.66	129	294803	9.88	PPBV	99
73)	1,2-DIBROMOETHANE	11.87	107	232268	10.26	PPBV	100
74)	OCTANE	12.16	43	398270	12.28	PPBV	95
75)	1,1,1,2-TETRACHLOROETHANE	13.05	131	212621	9.83	PPBV	96
76)	CHLOROBENZENE	13.07	112	345751	9.92	PPBV	98
77)	ETHYLBENZENE	13.45	91	565099	10.05	PPBV	99
78)	m,p-XYLENE	13.63	106	420004	19.77	PPBV	97
79)	o-XYLENE	14.14	106	211176	10.26	PPBV	96
80)	STYRENE	14.04	104	275127	8.87	PPBV	96
81)	NONANE	14.35	43	369030	12.75	PPBV	97
82)	BROMOFORM	13.73	173	243075	8.83	PPBV	99
84)	1,1,2,2-TETRACHLOROETHANE	14.16	83	298855	9.88	PPBV	98
85)	1,2,3-TRICHLOROPROPANE	14.29	75	222474	10.19	PPBV	96
86)	ISOPROPYLBENZENE	14.79	105	582692	9.58	PPBV	99
87)	BROMOBENZENE	14.90	77	250538	9.53	PPBV	96
88)	2-CHLOROTOLUENE	15.34	126	137376	9.59	PPBV	100
89)	n-PROPYLBENZENE	15.38	120	146880	10.21	PPBV	99
90)	4-ETHYLTOLUENE	15.55	105	418093	8.22	PPBV	98
91)	1,3,5-TRIMETHYLBENZENE	15.65	105	403253	9.28	PPBV	99
92)	ALPHA-METHYLSTYRENE	15.87	118	175240	8.67	PPBV	99
93)	tert-BUTYLBENZENE	16.14	134	98295	9.20	PPBV	99
94)	1,2,4-TRIMETHYLBENZENE	16.15	105	356896	9.45	PPBV	96
95)	m-DICHLOROBENZENE	16.34	146	215274	8.82	PPBV	99
96)	BENZYL CHLORIDE	16.35	91	251807	8.61	PPBV	100
97)	p-DICHLOROBENZENE	16.43	146	205534	8.55	PPBV	99
98)	sec-BUTYLBENZENE	16.48	134	107592	8.73	PPBV	98
99)	p-ISOPROPYLTOLUENE	16.68	134	108626	8.60	PPBV	100
100)	o-DICHLOROBENZENE	16.86	146	194792	8.36	PPBV	100
101)	n-BUTYLBENZENE	17.20	134	84673	8.56	PPBV	95
102)	HEXACHLOROETHANE	17.68	117	184670	9.73	PPBV	95
103)	HEXACHLOROBUTADIENE	19.51	225	118305	10.03	PPBV	99
104)	1,2,4-TRICHLOROBENZENE	18.94	180	69581	8.59	PPBV	97
106)	NAPHTHALENE	19.08	128	121543	8.16	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W36333.D M3W1350.M Tue Oct 08 10:24:29 2013 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W36333.D Vial: 2
Acq On : 7 Oct 2013 10:15 am Operator: YOUMINH
Sample : CC1350-10 Inst : MS3W
Misc : MS56045,V3W1397,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 8 9:12 2013 Quant Results File: M3W1350.RES

Method : C:\MSDCHEM\1\METHODS\M3W1350.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Jul 26 08:54:09 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44075.D Vial: 2
Acq On : 14 Oct 2013 7:02 pm Operator: danat
Sample : ic1765-0.04 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:32:10 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:30:46 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

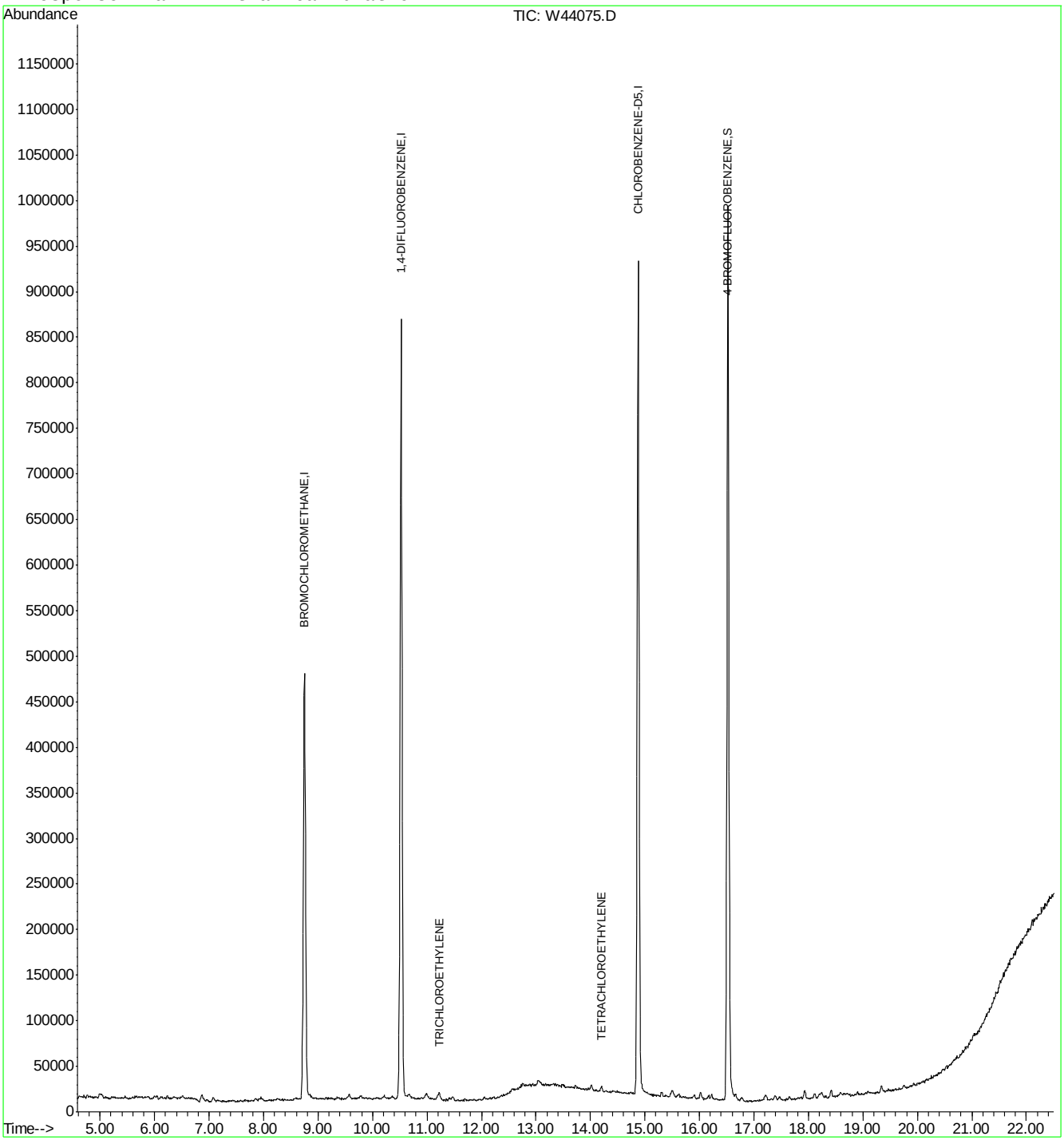
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	208494	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	1033789	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	422361	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	493364	9.97	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.70%			
Target Compounds						Qvalue
54) TRICHLOROETHYLENE	11.22	95	1712	0.05	PPBV	91
72) TETRACHLOROETHYLENE	14.20	164	1770	0.05	PPBV	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44075.D Vial: 2
Acq On : 14 Oct 2013 7:02 pm Operator: danat
Sample : ic1765-0.04 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:38 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 10/18/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:39:21 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	206945	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	1035480	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.88	82	424821	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	503209	9.98	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.80%			
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.76	85	6766	0.12	PPBV	98
7) FREON 114	4.99	85	7106	0.12	PPBV	93
9) VINYL CHLORIDE	5.11	62	2665	0.11	PPBV	93
10) 1,3-BUTADIENE	5.22	54	2438	0.13	PPBV #	61
12) BROMOMETHANE	5.46	94	2600	0.11	PPBV #	77
13) CHLOROETHANE	5.59	64	1433	0.10	PPBV	77
16) FREON 123	5.99	83	6419	0.12	PPBV #	87
17) FREON 123A	6.04	117	4142	0.12	PPBV	82
18) TRICHLOROFLUOROMETHANE	6.23	101	6417	0.11	PPBV	94
24) IODOMETHANE	6.72	142	6946	0.11	PPBV	99
26) CARBON DISULFIDE	7.16	76	7827	0.11	PPBV #	82
29) BROMOETHENE	5.89	106	2750	0.11	PPBV #	92
31) 3-CHLOROPROPENE	6.96	76	1334	0.12	PPBV #	87
32) FREON 113	7.08	151	5289	0.12	PPBV	97
35) METHYL TERTIARY BUTYL ETHE	7.94	73	8409	0.12	PPBV	91
36) TETRAHYDROFURAN	9.35	72	1353	0.11	PPBV #	55
38) VINYL ACETATE	7.96	86	774	0.12	PPBV #	85
39) 1,1-DICHLOROETHANE	7.85	63	4934	0.11	PPBV	93
40) METHYL ETHYL KETONE	8.25	72	1364	0.11	PPBV #	78
42) DI-ISOPROPYL ETHER	8.77	45	10148	0.12	PPBV	97
43) ETHYL ACETATE	8.80	61	782	0.10	PPBV #	1
44) METHYL ACRYLATE	8.80	55	5066	0.11	PPBV #	84
45) CHLOROFORM	8.85	83	6084	0.12	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.57	57	6026	0.13	PPBV	97
47) 1,1,1-TRICHLOROETHANE	9.78	97	6257	0.13	PPBV	92
48) CARBON TETRACHLORIDE	10.36	117	5780	0.12	PPBV	97
49) 1,2-DICHLOROETHANE	9.55	62	3369	0.11	PPBV	91
51) BENZENE	10.23	78	9433	0.12	PPBV	96
54) TRICHLOROETHYLENE	11.21	95	3979	0.12	PPBV	91
55) DIBROMOMETHANE	10.97	174	3816	0.11	PPBV	91
56) 1,2-DICHLOROPROPANE	10.99	63	3559	0.12	PPBV	90
57) ETHYL ACRYLATE	10.99	55	5688	0.11	PPBV #	94
58) BROMODICHLOROMETHANE	11.18	83	5982	0.12	PPBV	98
59) 2,2,4-TRIMETHYLPENTANE	11.22	57	13937	0.11	PPBV	89
64) METHYL ISOBUTYL KETONE	12.14	43	5236	0.11	PPBV	90
65) cis-1,3-DICHLOROPROPENE	12.05	75	5228	0.12	PPBV	93
66) TOLUENE	13.03	92	6058	0.11	PPBV	88
67) trans-1,3-DICHLOROPROPENE	12.57	75	4503	0.12	PPBV	81
68) 1,1,2-TRICHLOROETHANE	12.77	83	3352	0.13	PPBV	95
72) TETRACHLOROETHYLENE	14.20	164	4603	0.12	PPBV	98
74) 1,2-DIBROMOETHANE	13.74	107	4784	0.12	PPBV #	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:39:21 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

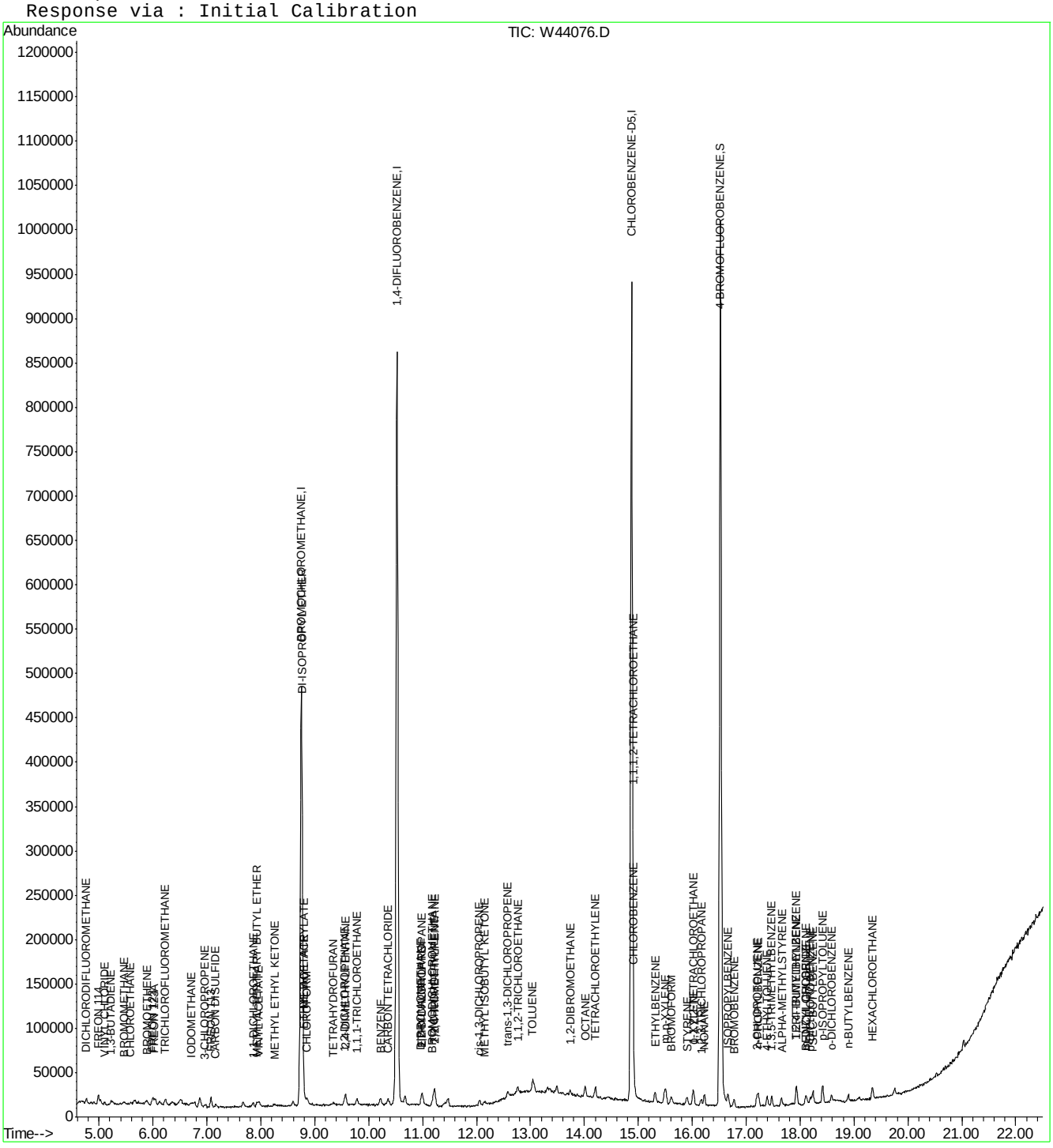
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	OCTANE	14.01	43	6427	0.12	PPBV	#	85
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	4375	0.12	PPBV	#	87
77)	CHLOROBENZENE	14.92	112	7849	0.12	PPBV	#	45
78)	ETHYLBENZENE	15.31	91	12416	0.12	PPBV		97
79)	m,p-XYLENE	15.49	106	9291	0.23	PPBV		87
80)	o-XYLENE	16.02	106	4451	0.12	PPBV		91
81)	STYRENE	15.90	104	6962	0.12	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.17	75	4829	0.13	PPBV		93
83)	NONANE	16.23	43	6045	0.12	PPBV		93
84)	BROMOFORM	15.61	173	5096	0.11	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	6042	0.13	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	13365	0.12	PPBV		96
88)	BROMOBENZENE	16.78	156	3810	0.11	PPBV		95
89)	2-CHLOROTOLUENE	17.20	126	3227	0.12	PPBV	#	97
90)	n-PROPYLBENZENE	17.23	120	3108	0.11	PPBV		86
91)	4-ETHYLTOLUENE	17.39	105	9987	0.11	PPBV		97
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	9121	0.12	PPBV		97
93)	ALPHA-METHYLSTYRENE	17.66	118	4091	0.11	PPBV		87
94)	TERT-BUTYLBENZENE	17.93	134	2428	0.11	PPBV		89
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	8040	0.11	PPBV		91
96)	m-DICHLOROBENZENE	18.12	146	4423m	0.10	PPBV		
97)	BENZYL CHLORIDE	18.11	91	4964	0.11	PPBV		98
98)	p-DICHLOROBENZENE	18.19	146	4454	0.10	PPBV		98
99)	SEC-BUTYLBENZENE	18.23	134	2788	0.11	PPBV	#	94
100)	p-ISOPROPYLTOLUENE	18.41	134	2512	0.11	PPBV		87
101)	o-DICHLOROBENZENE	18.58	146	4443	0.11	PPBV		88
102)	n-BUTYLBENZENE	18.89	134	1953	0.11	PPBV		86
103)	HEXACHLOROETHANE	19.34	201	3329	0.11	PPBV	#	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:42 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Manual Integration Approval Summary

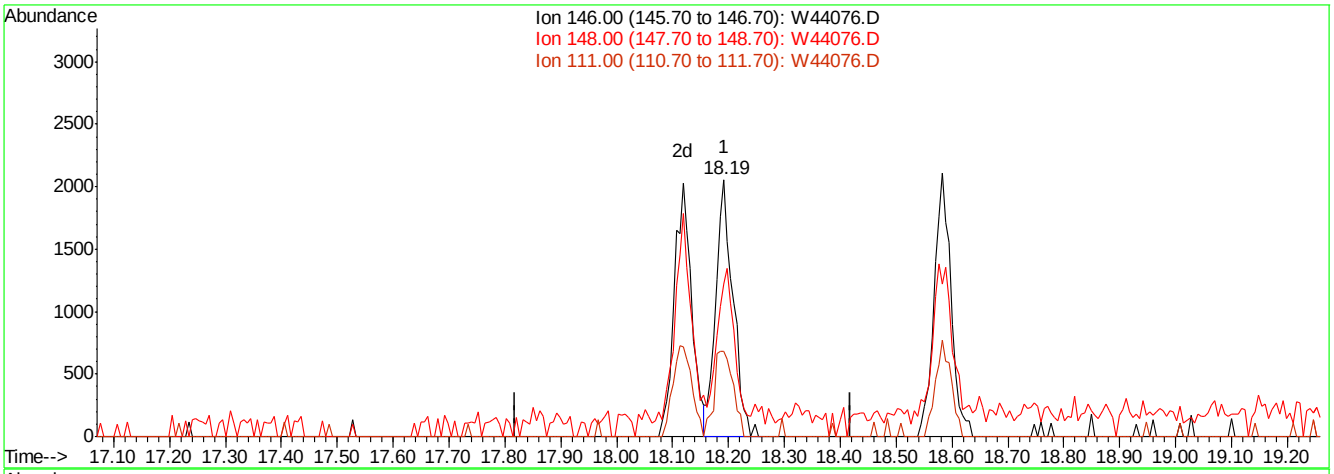
Sample Number:	VW1765-IC1765	**Method:**	TO-15
Lab FileID:	W44076.D	**Analyst approved:**	10/16/13 09:33 Dana Tryon
Injection Time:	10/14/13 19:42	**Supervisor approved:**	10/18/13 14:19 Jessica Reitan-Chu

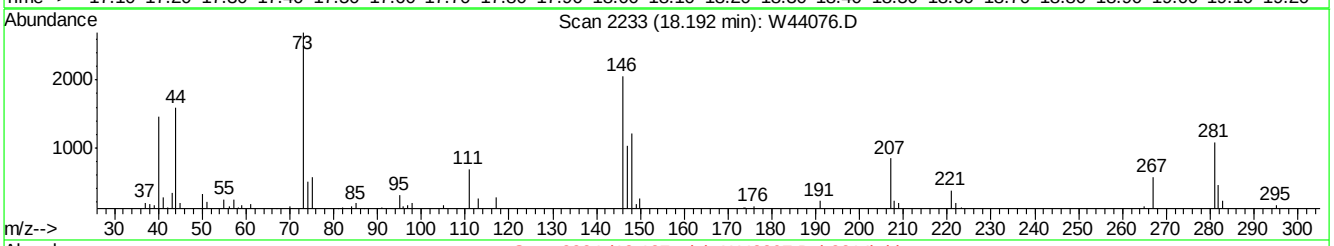
Parameter	CAS	Sig#	R.T. (min.)	Reason
m-Dichlorobenzene	541-73-1		18.12	Missed peak

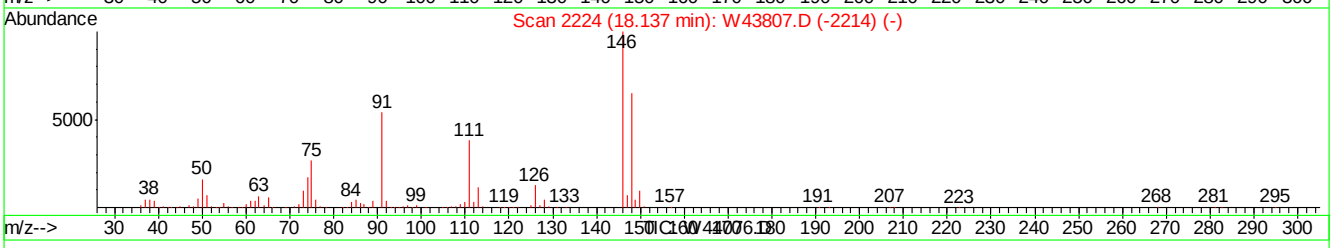
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:41 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Multiple Level Calibration







(96) m-DICHLOROBENZENE

18.19min 0.10PPBV

response 4454

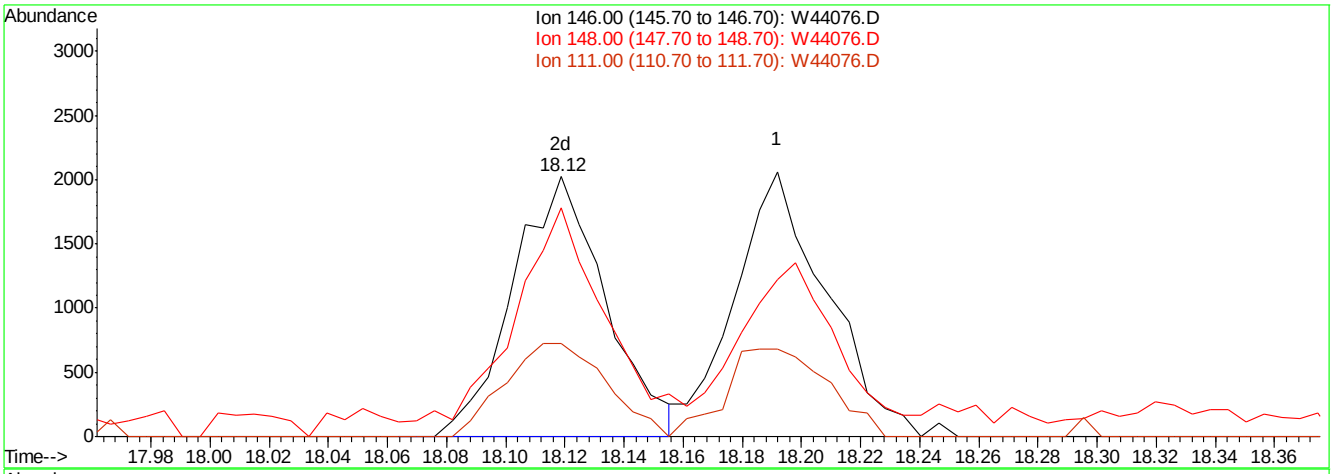
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	70.95
111.00	35.50	36.80
0.00	0.00	0.00

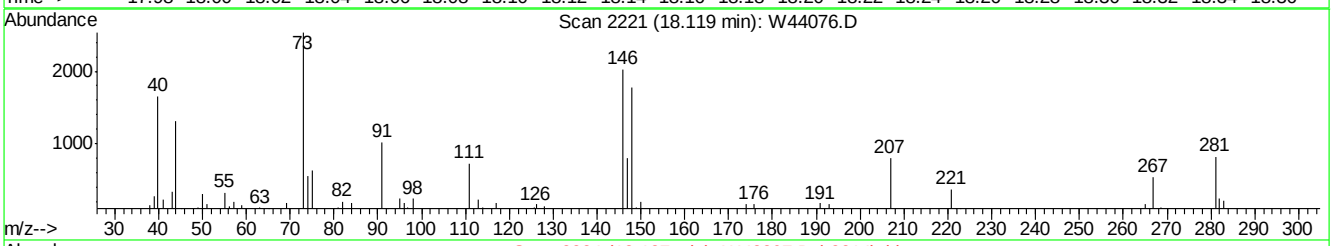
W44076.D MW1765.M Tue Oct 15 17:42:16 2013 MSW

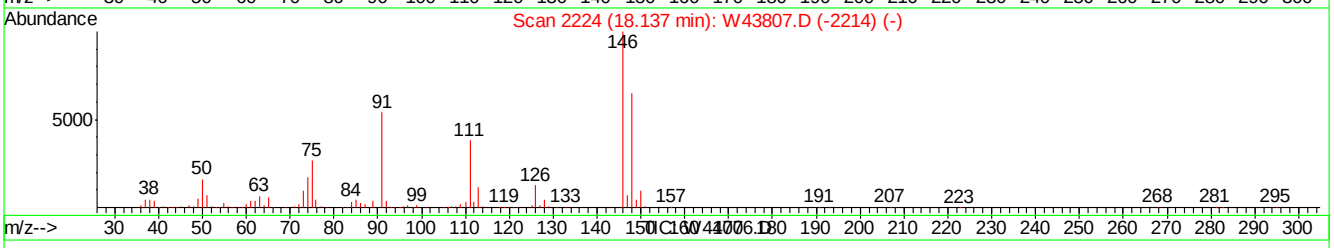
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44076.D Vial: 3
Acq On : 14 Oct 2013 7:42 pm Operator: danat
Sample : ic1765-0.1 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 17:42 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:39:13 2013
Response via : Multiple Level Calibration







(96) m-DICHLOROBENZENE

18.12min 0.10PPBV m

response 4423

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	71.44
111.00	35.50	37.06
0.00	0.00	0.00

W44076.D MW1765.M Tue Oct 15 17:42:23 2013 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 10/18/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27:03 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.80	128	257782	10.00	PPBV	0.03
50) 1,4-DIFLUOROBENZENE	10.56	114	1332577	10.00	PPBV	0.02
69) CHLOROBENZENE-D5	14.89	82	565963	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.53	95	677871	10.31	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 103.10%

Target Compounds						Qvalue
3) FREON 152A	4.71	65	4897	0.25	PPBV #	81
4) CHLORODIFLUOROMETHANE	4.76	67	1856m	0.25	PPBV	
5) DICHLORODIFLUOROMETHANE	4.84	85	14813	0.20	PPBV	97
6) PROPYLENE	4.79	41	7161	0.29	PPBV	91
7) FREON 114	5.07	85	15415	0.20	PPBV	95
8) CHLOROMETHANE	4.98	52	2177m	0.24	PPBV	
9) VINYL CHLORIDE	5.19	62	6304	0.20	PPBV	97
10) 1,3-BUTADIENE	5.30	54	5461	0.22	PPBV	93
11) n-BUTANE	5.35	58	1477	0.22	PPBV #	95
12) BROMOMETHANE	5.54	94	5730	0.19	PPBV	94
13) CHLOROETHANE	5.68	64	3567	0.20	PPBV	97
14) DICHLOROFLUOROMETHANE	5.74	67	13411	0.20	PPBV #	89
15) ACROLEIN	6.08	56	3597m	0.28	PPBV	
16) FREON 123	6.07	83	14305	0.20	PPBV #	69
17) FREON 123A	6.12	117	9017	0.19	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.30	101	14872	0.20	PPBV	99
19) ISOPROPYL ALCOHOL	6.49	45	9363	0.20	PPBV	78
20) ACETONE	6.19	58	5793	0.34	PPBV #	82
21) ACRYLONITRILE	6.57	53	5160	0.22	PPBV	95
22) PENTANE	6.58	57	1827m	0.20	PPBV	
24) IODOMETHANE	6.80	142	16112	0.19	PPBV	98
25) 1,1-DICHLOROETHYLENE	6.84	96	6357	0.20	PPBV	95
26) CARBON DISULFIDE	7.22	76	17910	0.19	PPBV	98
27) ETHANOL	5.86	45	2914m	0.23	PPBV	
28) ACETONITRILE	5.97	41	5691m	0.24	PPBV	
29) BROMOETHENE	5.97	106	5981	0.19	PPBV #	96
30) METHYLENE CHLORIDE	6.93	84	11430	0.34	PPBV	97
31) 3-CHLOROPROPENE	7.04	76	2500	0.17	PPBV #	55
32) FREON 113	7.14	151	11633	0.20	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.73	96	6473	0.19	PPBV	97
34) TERTIARY BUTYL ALCOHOL	7.04	59	7843m	0.17	PPBV	
35) METHYL TERTIARY BUTYL ETHE	7.98	73	16411	0.18	PPBV	76
36) TETRAHYDROFURAN	9.39	72	3157	0.19	PPBV #	83
37) HEXANE	8.81	57	11758	0.22	PPBV	97
38) VINYL ACETATE	8.03	86	1388	0.17	PPBV #	1
39) 1,1-DICHLOROETHANE	7.91	63	11233	0.19	PPBV	96
40) METHYL ETHYL KETONE	8.28	72	3071	0.19	PPBV #	68
41) cis-1,2-DICHLOROETHYLENE	8.65	96	6638	0.20	PPBV	92
42) DI-ISOPROPYL ETHER	8.82	45	20929	0.18	PPBV	97
43) ETHYL ACETATE	8.84	61	1672	0.16	PPBV #	1
44) METHYL ACRYLATE	8.83	55	10268	0.18	PPBV	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27:03 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.91	83	12271	0.19	PPBV		95
46)	2,4-DIMETHYLPENTANE	9.61	57	12479	0.20	PPBV		95
47)	1,1,1-TRICHLOROETHANE	9.82	97	11211	0.17	PPBV		96
48)	CARBON TETRACHLORIDE	10.39	117	10145	0.16	PPBV		99
49)	1,2-DICHLOROETHANE	9.59	62	7271	0.19	PPBV		99
51)	BENZENE	10.25	78	20987	0.20	PPBV		100
52)	CYCLOHEXANE	10.51	84	10187	0.21	PPBV	#	68
53)	2,3-DIMETHYLPENTANE	10.71	71	5100	0.21	PPBV		95
54)	TRICHLOROETHYLENE	11.24	95	8827	0.20	PPBV		93
55)	DIBROMOMETHANE	11.01	174	8747	0.19	PPBV		94
56)	1,2-DICHLOROPROPANE	11.03	63	7076	0.18	PPBV		99
57)	ETHYL ACRYLATE	11.03	55	12826	0.19	PPBV	#	91
58)	BROMODICHLOROMETHANE	11.21	83	11979	0.18	PPBV		96
59)	2,2,4-TRIMETHYLPENTANE	11.25	57	32168	0.19	PPBV		97
60)	1,4-DIOXANE	11.49	88	2177	0.11	PPBV	#	1
61)	METHYL METHACRYLATE	11.45	69	6523	0.18	PPBV	#	78
62)	HEPTANE	11.49	43	11857	0.20	PPBV		97
64)	METHYL ISOBUTYL KETONE	12.19	43	9072	0.14	PPBV		86
65)	cis-1,3-DICHLOROPROPENE	12.08	75	9790	0.17	PPBV		93
66)	TOLUENE	13.06	92	14647	0.19	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.60	75	7482	0.15	PPBV		97
68)	1,1,2-TRICHLOROETHANE	12.78	83	6669	0.20	PPBV		98
70)	ETHYL METHACRYLATE	13.34	69	9130	0.17	PPBV	#	97
71)	2-HEXANONE	13.40	43	8420	0.16	PPBV		93
72)	TETRACHLOROETHYLENE	14.21	164	10012	0.19	PPBV		97
73)	DIBROMOCHLOROMETHANE	13.50	129	11217	0.16	PPBV		98
74)	1,2-DIBROMOETHANE	13.76	107	9089	0.16	PPBV		97
75)	OCTANE	14.03	43	14495	0.18	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.92	131	8174	0.16	PPBV	#	100
77)	CHLOROBENZENE	14.94	112	17830	0.19	PPBV		94
78)	ETHYLBENZENE	15.32	91	28636	0.19	PPBV		99
79)	m,p-XYLENE	15.51	106	21768	0.37	PPBV		98
80)	o-XYLENE	16.03	106	10339	0.19	PPBV		98
81)	STYRENE	15.91	104	15374	0.19	PPBV		97
82)	1,2,3-TRICHLOROPROPANE	16.17	75	9628	0.18	PPBV		99
83)	NONANE	16.23	43	12667	0.18	PPBV		96
84)	BROMOFORM	15.62	173	9260	0.15	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	12513	0.19	PPBV		100
87)	ISOPROPYLBENZENE	16.67	105	30721	0.19	PPBV		98
88)	BROMOBENZENE	16.79	156	9034	0.19	PPBV		95
89)	2-CHLOROTOLUENE	17.20	126	6979	0.19	PPBV	#	98
90)	n-PROPYLBENZENE	17.23	120	7599	0.19	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	24059	0.19	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	21920	0.20	PPBV		96
93)	ALPHA-METHYLSTYRENE	17.66	118	9500	0.19	PPBV		96
94)	TERT-BUTYLBENZENE	17.94	134	5858	0.19	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	19351	0.19	PPBV		94
96)	m-DICHLOROBENZENE	18.12	146	11485	0.20	PPBV		96
97)	BENZYL CHLORIDE	18.11	91	9189	0.17	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27:03 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

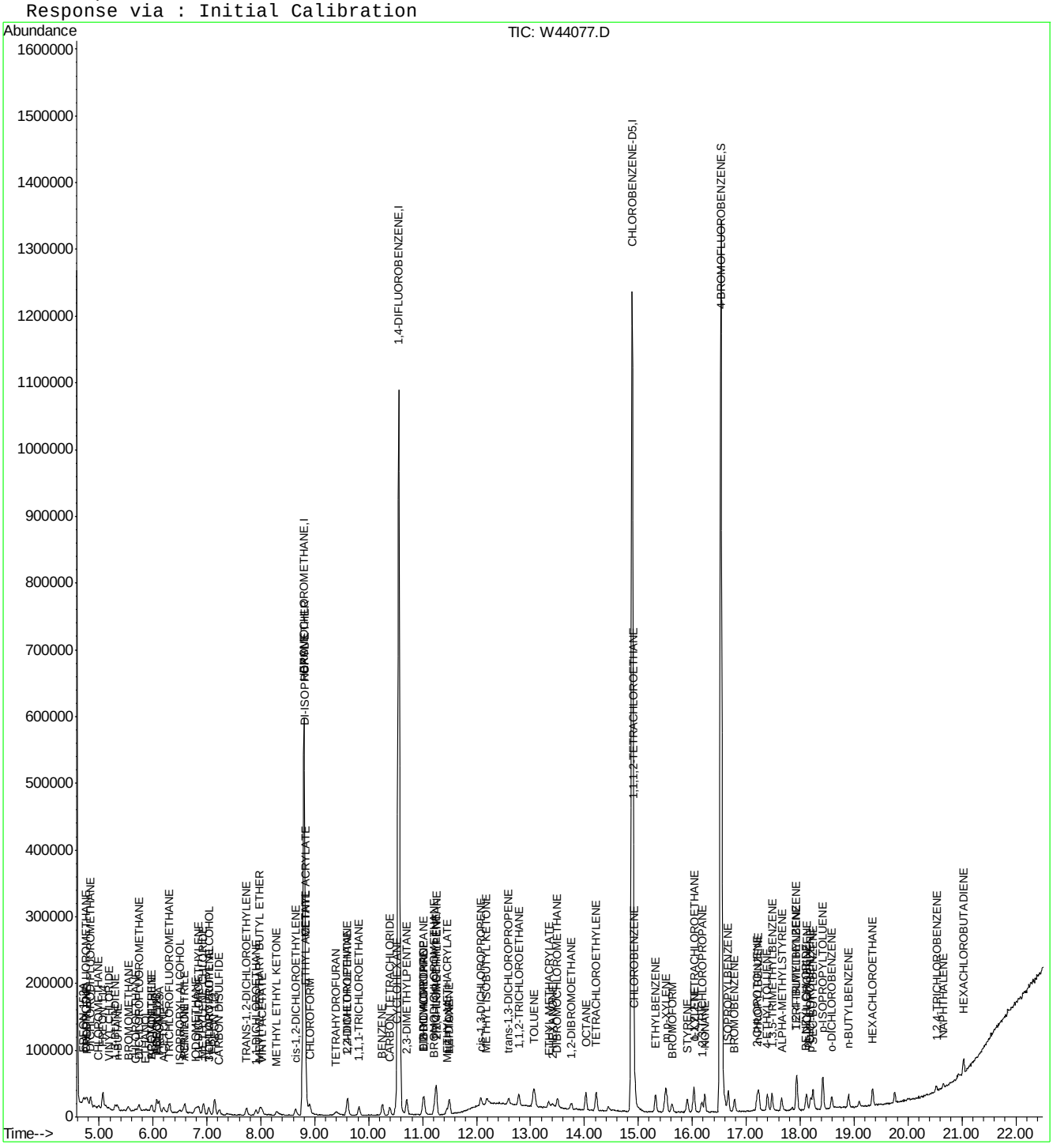
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	11131	0.20	PPBV	97
99)	SEC-BUTYLBENZENE	18.24	134	6400	0.20	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.41	134	6574	0.22	PPBV	95
101)	o-DICHLOROBENZENE	18.59	146	10666	0.20	PPBV	92
102)	n-BUTYLBENZENE	18.90	134	4507	0.22	PPBV	98
103)	HEXACHLOROETHANE	19.35	201	5513	0.14	PPBV	90
104)	HEXACHLOROBUTADIENE	21.03	225	5656	0.35	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	2910	0.31	PPBV	93
106)	NAPHTHALENE	20.65	128	6701	0.36	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:17 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Initial Calibration



Manual Integration Approval Summary

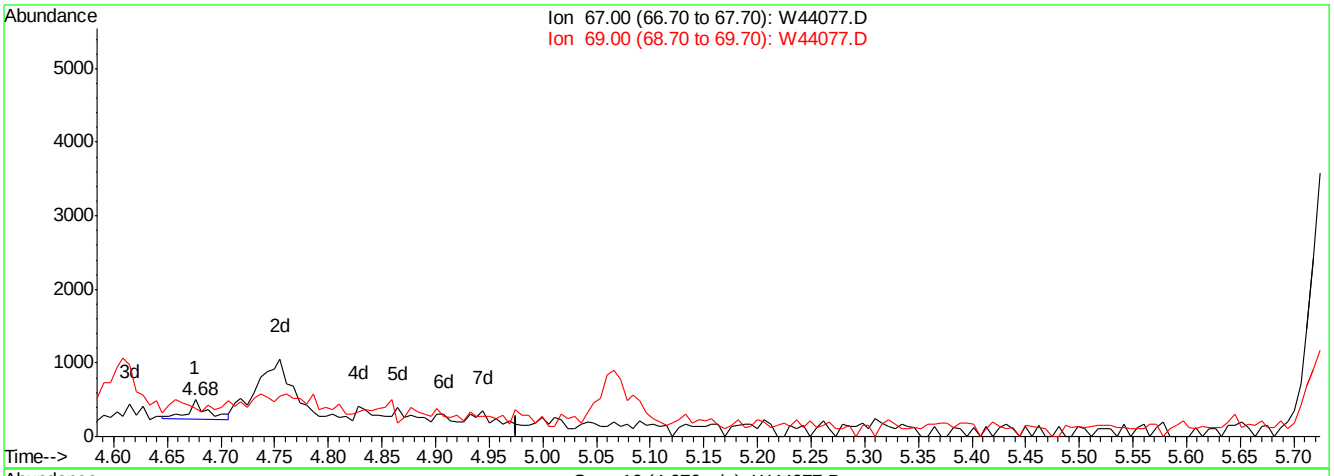
Sample Number:	VW1765-IC1765	**Method:**	TO-15
Lab FileID:	W44077.D	**Analyst approved:**	10/18/13 09:25 Dana Tryon
Injection Time:	10/15/13 08:51	**Supervisor approved:**	10/18/13 14:19 Jessica Reitan-Chu

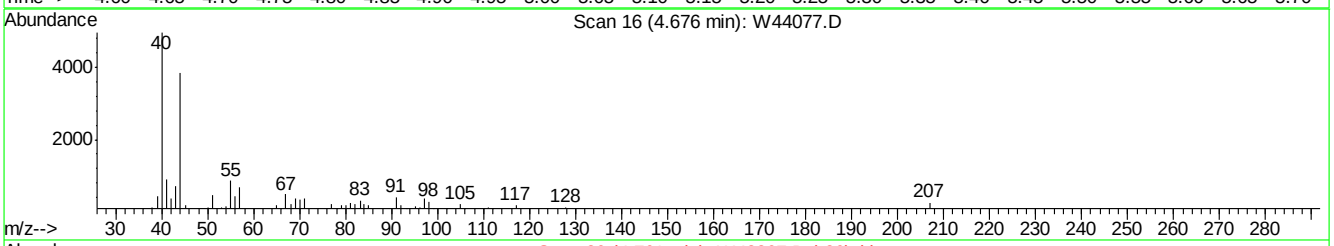
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		4.76	Missed peak
Chloromethane	74-87-3		4.98	Missed peak
Ethanol	64-17-5		5.86	Missed peak
Acetonitrile	75-05-8		5.97	Missed peak
Acrolein	107-02-8		6.08	Missed peak
Pentane	109-66-0		6.58	Missed peak
Tertiary Butyl Alcohol	75-65-0		7.04	Missed peak

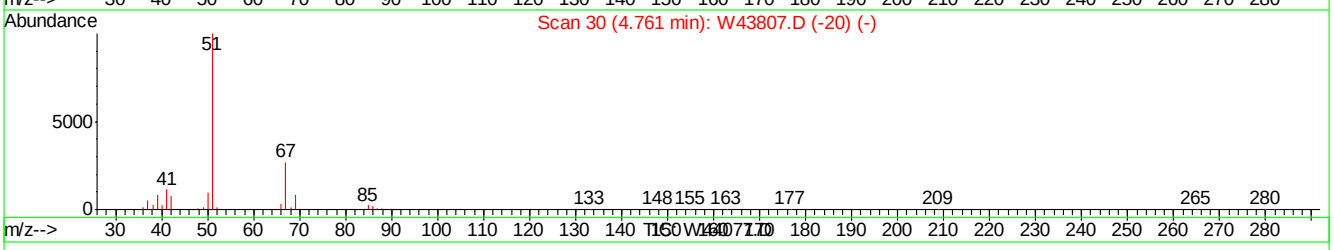
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(4) CHLORODIFLUOROMETHANE

4.68min 0.04PPBV

response 318

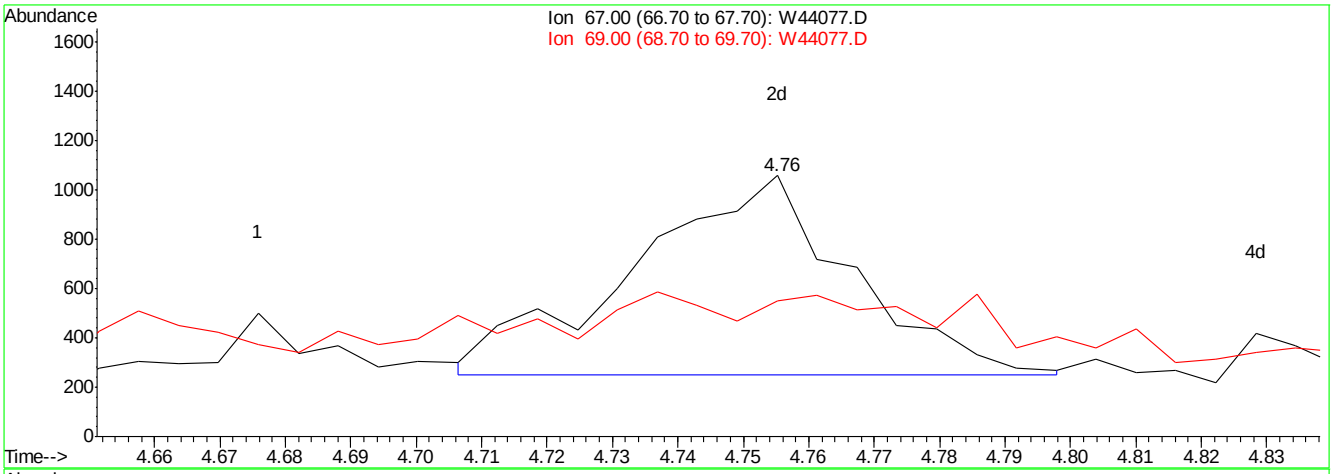
Ion	Exp%	Act%
67.00	100	100
69.00	33.10	72.96#
0.00	0.00	0.00
0.00	0.00	0.00

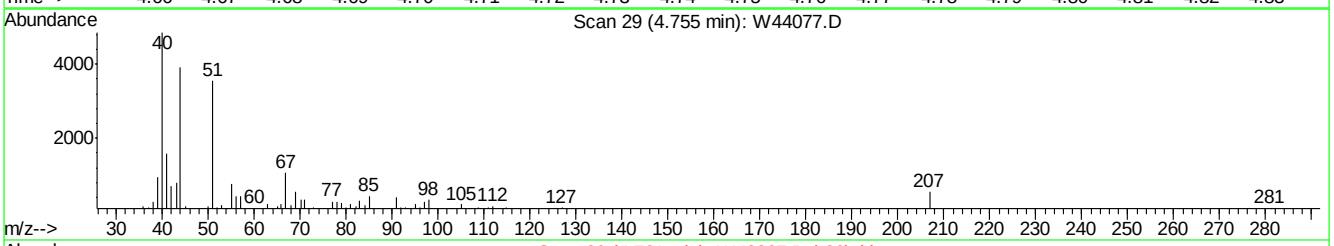
W44077.D MW1765.M Tue Oct 15 11:27:23 2013 MSW

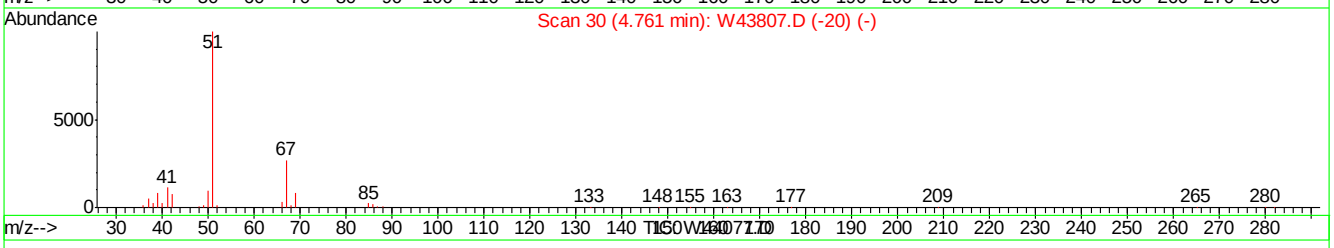
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(4) CHLORODIFLUOROMETHANE

4.76min 0.25PPBV m

response 1856

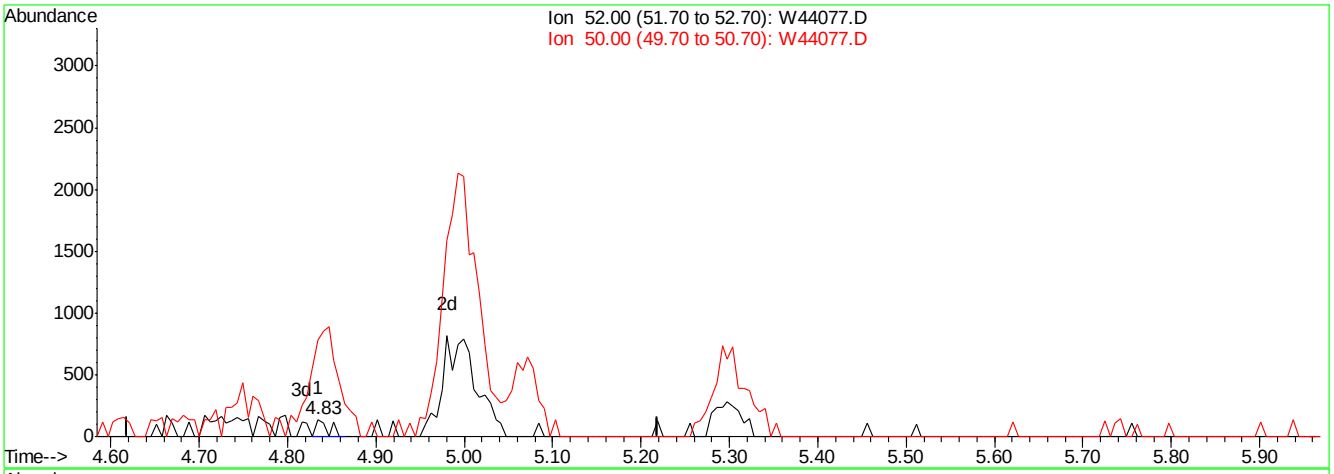
Ion	Exp%	Act%
67.00	100	100
69.00	33.10	12.50#
0.00	0.00	0.00
0.00	0.00	0.00

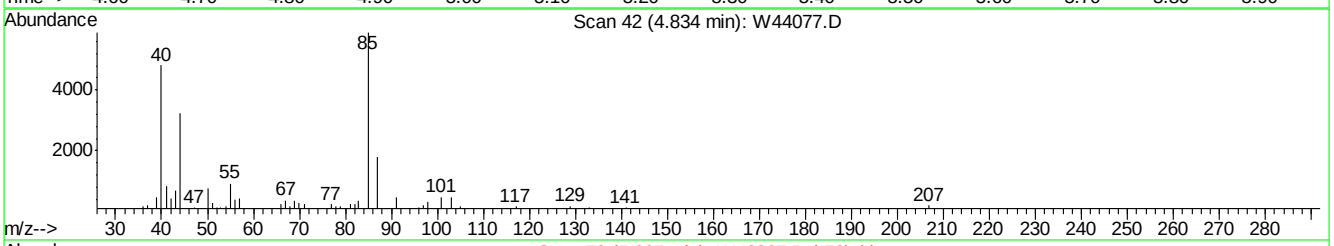
W44077.D MW1765.M Tue Oct 15 11:27:46 2013 MSW

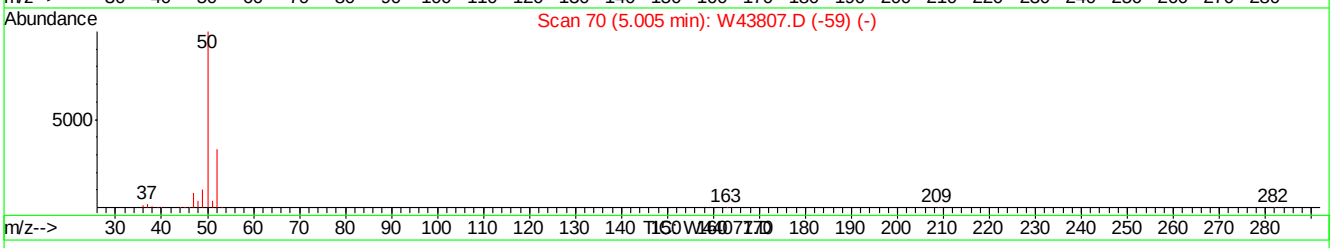
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.83min 0.02PPBV

response 134

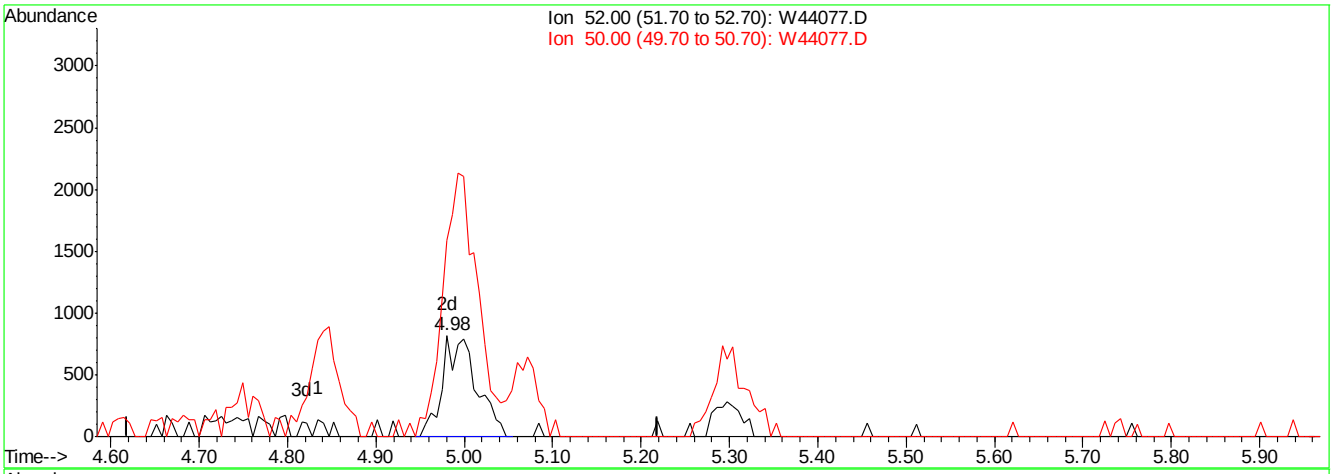
Ion	Exp%	Act%
52.00	100	100
50.00	263.60	268.98
0.00	0.00	0.00
0.00	0.00	0.00

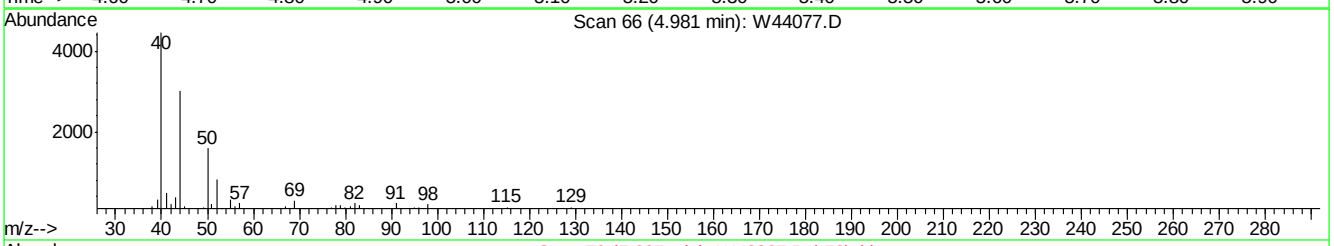
W44077.D MW1765.M Tue Oct 15 11:27:54 2013 MSW

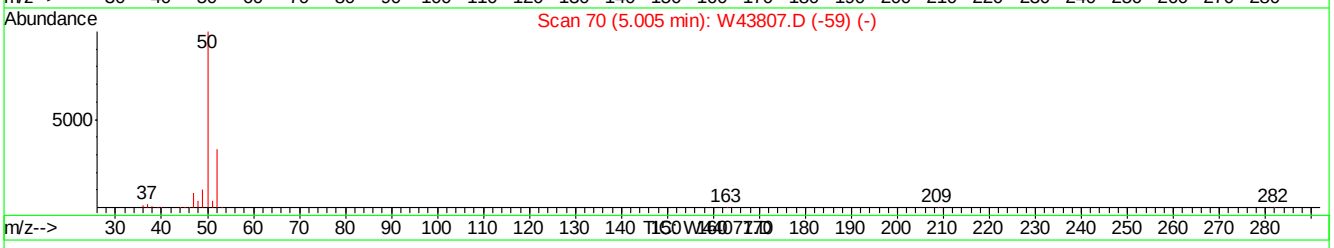
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.98min 0.24PPBV m

response 2177

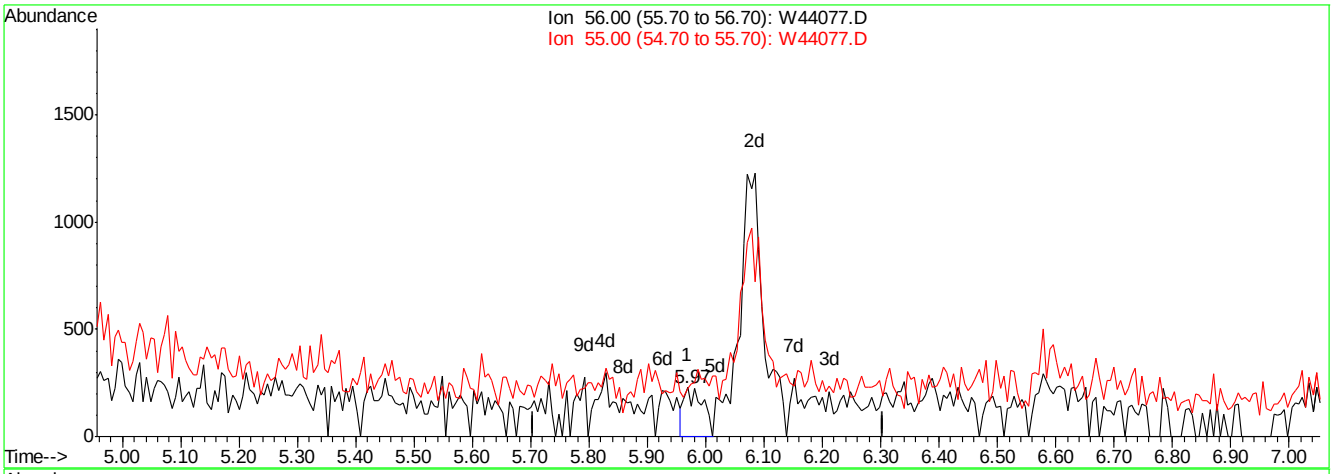
Ion	Exp%	Act%
52.00	100	100
50.00	263.60	194.37#
0.00	0.00	0.00
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:28:00 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:27 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(15) ACROLEIN

5.97min 0.04PPBV

response 494

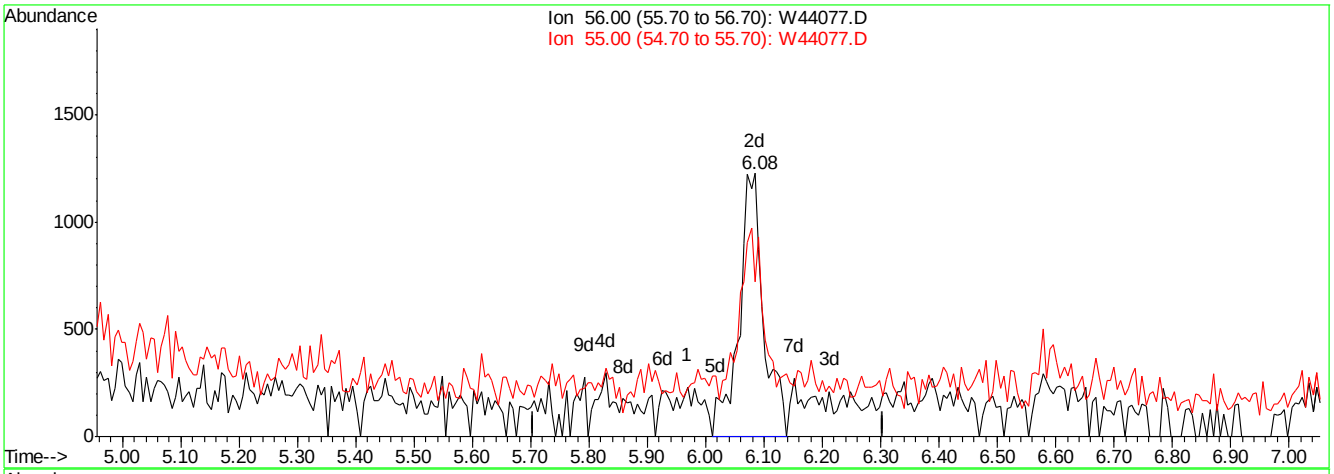
Ion	Exp%	Act%
56.00	100	100
55.00	71.00	61.54
0.00	0.00	0.00
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:28:13 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:28 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(15) ACROLEIN

6.08min 0.28PPBV m

response 3597

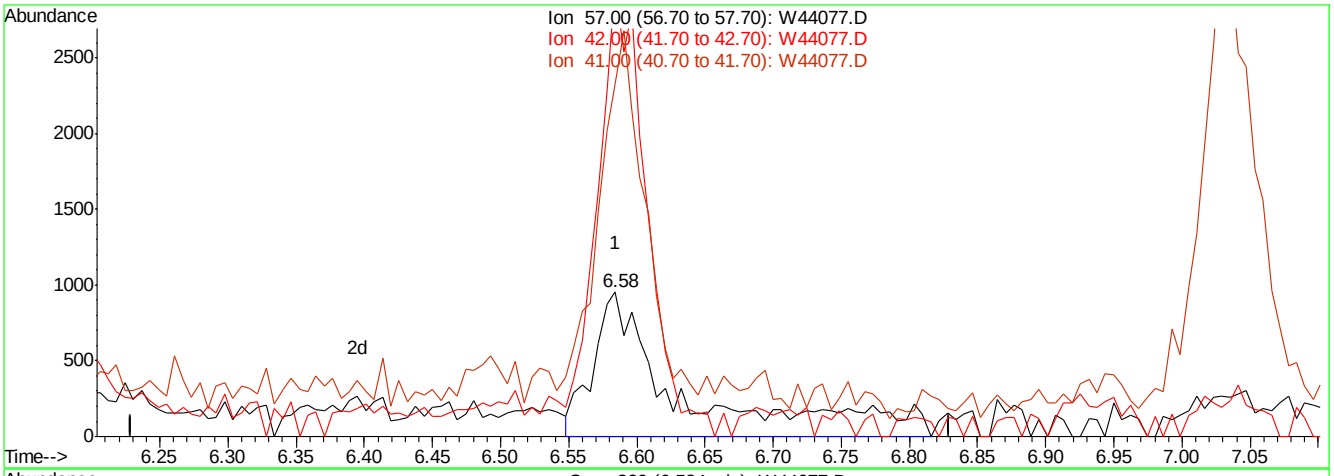
Ion	Exp%	Act%
56.00	100	100
55.00	71.00	8.45#
0.00	0.00	0.00
0.00	0.00	0.00

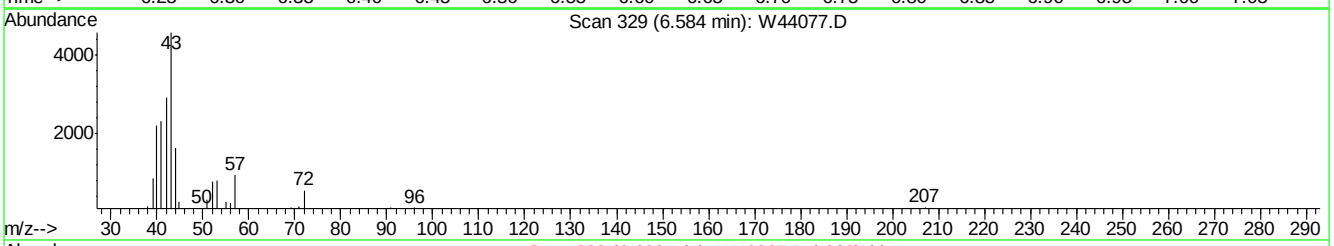
W44077.D MW1765.M Tue Oct 15 11:28:20 2013 MSW

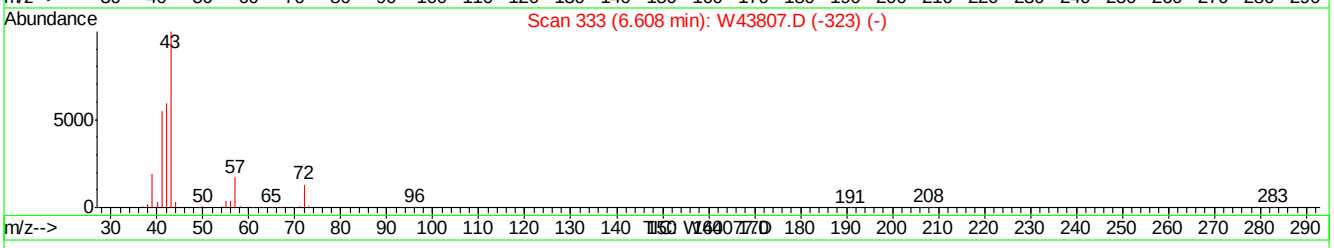
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:28 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(22) PENTANE

6.58min 0.47PPBV

response 4296

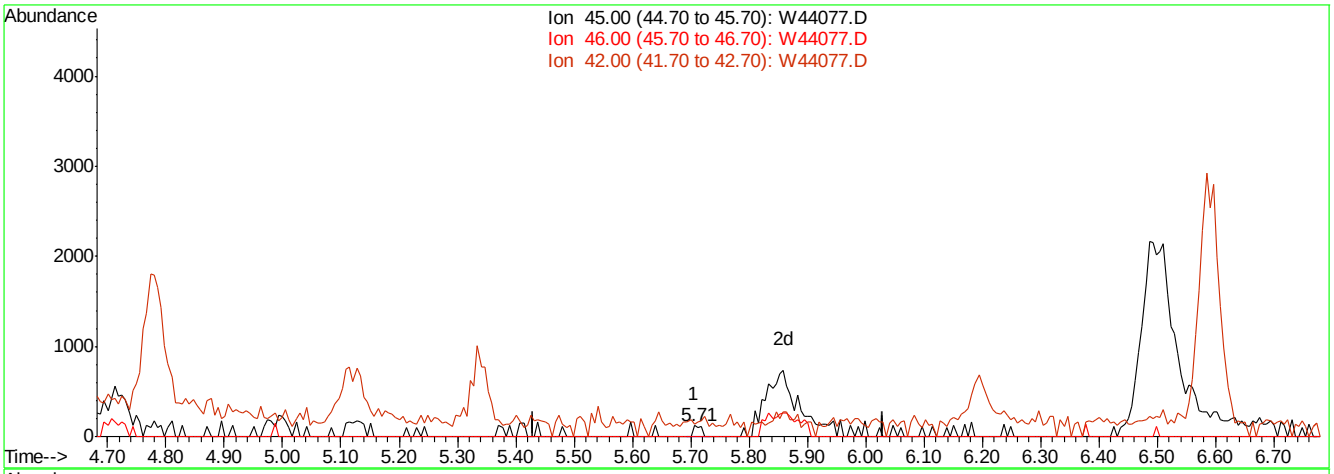
Ion	Exp%	Act%
57.00	100	100
42.00	372.70	178.56#
41.00	306.00	139.20#
0.00	0.00	0.00

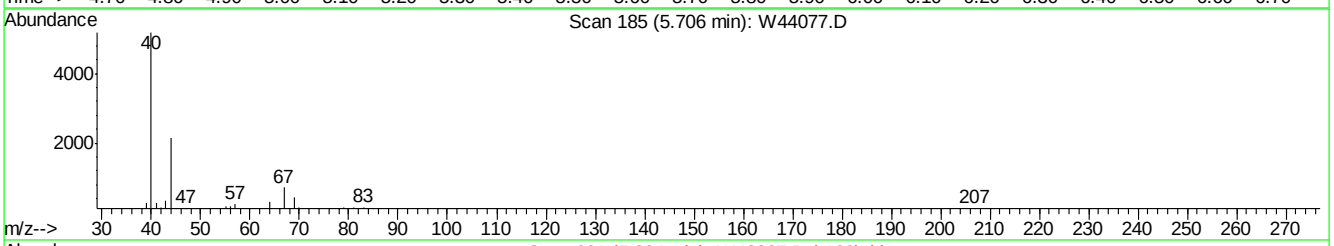
W44077.D MW1765.M Tue Oct 15 11:28:38 2013 MSW

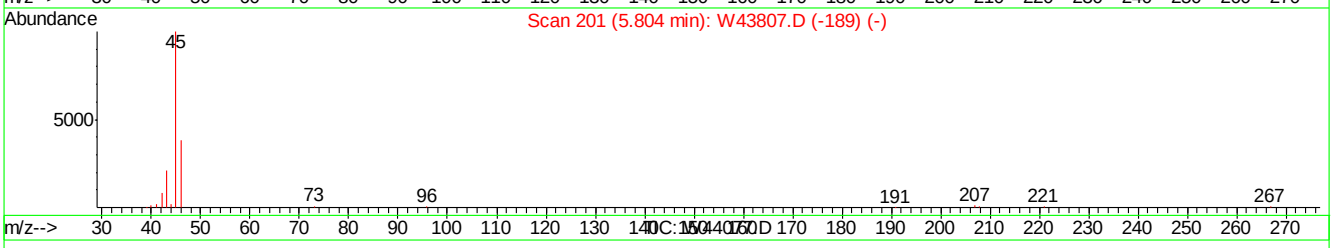
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:28 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(27) ETHANOL

5.71min 0.01PPBV

response 122

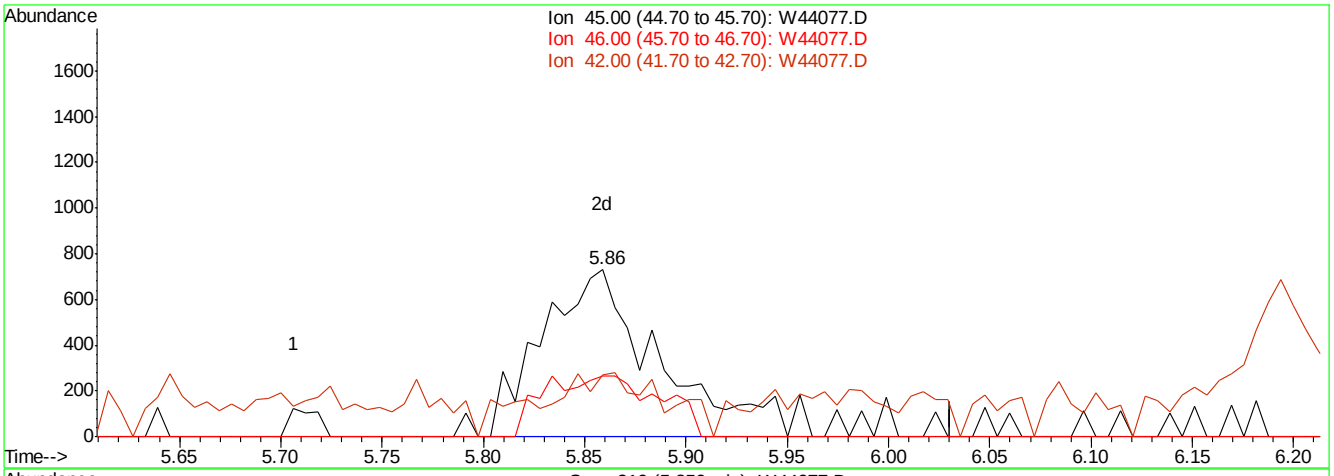
Ion	Exp%	Act%
45.00	100	100
46.00	38.30	0.00#
42.00	7.70	159.02#
0.00	0.00	0.00

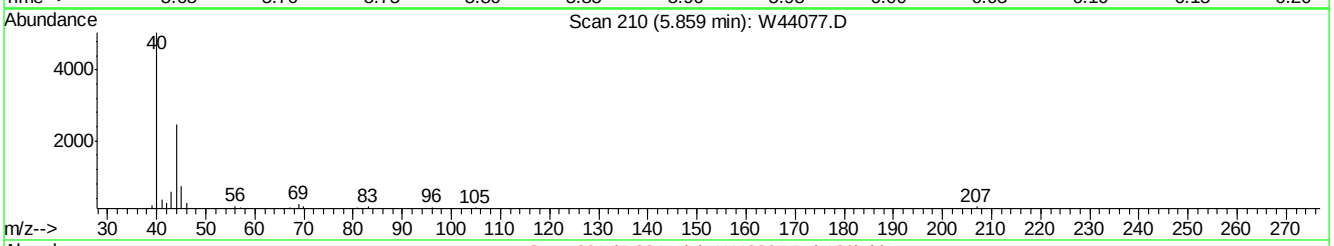
W44077.D MW1765.M Tue Oct 15 11:28:56 2013 MSW

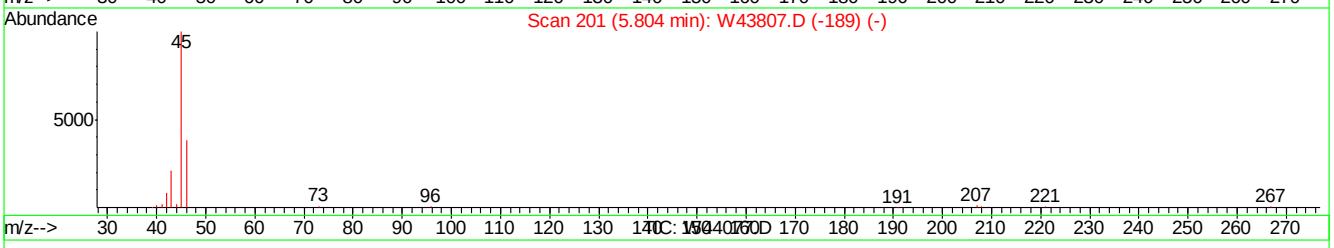
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(27) ETHANOL

5.86min 0.23PPBV m

response 2914

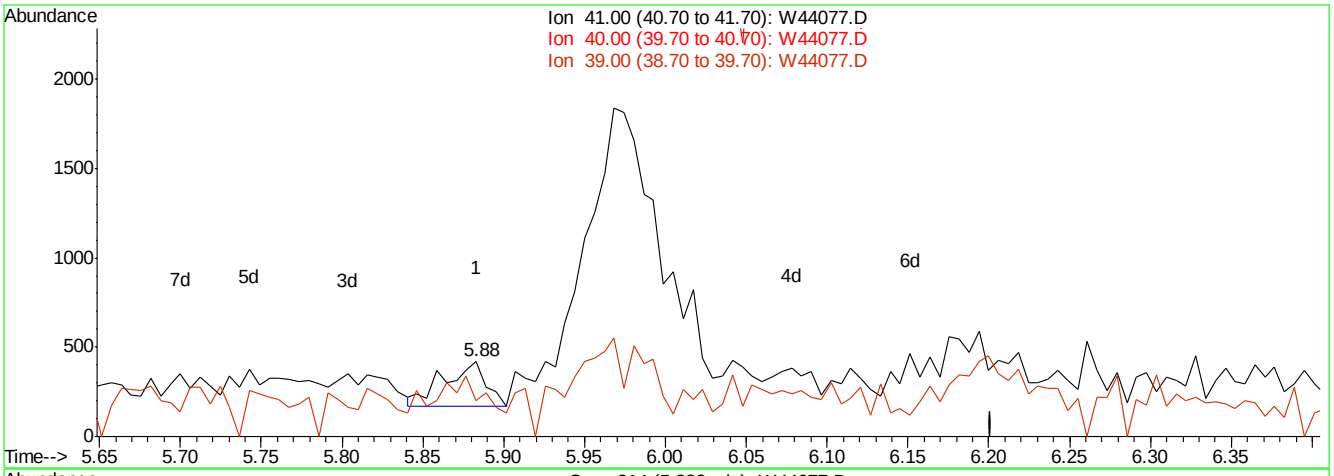
Ion	Exp%	Act%
45.00	100	100
46.00	38.30	0.00#
42.00	7.70	6.66
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:29:03 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(28) ACETONITRILE

5.88min 0.02PPBV

response 447

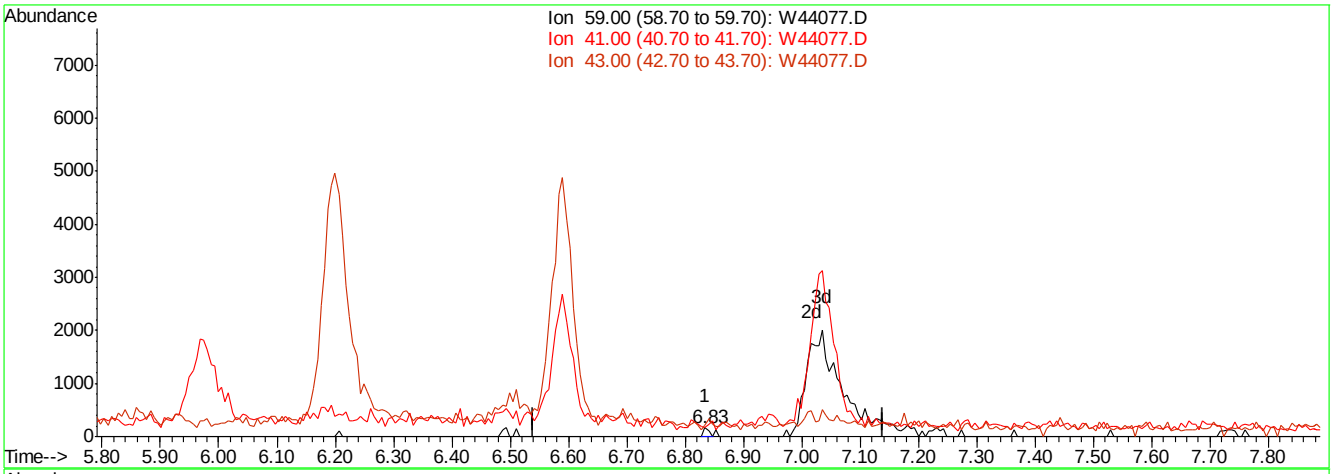
Ion	Exp%	Act%
41.00	100	100
40.00	51.00	0.00#
39.00	19.00	78.75#
0.00	0.00	0.00

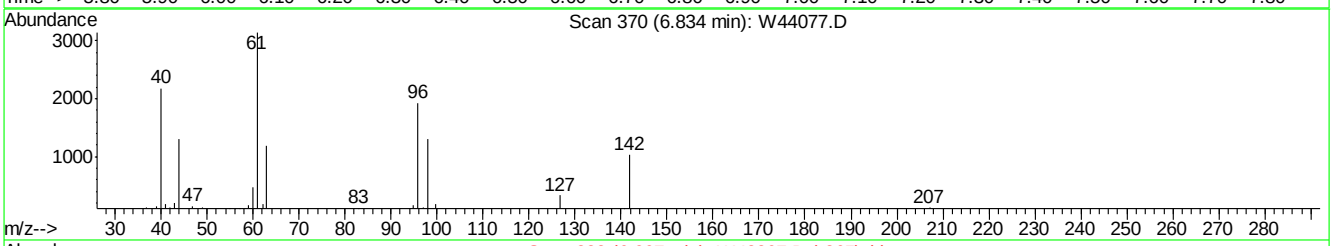
W44077.D MW1765.M Tue Oct 15 11:29:08 2013 MSW

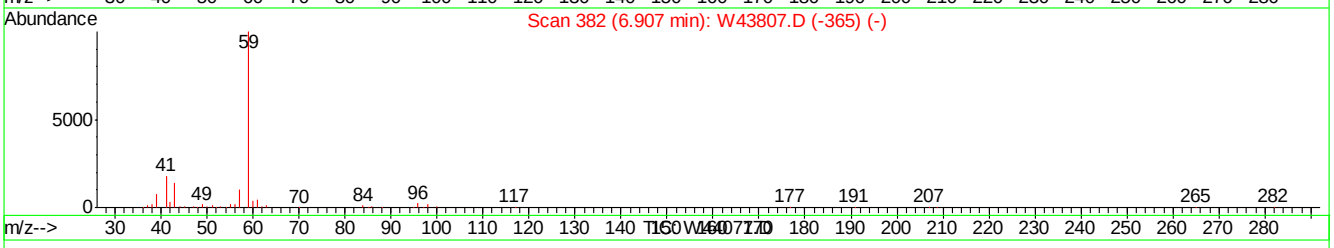
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration







(34) TERTIARY BUTYL ALCOHOL

6.83min 0.00PPBV

response 100

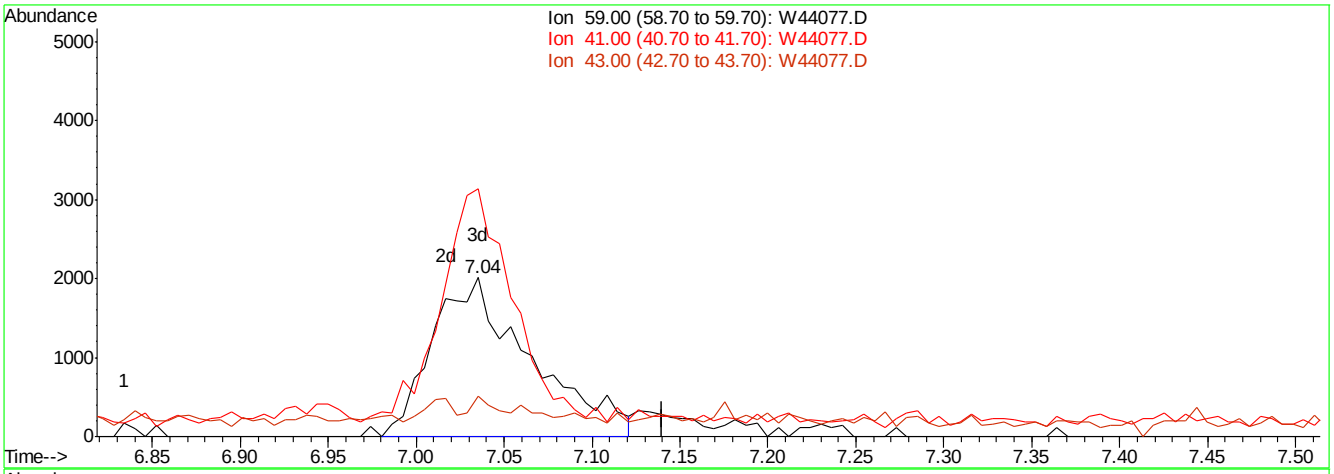
Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	0.00
0.00	0.00	0.00

W44077.D MW1765.M Tue Oct 15 11:29:23 2013 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:29 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:26:58 2013
Response via : Multiple Level Calibration



(34) TERTIARY BUTYL ALCOHOL

7.04min 0.17PPBV m

response 7843

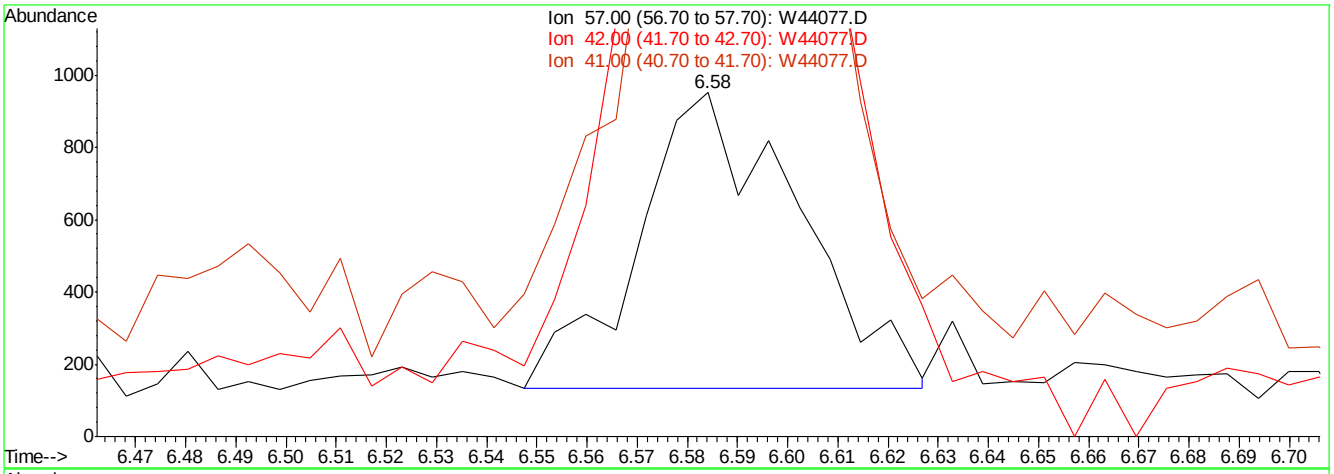
Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	0.00
0.00	0.00	0.00

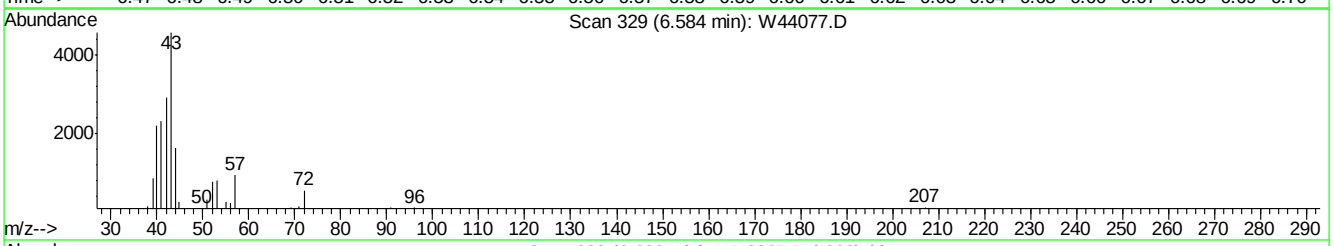
W44077.D MW1765.M Tue Oct 15 11:29:30 2013 MSW

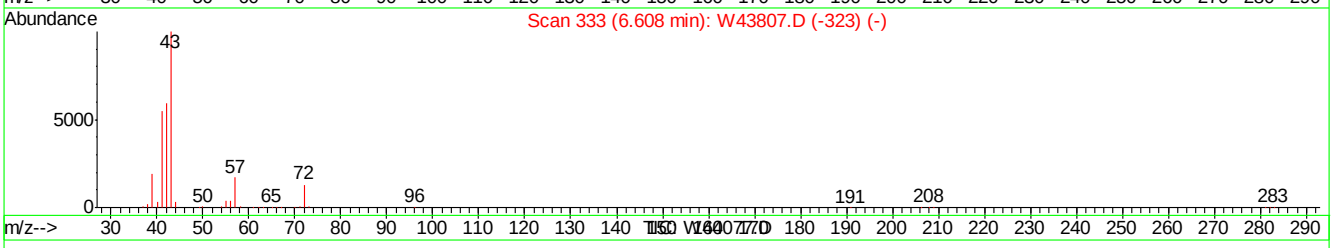
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:16 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Multiple Level Calibration







(22) PENTANE

6.58min 0.20PPBV m

response 1827

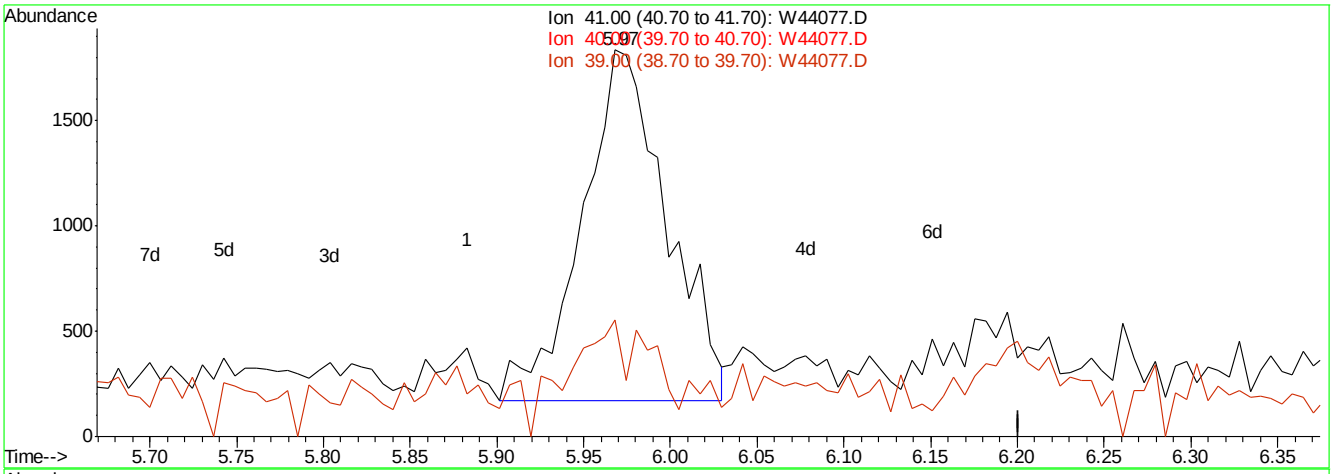
Ion	Exp%	Act%
57.00	100	100
42.00	372.70	419.87#
41.00	306.00	327.31#
0.00	0.00	0.00

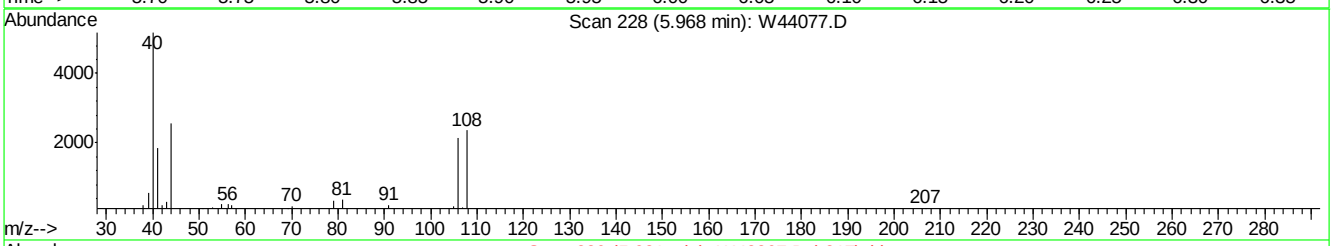
W44077.D MW1765.M Fri Oct 18 09:16:34 2013 MSW

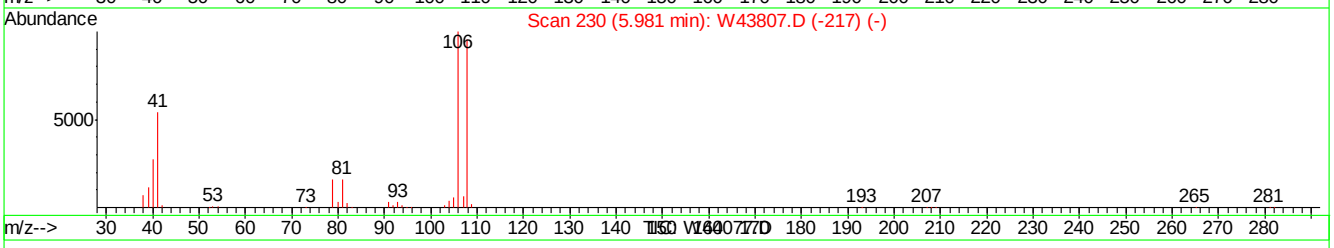
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44077.D Vial: 3
Acq On : 15 Oct 2013 8:51 am Operator: danat
Sample : ic1765-0.2 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:17 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Oct 16 11:44:46 2013
Response via : Multiple Level Calibration







(28) ACETONITRILE

5.97min 0.24PPBV m

response 5691

Ion	Exp%	Act%
41.00	100	100
40.00	51.00	0.00#
39.00	19.00	6.19#
0.00	0.00	0.00

W44077.D MW1765.M Fri Oct 18 09:17:07 2013 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 10/18/13 14:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:22:34 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	205578	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1013788	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	416406	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.53	95	441761	8.75	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 87.50%

Target Compounds						Qvalue
3) FREON 152A	4.65	65	7432	0.47	PPBV #	87
4) CHLORODIFLUOROMETHANE	4.68	67	3184	0.55	PPBV	88
5) DICHLORODIFLUOROMETHANE	4.78	85	28266	0.46	PPBV	98
6) PROPYLENE	4.71	41	9913	0.51	PPBV	96
7) FREON 114	5.00	85	28881	0.46	PPBV	99
8) CHLOROMETHANE	4.93	52	3541	0.50	PPBV #	87
9) VINYL CHLORIDE	5.11	62	11921	0.45	PPBV	99
10) 1,3-BUTADIENE	5.23	54	9294	0.46	PPBV	91
11) n-BUTANE	5.28	58	2585	0.46	PPBV #	91
12) BROMOMETHANE	5.47	94	11665	0.48	PPBV	96
13) CHLOROETHANE	5.62	64	6730	0.46	PPBV	97
14) DICHLOROFLUOROMETHANE	5.68	67	24622	0.46	PPBV	92
15) ACROLEIN	6.03	56	4820	0.47	PPBV	88
16) FREON 123	6.01	83	27230	0.47	PPBV #	98
17) FREON 123A	6.05	117	17804	0.47	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.25	101	27747	0.45	PPBV	98
19) ISOPROPYL ALCOHOL	6.41	45	18785	0.49	PPBV	79
20) ACETONE	6.15	58	7719	0.62	PPBV #	86
21) ACRYLONITRILE	6.52	53	8600	0.43	PPBV	95
22) PENTANE	6.54	57	3824	0.54	PPBV #	73
24) IODOMETHANE	6.74	142	30881	0.45	PPBV	97
25) 1,1-DICHLOROETHYLENE	6.79	96	12283	0.48	PPBV	94
26) CARBON DISULFIDE	7.18	76	35528	0.47	PPBV	97
27) ETHANOL	5.77	45	5369	0.56	PPBV	91
28) ACETONITRILE	5.92	41	9086	0.48	PPBV #	27
29) BROMOETHENE	5.92	106	11595	0.45	PPBV #	98
30) METHYLENE CHLORIDE	6.89	84	15400	0.63	PPBV	97
31) 3-CHLOROPROPENE	6.98	76	5355	0.44	PPBV #	72
32) FREON 113	7.10	151	21588	0.44	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.69	96	13279	0.49	PPBV	95
34) TERTIARY BUTYL ALCOHOL	6.96	59	14831m	0.36	PPBV	
35) METHYL TERTIARY BUTYL ETHE	7.94	73	34207	0.47	PPBV	94
36) TETRAHYDROFURAN	9.34	72	6020	0.45	PPBV	89
37) HEXANE	8.77	57	20291	0.46	PPBV	98
38) VINYL ACETATE	7.99	86	2843	0.41	PPBV #	90
39) 1,1-DICHLOROETHANE	7.87	63	22007	0.46	PPBV	99
40) METHYL ETHYL KETONE	8.25	72	6174	0.47	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.61	96	12571	0.45	PPBV	99
42) DI-ISOPROPYL ETHER	8.78	45	43061	0.46	PPBV	99
43) ETHYL ACETATE	8.82	61	3815	0.44	PPBV #	1
44) METHYL ACRYLATE	8.80	55	20511	0.42	PPBV	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:22:34 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	24676	0.47	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.58	57	22315	0.43	PPBV		95
47)	1,1,1-TRICHLOROETHANE	9.79	97	24699	0.46	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	23286	0.43	PPBV		98
49)	1,2-DICHLOROETHANE	9.56	62	14648	0.46	PPBV		97
51)	BENZENE	10.23	78	40072	0.49	PPBV		99
52)	CYCLOHEXANE	10.49	84	18394	0.49	PPBV	#	79
53)	2,3-DIMETHYLPENTANE	10.68	71	9210	0.49	PPBV		95
54)	TRICHLOROETHYLENE	11.23	95	15880	0.47	PPBV		98
55)	DIBROMOMETHANE	10.99	174	16819	0.46	PPBV		98
56)	1,2-DICHLOROPROPANE	11.00	63	14902	0.49	PPBV		98
57)	ETHYL ACRYLATE	11.00	55	22298	0.41	PPBV	#	96
58)	BROMODICHLOROMETHANE	11.19	83	24067	0.45	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	59918	0.45	PPBV		98
60)	1,4-DIOXANE	11.38	88	6413	0.41	PPBV	#	34
61)	METHYL METHACRYLATE	11.41	69	12776	0.45	PPBV		93
62)	HEPTANE	11.48	43	21562	0.46	PPBV		94
64)	METHYL ISOBUTYL KETONE	12.16	43	20601	0.40	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.06	75	20134	0.44	PPBV		92
66)	TOLUENE	13.05	92	27564	0.47	PPBV		98
67)	trans-1,3-DICHLOROPROPENE	12.58	75	16028	0.41	PPBV		95
68)	1,1,2-TRICHLOROETHANE	12.77	83	12565	0.47	PPBV		99
70)	ETHYL METHACRYLATE	13.32	69	18152	0.42	PPBV		98
71)	2-HEXANONE	13.37	43	15337	0.37	PPBV		98
72)	TETRACHLOROETHYLENE	14.21	164	19254	0.50	PPBV		98
73)	DIBROMOCHLOROMETHANE	13.49	129	23968	0.46	PPBV		98
74)	1,2-DIBROMOETHANE	13.75	107	19748	0.46	PPBV		99
75)	OCTANE	14.02	43	28084	0.48	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	18234	0.47	PPBV	#	95
77)	CHLOROBENZENE	14.92	112	33089	0.48	PPBV	#	82
78)	ETHYLBENZENE	15.31	91	53814	0.48	PPBV		99
79)	m,p-XYLENE	15.50	106	41011	0.93	PPBV		98
80)	o-XYLENE	16.02	106	19571	0.47	PPBV		98
81)	STYRENE	15.91	104	25826	0.41	PPBV		97
82)	1,2,3-TRICHLOROPROPANE	16.17	75	18059	0.44	PPBV		99
83)	NONANE	16.23	43	23833	0.43	PPBV		97
84)	BROMOFORM	15.62	173	21111	0.43	PPBV		98
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	22386	0.44	PPBV		98
87)	ISOPROPYLBENZENE	16.67	105	57223	0.47	PPBV		99
88)	BROMOBENZENE	16.78	156	15279	0.42	PPBV		94
89)	2-CHLOROTOLUENE	17.20	126	12374	0.43	PPBV	#	98
90)	n-PROPYLBENZENE	17.23	120	13247	0.42	PPBV		100
91)	4-ETHYLTOLUENE	17.39	105	39499	0.39	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	35071	0.41	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.66	118	14317	0.34	PPBV		95
94)	TERT-BUTYLBENZENE	17.93	134	10343	0.45	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	29911	0.37	PPBV	#	85
96)	m-DICHLOROBENZENE	18.12	146	16563	0.34	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	13087	0.27	PPBV		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:22:34 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

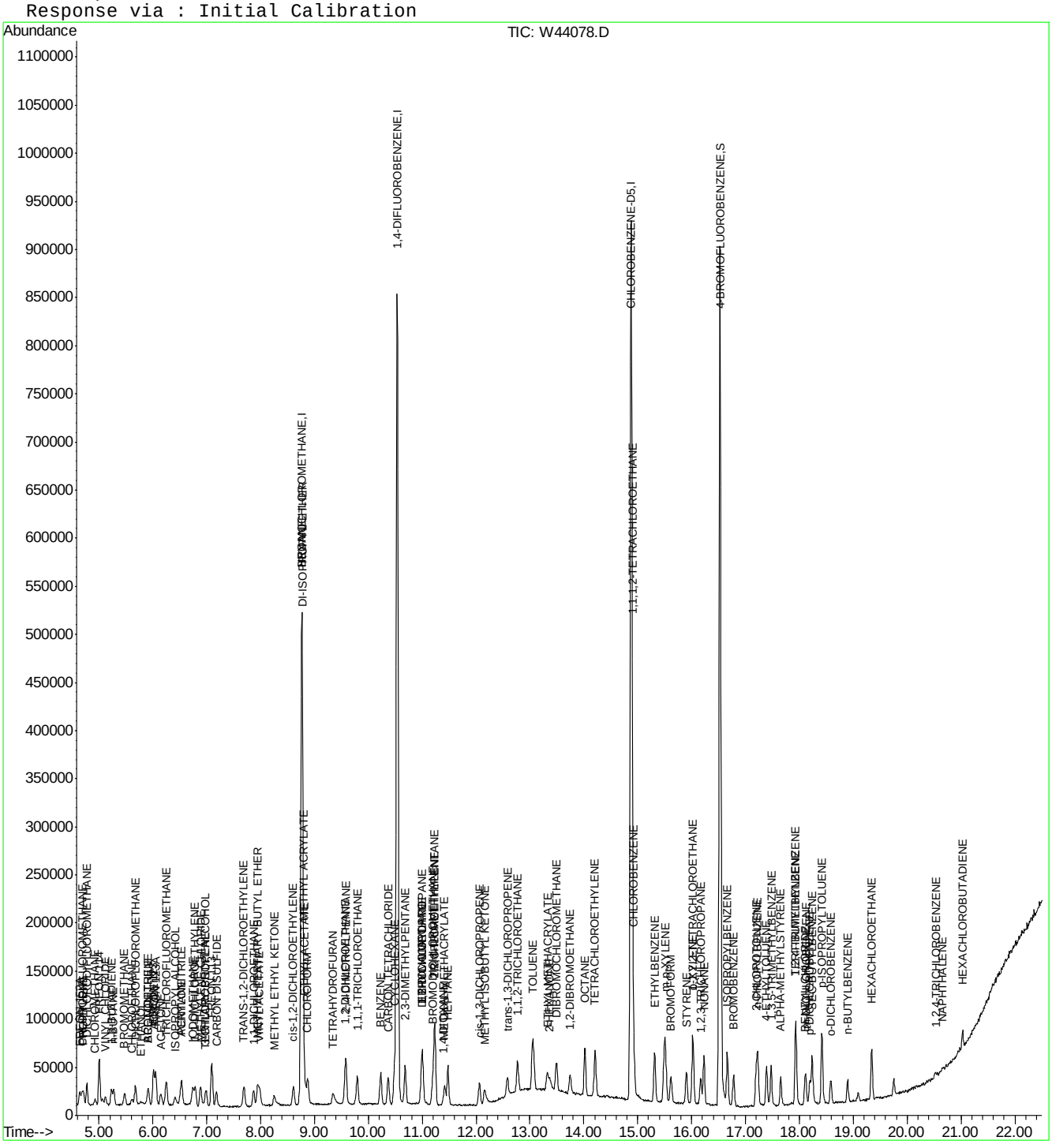
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
98)	p-DICHLOROBENZENE	18.19	146	15871	0.35	PPBV		95
99)	SEC-BUTYLBENZENE	18.23	134	9882	0.38	PPBV	#	92
100)	p-ISOPROPYLTOLUENE	18.42	134	8933	0.36	PPBV		93
101)	o-DICHLOROBENZENE	18.58	146	14999	0.35	PPBV		98
102)	n-BUTYLBENZENE	18.90	134	5573	0.32	PPBV		93
103)	HEXACHLOROETHANE	19.34	201	12890	0.41	PPBV		96
104)	HEXACHLOROBUTADIENE	21.03	225	5466	0.45	PPBV		85
105)	1,2,4-TRICHLOROBENZENE	20.53	180	2564	0.33	PPBV		89
106)	NAPHTHALENE	20.65	128	4876	0.31	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:24 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Manual Integration Approval Summary

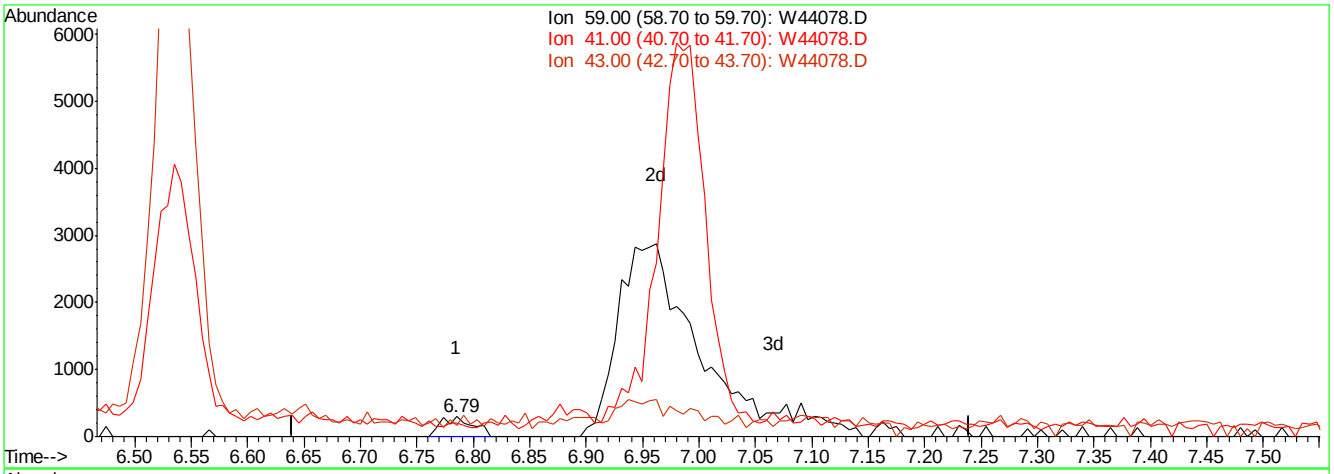
Sample Number:	VW1765-IC1765	**Method:**	TO-15
Lab FileID:	W44078.D	**Analyst approved:**	10/16/13 09:33 Dana Tryon
Injection Time:	10/15/13 09:30	**Supervisor approved:**	10/18/13 14:19 Jessica Reitan-Chu

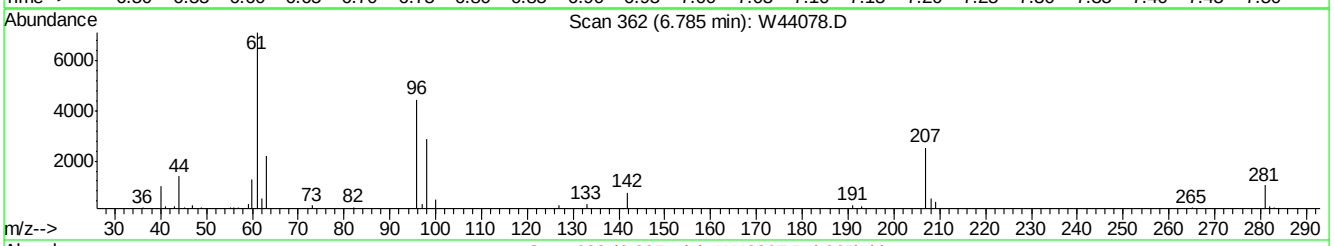
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tertiary Butyl Alcohol	75-65-0		6.96	Poor instrument integration

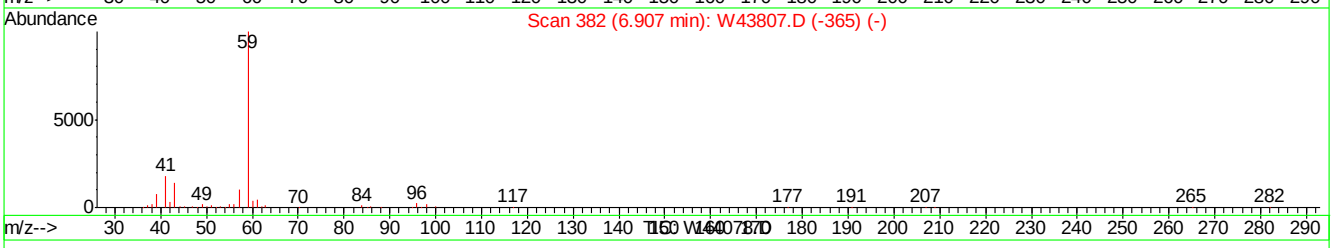
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:23 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Multiple Level Calibration







(34) TERTIARY BUTYL ALCOHOL

6.79min 0.01PPBV

response 579

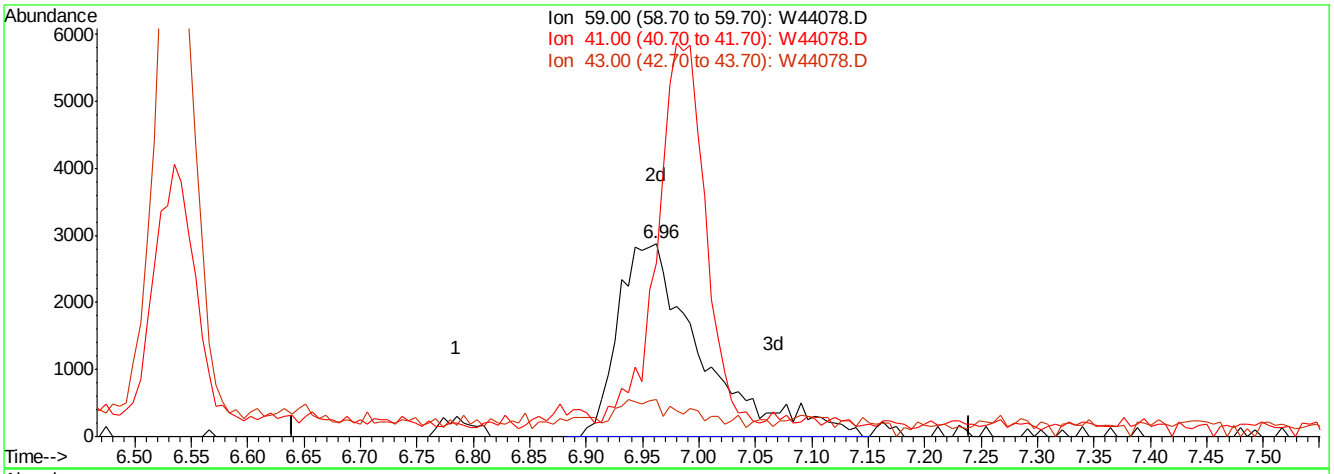
Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	19.34
0.00	0.00	0.00

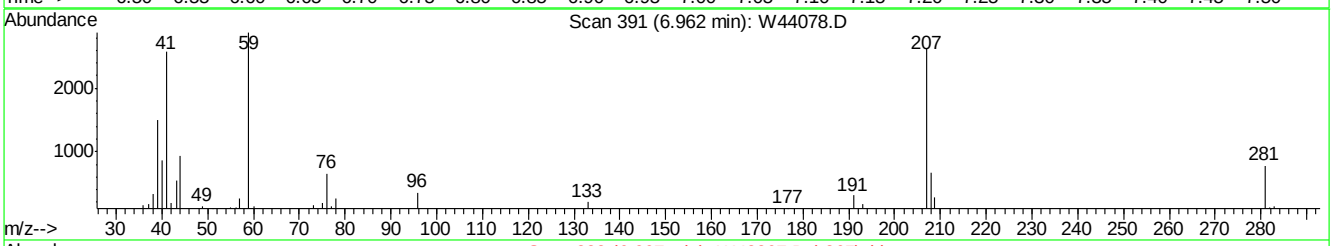
W44078.D MW1765.M Tue Oct 15 11:23:20 2013 MSW

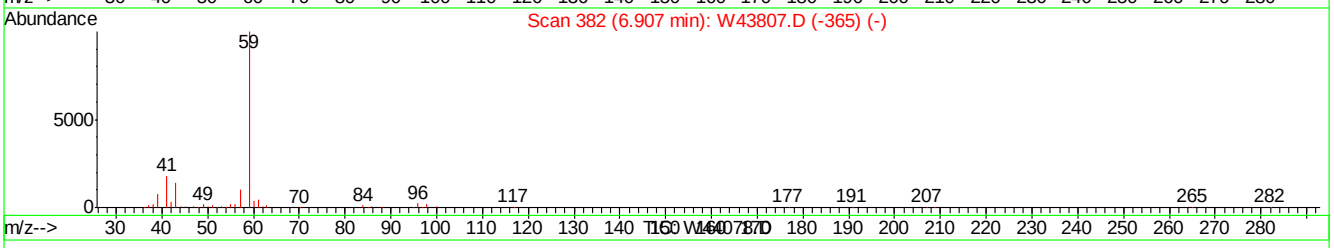
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W44078.D Vial: 3
Acq On : 15 Oct 2013 9:30 am Operator: danat
Sample : ic1765-0.5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:23 2013 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:22:21 2013
Response via : Multiple Level Calibration







(34) TERTIARY BUTYL ALCOHOL

6.96min 0.36PPBV m

response 14831

Ion	Exp%	Act%
59.00	100	100
41.00	21.40	0.00#
43.00	12.30	0.76
0.00	0.00	0.00

W44078.D MW1765.M Tue Oct 15 11:23:38 2013 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 08:54:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:42:42 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	202911	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1043942	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	454183	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	552859	10.26	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.60%			
Target Compounds						Qvalue
3) FREON 152A	4.63	65	81685	5.63	PPBV	96
4) CHLORODIFLUOROMETHANE	4.68	67	29686	5.33	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.77	85	319499	5.62	PPBV	100
6) PROPYLENE	4.71	41	101465	5.32	PPBV	96
7) FREON 114	5.00	85	323785	5.50	PPBV	99
8) CHLOROMETHANE	4.92	52	36887	5.49	PPBV	96
9) VINYL CHLORIDE	5.11	62	136978	5.64	PPBV	100
10) 1,3-BUTADIENE	5.22	54	103448	5.42	PPBV	99
11) n-BUTANE	5.27	58	28768	5.60	PPBV	99
12) BROMOMETHANE	5.47	94	125337	5.55	PPBV	98
13) CHLOROETHANE	5.61	64	75081	5.55	PPBV	100
14) DICHLOROFLUOROMETHANE	5.67	67	277059	5.63	PPBV	100
15) ACROLEIN	6.00	56	52499	5.26	PPBV	97
16) FREON 123	6.00	83	299854	5.52	PPBV #	99
17) FREON 123A	6.05	117	196418	5.53	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.24	101	319503	5.58	PPBV	100
19) ISOPROPYL ALCOHOL	6.33	45	198101	5.69	PPBV	97
20) ACETONE	6.12	58	64595	4.89	PPBV	97
21) ACRYLONITRILE	6.49	53	100448	5.54	PPBV	98
22) PENTANE	6.53	57	38165	5.53	PPBV #	90
24) IODOMETHANE	6.74	142	353336	5.55	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	130748	5.51	PPBV	98
26) CARBON DISULFIDE	7.18	76	394284	5.60	PPBV	99
27) ETHANOL	5.73	45	48383	5.44	PPBV	99
28) ACETONITRILE	5.90	41	97045	5.22	PPBV	94
29) BROMOETHENE	5.90	106	131349	5.51	PPBV	100
30) METHYLENE CHLORIDE	6.88	84	126704	4.76	PPBV	99
31) 3-CHLOROPROPENE	6.98	76	61457	5.54	PPBV	96
32) FREON 113	7.09	151	251420	5.53	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	139440	5.51	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.84	59	215219	5.74	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.93	73	371707	5.43	PPBV	99
36) TETRAHYDROFURAN	9.29	72	68045	5.59	PPBV	99
37) HEXANE	8.77	57	227802	5.54	PPBV	98
38) VINYL ACETATE	7.97	86	34812	5.47	PPBV	100
39) 1,1-DICHLOROETHANE	7.86	63	243908	5.57	PPBV	99
40) METHYL ETHYL KETONE	8.22	72	66947	5.47	PPBV	92
41) cis-1,2-DICHLOROETHYLENE	8.61	96	142042	5.53	PPBV	99
42) DI-ISOPROPYL ETHER	8.77	45	479099	5.63	PPBV	100
43) ETHYL ACETATE	8.80	61	44500	5.79	PPBV	97
44) METHYL ACRYLATE	8.79	55	250167	5.68	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 08:54:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:42:42 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.88	83	268328	5.47	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.58	57	262785	5.42	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.79	97	273854	5.49	PPBV		99
48)	CARBON TETRACHLORIDE	10.37	117	273902	5.51	PPBV		99
49)	1,2-DICHLOROETHANE	9.56	62	164361	5.58	PPBV		99
51)	BENZENE	10.23	78	444085	5.51	PPBV		100
52)	CYCLOHEXANE	10.48	84	198324	5.42	PPBV		94
53)	2,3-DIMETHYLPENTANE	10.68	71	101245	5.47	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	183478	5.32	PPBV		98
55)	DIBROMOMETHANE	10.99	174	195301	5.52	PPBV		100
56)	1,2-DICHLOROPROPANE	11.00	63	165316	5.60	PPBV		99
57)	ETHYL ACRYLATE	10.98	55	291109	5.58	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	285127	5.56	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	718106	5.58	PPBV		100
60)	1,4-DIOXANE	11.28	88	79062	5.76	PPBV	#	41
61)	METHYL METHACRYLATE	11.40	69	154417	5.75	PPBV		99
62)	HEPTANE	11.47	43	248327	5.59	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.11	43	273801	5.74	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	246645	5.61	PPBV		99
66)	TOLUENE	13.05	92	316297	5.60	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.58	75	208147	5.56	PPBV		100
68)	1,1,2-TRICHLOROETHANE	12.77	83	141920	5.43	PPBV		99
70)	ETHYL METHACRYLATE	13.30	69	242839	5.85	PPBV		99
71)	2-HEXANONE	13.33	43	230321	5.70	PPBV		100
72)	TETRACHLOROETHYLENE	14.21	164	221153	5.47	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	295019	5.88	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	246359	5.75	PPBV		99
75)	OCTANE	14.02	43	336602	5.79	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	221661	5.75	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	392118	5.60	PPBV		98
78)	ETHYLBENZENE	15.31	91	633510	5.66	PPBV		99
79)	m,p-XYLENE	15.50	106	501122	11.50	PPBV		99
80)	o-XYLENE	16.02	106	236372	5.71	PPBV		98
81)	STYRENE	15.91	104	353392	5.66	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	232306	5.69	PPBV		100
83)	NONANE	16.23	43	320630	5.86	PPBV		99
84)	BROMOFORM	15.61	173	278541	5.74	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	291949	5.68	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	695319	5.68	PPBV		100
88)	BROMOBENZENE	16.78	156	206166	5.65	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	163982	5.70	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	180303	5.75	PPBV		100
91)	4-ETHYLTOLUENE	17.39	105	578782	5.78	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	485371	5.64	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	231554	5.66	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	129230	5.51	PPBV		97
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	450761	5.66	PPBV		98
96)	m-DICHLOROBENZENE	18.12	146	265857	5.49	PPBV		99
97)	BENZYL CHLORIDE	18.10	91	261333	5.26	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 08:54:16 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 17:42:42 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

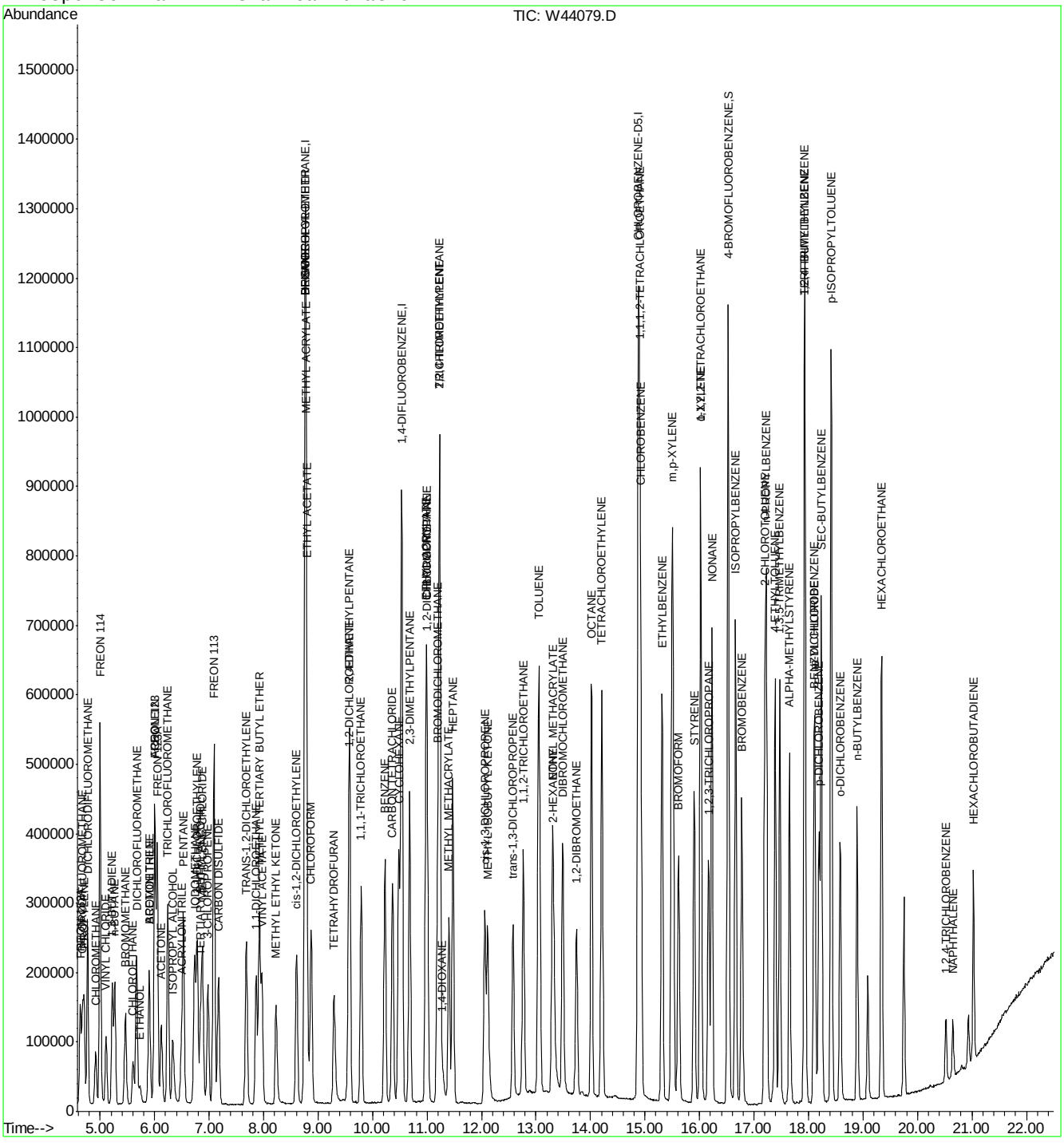
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.19	146	252460	5.44	PPBV	100
99)	SEC-BUTYLBENZENE	18.23	134	145960	5.53	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.42	134	137059	5.35	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	238615	5.44	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	94782	4.99	PPBV	98
103)	HEXACHLOROETHANE	19.34	201	174464	5.51	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	72972	4.73	PPBV	98
105)	1,2,4-TRICHLOROBENZENE	20.53	180	43112	4.14	PPBV	99
106)	NAPHTHALENE	20.65	128	86131	4.00	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44079.D Vial: 4
Acq On : 15 Oct 2013 10:10 am Operator: danat
Sample : ic1765-5 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 16 9:37 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20:12 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:20:02 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	204139	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.54	114	1068301	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	472723	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	571732	10.00	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.00%			
Target Compounds						Qvalue
3) FREON 152A	4.64	65	150598	10.00	PPBV	100
4) CHLORODIFLUOROMETHANE	4.68	67	55393	10.00	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.77	85	579517	10.00	PPBV	100
6) PROPYLENE	4.71	41	184470	10.00	PPBV	100
7) FREON 114	5.00	85	598700	10.00	PPBV	100
8) CHLOROMETHANE	4.92	52	67574	10.00	PPBV	100
9) VINYL CHLORIDE	5.11	62	253188	10.00	PPBV	100
10) 1,3-BUTADIENE	5.22	54	190396	10.00	PPBV	100
11) n-BUTANE	5.27	58	53326	10.00	PPBV	100
12) BROMOMETHANE	5.47	94	230807	10.00	PPBV	100
13) CHLOROETHANE	5.60	64	140647	10.00	PPBV	100
14) DICHLOROFLUOROMETHANE	5.67	67	516277	10.00	PPBV	100
15) ACROLEIN	6.00	56	99546	10.00	PPBV	100
16) FREON 123	6.00	83	556013	10.00	PPBV #	100
17) FREON 123A	6.05	117	363149	10.00	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.24	101	591133	10.00	PPBV	100
19) ISOPROPYL ALCOHOL	6.33	45	358587	9.98	PPBV	100
20) ACETONE	6.12	58	118355	10.00	PPBV	100
21) ACRYLONITRILE	6.49	53	191347	10.00	PPBV	100
22) PENTANE	6.53	57	66852	9.99	PPBV	100
24) IODOMETHANE	6.74	142	658915	10.00	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	245630	10.00	PPBV	100
26) CARBON DISULFIDE	7.18	76	720567	10.00	PPBV	100
27) ETHANOL	5.73	45	91659	10.00	PPBV	100
28) ACETONITRILE	5.90	41	183018	10.00	PPBV	96
29) BROMOETHENE	5.90	106	245820	10.00	PPBV	100
30) METHYLENE CHLORIDE	6.88	84	228932	10.00	PPBV	100
31) 3-CHLOROPROPENE	6.98	76	115797	10.00	PPBV	100
32) FREON 113	7.09	151	463860	10.00	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.69	96	258462	10.00	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.84	59	376550	10.00	PPBV	100
35) METHYL TERTIARY BUTYL ETHE	7.93	73	709479	10.00	PPBV	100
36) TETRAHYDROFURAN	9.29	72	128265	10.00	PPBV	100
37) HEXANE	8.77	57	420616	10.00	PPBV	100
38) VINYL ACETATE	7.97	86	66879	10.00	PPBV	99
39) 1,1-DICHLOROETHANE	7.87	63	451703	10.00	PPBV	100
40) METHYL ETHYL KETONE	8.23	72	128266	10.00	PPBV	100
41) cis-1,2-DICHLOROETHYLENE	8.61	96	268359	10.00	PPBV	100
42) DI-ISOPROPYL ETHER	8.77	45	898537	10.00	PPBV	100
43) ETHYL ACETATE	8.79	61	84382	10.00	PPBV	100
44) METHYL ACRYLATE	8.79	55	467310	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20:12 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:20:02 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.88	83	502460	10.00	PPBV		100
46)	2,4-DIMETHYLPENTANE	9.58	57	497889	10.00	PPBV		100
47)	1,1,1-TRICHLOROETHANE	9.80	97	512937	10.00	PPBV		100
48)	CARBON TETRACHLORIDE	10.37	117	527087	10.00	PPBV		100
49)	1,2-DICHLOROETHANE	9.57	62	307658	10.01	PPBV		100
51)	BENZENE	10.23	78	830928	10.00	PPBV		100
52)	CYCLOHEXANE	10.49	84	377384	10.00	PPBV		100
53)	2,3-DIMETHYLPENTANE	10.69	71	191847	10.00	PPBV		100
54)	TRICHLOROETHYLENE	11.23	95	341836	10.00	PPBV		100
55)	DIBROMOMETHANE	10.99	174	368299	10.00	PPBV		100
56)	1,2-DICHLOROPROPANE	11.00	63	306934	10.00	PPBV		100
57)	ETHYL ACRYLATE	10.98	55	559749	10.00	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	539861	10.00	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	1363428	10.00	PPBV		100
60)	1,4-DIOXANE	11.27	88	161424	10.00	PPBV		100
61)	METHYL METHACRYLATE	11.40	69	286876	10.00	PPBV		100
62)	HEPTANE	11.48	43	472302	10.00	PPBV		100
64)	METHYL ISOBUTYL KETONE	12.11	43	516046	10.01	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.06	75	463116	10.00	PPBV		100
66)	TOLUENE	13.05	92	597163	10.00	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	401624	10.02	PPBV		100
68)	1,1,2-TRICHLOROETHANE	12.77	83	267061	10.00	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	465734	10.00	PPBV		100
71)	2-HEXANONE	13.32	43	453279	10.00	PPBV		100
72)	TETRACHLOROETHYLENE	14.21	164	416801	10.00	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.50	129	560242	10.00	PPBV		100
74)	1,2-DIBROMOETHANE	13.75	107	469719	10.00	PPBV		100
75)	OCTANE	14.02	43	627466	10.00	PPBV		100
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	422191	10.00	PPBV	#	100
77)	CHLOROBENZENE	14.93	112	744639	10.00	PPBV		100
78)	ETHYLBENZENE	15.31	91	1202099	10.00	PPBV		100
79)	m,p-XYLENE	15.51	106	948730	20.06	PPBV		100
80)	o-XYLENE	16.03	106	452806	10.00	PPBV		100
81)	STYRENE	15.91	104	684142	10.00	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	444118	10.03	PPBV		100
83)	NONANE	16.23	43	604367	10.00	PPBV		100
84)	BROMOFORM	15.62	173	540684	10.00	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	557794	10.00	PPBV		100
87)	ISOPROPYLBENZENE	16.67	105	1326600	10.00	PPBV		100
88)	BROMOBENZENE	16.78	156	399669	10.00	PPBV		100
89)	2-CHLOROTOLUENE	17.20	126	312760	10.00	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	347282	10.00	PPBV		100
91)	4-ETHYLTOLUENE	17.39	105	1122806	9.99	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	946279	10.00	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	462677	10.00	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	253886	10.00	PPBV		100
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	884034	10.00	PPBV		100
96)	m-DICHLOROBENZENE	18.12	146	546161	10.00	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	550572	10.00	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20:12 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 11:20:02 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

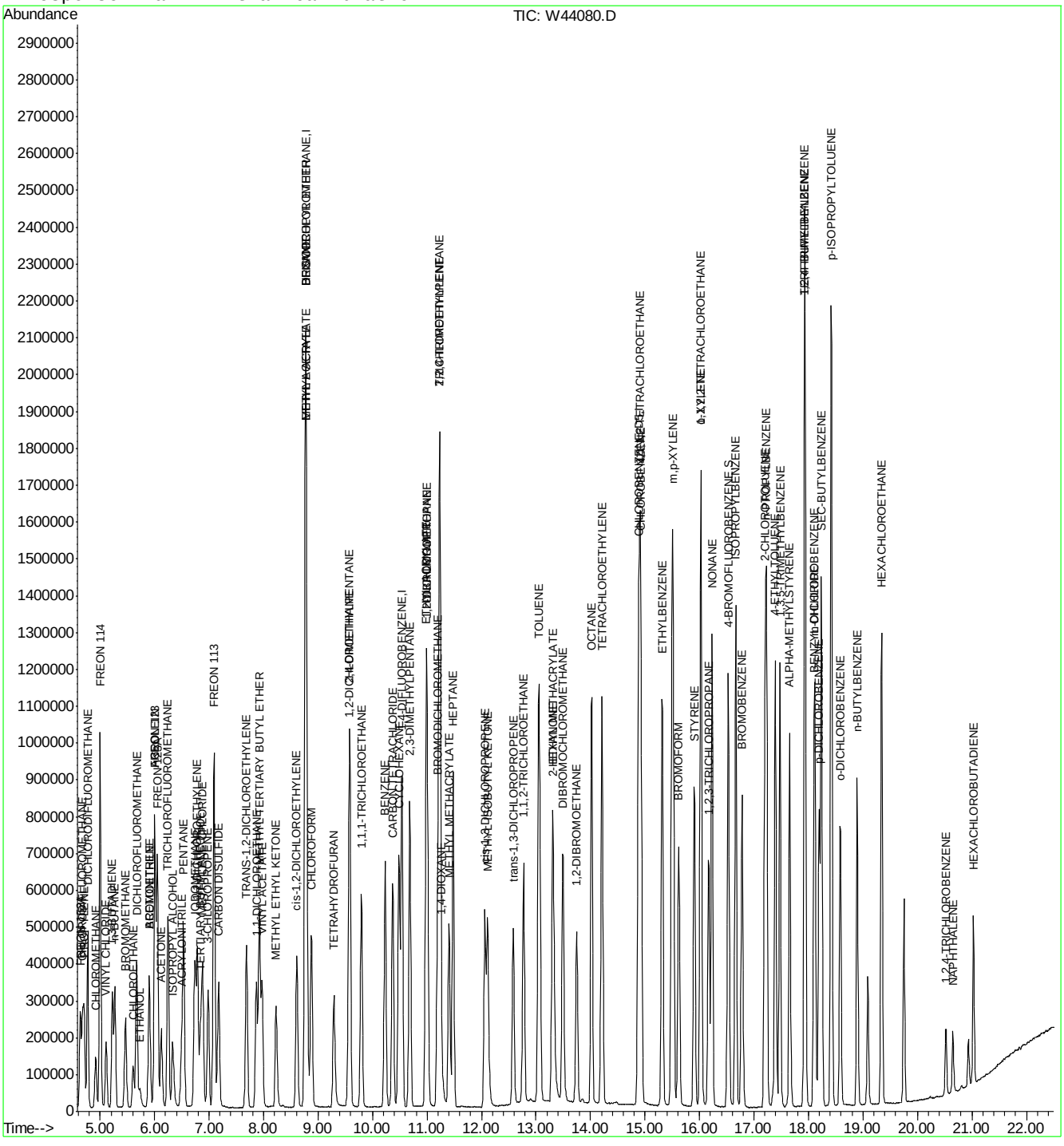
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	504457	10.00	PPBV	100
99)	SEC-BUTYLBENZENE	18.24	134	290791	10.00	PPBV	100
100)	p-ISOPROPYLTOLUENE	18.42	134	277270	10.00	PPBV	100
101)	o-DICHLOROBENZENE	18.59	146	476837	10.00	PPBV	100
102)	n-BUTYLBENZENE	18.90	134	196130	10.00	PPBV	100
103)	HEXACHLOROETHANE	19.34	201	350041	10.00	PPBV	100
104)	HEXACHLOROBUTADIENE	21.03	225	126154	10.00	PPBV	100
105)	1,2,4-TRICHLOROBENZENE	20.53	180	86464	10.05	PPBV	100
106)	NAPHTHALENE	20.65	128	178434	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44080.D Vial: 4
Acq On : 15 Oct 2013 10:50 am Operator: danat
Sample : icc1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 11:20 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:57:08 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:57:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	212686	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1110669	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	542807	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	634521	9.82	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.20%			
Target Compounds						Qvalue
3) FREON 152A	4.62	65	522025	33.09	PPBV	100
4) CHLORODIFLUOROMETHANE	4.66	67	205152	34.34	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.75	85	2197066	37.17	PPBV	100
6) PROPYLENE	4.69	41	687393	33.56	PPBV	99
7) FREON 114	4.98	85	2272630	37.24	PPBV	99
8) CHLOROMETHANE	4.90	52	252061	34.99	PPBV	98
9) VINYL CHLORIDE	5.09	62	959751	37.55	PPBV	100
10) 1,3-BUTADIENE	5.21	54	711860	36.17	PPBV	99
11) n-BUTANE	5.26	58	199987	36.64	PPBV	98
12) BROMOMETHANE	5.45	94	885840	37.56	PPBV	100
13) CHLOROETHANE	5.59	64	541261	38.01	PPBV	99
14) DICHLOROFLUOROMETHANE	5.65	67	1946485	37.28	PPBV	100
15) ACROLEIN	5.98	56	374992	35.08	PPBV	99
16) FREON 123	5.99	83	2117804	37.36	PPBV #	99
17) FREON 123A	6.04	117	1403849	37.92	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.23	101	2272172	37.94	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	1514118	42.71	PPBV	100
20) ACETONE	6.09	58	457171	32.02	PPBV	98
21) ACRYLONITRILE	6.47	53	727731	37.68	PPBV	99
22) PENTANE	6.52	57	252622	33.95	PPBV	93
24) IODOMETHANE	6.72	142	2590223	38.79	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	955013	37.80	PPBV	99
26) CARBON DISULFIDE	7.16	76	2803397	38.02	PPBV	99
27) ETHANOL	5.69	45	348197	37.06	PPBV	98
28) ACETONITRILE	5.88	41	692169	34.72	PPBV	98
29) BROMOETHENE	5.89	106	957029	38.57	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	886827	31.63	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	453165	39.42	PPBV	96
32) FREON 113	7.08	151	1831811	38.75	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	1035624	38.67	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.80	59	1851772	53.17	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.91	73	2766876	39.01	PPBV	99
36) TETRAHYDROFURAN	9.27	72	494411	38.45	PPBV	97
37) HEXANE	8.76	57	1633572	37.37	PPBV	98
38) VINYL ACETATE	7.96	86	270191	41.36	PPBV #	59
39) 1,1-DICHLOROETHANE	7.86	63	1733605	37.61	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	503134	39.22	PPBV	92
41) cis-1,2-DICHLOROETHYLENE	8.60	96	1059216	38.97	PPBV	97
42) DI-ISOPROPYL ETHER	8.75	45	3324645	37.34	PPBV	99
43) ETHYL ACETATE	8.78	61	324547	39.83	PPBV #	93
44) METHYL ACRYLATE	8.78	55	1798073	39.13	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:57:08 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:57:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	1913786	37.61	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.57	57	1916626	38.30	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.79	97	1994540	38.89	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	2090009	40.75	PPBV		99
49)	1,2-DICHLOROETHANE	9.55	62	1170623	38.00	PPBV		100
51)	BENZENE	10.22	78	3166635	37.04	PPBV		100
52)	CYCLOHEXANE	10.48	84	1480706	37.53	PPBV		95
53)	2,3-DIMETHYLPENTANE	10.68	71	754965	37.75	PPBV		97
54)	TRICHLOROETHYLENE	11.22	95	1341950	37.97	PPBV		99
55)	DIBROMOMETHANE	10.99	174	1474251	39.32	PPBV		98
56)	1,2-DICHLOROPROPANE	11.00	63	1160293	37.21	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	2250803	40.89	PPBV		99
58)	BROMODICHLOROMETHANE	11.19	83	2095285	38.77	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.24	57	5256510	38.33	PPBV		99
60)	1,4-DIOXANE	11.25	88	699918	49.39	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	1147299	39.64	PPBV		97
62)	HEPTANE	11.47	43	1796371	37.40	PPBV		98
64)	METHYL ISOBUTYL KETONE	12.10	43	2173794	44.22	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	1830310	39.76	PPBV		99
66)	TOLUENE	13.05	92	2288298	37.82	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	1614791	41.85	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.77	83	1023642	37.55	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	1965444	39.57	PPBV		99
71)	2-HEXANONE	13.31	43	2045144	43.68	PPBV		99
72)	TETRACHLOROETHYLENE	14.21	164	1640115	34.81	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.50	129	2216214	36.28	PPBV		100
74)	1,2-DIBROMOETHANE	13.75	107	1880761	36.93	PPBV		100
75)	OCTANE	14.02	43	2396805	34.28	PPBV		97
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	1678843	36.61	PPBV	#	99
77)	CHLOROBENZENE	14.93	112	2976756	35.55	PPBV		99
78)	ETHYLBENZENE	15.31	91	4696350	34.92	PPBV		100
79)	m,p-XYLENE	15.51	106	3731578	70.88	PPBV		98
80)	o-XYLENE	16.03	106	1761798	35.27	PPBV		100
81)	STYRENE	15.91	104	2781999	37.41	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	1763981	36.57	PPBV		100
83)	NONANE	16.23	43	2360851	36.09	PPBV		98
84)	BROMOFORM	15.62	173	2265610	39.34	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	2208213	36.35	PPBV		100
87)	ISOPROPYLBENZENE	16.67	105	5233939	35.59	PPBV		99
88)	BROMOBENZENE	16.78	156	1652737	37.84	PPBV		98
89)	2-CHLOROTOLUENE	17.20	126	1260410	36.84	PPBV	#	99
90)	n-PROPYLBENZENE	17.23	120	1428669	37.81	PPBV		95
91)	4-ETHYLTOLUENE	17.39	105	4632639	38.51	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	3869890	37.61	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	1984621	40.78	PPBV		100
94)	TERT-BUTYLBENZENE	17.94	134	1052267	37.56	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	3726612	39.38	PPBV		98
96)	m-DICHLOROBENZENE	18.12	146	2447022	42.44	PPBV		100
97)	BENZYL CHLORIDE	18.11	91	2809175	50.02	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:57:08 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:57:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

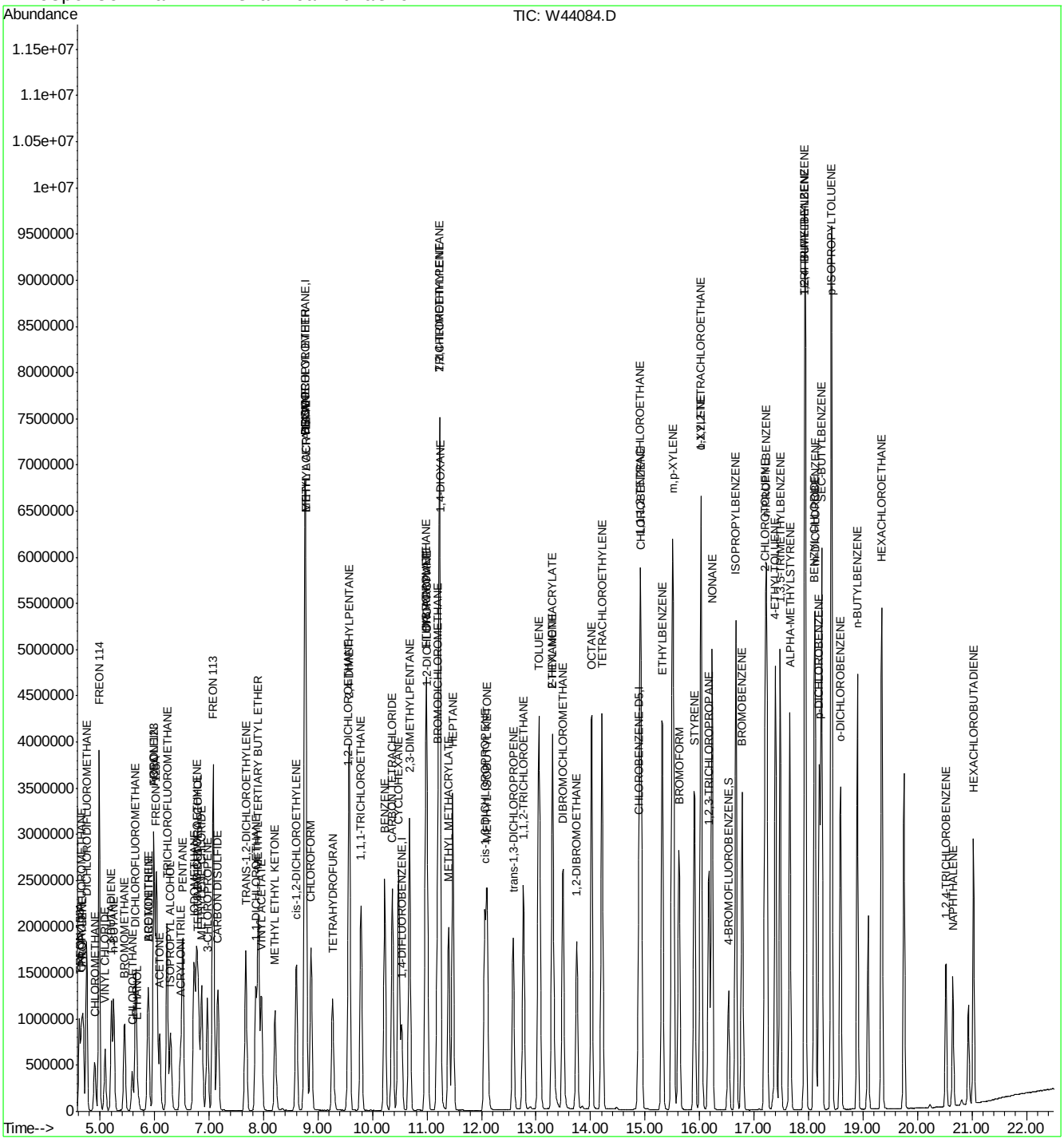
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	2341028	42.87	PPBV	99
99)	SEC-BUTYLBENZENE	18.24	134	1237866	39.75	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	1260011	42.07	PPBV	97
101)	o-DICHLOROBENZENE	18.59	146	2162024	42.20	PPBV	100
102)	n-BUTYLBENZENE	18.90	134	1023668	48.29	PPBV	96
103)	HEXACHLOROETHANE	19.34	201	1556967	42.24	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	800456	48.94	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	711035	70.69	PPBV	97
106)	NAPHTHALENE	20.65	128	1477886	69.87	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44084.D Vial: 4
Acq On : 15 Oct 2013 1:28 pm Operator: danat
Sample : ic1765-40 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 13:58 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	213113	10.00	PPBV	-0.01
50) 1,4-DIFLUOROBENZENE	10.53	114	1101949	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	524440	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	639034	10.26	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.60%			
Target Compounds						Qvalue
3) FREON 152A	4.61	65	377942	24.44	PPBV	99
4) CHLORODIFLUOROMETHANE	4.66	67	148698	25.29	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.75	85	1600959	27.27	PPBV	99
6) PROPYLENE	4.69	41	505498	25.14	PPBV	98
7) FREON 114	4.98	85	1675550	27.64	PPBV	100
8) CHLOROMETHANE	4.90	52	185058	26.04	PPBV #	88
9) VINYL CHLORIDE	5.09	62	699574	27.52	PPBV	100
10) 1,3-BUTADIENE	5.21	54	526362	27.02	PPBV	98
11) n-BUTANE	5.26	58	147222	27.20	PPBV	99
12) BROMOMETHANE	5.45	94	645414	27.52	PPBV	99
13) CHLOROETHANE	5.59	64	393975	27.78	PPBV	99
14) DICHLOROFLUOROMETHANE	5.65	67	1415981	27.29	PPBV	100
15) ACROLEIN	5.98	56	273656	25.95	PPBV	99
16) FREON 123	5.99	83	1542342	27.38	PPBV #	99
17) FREON 123A	6.04	117	1023373	27.77	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.23	101	1654303	27.75	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	839286	23.43	PPBV	99
20) ACETONE	6.09	58	332390	23.83	PPBV	99
21) ACRYLONITRILE	6.47	53	533110	27.75	PPBV	99
22) PENTANE	6.52	57	185296	25.33	PPBV	99
24) IODOMETHANE	6.72	142	1879870	28.21	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	697189	27.73	PPBV	99
26) CARBON DISULFIDE	7.16	76	2047955	27.89	PPBV	99
27) ETHANOL	5.68	45	199541	21.39	PPBV	97
28) ACETONITRILE	5.87	41	509038	25.91	PPBV	97
29) BROMOETHENE	5.88	106	693074	28.00	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	662135	24.20	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	330438	28.74	PPBV	97
32) FREON 113	7.08	151	1332693	28.25	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	744672	27.87	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.80	59	1045417	28.77	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	1978142	27.92	PPBV	99
36) TETRAHYDROFURAN	9.27	72	350038	27.30	PPBV	99
37) HEXANE	8.76	57	1200201	27.63	PPBV	98
38) VINYL ACETATE	7.96	86	195016	29.66	PPBV #	59
39) 1,1-DICHLOROETHANE	7.86	63	1277436	27.87	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	358410	27.95	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.60	96	768345	28.30	PPBV	98
42) DI-ISOPROPYL ETHER	8.75	45	2418839	27.34	PPBV	99
43) ETHYL ACETATE	8.78	61	232326	28.47	PPBV	97
44) METHYL ACRYLATE	8.78	55	1308742	28.50	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	1400303	27.67	PPBV		100
46)	2,4-DIMETHYLPENTANE	9.57	57	1405978	28.19	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	1454168	28.40	PPBV		100
48)	CARBON TETRACHLORIDE	10.36	117	1526180	29.63	PPBV		100
49)	1,2-DICHLOROETHANE	9.55	62	857852	27.96	PPBV		100
51)	BENZENE	10.22	78	2312314	27.52	PPBV		100
52)	CYCLOHEXANE	10.47	84	1076189	27.71	PPBV		96
53)	2,3-DIMETHYLPENTANE	10.67	71	547646	27.80	PPBV		98
54)	TRICHLOROETHYLENE	11.22	95	968951	27.81	PPBV		99
55)	DIBROMOMETHANE	10.98	174	1055434	28.43	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	848087	27.66	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	1582018	28.89	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	1524830	28.54	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	3837347	28.35	PPBV		99
60)	1,4-DIOXANE	11.24	88	388105	26.82	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	809868	28.24	PPBV		99
62)	HEPTANE	11.47	43	1324388	28.02	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.10	43	1496287	30.28	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	1315675	28.83	PPBV		99
66)	TOLUENE	13.04	92	1642703	27.55	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	1159830	30.12	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.77	83	734293	27.36	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	1359841	28.37	PPBV		99
71)	2-HEXANONE	13.31	43	1366755	29.87	PPBV		99
72)	TETRACHLOROETHYLENE	14.21	164	1181879	26.39	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	1606325	27.54	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	1350732	27.72	PPBV		100
75)	OCTANE	14.02	43	1754774	26.45	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	1195407	27.27	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	2125438	26.64	PPBV		99
78)	ETHYLBENZENE	15.31	91	3359569	26.27	PPBV		100
79)	m,p-XYLENE	15.51	106	2668191	53.21	PPBV		99
80)	o-XYLENE	16.02	106	1262926	26.56	PPBV		100
81)	STYRENE	15.91	104	1971031	27.66	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	1251123	27.13	PPBV		100
83)	NONANE	16.23	43	1726298	27.65	PPBV		99
84)	BROMOFORM	15.62	173	1611254	29.01	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.03	83	1573310	27.12	PPBV		99
87)	ISOPROPYLBENZENE	16.67	105	3737553	26.67	PPBV		99
88)	BROMOBENZENE	16.78	156	1162361	27.73	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	896472	27.39	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	1007290	27.78	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	3289949	28.44	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	2728006	27.65	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	1391308	29.52	PPBV		100
94)	TERT-BUTYLBENZENE	17.94	134	745084	27.74	PPBV		99
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	2614397	28.65	PPBV		99
96)	m-DICHLOROBENZENE	18.12	146	1708220	30.43	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	1887337	33.73	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

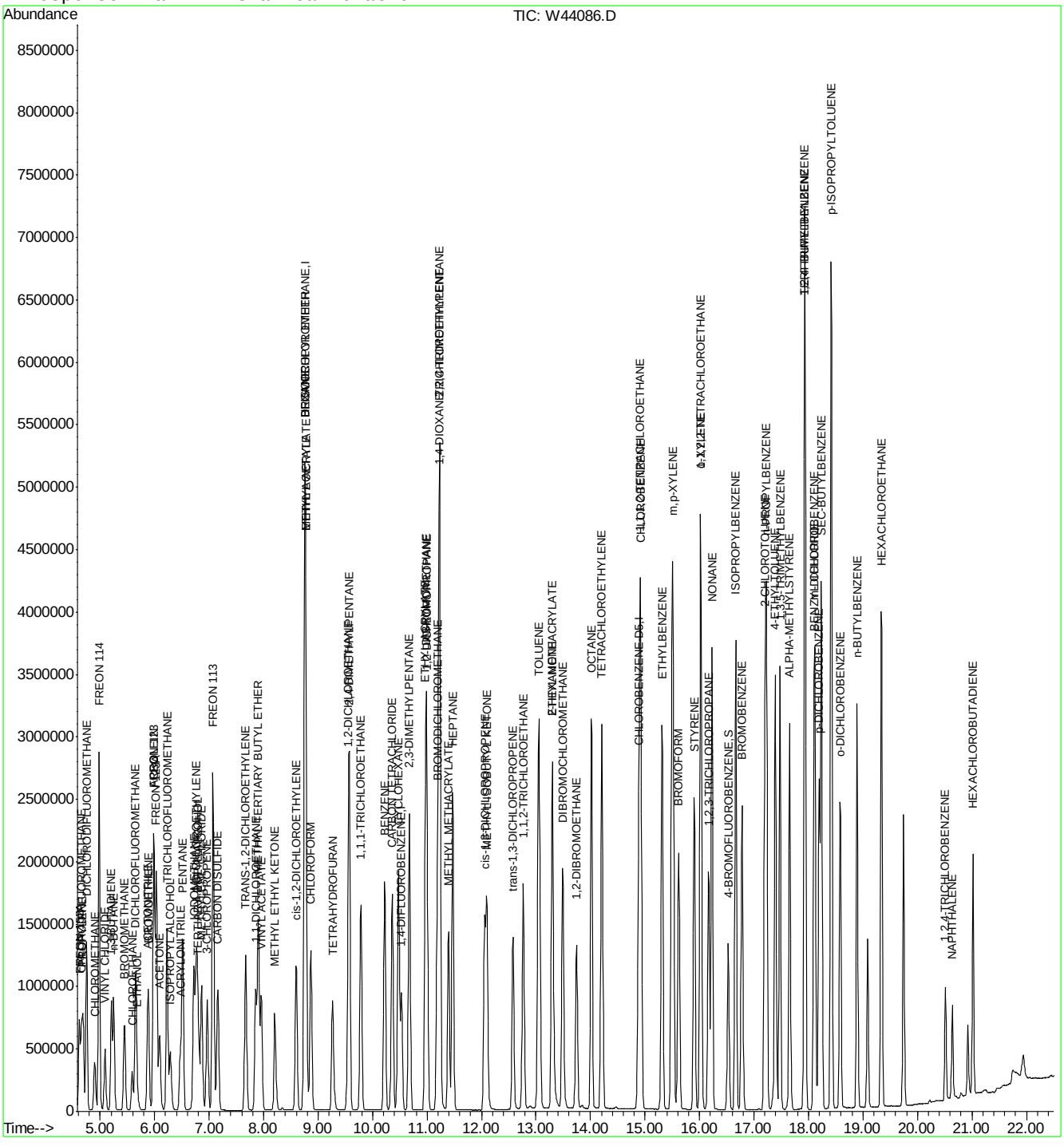
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	1607855	30.20	PPBV	100
99)	SEC-BUTYLBENZENE	18.24	134	869728	28.93	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	883194	30.33	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	1529713	30.70	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	705485	33.57	PPBV	95
103)	HEXACHLOROETHANE	19.34	201	1129262	31.49	PPBV	97
104)	HEXACHLOROBUTADIENE	21.02	225	516464	31.80	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.51	180	406455	38.17	PPBV	97
106)	NAPHTHALENE	20.64	128	790827	35.39	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44086.D Vial: 4
Acq On : 15 Oct 2013 2:48 pm Operator: danat
Sample : ic1765-30 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:59 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:27 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	202608	10.00	PPBV	-0.01
50) 1,4-DIFLUOROBENZENE	10.53	114	1056604	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	491086	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	595255	10.21	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.10%			
Target Compounds						Qvalue
3) FREON 152A	4.61	65	247363	16.82	PPBV	100
4) CHLORODIFLUOROMETHANE	4.66	67	99020	17.71	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.75	85	1058869	18.97	PPBV	100
6) PROPYLENE	4.69	41	333943	17.47	PPBV	98
7) FREON 114	4.98	85	1095312	19.00	PPBV	100
8) CHLOROMETHANE	4.90	52	122166	18.08	PPBV	99
9) VINYL CHLORIDE	5.09	62	461923	19.12	PPBV	100
10) 1,3-BUTADIENE	5.21	54	346694	18.72	PPBV	100
11) n-BUTANE	5.25	58	96385	18.73	PPBV	99
12) BROMOMETHANE	5.44	94	422300	18.94	PPBV	99
13) CHLOROETHANE	5.58	64	255873	18.98	PPBV	98
14) DICHLOROFLUOROMETHANE	5.65	67	935952	18.98	PPBV	100
15) ACROLEIN	5.98	56	178300	17.78	PPBV	98
16) FREON 123	5.99	83	1002787	18.73	PPBV #	99
17) FREON 123A	6.03	117	665014	18.98	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.22	101	1090115	19.23	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	717634	21.07	PPBV	97
20) ACETONE	6.09	58	213739	16.12	PPBV	100
21) ACRYLONITRILE	6.47	53	344639	18.87	PPBV	100
22) PENTANE	6.51	57	121896	17.53	PPBV	99
24) IODOMETHANE	6.72	142	1217680	19.22	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	449214	18.79	PPBV	99
26) CARBON DISULFIDE	7.16	76	1328763	19.03	PPBV	99
27) ETHANOL	5.69	45	166556	18.78	PPBV	97
28) ACETONITRILE	5.87	41	330840	17.71	PPBV	100
29) BROMOETHENE	5.88	106	451315	19.18	PPBV	99
30) METHYLENE CHLORIDE	6.86	84	457726	17.60	PPBV	99
31) 3-CHLOROPROPENE	6.96	76	213079	19.49	PPBV	98
32) FREON 113	7.07	151	856188	19.09	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.67	96	486975	19.17	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.80	59	864505	25.03	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	1272616	18.89	PPBV	99
36) TETRAHYDROFURAN	9.27	72	225291	18.48	PPBV	99
37) HEXANE	8.76	57	779107	18.86	PPBV	98
38) VINYL ACETATE	7.96	86	121871	19.50	PPBV	96
39) 1,1-DICHLOROETHANE	7.85	63	823651	18.90	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	229228	18.80	PPBV	93
41) cis-1,2-DICHLOROETHYLENE	8.60	96	494422	19.16	PPBV	98
42) DI-ISOPROPYL ETHER	8.75	45	1576768	18.74	PPBV	100
43) ETHYL ACETATE	8.78	61	151149	19.48	PPBV #	96
44) METHYL ACRYLATE	8.77	55	842409	19.30	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:27 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.86	83	905508	18.82	PPBV		100
46)	2,4-DIMETHYLPENTANE	9.57	57	912061	19.24	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	939891	19.31	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	991318	20.24	PPBV		100
49)	1,2-DICHLOROETHANE	9.55	62	554155	19.00	PPBV		100
51)	BENZENE	10.22	78	1485715	18.44	PPBV		100
52)	CYCLOHEXANE	10.47	84	696591	18.70	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.67	71	353423	18.71	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	627016	18.77	PPBV		99
55)	DIBROMOMETHANE	10.98	174	682100	19.16	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	544139	18.51	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	1022259	19.47	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	985652	19.24	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	2492305	19.20	PPBV		99
60)	1,4-DIOXANE	11.24	88	312524	22.52	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	520258	18.92	PPBV		99
62)	HEPTANE	11.47	43	856171	18.89	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.10	43	984773	20.78	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.06	75	843021	19.27	PPBV		99
66)	TOLUENE	13.04	92	1062643	18.59	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	741230	20.08	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.77	83	478272	18.59	PPBV		99
70)	ETHYL METHACRYLATE	13.30	69	886420	19.75	PPBV		100
71)	2-HEXANONE	13.31	43	902223	21.06	PPBV		99
72)	TETRACHLOROETHYLENE	14.20	164	768632	18.33	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	1039212	19.02	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	870483	19.08	PPBV		100
75)	OCTANE	14.02	43	1135699	18.28	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	769053	18.74	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	1364727	18.27	PPBV		99
78)	ETHYLBENZENE	15.31	91	2164132	18.07	PPBV		100
79)	m,p-XYLENE	15.50	106	1713644	36.50	PPBV		99
80)	o-XYLENE	16.02	106	812474	18.25	PPBV		100
81)	STYRENE	15.91	104	1258102	18.85	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	804919	18.64	PPBV		100
83)	NONANE	16.23	43	1103599	18.88	PPBV		100
84)	BROMOFORM	15.61	173	1030534	19.82	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	1007005	18.53	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	2401455	18.30	PPBV		100
88)	BROMOBENZENE	16.78	156	744325	18.96	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	573150	18.70	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	643909	18.96	PPBV		97
91)	4-ETHYLTOLUENE	17.39	105	2097622	19.37	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.48	105	1740068	18.83	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.66	118	880880	19.96	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	475929	18.92	PPBV		99
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	1669070	19.53	PPBV		99
96)	m-DICHLOROBENZENE	18.12	146	1064259	20.25	PPBV		99
97)	BENZYL CHLORIDE	18.10	91	1172792	22.38	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:57:27 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 13:58:34 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

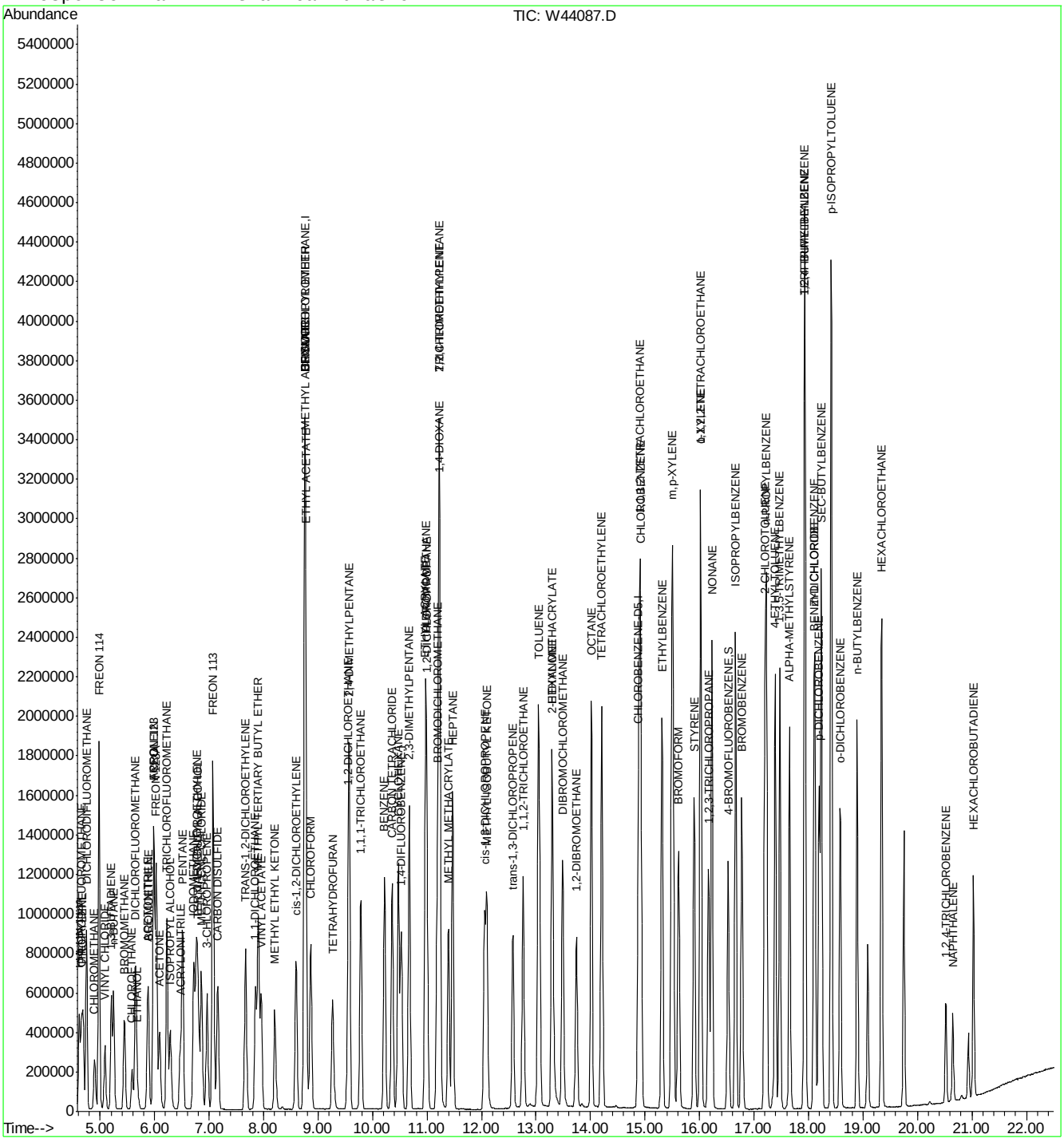
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.20	146	1024363	20.55	PPBV	100
99)	SEC-BUTYLBENZENE	18.23	134	558889	19.85	PPBV	98
100)	p-ISOPROPYLTOLUENE	18.42	134	554864	20.35	PPBV	98
101)	o-DICHLOROBENZENE	18.58	146	946468	20.28	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	430102	21.86	PPBV	97
103)	HEXACHLOROETHANE	19.34	201	699301	20.83	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	309813	20.37	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	235423	23.61	PPBV	98
106)	NAPHTHALENE	20.65	128	471561	22.54	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44087.D Vial: 4
Acq On : 15 Oct 2013 3:27 pm Operator: danat
Sample : ic1765-20 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 15:58 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:53:52 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 16:00:27 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	214023	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.53	114	1109984	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.88	82	497356	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.53	95	611245	10.34	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.40%			
Target Compounds						Qvalue
3) FREON 152A	4.63	65	221905	14.50	PPBV	100
4) CHLORODIFLUOROMETHANE	4.67	67	78821	13.40	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.77	85	847344	14.42	PPBV	100
6) PROPYLENE	4.70	41	267896	13.31	PPBV	99
7) FREON 114	4.99	85	881679	14.53	PPBV	100
8) CHLOROMETHANE	4.91	52	96978	13.63	PPBV	90
9) VINYL CHLORIDE	5.10	62	368236	14.48	PPBV	99
10) 1,3-BUTADIENE	5.22	54	275865	14.13	PPBV	99
11) n-BUTANE	5.26	58	77027	14.21	PPBV	99
12) BROMOMETHANE	5.46	94	336507	14.35	PPBV	100
13) CHLOROETHANE	5.60	64	206712	14.55	PPBV	99
14) DICHLOROFLUOROMETHANE	5.66	67	744998	14.33	PPBV	99
15) ACROLEIN	5.99	56	145671	13.82	PPBV	97
16) FREON 123	6.00	83	807971	14.35	PPBV #	100
17) FREON 123A	6.04	117	530999	14.41	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.24	101	870748	14.58	PPBV	100
19) ISOPROPYL ALCOHOL	6.30	45	487824	13.26	PPBV	100
20) ACETONE	6.10	58	171036	12.23	PPBV	100
21) ACRYLONITRILE	6.48	53	272299	14.15	PPBV	99
22) PENTANE	6.52	57	96794	13.25	PPBV	99
24) IODOMETHANE	6.73	142	973422	14.61	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.78	96	359800	14.32	PPBV	100
26) CARBON DISULFIDE	7.17	76	1068063	14.53	PPBV	99
27) ETHANOL	5.70	45	113323	11.95	PPBV	98
28) ACETONITRILE	5.88	41	262628	13.35	PPBV	98
29) BROMOETHENE	5.90	106	365298	14.76	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	382630	13.80	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	167015	14.54	PPBV	99
32) FREON 113	7.08	151	685889	14.54	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	386499	14.45	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.81	59	611454	15.74	PPBV	100
35) METHYL TERTIARY BUTYL ETHE	7.91	73	1012953	14.33	PPBV	99
36) TETRAHYDROFURAN	9.28	72	179802	14.10	PPBV	99
37) HEXANE	8.77	57	624210	14.35	PPBV	98
38) VINYL ACETATE	7.96	86	98905	15.09	PPBV #	93
39) 1,1-DICHLOROETHANE	7.86	63	657908	14.36	PPBV	99
40) METHYL ETHYL KETONE	8.22	72	181742	14.17	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.60	96	398842	14.68	PPBV	97
42) DI-ISOPROPYL ETHER	8.76	45	1253111	14.17	PPBV	100
43) ETHYL ACETATE	8.78	61	116781	14.32	PPBV #	96
44) METHYL ACRYLATE	8.78	55	673362	14.67	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:53:52 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 16:00:27 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	727320	14.39	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.58	57	723968	14.51	PPBV		100
47)	1,1,1-TRICHLOROETHANE	9.79	97	756066	14.76	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	787329	15.26	PPBV		100
49)	1,2-DICHLOROETHANE	9.55	62	443161	14.44	PPBV		99
51)	BENZENE	10.22	78	1190681	14.16	PPBV		100
52)	CYCLOHEXANE	10.48	84	559539	14.37	PPBV		97
53)	2,3-DIMETHYLPENTANE	10.68	71	281523	14.26	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	500211	14.34	PPBV		99
55)	DIBROMOMETHANE	10.98	174	545504	14.66	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	436372	14.22	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	793168	14.41	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	785182	14.66	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	1962855	14.45	PPBV		99
60)	1,4-DIOXANE	11.25	88	193132	13.01	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	409057	14.24	PPBV		99
62)	HEPTANE	11.47	43	679111	14.32	PPBV		100
64)	METHYL ISOBUTYL KETONE	12.10	43	740888	14.76	PPBV		99
65)	cis-1,3-DICHLOROPROPENE	12.06	75	671192	14.69	PPBV		99
66)	TOLUENE	13.04	92	848122	14.21	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	591624	15.27	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.77	83	381730	14.22	PPBV		100
70)	ETHYL METHACRYLATE	13.30	69	677953	14.87	PPBV		100
71)	2-HEXANONE	13.31	43	693006	15.75	PPBV		99
72)	TETRACHLOROETHYLENE	14.20	164	613283	14.55	PPBV		100
73)	DIBROMOCHLOROMETHANE	13.49	129	824444	14.99	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	693025	15.10	PPBV		100
75)	OCTANE	14.02	43	895787	14.33	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.91	131	612011	14.85	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	1086866	14.48	PPBV		99
78)	ETHYLBENZENE	15.31	91	1717959	14.29	PPBV		100
79)	m,p-XYLENE	15.50	106	1357333	28.79	PPBV		99
80)	o-XYLENE	16.02	106	641549	14.35	PPBV		100
81)	STYRENE	15.91	104	988358	14.74	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.17	75	633185	14.58	PPBV		99
83)	NONANE	16.23	43	861826	14.64	PPBV		99
84)	BROMOFORM	15.61	173	814864	15.57	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	801247	14.65	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	1903380	14.44	PPBV		99
88)	BROMOBENZENE	16.78	156	589840	14.94	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	455976	14.81	PPBV	#	99
90)	n-PROPYLBENZENE	17.23	120	512470	15.02	PPBV		96
91)	4-ETHYLTOLUENE	17.39	105	1643698	15.07	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	1393311	14.99	PPBV		99
93)	ALPHA-METHYLSTYRENE	17.66	118	691105	15.53	PPBV		99
94)	TERT-BUTYLBENZENE	17.93	134	384231	15.16	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	1358826	15.76	PPBV		96
96)	m-DICHLOROBENZENE	18.12	146	836879	15.75	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	917329	17.17	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:53:52 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Tue Oct 15 16:00:27 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

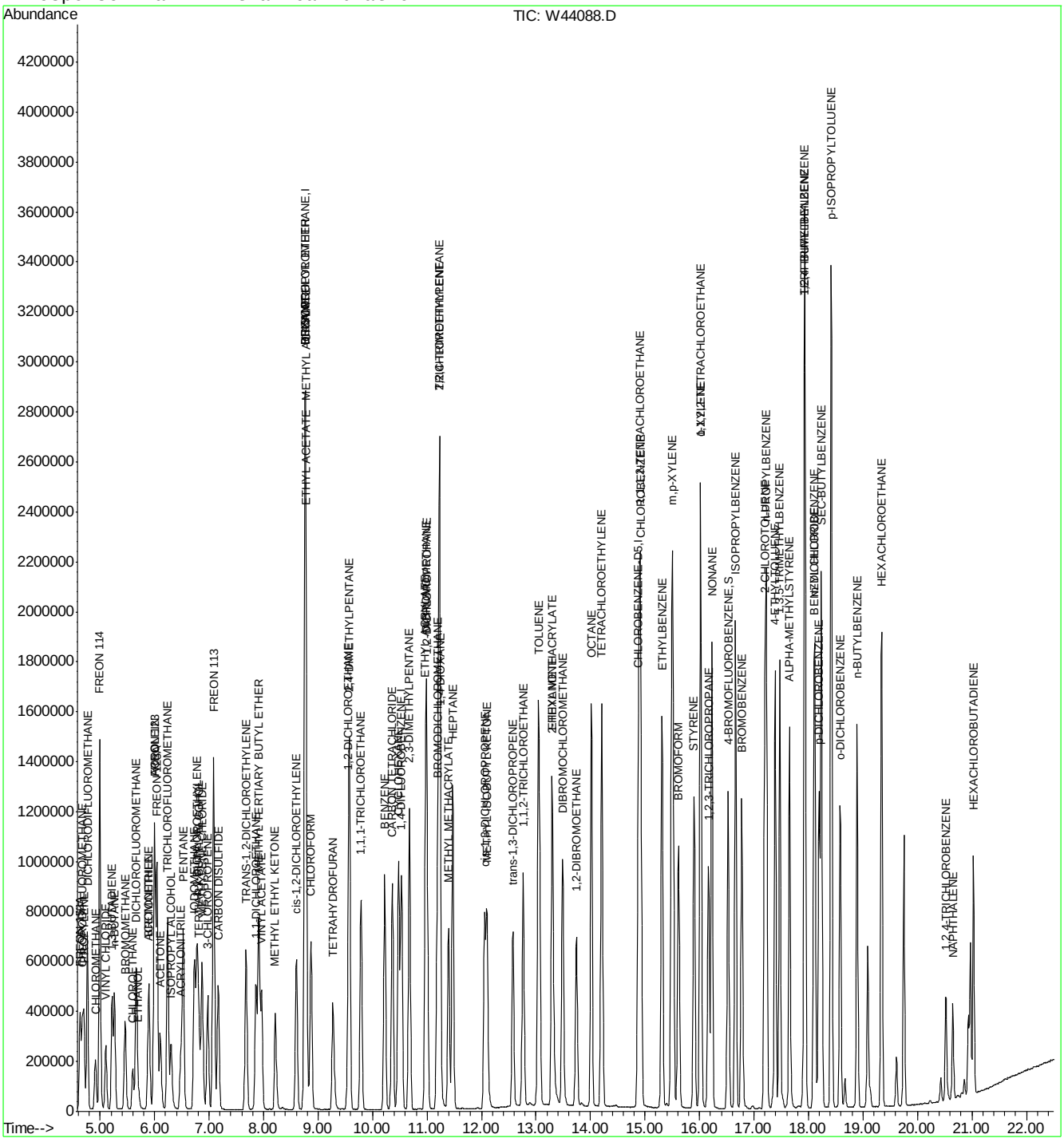
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.19	146	805466	15.97	PPBV	100
99)	SEC-BUTYLBENZENE	18.23	134	436668	15.34	PPBV	99
100)	p-ISOPROPYLTOLUENE	18.42	134	432128	15.55	PPBV	99
101)	o-DICHLOROBENZENE	18.58	146	744640	15.71	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	331716	16.36	PPBV	99
103)	HEXACHLOROETHANE	19.34	201	545536	16.00	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	263015	16.19	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	189574	17.60	PPBV	96
106)	NAPHTHALENE	20.65	128	407874	18.31	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44088.D Vial: 4
Acq On : 15 Oct 2013 4:15 pm Operator: danat
Sample : ic1765-15 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 15 16:54 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 09:18:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	212260	10.00	PPBV	-0.01
50) 1,4-DIFLUOROBENZENE	10.53	114	1081575	10.00	PPBV	-0.01
69) CHLOROBENZENE-D5	14.88	82	467624	10.00	PPBV	0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	583522	10.52	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.20%			
Target Compounds						Qvalue
3) FREON 152A	4.63	65	149635	9.86	PPBV	99
4) CHLORODIFLUOROMETHANE	4.67	67	53624	9.20	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.77	85	578047	9.72	PPBV	100
6) PROPYLENE	4.70	41	185424	9.30	PPBV	95
7) FREON 114	4.99	85	597109	9.70	PPBV	100
8) CHLOROMETHANE	4.91	52	66945	9.52	PPBV #	88
9) VINYL CHLORIDE	5.10	62	251954	9.92	PPBV	100
10) 1,3-BUTADIENE	5.22	54	192247	9.63	PPBV	98
11) n-BUTANE	5.26	58	50870	9.46	PPBV	94
12) BROMOMETHANE	5.46	94	231389	9.80	PPBV	99
13) CHLOROETHANE	5.60	64	140026	9.90	PPBV	98
14) DICHLOROFLUOROMETHANE	5.66	67	502738	9.77	PPBV	99
15) ACROLEIN	5.99	56	92977	8.91	PPBV	99
16) FREON 123	5.99	83	541212	9.52	PPBV #	100
17) FREON 123A	6.04	117	352656	9.50	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.24	101	590540	9.86	PPBV	100
19) ISOPROPYL ALCOHOL	6.30	45	305830	8.40	PPBV	99
20) ACETONE	6.11	58	109788	7.94	PPBV	98
21) ACRYLONITRILE	6.48	53	178080	9.38	PPBV	99
22) PENTANE	6.52	57	67151	9.74	PPBV	94
24) IODOMETHANE	6.73	142	670974	10.08	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	243800	9.81	PPBV	98
26) CARBON DISULFIDE	7.17	76	667329	9.06	PPBV	99
27) ETHANOL	5.71	45	71560	7.69	PPBV	98
28) ACETONITRILE	5.88	41	169200	9.00	PPBV	98
29) BROMOETHENE	5.90	106	250853	10.06	PPBV	99
30) METHYLENE CHLORIDE	6.87	84	237473	8.54	PPBV	99
31) 3-CHLOROPROPENE	6.97	76	113745	9.80	PPBV	97
32) FREON 113	7.08	151	443905	9.34	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.68	96	252065	9.52	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.82	59	391973	10.00	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.91	73	651756	9.10	PPBV	99
36) TETRAHYDROFURAN	9.28	72	112903	8.87	PPBV	98
37) HEXANE	8.76	57	398926	9.27	PPBV	99
38) VINYL ACETATE	7.96	86	63733	9.58	PPBV	97
39) 1,1-DICHLOROETHANE	7.86	63	434008	9.47	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	117098	9.15	PPBV #	88
41) cis-1,2-DICHLOROETHYLENE	8.60	96	266202	9.90	PPBV	98
42) DI-ISOPROPYL ETHER	8.76	45	818476	9.19	PPBV	100
43) ETHYL ACETATE	8.78	61	70753	8.81	PPBV #	89
44) METHYL ACRYLATE	8.78	55	439226	9.54	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 09:18:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CHLOROFORM	8.87	83	480912	9.37	PPBV		99
46)	2,4-DIMETHYLPENTANE	9.57	57	483123	9.53	PPBV		99
47)	1,1,1-TRICHLOROETHANE	9.78	97	487843	9.36	PPBV		99
48)	CARBON TETRACHLORIDE	10.36	117	518346	9.97	PPBV		99
49)	1,2-DICHLOROETHANE	9.55	62	289331	9.40	PPBV		98
51)	BENZENE	10.22	78	775490	9.29	PPBV		100
52)	CYCLOHEXANE	10.48	84	365884	9.66	PPBV		99
53)	2,3-DIMETHYLPENTANE	10.67	71	185871	9.69	PPBV		99
54)	TRICHLOROETHYLENE	11.22	95	328663	9.19	PPBV		99
55)	DIBROMOMETHANE	10.98	174	360406	9.84	PPBV		99
56)	1,2-DICHLOROPROPANE	11.00	63	282270	9.23	PPBV		100
57)	ETHYL ACRYLATE	10.97	55	521220	9.64	PPBV		100
58)	BROMODICHLOROMETHANE	11.19	83	537043	10.10	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.23	57	1285994	9.65	PPBV		100
60)	1,4-DIOXANE	11.25	88	122355	8.60	PPBV	#	1
61)	METHYL METHACRYLATE	11.39	69	272843	9.81	PPBV		97
62)	HEPTANE	11.47	43	444458	9.65	PPBV		100
64)	METHYL ISOBUTYL KETONE	12.10	43	505499	10.23	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.06	75	420604	9.24	PPBV		100
66)	TOLUENE	13.04	92	563952	9.64	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.58	75	407022	10.50	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.76	83	253897	9.38	PPBV		100
70)	ETHYL METHACRYLATE	13.29	69	439021	10.27	PPBV		98
71)	2-HEXANONE	13.31	43	479296	11.53	PPBV		100
72)	TETRACHLOROETHYLENE	14.20	164	406400	9.76	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.49	129	551541	10.68	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	456399	10.34	PPBV		100
75)	OCTANE	14.02	43	582447	9.72	PPBV		98
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	402784	10.16	PPBV	#	99
77)	CHLOROBENZENE	14.92	112	713578	9.89	PPBV		99
78)	ETHYLBENZENE	15.31	91	1132423	9.83	PPBV		100
79)	m,p-XYLENE	15.50	106	902062	20.10	PPBV		98
80)	o-XYLENE	16.02	106	434206	10.19	PPBV		100
81)	STYRENE	15.90	104	653762	10.16	PPBV		100
82)	1,2,3-TRICHLOROPROPANE	16.16	75	421275	10.02	PPBV		99
83)	NONANE	16.22	43	555697	9.87	PPBV		99
84)	BROMOFORM	15.61	173	558774	11.19	PPBV		100
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	539643	10.20	PPBV		99
87)	ISOPROPYLBENZENE	16.66	105	1255879	9.96	PPBV		100
88)	BROMOBENZENE	16.78	156	385823	10.27	PPBV		99
89)	2-CHLOROTOLUENE	17.20	126	297638	10.05	PPBV	#	100
90)	n-PROPYLBENZENE	17.23	120	331773	10.28	PPBV		98
91)	4-ETHYLTOLUENE	17.39	105	1091528	10.59	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	912569	10.29	PPBV		100
93)	ALPHA-METHYLSTYRENE	17.65	118	440050	10.44	PPBV		100
94)	TERT-BUTYLBENZENE	17.93	134	247550	10.25	PPBV		96
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	878878	10.71	PPBV		96
96)	m-DICHLOROBENZENE	18.12	146	530459	10.64	PPBV		100
97)	BENZYL CHLORIDE	18.10	91	574538	11.24	PPBV		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 09:18:13 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

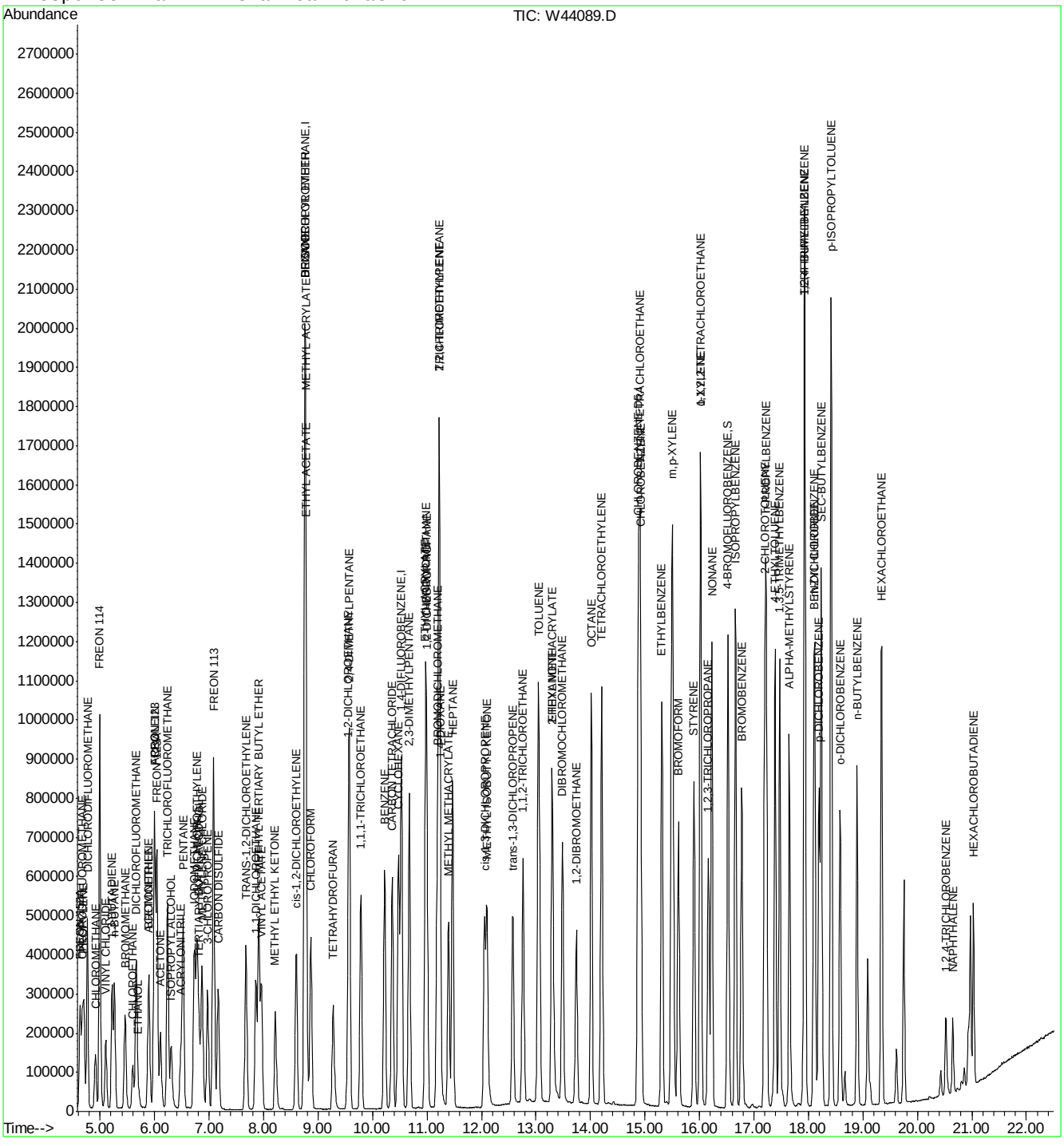
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-DICHLOROBENZENE	18.19	146	511980	10.72	PPBV	99
99)	SEC-BUTYLBENZENE	18.23	134	276222	10.16	PPBV	100
100)	p-ISOPROPYLTOLUENE	18.41	134	265872	10.08	PPBV	100
101)	o-DICHLOROBENZENE	18.58	146	475629	10.52	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	195800	10.02	PPBV	97
103)	HEXACHLOROETHANE	19.34	201	342988	10.52	PPBV	98
104)	HEXACHLOROBUTADIENE	21.03	225	125890	7.93	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.53	180	87450	8.16	PPBV	94
106)	NAPHTHALENE	20.65	128	206057	9.29	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44089.D Vial: 6
Acq On : 15 Oct 2013 5:11 pm Operator: danat
Sample : icv1765-10 Inst : MSW
Misc : MS56482,VW1765,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 9:18 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44174.D Vial: 3
Acq On : 19 Oct 2013 10:16 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 08:31:40 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	172063	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	878270	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	371250	10.00	PPBV	-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.52	95	451312	10.25	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.50%			
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	44234	9.36	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.74	85	466747	9.68	PPBV	99
6) PROPYLENE	4.68	41	150884	9.34	PPBV	100
7) FREON 114	4.97	85	482892	9.68	PPBV	98
8) CHLOROMETHANE	4.89	52	54224	9.51	PPBV #	88
9) VINYL CHLORIDE	5.08	62	203348	9.88	PPBV	99
10) 1,3-BUTADIENE	5.19	54	149975	9.26	PPBV	100
11) n-BUTANE	5.24	58	42510	9.76	PPBV	100
12) BROMOMETHANE	5.44	94	181741	9.50	PPBV	100
13) CHLOROETHANE	5.58	64	111276	9.71	PPBV	99
14) DICHLOROFLUOROMETHANE	5.64	67	409943	9.83	PPBV	99
15) ACROLEIN	5.97	56	74428	8.80	PPBV	99
16) FREON 123	5.97	83	431554	9.37	PPBV #	99
17) FREON 123A	6.02	117	283716	9.43	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.22	101	463479	9.55	PPBV	100
19) ISOPROPYL ALCOHOL	6.29	45	267534	9.06	PPBV	98
20) ACETONE	6.09	58	88857	7.93	PPBV	96
21) ACRYLONITRILE	6.46	53	141874	9.22	PPBV	99
22) PENTANE	6.50	57	50647	9.06	PPBV	95
24) IODOMETHANE	6.71	142	506776	9.39	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.76	96	192415	9.56	PPBV	100
26) CARBON DISULFIDE	7.15	76	566141	9.48	PPBV	99
27) ETHANOL	5.69	45	60854	8.07	PPBV	95
28) ACETONITRILE	5.86	41	138297	9.08	PPBV	97
29) BROMOETHENE	5.88	106	195357	9.66	PPBV	100
30) METHYLENE CHLORIDE	6.85	84	220271	9.77	PPBV	100
31) 3-CHLOROPROPENE	6.95	76	89094	9.47	PPBV	99
32) FREON 113	7.07	151	361140	9.37	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	204642	9.54	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.80	59	340057	10.70	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.90	73	512251	8.83	PPBV	100
36) TETRAHYDROFURAN	9.27	72	91057	8.83	PPBV	97
37) HEXANE	8.75	57	329952	9.46	PPBV	98
38) VINYL ACETATE	7.94	86	49775	9.23	PPBV	97
39) 1,1-DICHLOROETHANE	7.84	63	350494	9.43	PPBV	99
40) METHYL ETHYL KETONE	8.21	72	90211	8.69	PPBV #	90
41) cis-1,2-DICHLOROETHYLENE	8.58	96	208104	9.55	PPBV	98
42) DI-ISOPROPYL ETHER	8.75	45	626723	8.68	PPBV	100
43) ETHYL ACETATE	8.78	61	60264	9.25	PPBV #	1
44) METHYL ACRYLATE	8.77	55	333675	8.94	PPBV	99
45) CHLOROFORM	8.85	83	381352	9.16	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44174.D Vial: 3
Acq On : 19 Oct 2013 10:16 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 08:31:40 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.56	57	378592	9.21	PPBV		100
47)	1,1,1-TRICHLOROETHANE	9.77	97	392919	9.30	PPBV		100
48)	CARBON TETRACHLORIDE	10.35	117	411553	9.76	PPBV		100
49)	1,2-DICHLOROETHANE	9.54	62	230538	9.24	PPBV		100
51)	BENZENE	10.21	78	620898	9.16	PPBV		100
52)	CYCLOHEXANE	10.47	84	291978	9.49	PPBV		99
53)	2,3-DIMETHYLPENTANE	10.67	71	147115	9.45	PPBV		98
54)	TRICHLOROETHYLENE	11.21	95	262315	9.03	PPBV		100
55)	DIBROMOMETHANE	10.97	174	279448	9.39	PPBV		100
56)	1,2-DICHLOROPROPANE	10.99	63	225125	9.07	PPBV		99
57)	ETHYL ACRYLATE	10.96	55	383219	8.73	PPBV		100
58)	BROMODICHLOROMETHANE	11.18	83	408443	9.46	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	1021608	9.44	PPBV		99
60)	1,4-DIOXANE	11.25	88	101883	8.82	PPBV		94
61)	METHYL METHACRYLATE	11.39	69	201038	8.91	PPBV		96
62)	HEPTANE	11.46	43	348871	9.33	PPBV		99
64)	METHYL ISOBUTYL KETONE	12.10	43	367708	9.16	PPBV		100
65)	cis-1,3-DICHLOROPROPENE	12.05	75	343914	9.30	PPBV		99
66)	TOLUENE	13.03	92	435735	9.17	PPBV		99
67)	trans-1,3-DICHLOROPROPENE	12.57	75	297425	9.45	PPBV		99
68)	1,1,2-TRICHLOROETHANE	12.75	83	196084	8.92	PPBV		100
70)	ETHYL METHACRYLATE	13.29	69	332945	9.81	PPBV		100
71)	2-HEXANONE	13.31	43	342268	10.37	PPBV		99
72)	TETRACHLOROETHYLENE	14.20	164	315210	9.53	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.48	129	428397	10.45	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	350294	10.00	PPBV		100
75)	OCTANE	14.01	43	454642	9.56	PPBV		99
76)	1,1,1,2-TETRACHLOROETHANE	14.90	131	314096	9.98	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	556493	9.72	PPBV		99
78)	ETHYLBENZENE	15.31	91	860721	9.41	PPBV		100
79)	m,p-XYLENE	15.50	106	683880	19.20	PPBV		100
80)	o-XYLENE	16.02	106	325884	9.63	PPBV		99
81)	STYRENE	15.89	104	490522	9.60	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	316771	9.49	PPBV		100
83)	NONANE	16.22	43	426629	9.54	PPBV		99
84)	BROMOFORM	15.61	173	416965	10.52	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	401921	9.57	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	964351	9.64	PPBV		99
88)	BROMOBENZENE	16.77	156	297876	9.99	PPBV		99
89)	2-CHLOROTOLUENE	17.19	126	231231	9.84	PPBV	#	99
90)	n-PROPYLBENZENE	17.22	120	254790	9.95	PPBV		96
91)	4-ETHYLTOLUENE	17.39	105	814429	9.95	PPBV		100
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	697188	9.91	PPBV		98
93)	ALPHA-METHYLSTYRENE	17.65	118	332124	9.93	PPBV		99
94)	TERT-BUTYLBENZENE	17.92	134	202135	10.54	PPBV		85
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	656187	10.07	PPBV		98
96)	m-DICHLOROBENZENE	18.11	146	414196	10.46	PPBV		100
97)	BENZYL CHLORIDE	18.09	91	456050	11.23	PPBV		98
98)	p-DICHLOROBENZENE	18.19	146	400081	10.55	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44174.D Vial: 3
Acq On : 19 Oct 2013 10:16 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 08:31:40 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

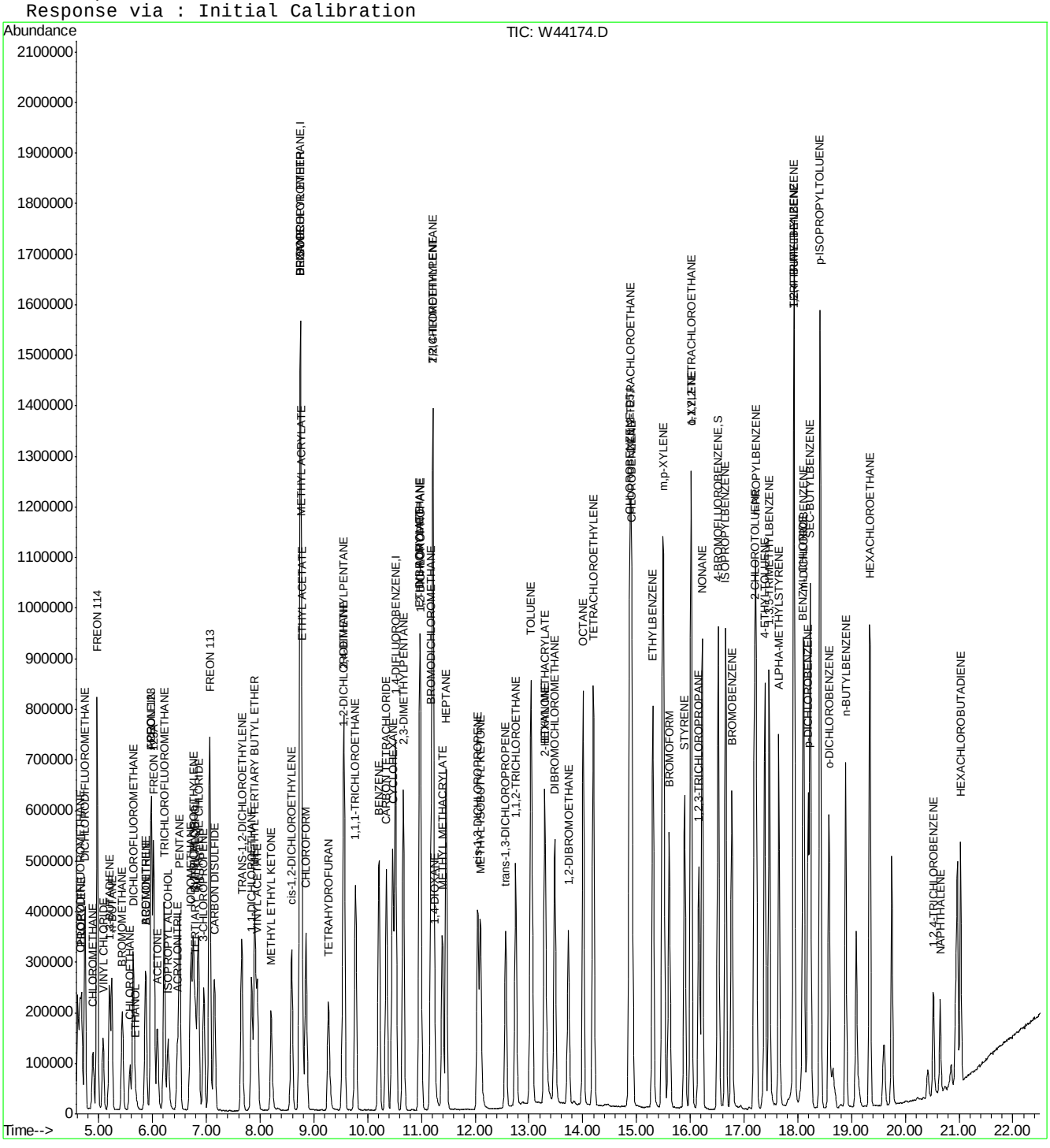
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	214266	9.93	PPBV	97
100)	p-ISOPROPYLTOLUENE	18.41	134	208232	9.94	PPBV	97
101)	o-DICHLOROBENZENE	18.58	146	367372	10.24	PPBV	100
102)	n-BUTYLBENZENE	18.89	134	154864	9.98	PPBV	96
103)	HEXACHLOROETHANE	19.34	201	276240	10.67	PPBV	99
104)	HEXACHLOROBUTADIENE	21.03	225	124377	9.87	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	91830	10.80	PPBV	99
106)	NAPHTHALENE	20.65	128	194366	11.04	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44174.D Vial: 3
Acq On : 19 Oct 2013 10:16 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 11:55 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Oct 18 09:18:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44201.D Vial: 2
Acq On : 21 Oct 2013 10:05 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:55:58 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	163116	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.52	114	813331	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.87	82	345687	10.00	PPBV	-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.52	95	442843	10.80	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 108.00%

Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.65	67	40940	9.14	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.74	85	437303	9.57	PPBV	99
6) PROPYLENE	4.68	41	134848	8.80	PPBV	100
7) FREON 114	4.97	85	443014	9.37	PPBV	99
8) CHLOROMETHANE	4.88	52	48701	9.01	PPBV	94
9) VINYL CHLORIDE	5.08	62	181425	9.29	PPBV	99
10) 1,3-BUTADIENE	5.19	54	134453	8.76	PPBV	98
11) n-BUTANE	5.24	58	37361	9.04	PPBV	98
12) BROMOMETHANE	5.43	94	170535	9.40	PPBV	98
13) CHLOROETHANE	5.58	64	100407	9.24	PPBV	99
14) DICHLOROFLUOROMETHANE	5.64	67	368749	9.33	PPBV	100
15) ACROLEIN	5.97	56	65567	8.17	PPBV	99
16) FREON 123	5.97	83	397148	9.09	PPBV #	99
17) FREON 123A	6.02	117	266445	9.34	PPBV	96
18) TRICHLOROFLUOROMETHANE	6.22	101	435211	9.46	PPBV	100
19) ISOPROPYL ALCOHOL	6.30	45	216888	7.75	PPBV	96
20) ACETONE	6.09	58	115447	10.87	PPBV	97
21) ACRYLONITRILE	6.46	53	124446	8.53	PPBV	98
22) PENTANE	6.50	57	45573	8.60	PPBV	98
24) IODOMETHANE	6.71	142	486922	9.52	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.75	96	178609	9.36	PPBV	96
26) CARBON DISULFIDE	7.15	76	522428	9.23	PPBV	99
27) ETHANOL	5.69	45	50109	7.01	PPBV	98
28) ACETONITRILE	5.87	41	120661	8.35	PPBV	95
29) BROMOETHENE	5.87	106	178985	9.34	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	204340	9.56	PPBV	96
31) 3-CHLOROPROPENE	6.96	76	81035	9.09	PPBV	97
32) FREON 113	7.07	151	349570	9.57	PPBV	98
33) TRANS-1,2-DICHLOROETHYLENE	7.66	96	191262	9.40	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.81	59	271964	9.02	PPBV	98
35) METHYL TERTIARY BUTYL ETHE	7.90	73	470842	8.56	PPBV	99
36) TETRAHYDROFURAN	9.27	72	120863	12.36	PPBV	95
37) HEXANE	8.75	57	295228	8.92	PPBV	98
38) VINYL ACETATE	7.95	86	45822	8.96	PPBV #	84
39) 1,1-DICHLOROETHANE	7.84	63	311946	8.85	PPBV	98
40) METHYL ETHYL KETONE	8.21	72	102234	10.39	PPBV #	90
41) cis-1,2-DICHLOROETHYLENE	8.58	96	195251	9.45	PPBV	95
42) DI-ISOPROPYL ETHER	8.75	45	552304	8.07	PPBV	99
43) ETHYL ACETATE	8.78	61	54331	8.80	PPBV #	96
44) METHYL ACRYLATE	8.77	55	298655	8.44	PPBV	99
45) CHLOROFORM	8.86	83	350644	8.89	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44201.D Vial: 2
Acq On : 21 Oct 2013 10:05 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:55:58 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	2,4-DIMETHYLPENTANE	9.56	57	335000	8.60	PPBV		98
47)	1,1,1-TRICHLOROETHANE	9.77	97	362544	9.05	PPBV		99
48)	CARBON TETRACHLORIDE	10.35	117	385430	9.64	PPBV		100
49)	1,2-DICHLOROETHANE	9.54	62	210908	8.91	PPBV		100
51)	BENZENE	10.21	78	568132	9.05	PPBV		99
52)	CYCLOHEXANE	10.47	84	269491	9.46	PPBV		96
53)	2,3-DIMETHYLPENTANE	10.66	71	130755	9.07	PPBV		99
54)	TRICHLOROETHYLENE	11.21	95	239834	8.92	PPBV		97
55)	DIBROMOMETHANE	10.97	174	267943	9.72	PPBV		97
56)	1,2-DICHLOROPROPANE	10.99	63	198828	8.65	PPBV		99
57)	ETHYL ACRYLATE	10.97	55	338449	8.33	PPBV		97
58)	BROMODICHLOROMETHANE	11.18	83	369864	9.25	PPBV		100
59)	2,2,4-TRIMETHYLPENTANE	11.22	57	898748	8.97	PPBV		99
60)	1,4-DIOXANE	11.27	88	88815	8.30	PPBV	#	45
61)	METHYL METHACRYLATE	11.39	69	183009	8.75	PPBV		95
62)	HEPTANE	11.46	43	305079	8.81	PPBV		97
64)	METHYL ISOBUTYL KETONE	12.10	43	324067	8.72	PPBV		98
65)	cis-1,3-DICHLOROPROPENE	12.05	75	309057	9.03	PPBV		98
66)	TOLUENE	13.03	92	401784	9.13	PPBV		100
67)	trans-1,3-DICHLOROPROPENE	12.57	75	267906	9.19	PPBV		98
68)	1,1,2-TRICHLOROETHANE	12.75	83	177780	8.74	PPBV		99
70)	ETHYL METHACRYLATE	13.29	69	301646	9.54	PPBV		98
71)	2-HEXANONE	13.31	43	298173	9.70	PPBV		97
72)	TETRACHLOROETHYLENE	14.20	164	301881	9.80	PPBV		99
73)	DIBROMOCHLOROMETHANE	13.48	129	399960	10.48	PPBV		100
74)	1,2-DIBROMOETHANE	13.74	107	326714	10.01	PPBV		100
75)	OCTANE	14.01	43	387500	8.75	PPBV		95
76)	1,1,1,2-TETRACHLOROETHANE	14.89	131	294662	10.05	PPBV	#	100
77)	CHLOROBENZENE	14.92	112	517068	9.70	PPBV		97
78)	ETHYLBENZENE	15.31	91	787793	9.25	PPBV		99
79)	m,p-XYLENE	15.50	106	637793	19.23	PPBV		99
80)	o-XYLENE	16.02	106	303522	9.64	PPBV		98
81)	STYRENE	15.90	104	453637	9.54	PPBV		99
82)	1,2,3-TRICHLOROPROPANE	16.16	75	298483	9.60	PPBV		99
83)	NONANE	16.22	43	368340	8.85	PPBV		97
84)	BROMOFORM	15.61	173	397437	10.77	PPBV		99
86)	1,1,2,2-TETRACHLOROETHANE	16.02	83	372189	9.51	PPBV		100
87)	ISOPROPYLBENZENE	16.66	105	890649	9.56	PPBV		98
88)	BROMOBENZENE	16.77	156	284638	10.25	PPBV		96
89)	2-CHLOROTOLUENE	17.19	126	217208	9.92	PPBV	#	97
90)	n-PROPYLBENZENE	17.22	120	242849	10.18	PPBV		91
91)	4-ETHYLTOLUENE	17.39	105	759457	9.97	PPBV		99
92)	1,3,5-TRIMETHYLBENZENE	17.47	105	637423	9.73	PPBV		98
93)	ALPHA-METHYLSTYRENE	17.65	118	313862	10.08	PPBV		99
94)	TERT-BUTYLBENZENE	17.92	134	175773	9.84	PPBV		98
95)	1,2,4-TRIMETHYLBENZENE	17.94	105	604232	9.96	PPBV		98
96)	m-DICHLOROBENZENE	18.11	146	394915	10.72	PPBV		99
97)	BENZYL CHLORIDE	18.09	91	407788	10.79	PPBV		99
98)	p-DICHLOROBENZENE	18.19	146	370933	10.50	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44201.D Vial: 2
Acq On : 21 Oct 2013 10:05 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:55:58 2013 Quant Results File: MW1765.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration
DataAcq Meth : TO15W

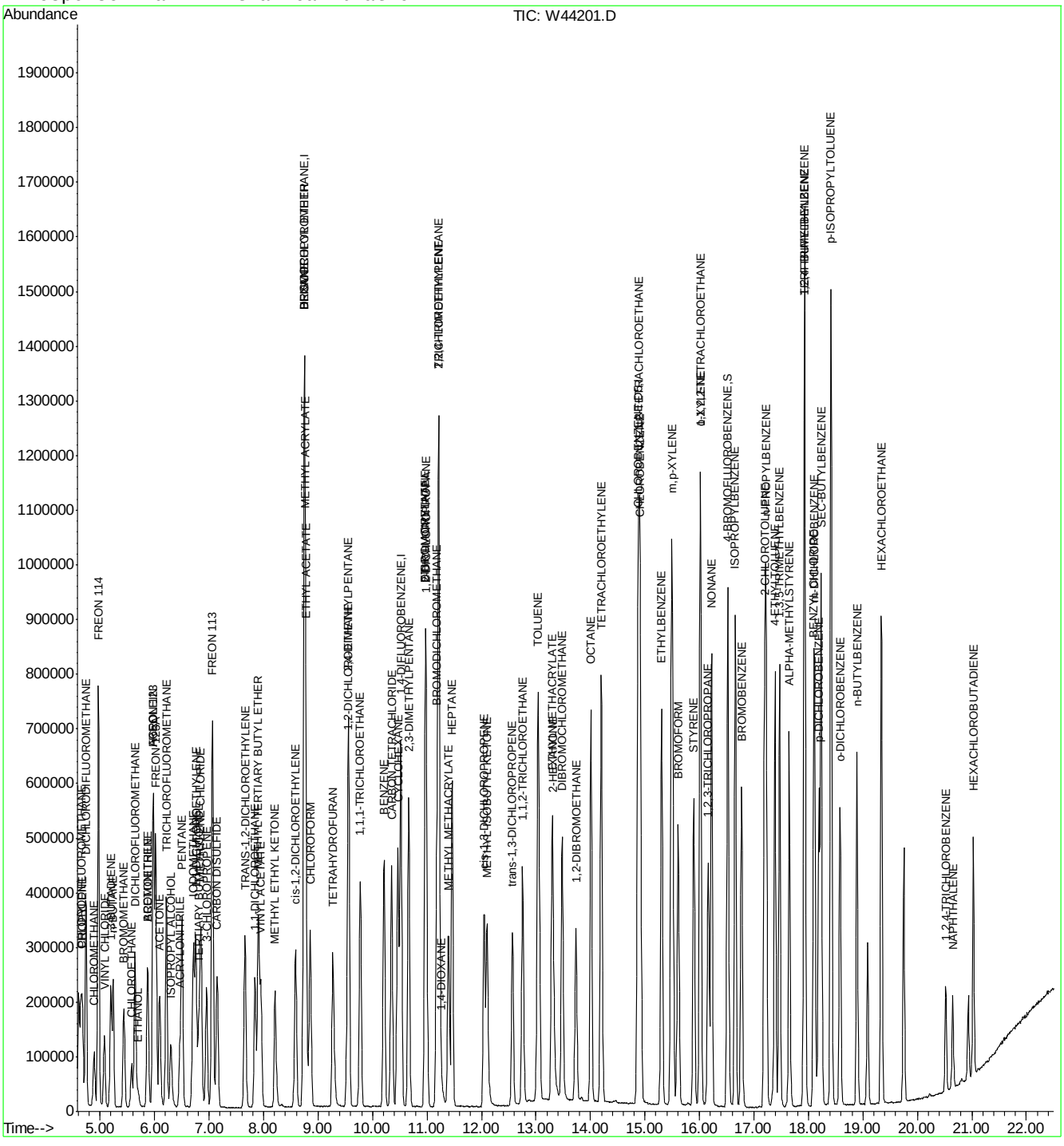
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	SEC-BUTYLBENZENE	18.23	134	205303	10.22	PPBV	95
100)	p-ISOPROPYLTOLUENE	18.41	134	199862	10.25	PPBV	97
101)	o-DICHLOROBENZENE	18.58	146	354241	10.60	PPBV	99
102)	n-BUTYLBENZENE	18.89	134	149188	10.33	PPBV	93
103)	HEXACHLOROETHANE	19.34	201	263082	10.91	PPBV	96
104)	HEXACHLOROBUTADIENE	21.03	225	119051	10.15	PPBV	99
105)	1,2,4-TRICHLOROBENZENE	20.52	180	89301	11.28	PPBV	98
106)	NAPHTHALENE	20.65	128	182342	11.13	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W44201.D Vial: 2
Acq On : 21 Oct 2013 10:05 am Operator: danat
Sample : cc1765-10 Inst : MSW
Misc : MS56739,VW1769,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 13:56 2013 Quant Results File: MW1765.RES

Method : C:\MSDCHEM\1\METHODS\MW1765.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Oct 21 11:56:16 2013
Response via : Initial Calibration



ACCUTEST

TO-14/TO-15

Batch ID: V3W1350

Date: 7/23/13

Analyst Signature: [illegible]

Columns: Rtx-1 60m x 0.32mm
Method: TO15W.m
Seq. File: 3W0723U.S
Initial Cal. Method: MSW1350

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS5643	Int/Surr	40 ppbV
AS5674	TO15 Std	40 ppbV
AS5675	TO15 Std	1 ppbV
AS5676	TO15 Std	0.4 ppbV

Standard Data

Lot #	Description	Conc.
AS5673	TO15 LCS	40 ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 7/26/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W35037	BFB		A959	100					OK	time 8:09
2	3W35038	ICC1350-10		A974	100					not used	RT Test
2	3W35039	ICC1350-10		A974	100			✓	✓	ok	
2	3W35040	IC1350-5		A974	50			✓	✓	ok	
1	3W35041	IC1350-0.5		A972	200					not used	
1	3W35042	IC1350-0.2		A973	80			✓	✓	ok	
2	3W35043	IC1350-30		A974	300			✓	✓	ok	
2	3W35044	IC1350-20		A974	200			✓	✓	ok	
2	3W35045	IC1350-15		A974	150			✓	✓	ok	
5	3W35046	IB		A959	100					—	
1	3W35047	IC1350-0.5		A973	200			✓	✓	ok	
1	3W35048	IC1350-0.1		A973	100			✓	✓	ok	
3	3W35049	IC1350-0.04		A976	40			✓	✓	ok	
2	3W35050	IC1350-40		A974	400			✓	✓	ok	
5	3W35051	IB		A959	100					—	
5	3W35052	IB		A959	100					—	
4	3W35053	ICV1350-10		A969	100			✓	✓	ok	
5	3W35054	IB		A959	100					—	
14	3W35055	SCC		A028	100			✓	✓	ok	
15	3W35056	SCC		A744	100			✓	✓	ok	

[illegible] 7/24/13

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05
Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Batch ID: V3W1397

Date: 10/7/13

Analyst Signature: [illegible]

Columns: RTX-1 60M X.32mm
Method: TO15 3W.M
Seq. File: 3W100713.S
Initial Cal. Method: M3W1350

AS Data

Method: TO15,MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 5742	TO15 STD	40ppbv
AS 5743	TO15 LCS	↓
AS 5762	IS/SURR	↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 10/8/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W36332	BFB		A959	100					ok	
2	3W36333	CC1350-10		A978	100			✓	✓	ok	
3	3W36334	BS		A972	100			✓	✓	ok	
3	3W36335	BSD		A972	100			✓	✓	ok	
5	3W36336	IB		A959	100			✓	✓	—	
5	3W36337	MB		A959	400			✓	✓	ok	
5	3W36338	SCC		A595	400			✓	✓	ok	
6	3W36339	JB48519-1	STD,Nap	A699,A713	200	112		✓	✓	OK/DL	RR20ml
7	3W36340	JB48519-2	↓	A519,A1031	200	1,150		✓	✓	OK/DL	RR50,000X
8	3W36341	JB48519-3	↓	A1120,A731	~~200~~ 100 YH	1,250		✓	✓	ok	
9	3W36342	SCC		A936	400	1		✓	✓	RR	Valve closed
10	3W36343	JB48519-1	STD,Nap	A699	20	1.12		✓	✓	ok	
11	3W36344	JB48519-2	↓	A519,A1031,A595	~~100~~ 150 YH	23,000		✓	✓	ok	
12	3W36345	JB44137-2	STD,Nap CUME	A1030	25	1.25		✓	✓	ok	
13	3W36346	SCC		YH ~~A1237~~	400	1		✓	✓	ok	A936
14	3W36347	JB49227-1	STD	A1225	20	1		↑	✓	OK/DL	RR100X
15	3W36348	JB49227-2	↓	A1232	100	1		✓	✓	ok	
15	3W36349	JB49227-2Dup	↓	A1232	100	1		✓	✓	ok	
16	3W36350	JB49072-1	STD	A703	40	1.43		✓	✓	ok	
1	3W36351	JB49072-2	↓	A684	20	1		✓	✓	ok	
2	3W36352	JB49267-1	STD+	A1160	200	1.52		✓	✓	ok	
3	3W36353	JB49178-1	STD	A1093,A688	20	47.2		✓	✓	ok	
4	3W36354	JB49178-2	↓	A236,A194	20	240		✓	✓	ok	
5	3W36355	JB49178-3	↓	A1174,A746	40	250		✓	✓	ok	
6	3W36356	JB49228-1	STD	A1062	100	1		✓	✓	ok	
7	3W36357	JB49228-2	↓	A258	100	1		✓	✓	ok	
8	3W36358	JB49228-3	↓	A1170	100	1		✓	✓	ok	
9	3W36359	JB49291-1	STD	A863	100	1				notrun	out of BFB Time
10	3W36360	JB49291-2	↓	A271	100	1				↓	↓
11	3W36361	JB49291-3	↓	A193	100	1				↓	↓

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Form: AT008-05
Rev. Date: 10/20/09

Accutest Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
10/7/13	YH	J848519-1	A699	1.0	1.2	1.12	A713	1000	20	14.7	2000	100	112
↓	|	| -2	A519	2.0	1.1	1.15	A1031	6000	10	9.8	10,000	1,000	1,150
		| -3	A1120	4.0	1.2	1.25	A731	6000	10	9.8	10,000	1,000	1,250
10/	YH	-2	A1031	+14.7	+14.7	1,150	A595	1000	100	14.7	2000	20	23,000

Definition: Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

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Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Date: 10/14/13 - 10/15/13

Batch ID: VW1765

Analyst Signature: [signature]

Columns: RTX 1 - 60m x 0.32mm x 1.0µm

Method: W-015. M

Seq. File: W131014.S

Initial Cal. Method: MW1765.M

AS Data

Method: T015 MPT

Standard Data

Lot #	Description	Conc.
AS5771	T015 Std	0.4 ppbv
AS5770	T015 Std	1.0 ppbv
AS5768	T015 Std	40 ppbv

Standard Data

Lot #	Description	Conc.
AS5783	Int Std/Sum	40 ppbv
AS5767	T015 LCS	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 10/16/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	W44071	I2		A960	100						
1	W44072	I3		A960	100						
1	W44073	I2		A960	100						
1	W44074	BFB		A960	100					OK	time 622
2	W44075	IC1765-0.04		A974	40			✓	✓	OK	
3	W44076	IC1765-0.1		A973	40			✓	✓	OK	
3	W44077	IC1765-0.2		A973	80		X OT 10/15/13	✓	✓	OK	
3	W44078	IC1765-0.5		A973	200		X OT 10/15/13	✓	✓	OK	
4	W44079	IC1765-5		A969	50		X OT 10/15/13	✓	✓	OK	
4	W44080	IC1765-10		A969	100		X OT 10/15/13	✓	✓	OK	
4	W44081	IC1765-15		A969	150		X OT 10/15/13	✓	✓	RR	last 3 compounds low
4	W44082	IC1765-20		A969	200		X OT 10/15/13	✓	✓	RR	↓ ↓
4	W44083	IC1765-30		A969	300		X OT 10/15/13	✓	✓	~~OK~~ RR OT 10/15/13	not used
4	W44084	IC1765-40		A969	400		X OT 10/15/13	✓	✓	OK	
1	W44085	I2		A960	100		X OT 10/15/13				
4	W44086	IC1765-30		A969	300		X OT 10/15/13 ✓	✓	✓	OK	
4	W44087	IC1765-20		A969	200		X OT 10/15/13	✓	✓	OK	
4	W44088	IC1765-15		A969	150		X OT 10/15/13	✓	✓	OK	
6	W44089	ICV1765-10		A965	100			✓	✓	OK	

OT 10/15/13

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Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Date: 10/21/13

Batch ID: VW1770

Analyst Signature: [illegible]

Columns: RTX1 - 60m x 0.32mm x 1.0µm

Method: TO15W.m

Seq. File: W31021.S

Initial Cal. Method: MW1765.m

AS Data

Method: TO15-MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS5783	Int/Surr	40ppbv
AS5768	TO15 Std	40ppbv
AS5783	TO15 LCS	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 10/22/13

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	*TICS	Int. STD Areas	Surr	Status Data	Comments
1	W44200	BFB		A275	100			✓	✓	OK	Time 922
2	W44201	CC17165-10		A5969	100			✓	✓	OK	
2	W44202	BS		A965	100			✓	✓	OK	
2	W44203	BSD		A965	100			✓	✓	OK	ethanol, 1,4 dioxane ↓
2	W44204	BSD		A965	100			✓	✓	OK	
1	W44205	IB		A275	400						
1	W44206	MB		A275	400			✓	✓	OK	also see CP6518
2	W44207	JB50614-1	TO15 STD	A1171	20	1		✓	✓	OK/OL	OL 10mL, over cal
3	W44208	JB50614-2	MS7016	A995	20	1		✓	✓	OK	
4	W44209	JB50614-3		A881	10	1.65		✓	✓	OK	
6	W44210	JB50614-4		A183	20	1		✓	✓	OL	OL 400 mL, too dilute
7	W44211	JB50614-5		A214	20	1		✓	✓	OK	
1	W44212	JB50673-1		A936	100	1		✓	✓	OK/OL	OL 20mL, over cal
2	W44213	JB50673-2		A940	100	1		✓	✓	OK/OL	OL 20mL, over cal
2	W44214	JB50673-2 Dup		A940	100	1		✓	✓	OK	
1	W44215	JB50673-1		A936	20	1		✓	✓	OK/OL	
2	W44216	JB50673-2		A940	20	1		✓	✓	OK/OL	
3	W44217	JB50614-2	TO15 STD MS56442	A630/A741	10	1200					computer error, not run
4	W44218	JB50614-1	TO15 STD MS57076	A1171	10	1					
6	W44219	JB50614-4		A183	400	1					
7	W44220	JB50276-3	TO15 STD MS56284	A938	10	1					
8	W44221	JB50176-1	TO15 STD MS56759	A794	20	1.48					
9	W44222	JB50613-1	TO15 STD MS57076	A1041	592	1.48					
10	W44223	JB50613-2		A1039	632	1.58					
11	W44224	JB50613-3		A1037	632	1.58					
12	W44225	JB50613-4		A1045	632	1.58					
13	W44226	JB50613-5		A1049	608	1.52					
14	W44227	JB50560-1	TO15 STD MS57077	A027	400	1					
15	W44228	JB50477-1	TO15 STD MS56788	A834	400	1					
16	W44229	See CP6547		A589	400	1					

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Form: AT008-05

Rev. Date: 10/20/09