

A lush green forest with a stream flowing through mossy rocks. The water is clear and reflects the surrounding greenery. The rocks are covered in vibrant green moss, and the forest floor is covered in fallen leaves and branches. The overall scene is peaceful and natural.

REMEDIAL INVESTIGATION REPORT

5140 Site Yorkville, New York

February 13, 2015

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1 Introduction

WSP, on behalf of 5140 Commercial Drive, LLC (5140), has prepared this Remedial Investigation (RI) Report for the property at 5140 Commercial Drive in Yorkville, New York. The investigation activities, which included soil, groundwater, and vapor sampling, were designed to complete the characterization of the site, as requested by the New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH). The request was part of the Departments' response to a strategy outlined in the March 2013 New York State Brownfield Cleanup Program (BCP) application for the site, which envisioned a direct-to-remediation approach to address polychlorinated biphenyl-impacted (PCB-impacted) soil near an exterior concrete loading dock (concrete pad). The remedial work was proposed as the final remedy based on the sampling and characterization results from investigations. The Departments reviewed the BCP application and identified data gaps in the site characterization, including the area beneath the main building, which would require further evaluation before proceeding to a final remedy¹. This report details the investigation activities designed to address the data gaps identified by the Departments.

All work detailed in this report was conducted under a Brownfield Cleanup Agreement (BCA Index No.:C633079-06-13), dated August 7, 2013, between 5140 and the NYSDEC. The work was performed in accordance with the approved *Revised Remedial Investigation Work Plan*, dated June 24, 2014, WSP's standard operating procedures (SOPs)², a site-specific health and safety plan, and the quality assurance procedures outlined below.

1.1 Report Organization

The content of this RI Report is based on the NYSDEC's *Technical Guidance for site Investigation and Remediation (DER-10)*, dated May 2010, the *Brownfield Cleanup Program Guide*, dated May 2004, and NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006. The report is divided into six sections, including this introduction:

- Section 2 describes the site location and setting, the layout of the site facilities, and provides background on the previous investigations and remedial action
- Section 3 outlines the Departments' request for additional investigations and presents the scope of work designed to address those requests
- Section 4 details the investigation data
- Section 5 presents the conclusions and WSP's recommendations for additional work
- Section 6 lists the acronyms and abbreviations used throughout the report

It is important to note that this report builds on investigation and remediation work previously performed at the site by WSP and other consultants. The primary documents used for reference in preparing the background sections of this plan are:

- *Soil Excavation Work Plan*, dated August 1, 2011, prepared by the Palmerton Group Environmental Consulting Services of East Syracuse, New York
- *Soil Excavation Summary Report and Request for Spill Closure (Spill Number 1107657)*, dated October 18, 2011, prepared by the Palmerton Group
- *Interior PCB Cleaning and Encapsulation*, dated October 28, 2011, prepared by the Palmerton Group

¹ The proposed remedial activities outlined in the BCP application were approved as an interim remedial measure (IRM), which was performed in February and March 2014. See the Construction Completion Report – Interim Remedial Measure, dated May 23, 2014, for additional information.

² Copies of the relevant SOPs used for the investigation are presented in the *Revised Remedial Investigation Work Plan*, dated June 24, 2014.

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- *Additional Investigation Report*, dated March 18, 2013, prepared by WSP

It is also important to note that an Interim Remedial Measure (IRM) was implemented at the site during February and March 2014. The activities, which included the demolition of the concrete pad, the removal of PCB-affected soil beneath and adjacent to the pad, and the removal of additional soil along the southern property line, are not summarized in this report except when necessary to provide context for the current investigation. A detailed description of the IRM activities was provided in the Construction Completion - Interim Remedial Measure, dated May 23, 2014.

2 Background

The 5140 site is situated on 1.9 acres in a commercial and industrial area along the Utica –Yorkville city limits in the eastern portion of Oneida County (Figure 1; Sheet 2). Prominent site features are illustrated in Sheet 3 and include:

- an 18,000-square-foot concrete block and sheet metal main warehouse-style building;
- an attached 5,000-square-foot single story concrete block office building (northeast corner); and
- a 50-foot-wide by 60-foot-long elevated concrete pad formerly located at the southeast corner of the main building (the concrete pad was removed as part of the IRM; see below).

A paved entranceway and parking area are present along the east side of the property with the paved drive extending around to the southern portion of the building to what was reportedly the loading dock and rail bay. The balance of the site is covered by grass and landscaped areas.

The site is located in a light industrial and commercially-zoned area and is adjoined to the west by Meelan's Carpet One Floor & Home, a residential flooring center (Sheet 2). To the east, the site is bordered by two narrow (approximately 50 feet wide) strips of vacant land owned by DI Highway Sign & Structure, Inc., (directly adjacent) and the 5150 Corporation (further east)³, and beyond those properties, by Yorkville Battery, a discount battery retailer. The site is abutted to the south³ and southwest by O.W. Hubbell & Sons, Inc., a metal galvanizer, and by DI Highway Sign & Structure. Portions of the Hubbell property also extend to the northwest fronting on commercial drive directly west of Meelan's Carpet. The site is bounded to the north by Commercial Drive and Route 5A and further to the north by Harbor Freight & Tools, a discount tool retailer. Sauquoit Creek, the nearest water body to the site, adjoins the Harbor Freight property to the north and west.

2.1 Development and Operational History

The site was originally constructed in 1957 for Westinghouse Electric Corporation for use as an electrical equipment repair facility. No first-hand information regarding the operations at the facility was available at the time of this report; however, a number of site plans were recovered from the current owner showing the general layout of the facility during Westinghouse's tenure. The majority of the operations appear to be associated with repairing, winding, and assembling coils for electrical transformers and other electrical equipment, most of which was performed in the northern and central portions of the production area of the building. The historical drawings also indicate testing facilities, a varnish and dip line, and two steam cleaning stations near sump pits 1 and 2 (Sheet 3). Other prominent internal features include a rail bay in the southwest corner of the facility (the spur from which formerly connected to the railroad tracks south of the site); above grade overhead doors, presumably used as shipping and receiving docks, along the south and east walls of the facility; and a 15-foot-deep transformer detanking pit. The detanking pit was equipped with an oil water separator and appears to have been connected (via buried pipelines) to three aboveground storage tanks (ASTs), two 6,000-gallon tanks used to store used or recycled transformer oil, and one 15,000-gallon tank used to store virgin transformer oil, that were formerly located south of the main building. The portion of the property where the tanks were formerly located was sold to the adjacent landowner, O.W. Hubbell & Sons, sometime before 2000.

Westinghouse operated at the facility for 29 years, after which it was sold in 1986 to Eastern Electric Apparatus Repair Company. Eastern Apparatus repaired electric motors at the facility for 12 years selling the site to the Grand Eagle Motor Repair Company in 1998, who then sold the property 4 years later to 5140 Commercial Drive, LLC. K.J. Electric operated at the property from 2002 through 2009 for electric motor repairs. No additional information was available regarding the specific operations at the facility during these years.

³ The property south of the site includes an unnamed 60-foot-wide parcel that was originally part of the 5140 Site, but was later sold to O. W. Hubbell & Sons, Inc.

Both the production and office space have been vacant since 2009. The property is currently under contract for sale to a light industrial company, who intends to use the site for warehousing and assembly operations.

2.2 Previous Investigations and Remediation

The 5140 site has been the subject of several environmental investigations focused on PCBs that date back to the mid-1990s, including:

- a 1995 Phase I Environmental Assessment performed by GaiaTech, Inc., of Chicago, Illinois (1995 Phase I);
- a 2010 Phase I Environmental Assessment by Sanborn, Head, & Associates (SHA) of Concord, New Hampshire (2010 Phase I);
- a 2010 Phase II Environmental site Investigation conducted by Geoscience Technical Services, Inc., of Clinton, New York (2010 Phase II); and
- a 2011 expanded Phase II investigation performed by the Palmerton Group, of East Syracuse, New York (2011 Phase II).

GaiaTech's initial evaluation identified PCBs as a potential concern at the site and, during a limited follow-up investigation south of the main building, confirmed that PCBs were present in four soil samples⁴ at concentrations ranging from 9 to 148 milligrams per kilogram (mg/kg) and in several wipe samples collected from the facility floor and other surfaces in the main building at concentrations between 19 and 162 micrograms per square centimeter ($\mu\text{g}/\text{cm}^2$). The report also indicated that "a (PCB) cleanup had been performed at the site but no documentation was found" and that the site had reportedly been listed under the NYSDEC's inactive hazardous waste program for "suspected PCB contamination" in 1986. However, neither GaiaTech nor successive investigators (including WSP) were able to confirm the NYSDEC listing. GaiaTech speculated that the PCB cleanup may have resolved the listing.

As part of a potential sale of the property, SHA performed the 2010 Phase I and Geoscience performed the subsequent 2010 Phase II. The 2010 Phase I indicated that the adjacent property owner, O.W. Hubbell & Sons, Inc., performed a remedial action in 2000 to address "widespread PCB contamination" on a narrow strip of land along the southern property line that was formerly part of the 5140 site. Hubbell reported that 232 tons⁵ of affected soil was removed from the purchased parcel and shipped offsite as hazardous waste for disposal at a permitted disposal facility.

The follow-up Geoscience Phase II investigation performed later that year confirmed PCBs were present in the soil in the southern portion of the site. The investigation included the installation of nine shallow (1.5 feet below ground surface [bgs]) soil borings, designated B-1 through B-9, south and east of the main building (Sheet 4). The highest concentrations of PCBs, up to 2,930 mg/kg, were detected in soil samples collected directly north and south of the concrete pad where evidence of a surface release (i.e., staining) was noted in recovered soil. Significantly lower concentrations of PCBs, up to 13 mg/kg, were detected in samples south of the main building (including areas adjacent to the former AST pipes) with only trace PCB concentrations detected in samples collected from locations east of the main building.

Geoscience's investigation also included the installation of four 1-inch-diameter shallow (15 feet bgs) groundwater monitoring wells: two along the southern property line (designated MW-1 and MW-2) and two along the northern property line (designated MW-3 and MW-4; Sheet 4). Purge water collected from one of the two southern wells reportedly contained evidence of petroleum (oil as a separate phase visible in the purge water) and one PCB

⁴ The results of the soil and wipe sampling conducted during the Gaia Tech investigation were reported in Appendix A of the *Soil Excavation Work Plan*, dated August 1, 2011, prepared by the Palmerton Group. The actual sample locations were not surveyed (the positions were shown in a hand sketch only) and, thus, are not shown on maps prepared for this report.

⁵ WSP reviewed the NYSDEC's *Hazardous Waste Manifest Database* and confirmed that, in 2000, O.W. Hubbell shipped 210,279 kilograms (232 tons) of soil classified as B007 – Other PCB wastes, including contaminated soil, solids, sludge, clothing, rags, and dredge material.

congener, Aroclor 1260, was detected at 141 micrograms per liter ($\mu\text{g}/\text{l}$) in a groundwater sample collected from well MW-2 (these results are considered a false positive; see WSP's *Additional Investigation Report* for additional information). No information was available on the sampling methodology or the groundwater flow direction.

The Phase II work performed by the Palmerton Group in March and September 2011 expanded on the 2010 Phase II results revealing PCB-affected soil in the subsurface directly adjacent the concrete pad. Sixteen soil borings⁶, designated GP-1 through GP-16, were installed to depths of up to 4 feet bgs north and south of the pad to delineate the extent of PCBs over the 25 mg/kg standard⁷ used for screening (Sheet 4). The sampling data showed total PCB concentrations in soil as high as 2,100 mg/kg near the south side of the pad. The results suggested that the extent of the impact was defined.

The Palmerton Group also collected a series of wipe samples within the main building to verify the interior surface sampling results reported during the previous investigations. The samples, designated Wipe 1 through Wipe 8, were collected in September from the floor and walls of sumps and pits in the facility (Sheet 3). The results confirmed concentrations of PCBs (12 to 83 $\mu\text{g}/100\text{ cm}^2$), the highest concentrations of which were found on the floor near the southeast corner of the main building.

2.2.1 Remedial Activities

In response to the wipe sample results, the Palmerton Group contacted the U.S. Environmental Protection Agency (EPA) in September 2011 and began floor remediation and encapsulation activities in accordance with EPA regulations⁸. All surfaces where surface staining was observed were scraped clean of debris and double-washed using the PCB clean-up solvent CAPSUR[®]. The building floor and the floor and walls of the cleaned pits and sumps were then encapsulated with two coats of contrasting color (red, then grey) Sikgard-62[®] solvent-free, solvent-resistant epoxy. A total of 17,628 square feet of the main building was cleaned and encapsulated. No evidence of a release to the environment was noted during the cleanup activities.

The Palmerton Group also performed a remedial soil excavation north and south of the concrete pad in 2011 to address the affected soils detected during the earlier investigations (Sheet 4). Although delineation was deemed complete following the extensive soil boring program completed in March, visibly-stained soil was discovered during the excavations that locally extended below 4 feet bgs. The stained area reportedly was restricted to relatively narrow (up to 3-feet wide) bands of soil directly adjacent to the north and south sidewalls of the pad. Additional PCB-affected soil was removed from both the northern and southern excavations, which eventually exposed the footers of the concrete pad at approximately 5.5 feet bgs. Confirmation soil samples collected from the floor of the excavations, and test pits subsequently excavated adjacent to the north and south sides of the pad, indicated that soils containing concentrations as high as 5,800 mg/kg were still present at depths of 6 to 8 feet bgs. The PCB-affected soils were left in place due to concerns about the structural integrity of the pad and the adjacent building foundations. These affected soils were the subject of the IRM activities.

2.2.2 Follow-up Investigation

The results of the 2010 and 2011 investigations and remedial work performed by SHA and the Palmerton Group indicated that PCBs remained a potential environmental concern east of the main building near the concrete pad. Soil containing PCB concentrations above the screening level were left in place around the footprint of the pad due

⁶ The locations of soil borings GP-1 through GP-16, most of which were within the subsequent remedial excavation bounds, were omitted from Sheet 4 for clarity. The test pit results performed during the remedial activities, and the follow-up soil investigation activities performed in 2012 are presented on the drawing. Additional information on the location of borings GP-1 through GP-16 is presented in *the Additional Investigation Report*.

⁷ The restricted use soil cleanup objectives (SCOs) contained in Title 6 of New York Codes, Rules, and Regulations (6 New York Codes, Rules, and Regulations [NYCRR]), Part 375, Table 375-6.8(b) was selected by Palmerton based on the intended future use of the property.

⁸ As defined in Continued Use of Porous Surfaces Contaminated with PCBs Regulated for Disposal by Spills of Liquid PCBs (40 Code of Federal Regulations 761.30(p) and Subpart S.

to structural concerns and, because of the way the investigation and remedial excavation unfolded, the residual soils were undefined both horizontally and vertically (i.e., the excavation and test pits depths of 5.5 feet and 8 feet bgs exceeded the depth of the surrounding delineation points at 4 feet bgs). Moreover, the pre-excavation sampling did not evaluate the soils beneath or directly east of the pad, or characterize the soil berms along the southern portion of the property.

To address these data gaps, WSP conducted a series of investigations at the site in the summer and fall of 2012 designed to complete the PCB delineation around the concrete pad, characterize the soil berm along the southern property line (identified as a potential concern by the owner), and assess the potential impacts to groundwater. The concrete pad investigation included the installation of 20 direct-push soil borings, designated SB-1 through SB-20, directly north and south of the pad where the highest concentrations of PCBs were detected, in the area directly east of the pad, and beneath the pad itself (Sheet 4). The results showed that the residual PCBs detected in soil at the base of the former remedial excavations near the pad were confined to a discrete interval within the soil profile (above the water table) and did not extend horizontally beyond the bounds of the excavation. These data were used to develop the IRM, which was designed to remove the remaining PCB-affected soil for offsite disposal.

The soil berm evaluation included the installation of four hand auger borings (HA-1 through HA-4) along the southern property line (Sheet 4). The sample locations were positioned near the top of the triangular-shaped piles at roughly equidistant points along the long axis of the berm. The results of the investigation indicated only trace levels to moderate levels of PCBs below the 25 mg/kg industrial use SCO used for the pad excavation work. The soil piles were removed from the site for offsite disposal as part of the IRM activities.

The groundwater investigation was performed in two phases. The first phase included an inspection of the existing groundwater monitoring wells (designated MW-1 through MW-4) installed by Geoscience in 2010 to verify their integrity and potential usefulness for assessing the water quality at the site (Sheet 4). The inspection results suggested that the wells were sufficient for determining the depth to groundwater, but were otherwise in poor condition (the annular space on one well, for example, was open to the surface). Moreover, the wells were not well positioned to evaluate the groundwater conditions near concrete pad area where a release was known to have occurred. These wells were surveyed and gauged using an interface meter (to determine if light non-aqueous phase liquid [LNAPL] was present) and subsequently abandoned. The results of the gauging indicated a generally southwest to northeast groundwater flow direction. No LNAPL was detected.

To evaluate the groundwater quality at the site, WSP installed four additional groundwater monitoring wells, designated MW-5 through MW-8 (Sheet 4). Two of the wells were installed directly adjacent to the remedial excavation bounds north (MW-5)⁹ and south (MW-6) of the concrete pad with a third well (MW-7) installed northeast of the pad to evaluate the downgradient water quality. The remaining well, MW-8, was installed adjacent to former well MW-2 to monitor for the potential presence of LNAPL and dissolved PCBs reported during the earlier investigations. Samples for the analysis of PCBs were collected from each of the new wells using low flow sampling techniques. The results of the investigation did not reveal evidence of LNAPL in any of the wells, including MW-8. The analytical results indicated no dissolved concentrations of PCBs were present in any of the well samples collected from the site.

⁹ Monitoring well MW-5, which was damaged during the IRM activities, was replaced as part of the scope of work for this investigation. See below.

3 Approach and Investigations

The results of the investigation and remedial activities performed at the site through 2012 indicated that the area around the concrete pad, and, to a lesser degree, the soil piles along the southern property line, were the only remaining environmental concerns at the site. Concentrations of PCBs in soil adjacent to the pad were two orders of magnitude above the industrial land use SCO of 25 mg/kg and, although they appeared to be restricted to a discrete interval in the soil profile above the water table, represented a potential source of PCBs to the underlying groundwater. The soil berms, although they contained concentrations below the industrial land use SCO, were a potential direct exposure risk and, because they encroached into the operational areas, were identified as an impediment to the redevelopment of the site.

The balance of the investigation data showed that the PCB impact to soil in areas outside of these two portions of the site was limited or otherwise mitigated. Samples collected from shallow soil borings installed south of the main building (i.e., outside the remedial excavation bounds) and east of the main building, for example, contained only trace to moderate (up to 13 mg/kg) concentrations of PCBs below the industrial land use SCO. The groundwater investigations indicated that there was no LNAPL or dissolved concentrations of PCBs and, while there were relatively low concentrations of PCBs on the concrete within the main building around the pits, these surface stains were removed and the entire floor was cleaned and encapsulated with epoxy coatings.

Based on these data, WSP proposed a remedial excavation of the residual PCB-affected soil adjacent to the concrete pad and removal of the soil piles along the southern property line. These activities, which were proposed as the final remedy for the site, were outlined under the direct-to-remediation approach in the March 2013 BCP application for the site. The Departments, during their review of the application, agreed with the proposed remedial approach, but only as an IRM and not as the final remedy. WSP implemented the IRM in February and March 2014 removing¹⁰ the concrete pad, southern berm, and select soils along the southern property line.

The Departments also requested that additional investigation activities be performed to complete the characterization in portions of the site outside of the concrete pad and soil berm areas. These activities, which were outlined in a letter¹¹ to 5140, dated July 22, 2013, and later discussed in a post-application meeting¹² in the NYSDEC's office in Albany, NY, included:

- Additional soil sampling around the exterior of the main building, including the analysis of other parameters in addition to PCBs
- An evaluation of the soil quality beneath the building
- Additional groundwater investigation, including the installation of additional wells and sampling of the new and existing wells
- A determination as to whether soil vapor intrusion is a concern at the site
- An evaluation of floor drains, sumps, utilities, and other subsurface structures within the building to determine the flow paths and drainage points (including sediment sampling, if necessary)
- An evaluation of the storm water drainage at the facility (including sediment sampling, if necessary)

¹⁰ Approximately 829 tons of non-hazardous PCB-affected soil and 944 tons of Toxic Substances Control Act hazardous waste, including portions of the concrete pad itself, were excavated and removed for offsite disposal. See the *Construction Completion - Interim Remedial Measure* for additional information on the scope and extent of remedial activities performed during the IRM.

¹¹ The additional investigation activities requested by the Departments were reiterated in a second letter from the NYSDEC to 5140, dated September 12, 2013, which memorialized the subsequent meeting with the NYSDEC on July 31, 2013. There were no changes in the requested scope of work for the RI in the September 12 letter.

¹² WSP and representatives from 5140 met with the NYSDEC at their headquarters in Albany, New York, on July 31, 2013, to discuss the application and the BCP process.

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- A visual inspection¹³ of the interior surfaces (floors, walls, railings, etc.) to identify stained areas where PCBs may potentially be present

The specific scope of work developed to address these requests and the investigation results are presented below.

3.1 Additional Soil Investigation

The additional soil quality evaluation included a request to conduct soil sampling both around and beneath the main building. For the exterior sample locations, the Departments requested sampling at two different depth intervals, 0 to 2 inches bgs and 0 to 12 inches bgs, in all compass directions around the main building. The request was designed to assess the potential for direct contact exposure to PCBs in the surface soils (i.e., 0 to 2 inches) and determine if the existing soil cover meets the applicable industrial land use SCO (for PCBs) discussed in the BCP application. For the interior sample locations, the Department requested that a sampling grid be established within the former production areas of the facility. The grid was to be weighted such that the highest density of borings were positioned near areas within the facility where releases were known (i.e., near the former concrete pad) or were more likely to have occurred (i.e., near sumps, pits, pipes, etc.). The Departments also requested that select samples from both the interior and exterior investigations be analyzed for other potential compounds of concern, in addition to PCBs, including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and metals.

To address these requests, WSP drilled and sampled 28 soil borings, designated SB-21 through SB-48, at select locations around the perimeter of (borings SB-21 through SB-33) and within (SB-34 through SB-48) the main building (Sheet 5). Exterior soil borings SB-21 through SB-23 were installed west of the main building to assess the soil quality between the facility and the adjacent Meelan's flooring center. Four additional exterior borings, SB-24 through SB-27, were installed in the landscaped areas north (SB-24 and SB-25) and east (SB-26 and SB-27) of the main building to evaluate the soils south of Commercial Drive and west of the paved entrance driveway, respectively. The balance¹⁴ of the exterior soil borings were installed south of the main building and were positioned to assess the soils south of the former rail bay (SB-29 and SB-30), the area near the former AST piping (SB-28 and SB-31), and the areas south of the former concrete pad area (SB-32 and SB-33). All of the soil samples were submitted for analysis of PCBs with borings SB-22, SB-25, SB-27, SB-28, SB-30, and SB-32 sampled for the additional compounds (VOCs, SVOCs, pesticides and metals) requested by the Departments.

The interior borings were installed in a split-density grid positioned within the former production areas of the facility. Borings SB-34 through SB-38 were installed in a relatively low density sampling grid to evaluate the northern and central areas of the production floor (Sheet 5). These areas of the facility were used for assembly and electrical equipment repair and do not include any sumps, pits, or other openings in the concrete floor that may have acted as a conduit to the subsurface. All of the borings within this portion of the sampling grid were sampled in the 0 to 2-foot-deep interval (i.e., directly below the concrete floor) and from the 2-foot-thick depth interval directly above the water table (i.e., 13 to 15 feet bgs). The deeper samples were placed on hold with the analytical laboratory pending¹⁵ the results of the shallow samples unless visible staining is observed. WSP did not observe any significant staining during the drilling activities.

¹³ WSP, based on a follow-up phone call with Mr. Paul Patel of the NYSDEC on May 30, 2014, understands that the visual inspection requested is for siting the subsurface soil borings and not part of an investigation of the surfaces themselves. The building surfaces were addressed by the previous investigation and remediation (floor cleaning and encapsulation) activities performed at the site.

¹⁴ No additional borings were installed near the former concrete pad or along the southern property line (i.e., where the soil berm was formerly located). These areas of the site were the subject of extensive investigation and a high-density confirmation sampling program as part of the IRM activities. A detailed description of the confirmation sampling results is presented in the *Construction Completion Report – Interim Remedial Measure*.

¹⁵ No significant staining was observed during the drilling activities and none of the analytical results were sufficiently elevated to warrant the release of the deeper samples; however, due to a laboratory error, deep samples collected for VOC analysis were inadvertently analyzed. The data from these samples are included in the discussion of the analytical results below.

Borings SB-39 through SB-48 were installed in a somewhat higher density sampling grid to evaluate the soil near a number of subgrade structures and other areas of potential concern in the southern portion of the building. Boring SB-39, for example, was installed along the western wall of the building adjacent to sump pit #1, a four-foot-deep sump formerly used to capture fluids below a steam cleaning station. Likewise, borings SB-40, SB-41, and SB-42 were drilled in the eastern portion of the building to delineate the residual PCBs¹⁶ detected in samples collected adjacent to the building foundation during the IRM excavation activities. The balance of the borings were drilled to evaluate soil beneath the former rail bay (SB-43 and SB-46), near the former de-tanking pit (SB-44) and the associated AST piping (SB-47), and the near the former paint storage area (SB-45) and sump pit #2 (SB-48).

All of borings within the southern portion of the building were sampled directly below the concrete floor (i.e., between 0 and 2 feet bgs) and in the 2-foot-thick interval above the water table (i.e., 13 to 15 feet or, for borings SB-43 and SB-46, which are at ground level, 10-12 feet bgs). Additional samples were collected from the 4 to 6 foot bgs depth interval to evaluate the soil near the base of the sumps (SB-39 and SB-48) or directly adjacent the buried AST piping (SB-47). All of the soil samples were analyzed for PCBs with samples from borings SB-34, SB-36, SB-37, SB-39, SB-42, SB-44, SB-46, and SB-48 analyzed for the additional compounds (VOCs, SVOCs, pesticides, and metals) requested by the Departments. The specific procedures used during the investigation are presented below.

3.1.1 Soil Sampling

The soil borings were installed by Parratt Wolff, Inc., of East Syracuse, New York, using a vehicle-mounted direct-push drill rig equipped with a 4-foot-long macro-core soil sampler. The sampler was advanced from the surface to a depth of approximately 2 feet bgs for exterior borings¹⁷ and up to 15 feet bgs for interior borings. The headspace of the recovered soil cores was screened using a photoionization detector (PID) with the samples for VOC analysis being selected based on the PID results or, if present, staining or odors observed within the designated sampling intervals. If no PID readings or other obvious signs of impact were observed, the discrete samples were collected from the midpoint of the sample intervals. The balance of the soil from each sample interval was then placed in a dedicated stainless steel bowl, composited using dedicated stainless steel implements, and then placed in the appropriate laboratory-supplied containers.

The soil samples were shipped to Pace Analytical Laboratories of Schenectady, New York, for analysis of Target Compound List (TCL) VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, TCL pesticides by EPA Method 8081, PCBs by EPA Method 8082, and Target Analyte List (TAL) metals by EPA Method 6010/7000 series, as appropriate. All of the samples were handled and shipped in accordance with WSP's SOPs. Analytical laboratory reports for the soil sampling are presented in Appendix A.

3.2 Additional Groundwater Investigation

The request for additional groundwater investigation included installing two monitoring wells at the site: one well in the northwest corner of the property to aid in assessing the groundwater flow direction at the site; and a second, deeper well to evaluate the water quality below the upper few feet of the water-bearing zone. WSP, in response, installed the two requested wells, designated MW-9 and MW-10, along with a third well, designated MW-5R, to replace monitoring well MW-5, which was damaged during the IRM activities (Sheet 6). Well MW-10 was installed in the northwest corner of the property between the main building and Commercial Drive. The well was constructed similar to the wells constructed during the 2012 follow-up investigations with the well screen installed at a depth straddling the water table. The two remaining wells, MW-5R and MW-9, were installed as a co-located well pair

¹⁶ A confirmation soil sample collected from the western limit of the IRM excavation north of the concrete pad contained total PCB concentrations of 6,500 mg/kg. The affected soil, which is directly adjacent to the main building foundation, could not be removed for offsite disposal due to structural concerns. See the *Construction Completion - Interim Remedial Measure Report* for additional information.

¹⁷ In paved areas, the 2-foot cores were measured from the bottom of the base material beneath the asphalt surface.

northeast of the former concrete pad area to assess the water quality directly downgradient of the known release near the pad. Replacement well MW-5R was built consistent with the construction as MW-5 (i.e., with the screen set to straddle the water table) with well MW-9 completed below the groundwater interface to assess the deeper water quality.

Groundwater from the three new wells (and the existing wells) was sampled in October 2014 to provide a comprehensive snapshot of the water quality over the entire site. All of the samples were collected using low flow techniques; however, technical issues during sampling led to samples from wells MW-5R and MW-7 being collected outside of the low flow purge requirements. Turbidity readings measured in the purge water from well MW-7, for example, began at a level well above those of the surrounding wells (672 nephelometric units [NTUs]) and after nearly 3 hours of purging, did not stabilize below the 10 NTU threshold. Turbidity readings during the purge of well MW-5R, in contrast, were initially within the anticipated range, but quickly dropped to 0 NTUs, which is atypical and suggested an equipment malfunction. The analytical results from these two groundwater samples, both of which were collected despite not meeting the purging criteria, contained trace levels of PCBs (See Section 4 below).

WSP believes the detections were due to relatively high levels of suspended solids (PCBs are effectively immiscible and typically sorb to colloidal material), which can yield results that are not representative of the true mobile load within the water bearing unit (i.e., the detections are likely false positives due to the high turbidity). To verify these findings, 5140 elected to collect an additional round of groundwater samples from the wells at the site. The samples were collected using the same techniques as before, but with additional procedural steps taken to ensure representativeness. This included redeveloping both well MW-7, where the high initial turbidity suggested that the initial development was incomplete, and newly-installed well MW-5R, where the turbidity measurements were suspect. The modified procedure also included using a second, independent turbidity meter to corroborate the measurements made with primary water quality meter. The wells were redeveloped on December 19, 2014, and then allowed to stand three weeks before resampling on January 12, 2015. The specific procedures used for well installation, development, and sampling activities, along with the analytical results, are presented below.

3.2.1 Monitoring Well Installation

The monitoring well borings were installed by Parratt Wolff using a drill rig equipped with 4.25-inch inside-diameter (ID) hollow-stem augers (HSAs). The boreholes were advanced from the ground surface to a depth of 20 feet bgs (about 8 feet below the water table) for wells MW-5R and MW-10, to match the construction of the existing shallow monitoring wells installed at the site in 2012, and approximately 27 feet (about 15 feet below the groundwater interface) for deeper well MW-9. Continuous soil samples were collected ahead of the HSAs using a 2-foot-long split spoon sampler to accurately identify the groundwater interface. The soil color and texture were described in the field by a WSP geologist and recorded in the field notebook. Soil boring logs¹⁸ for the monitoring well boreholes are presented in Appendix B.

Once the soil logging was complete and the HSAs had been advanced to the target depth, each borehole was converted to a groundwater monitoring well by installing 10 feet of 2-inch ID 0.010-inch continuous-wrap polyvinyl chloride (PVC) screen fitted with a section of 2-inch ID PVC riser sufficient to reach the surface. The well screens for wells MW-5R and MW-10 were positioned in the borehole at 17 and 19 feet bgs, respectively, such that several feet of the screen extended above the water table to characterize the water quality at the groundwater interface. The casing for monitoring well MW-9 was screened between approximately 17 and 27 feet bgs (i.e., below the bottom of the screen for nearby well MW-5R) to evaluate the deeper water quality. The annulus surrounding the screened interval of each well was then be backfilled with appropriately-sized clean silica filter sand to a level approximately 2 feet above the top of the screen, sealed with hydrated bentonite pellets, and completed with a flush-mounted steel protective casing. Monitoring well construction details for all site wells are included in the soil boring logs (Appendix B).

¹⁸ Wells MW-5R and MW-9 were co-located and only the soils from the installation of the deeper well (MW-9) were logged.

The wells were developed¹⁹ a minimum of 24 hours after the seal was installed using surge blocks and submersible pumps. The water column was surged until it was relatively free of sediments and field measurements of the groundwater temperature, pH, and conductivity stabilized to within 10 percent of the previous measurements. The wells were allowed to stand undisturbed for a minimum of two weeks after well development to allow for equilibration with the surrounding formation.

3.2.2 Well Gauging and Low Flow Groundwater Sampling

All six groundwater monitoring wells²⁰ at the site, including newly installed wells MW-5R, MW-9 and MW-10, were sampled during the week of October 14, 2014 and again during the week of January 12, 2015. Prior to sampling, depth-to-groundwater measurements were collected from the wells to determine the groundwater elevation and flow direction. Each well was uncapped and allowed to stand for a minimum of 15 minutes (for equilibration) and then gauged to the nearest 0.01-foot using an electronic oil-water meter (to determine if LNAPL was present at the groundwater interface).

Groundwater analytical samples were collected after completing the gauging activities. Each well was sampled using low flow sampling techniques in accordance with the EPA's Low Flow (Minimal Drawdown) Groundwater Sampling Procedures (1996). The wells were purged using submersible bladder pumps (October sampling event) or peristaltic pumps (January sampling event) with the intakes positioned near the midpoint of each screened interval. Temperature, pH, specific conductance, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and drawdown were monitored using a Horiba U-52 water quality meter equipped with a flow-through cell and an electronic water-level indicator. Samples collected during the January event were also monitored with a Lamotte portable turbidity meter, which was used to verify the turbidity readings obtained from the Horiba. Water samples were collected directly from the pump after these parameters stabilized (± 10 -percent for temperature, DO, and ORP; ± 0.1 unit for pH; ± 3 -percent for specific conductance; and ± 0.3 feet variance for drawdown) and the turbidity readings were less than 10 NTUs. Groundwater sampling logs are included in Appendix C.

All of the samples were labeled, packed on ice, and shipped by overnight carrier to Pace Analytical Laboratories (October 2014) or Accutest Laboratories of Marlboro, Massachusetts (January 2015), for analysis of PCBs by EPA Method 8082. All of the samples were maintained and shipped in accordance with WSP's SOPs. Analytical laboratory reports from Pace and Accutest are provided in Appendix D.

3.3 Vapor Intrusion Investigation

The vapor intrusion investigation included collecting four co-located sub-slab soil gas and indoor air samples, designated SS-01/IA-01 through SS-04/IA-04, and one ambient (outdoor) air sample, designated OA-01 (Sheet 7). Sample point SS-01/IA-01 was located in the northeast corner of the facility to characterize the sub-slab soil gas and indoor air quality in the former office space. The balance of the sample points, SS-02/IA-02 through SS-04/IA-04, were installed along a line oriented along the north-south axis of the building. These samples were used to assess the sub-slab soil gas and indoor air quality associated with the former production workspace. The final sample, OA-01, was positioned outside of the main building and will be used to evaluate potential background sources for VOCs in the outdoor air. All of the samples were collected in accordance with the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. The specific collection methods are detailed below.

¹⁹ Wells MW-5R and MW-7 were redeveloped during the week of December 19, 2014, to ensure representative sampling during the second event in January 2015.

²⁰ Monitoring well MW-8 was not sampled during the January 12, 2015 sampling event. Several feet of compacted snow and ice from snow plowing activities had been piled along the southern property line preventing location of and access to the well.

3.3.1 Indoor Air Investigation Methods

An inspection and comprehensive building inventory of the facility was performed in advance of the sample collection in accordance with the NYSDOH's guidance and WSP's. The facility inspection was performed to assess:

- construction characteristics, such as the condition of the concrete foundation and floors (i.e., presence of cracks) and penetrations or other openings that might serve as preferential pathways for vapor intrusion;
- any recent work or maintenance to the building that may have introduced volatile chemicals (e.g., paints, cleaners); and
- mechanical equipment that can affect the pressure gradient within the building (e.g., heating, ventilation and air conditioning [HVAC] systems, fume hoods)

The building inspection did not reveal any significant cracks or other openings in the floor of the office space or the production floor, except the concrete expansion gaps and three floor drains, two in the southern portion of the building near the former rail bay and the other in the northeast corner of the production space. There are several sumps and open pits within the facility; however, all appear to be lined with concrete (Sheet 3). No pipes, cracks or other opening were observed in the walls or floors of these subsurface structures. Nearly all the concrete surfaces within the former production areas (except the walls and base of the former detanking pit) have been encapsulated using Sikgard-62® solvent-free, solvent-resistant epoxy paint (applied as part of the remediation activities in 2011). WSP did not observe any significant openings to the outside, except the normal gaps between overhead doors and other points of access. Heat for the facility's office was supplied by a small furnace/boiler (office space) and by ceiling-mounted natural gas heaters (production space). The heaters were not operating during the sampling event.

WSP did not find any materials within the facility that could introduce volatile chemicals to the indoor air. The building has been vacant for several years and all of the equipment and office supplies have been removed from the premises. A copy of the building inspection and inventory form is included in Appendix E.

3.3.1.1 Probe Installation and Vapor Sample Collection

The sub-slab soil gas samples were collected at each of the locations using a probe constructed of 3/8-inch outside-diameter Teflon®-lined tubing, a silicone rubber stopper with a 3/8-inch ID perforation, and a seal consisting of a non-shrinking, non-volatile modeling clay. The probe was installed using an electric hammer drill to create a 1-inch-deep outer hole for the stopper and a 3/8-inch inner hole drilled through the remainder of the slab. A 3-foot-long section of the Teflon®-lined tubing was inserted into the stopper perforation and the assembly was installed in the drilled hole such that the tubing did not extend below the base of the slab (to prevent the tubing from being plugged). The stopper and tube assembly were sealed in the floor using modeling clay and the tube end temporarily clamped to prevent soil gas from entering the building.

Prior to sampling, a quality assurance/quality control tightness test was performed at each location to evaluate the integrity of the sub-slab soil gas sample point seals and ensure that the samples were not diluted by indoor air. A laboratory-supplied 18-inch-diameter stainless-steel dome equipped with two stainless-steel quick-lock fittings was placed over the sub-slab sample point. The Teflon®-lined tubing used for the sample point was fitted to the one of the quick-lock connectors on the inside of the dome allowing monitoring of the sub-slab soil gas outside of the dome using a laboratory-supplied electronic helium detector (a Restek-brand Electronic Leak Detector) and a short length of Teflon®-lined tubing. After the monitoring equipment was in place, the dome was charged with helium via the second quick-lock connector. The sample point was monitored for a period of 2 minutes to verify that the system was not short-circuiting to the helium atmosphere above the concrete slab. Results for the tracer gas testing were recorded in the field notebook. No short-circuiting was detected during the sampling event.

All of the analytical vapor samples were collected using evacuated 1-liter Entech Instruments, Inc., canisters fitted with a dedicated flow controller that was preset by the laboratory to collect the soil gas sample over 8 hours. Sub-slab soil gas sample points were purged prior to sampling using a hand pump to remove dilution air. The purge removed one to three probe volumes of air from the line at a rate not exceeding 0.2 liter per minute. Purged vapor

from the sub-slab samples was contained in Tedlar® bags to prevent the release of sub-slab soil gas into the indoor airspace. At the completion of the 8-hour period, the canister and controller were disconnected; the sample name, location, time and date of sample collection, sample regulator and canister number, and the analytical method were recorded on the chain-of-custody form and in the field logbook; and the sampling probe for the sub-slab soil gas samples was removed from the concrete floor. The sub-slab boreholes were later repaired with quickset concrete.

The sub-slab gas samples were transported by a courier under ambient conditions to Centek Laboratories, LLC, of Syracuse, New York. The samples were analyzed for VOCs by EPA Method TO-15 with a minimum detection limit of 0.25 microgram per cubic meter ($\mu\text{g}/\text{m}^3$) for trichloroethene and 1 $\mu\text{g}/\text{m}^3$ for all other VOCs. Analytical laboratory reports for the sub-slab sampling are presented in Appendix F.

3.4 Utility and Storm Water Drainage Assessment

WSP, in response to the Departments' request to evaluate the floor drains, sumps, utilities, and other subsurface structures within the facility, and the storm water drainage systems outside of the main building, performed a comprehensive contaminant migration pathway analysis of the site. The analysis included:

- a review of historical Sanborn fire insurance maps, topographic maps, and aerial photographs, which were used to track the site over time and identify outdoor features and activities (e.g., as tanks or storage areas) and potentially-important pre-existing natural drainage patterns
- a review of blueprints, as-built diagrams, and site plans recovered from the facility to identify sewers, drains, and other subsurface drainage structures
- a reconnaissance visit to verify the locations of manholes, floor drains, outfalls, and other drainage structures (including drainage ditches) identified at the site
- discussions and an onsite visit with the local department of public works personnel regarding the current and historical drainage systems, including the municipal storm and sanitary sewers
- a review of federal and state regulatory databases searches provided by Environmental Data Resources, Inc. (EDR) to look for discharge permits or notices of violation for accidental discharges of wastewater or other materials to the municipal systems

The purpose of the analysis was to identify (and sample, if necessary) any potential preferential pathways for constituents of concern (primarily PCBs) released via documented spills or poor housekeeping to be transported to offsite receptors. The historical documents and database review was performed concurrent with soil investigation activities with the onsite reconnaissance performed during the second (groundwater and vapor) sampling event. WSP also met with Mr. Sal Granado, the Whitestown Department of Public Works Superintendent, on November 4, 2014, to survey the storm and sanitary drainage systems leading from the site. Copies of the EDR database (including the aerial photographs, Sanborn and topographic maps) are included in Appendix G.

The results of the analysis were submitted to the Departments on November 25, 2014, in an informal (email-based) interim report. The report detailed the preliminary findings and the recommendations for additional soil sampling. The information presented in the interim report and the approved²¹ approach for additional soil sampling are presented below. The results of the soil sampling are presented in the rest of the analytical data in Section 4 of this report.

²¹ The NYSDEC and NYSDOH conditionally approved the sampling approach outlined in the November 25, 2014, interim report, provided that 5140 also sample the dry well at the northeast corner of the site, which was not included in WSP's original scope of work. The dry well was included in the final sampling scheme detailed below. A copy of the interim report and the conditional approval, dated December 5, 2014, are included in Appendix H.

3.4.1 Interim Findings

The review of historical aerial photographs and maps confirmed the history and development previously reported for the site. The 5140 site is situated in the Sauquoit Creek Valley directly south of the creek's confluence with the Mohawk River (Figure 1). The local relief at the site is nearly flat with a gentle slope to the north towards the Mohawk River parallel to the creek. Comparisons between the pre- and post-construction topography are consistent, with the majority of the site falling between 422 and 420 feet above mean sea level (amsl). WSP did not observe any evidence of significant reworking of the site, beyond the typical grading that would occur during construction. Aerial photographs and the historical topographic maps indicate that the site was, prior to 1949, adjacent a reservoir (located on what is now the Hubbell Galvanizing property), which used to power nearby mills; however, the review did not reveal any evidence of canals or natural drainage features (streams, creeks, etc.) that could act as preferential pathways for contaminant migration.

3.4.1.1 Onsite Utilities

A review of the 1957 building blueprints and as-built drawings identified the presence of a single, graduated 4 to 6-inch diameter cast iron sanitary sewer trunk line underlying the building; the line is parallel to the long (north-south) axis of the main building (Sheet 8). Sanitary water from the office area and from one floor drain in the southern portion of the building (described below) discharge to the trunk line (via secondary pipes²²) flowing beneath the north wall of the main building and eventually draining into the municipal sewer line below Commercial Drive. WSP was able to confirm the location of the sewer line within the main building (by tracing the clean-outs inside the building and via a private utility locator outside of the structure) and verify the location of the municipal sewer beneath Commercial Drive. According to Mr. Granado, the sanitary water within the municipal sewer flows east eventually discharging to the Utica area publically-owned treatment works (POTW). A review of the environmental databases for the site did not reveal any accidental discharges to the sanitary sewer system.

The facility drawings review identified four floor drains in the former production space. Open (active) floor drains were noted in the former rail bay in the southwest corner of the building and along the south wall of the facility (Sheet 8). Both drains, based on facility blueprints and the site reconnaissance, appear to drain to the sanitary sewer. A third drain is shown on facility drawings within the former paint storage room directly adjacent to the former concrete pad area. WSP inspected the room and found that the drain had been sealed and subsequently coated with epoxy. The pipe leading from this drain, which passed beneath the former concrete pad and discharged to the ground surface, was removed as part of the IRM activities. The remaining floor drain is located in the northwest corner of the production space near the areas formerly used for assembly and electrical equipment repair. The facility blueprints showed that the drain is not connected to the sanitary sewer, but instead drains directly to the ground surface via a pipe that passes through the eastern foundation wall. WSP was able to locate the pipe during the site reconnaissance. No additional drains were noted in any of the subgrade sumps or pits within the production space of the main building

3.4.1.2 Exterior Drainage

The pre-construction drawings reviewed for the contaminant migration pathway analysis suggested that storm water at the site was intended to be partially managed through a series of four dry wells (infiltration basins). Three of the basins were mapped along the western property line with the remaining basin mapped in the landscaped area southeast of the facility offices (Sheet 8). All four of the infiltration basins were depicted as approximately 36-inch-wide vertical pipes covered with steel manhole covers. Piping diagrams indicate that water collected on the roof of the facility was to be directed to the infiltration basins via a series of downspouts along the interior walls of the building. WSP was able to identify the vertical downspouts for the roof drains on the interior of the building; however, none of the infiltration basins, including the one mapped within the landscaped area near the facility

²² Secondary sanitary sewer pipe lines, such as those leading from the restrooms within the office space, are not shown on Sheet 8, for clarity.

offices, could be located. WSP believes that the dry wells were planned, but ultimately not installed as part of the facility construction in 1957.

The balance of the exterior storm water is managed via overland flow: no storm sewers were located onsite. Runoff water north and west of the main building (including that from the roof) drains to the northwest corner of the site via a shallow drainage swale along the western property line and a sloped landscaped area north of the building (Sheet 8). The storm water eventually flows to a municipal storm sewer drain present in the right-of-way just near the northwest corner of the site. WSP, with the help of Mr. Granado, was able to trace the flow path of storm water entering the drain to a discharge point on Sauquoit Creek northeast of the site. The storm sewer was not dedicated to the 5140 site: the drain at the northwest corner of the site receives storm water from properties to the west, including Hubbell Galvanizing (via a direct line to the drain), and, through a series of other drains, water from Harbor Freight and runoff from Commercial Drive itself.

Runoff south of the building appears to pool (and infiltrate) along the southern property line or flow north along the paved surfaces (along with runoff from the east side of the main building) toward the northwest corner of the site (Sheet 8). During the site visit with Mr. Granado, a previously unknown subsurface drainage structure was identified at the northeast corner of the 5140 property. The structure, which consisted of a 24-inch iron storm water grate fitted to a 36-inch diameter concrete collar, was partially covered with leaves and other debris obscuring it from view during the earlier reconnaissance visit. An inspection of the structure revealed that the collar extended at least 6 feet bgs, did not contain any pipe penetrations (i.e., it was not connected to the nearby storm sewer system along Commercial Avenue), and, because it was bottomless, appeared to function as a dry well or infiltration basin. WSP believes, based on the onsite drainage pattern, that the dry well receives runoff from the southern and eastern portions of the site.

3.4.1.3 Sampling Approach and Methods

WSP, based on the results of the contaminant migration analysis, collected soil samples from two locations, designated SB-50 and SB-51 (Sheet 8). Soil boring SB-50 was drilled adjacent the main building to assess the soil directly beneath the floor drain outfall. The soil was sampled at the same depth intervals (0 to 2 inches and 0 to 12 inches bgs) and using the same equipment and techniques as those used for the soil investigation (see Section 3.1.1). Boring SB-50 was drilled through the dry well located at the northeast corner of the site to evaluate the soil at the base of the structure. The soil sampler was advanced into the base of the structure using a direct-push drill rig (operated by Parratt Wolff) with analytical samples collected from the native soil in the 0 to 2 foot depth interval (as measured from the base of the dry well below any debris that was present in the structure). Samples from both SB-50 and SB-51 were shipped to Accutest Laboratories for analysis of PCBs by EPA Method 8082. All of the samples were handled and shipped in accordance with WSP's SOPs. Analytical laboratory reports for the soil sampling are presented in Appendix A.

WSP did not sample the two additional floor drains noted in the facility. Small amounts of debris were noted beneath the floor drain covers; however, the volume is low and, given that both drain to the sanitary sewer, any compounds that were released to the drains are unlikely to have impacted the 5140 site or the surrounding properties. Similarly, WSP did not sample any of the offsite storm water drainage features. There is no evidence from the historical or newly collected soil samples that significant concentrations of PCBs are present in surface soil either to the north and west of the main building (these areas were away from the onsite activities that were focused in the southeastern portion of the site) or between the impacted area (i.e., around the former concrete pad) and the northeast corner of the property. Moreover, the structures receive runoff and sediment from a number of different properties and, thus, any compounds detected could not definitively be attributed to the 5140 site.

The results of the additional soil sampling are presented in Section 4.

3.5 Quality Assurance/Quality Control Samples

Field quality assurance/quality control (QA/QC) procedures for the RI included the collection and analysis of duplicate samples, matrix spike and matrix spike duplicates (MS/MSDs), equipment rinsate blanks, and trip blanks, as follows:

- Trip blanks were collected at a rate of 1 blank per shipment containing samples for VOC analysis.
- Field blanks were collected at a rate of 1 blank per 10 samples.
- Equipment blanks were collected at a rate of 1 blank per 10 samples.
- Blind duplicates were collected at a frequency of 1 blind duplicate per 10 samples.
- MS/MSD samples were collected at a rate of 1 MS/MSD sample per 20 samples.

Data validation was performed by ECT.CON, Inc., of Palm Coast, Florida, in accordance with the U.S. EPA Contract Laboratory Program National Functional Guidelines. Data validation reports are included in Appendix I.

3.6 Site Restoration and Survey

Boreholes installed at the site for soil or vapor sampling were backfilled with native soil or clean sand and the surface material restored after completing the sampling activities. All of the sample locations were marked in the field with spray paint, wooden stakes, or other appropriate means. The locations were later surveyed, along with the newly installed monitoring wells, by Richard Rybinski, of Manlius, New York, a New York-licensed land surveyor. The horizontal locations were measured to the nearest 0.1 foot relative to the New York State Plane Coordinates, North American Datum of 1983 (NAD83), and vertical elevations were measured to the nearest 0.01 foot relative to the 1929 National Geodetic Vertical Datum.

3.7 Decontamination Procedures and Investigation-Derived Wastes

All downhole and non-dedicated equipment used for the investigation was decontaminated before work began, between each borehole, and at the end of the site activities using a steam jenny, non-phosphate soap and potable water, as appropriate, or other measures in accordance with WSP's SOPs. The decontamination rinsate, and other investigation-derived wastes (e.g., soil cuttings, purge water, etc.) were placed in Department of Transportation-compliant (DOT-compliant) 55-gallon drums and moved to a designated onsite storage area for later offsite disposal in accordance with state and federal regulations.

4 Findings

The RI soil analytical results for VOCs, SVOCs, metals, and pesticides were compared to the NYSDEC's *Restricted Use Soil Cleanup Objectives* (SCOs) for an industrial setting (no recreational component). These criteria are consistent with the local zoning and the projected future land use at the site. For PCBs, 5140 elected to adopt a more stringent site-specific SCO of 10 mg/kg (total PCBs). This SCO, which was the same site-specific value selected for the IRM activities, was chosen to provide an additional level of assurance that the areas targeted for remediation meet the relevant Part 375 criteria. All of the PCB soil sample results, including those from samples collected beneath the main building, were compared to this site-specific value. The soil analytical results are presented in Tables 1 through 4.

Groundwater data collected for the RI were compared to the *New York State Ambient Water Quality Standards or Guidance Values* for Class GA groundwater provided in the *New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1)*, dated June 1998. The groundwater results are presented in Table 6. Vapor data collected for the investigation were evaluated by comparing the relevant compounds (i.e., trichloroethene [TCE] and carbon tetrachloride in Matrix 1 and tetrachloroethene [PCE] and 1,1,1-trichloroethane [1,1,1-TCA] in Matrix 2) to the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006. As requested by the NYSDEC, vapor samples were analyzed for the full TO-15 list. Table 7 presents all of the compounds detected in the indoor, outdoor, and sub-slab soil gas samples.

4.1 Site Geology and Hydrogeology

WSP drilled 33 borings at the 5140 site for the RI (including the three borings that were subsequently converted to groundwater monitoring wells) to depths ranging between a few inches and 27 feet bgs. Soil descriptions from the monitoring well borings and deeper interior borings were largely consistent with the previous findings indicating that the site is underlain by sand and gravel mixtures at the surface, a silt unit that extends as deep as 8 feet bgs, and an interval of gravelly silt or sand extending to a depth of between 15 and 18 feet bgs. The silt is typically light brown to brown, moderately dense, and appears to be locally reworked at the surface, particularly in those borings installed beneath the building (the floor of the facility is elevated above the surrounding grade and contains several feet of similar material as fill). The unit grades with depth to sandy silt, typically between 4 to 6 feet bgs. The underlying sandy gravel interval typically consists of brown fine to medium-grained sand and sub-rounded gravel with varying amounts of silt. The unit is medium-dense to dense. Groundwater was encountered within this interval at depths ranging between 11 and 14 feet bgs²³. Logs for the borings and monitoring wells installed at the site are provided in Appendix B.

In two of the well borings, deeper well MW-9 and well MW-10, a relatively thin (0.5 to 2 feet) interval of grey clay was encountered between 15 and 18 feet bgs (Appendix B). The clay was massive with medium to high plasticity and was underlain by poorly-sorted sand and gravel similar to that encountered above the clay. Groundwater was present both above and below the clay interval and the clay itself was wet. The clay layer appears to be laterally discontinuous: it was not observed in other nearby deep borings, such as boring SB-17 (drilled to a depth of 17 feet bgs²⁴) or the boring for well MW-6 (drilled during the previous investigation phase to a depth of 18 feet bgs), although it may be an artifact of low recoveries during sampling. Soil boring SB-17 and two other relatively deep boreholes (i.e., MW-7, MW-8) were marked by color changes and gradational transitions (to finer fractions) in the sand or silt content at approximately the same depth interval, which may be acting (along with the intervals containing clay) as a low permeability unit. The water levels in monitoring well MW-9, which is screened below the interval, are higher than those of co-located well MW-5R, suggesting an upward gradient (i.e., the lower unit is

²³ Based on observations of the soil samples made during boring installation.

²⁴ Boring SB-17, installed in July 2012 as part of the additional investigations performed in advance of the BCP application, was advanced through the former concrete pad, which was elevated approximately 3 feet above the surrounding grade. See the *Additional Investigation Report* for a detailed discussion of the geologic findings.

partially confined); however, the data are too few to determine the full extent of the hydraulic relationship. Moreover, deeper groundwater, if it is hydraulically distinct from the upper unit, does not appear to be (based on the analytical groundwater data) relevant to the environmental investigations at the site (i.e., no PCBs were detected in groundwater samples collected from the site; see below).

4.2 Soil Analytical Results

WSP collected soil samples from locations around the perimeter of the main building, within the building itself, and from two additional areas (the floor drain discharge line and dry well) of the site. The samples were analyzed for PCBs and, in select representative borings, VOCs, SVOCs, metals, and pesticides. The soil results revealed trace concentrations of PCBs in the majority of the soil samples collected at the site; however, only one, Arochlor 1260 (12.7 to 24.1 mg/kg)²⁵, was detected at concentrations above the site-specific SCO of 10 mg/kg (Table 1). The detections occurred in the shallow (0 to 0.17 foot bgs) soil collected from just two borings, SB-29 and SB-30, both of which are located in the southwest corner of the site (Sheet 5). Soil samples collected from the deeper interval (i.e., from 0 to 1 foot) in both borings did not contain PCBs at concentrations above the site-specific SCO, indicating a limited vertical extent. WSP believes these are likely the result of poor housekeeping (small spills and drips) possibly associated with equipment and materials (including dielectric fluids) transported on the former rail spur. PCBs were not detected at concentrations above the site-specific SCO in any soil samples collected from interior borings, including those installed adjacent to the sumps and pits, or in the floor drain discharge line or dry well sample locations.

The soil samples also revealed one SVOC, benzo(a)pyrene (1840 to 3150 mg/kg), and one metal, arsenic (18.7 mg/kg), at concentrations above their respective industrial land use SCOs of 1,100 mg/kg and 16 mg/kg (Tables 2 and 3, respectively). The SVOC was detected in the samples from several exterior borings along the paved areas directly east (SB-27) and south of the main building (SB-28, SB-30, and SB-32; Sheet 5). Benzo(a)pyrene is commonly associated with the petroleum compounds in asphalt. No SVOCs were detected above the evaluation criteria in the soil samples collected from beneath the main building. The arsenic was detected in a single soil sample from interior boring SB-40 in the southeast corner of the production area. Although slightly elevated, the concentration is within the typical range of background levels for the eastern United States (Shacklette and Boerngen, 1984). No other metals were detected at concentrations above the evaluation criteria at the site.

No VOCs or pesticides were detected at concentrations above the evaluation criteria in soil samples from any of the borings at the site (Tables 4 and 1, respectively).

4.3 Groundwater Elevation Results

The October 2014 groundwater elevations ranged from 413.51 feet amsl at well MW-8 in the southeast corner of the site to 413.01 feet amsl at well MW-7 along the eastern portion of the property (Sheet 6; Table 5). These elevations are between 2.08 and 2.45 feet lower than the groundwater elevations measured during the December 2012 gauging events performed in advance of the BCP application (i.e., those reported in the *Additional Investigation Report* included in the BCP application). WSP believes the difference in elevation likely represents the natural variability in the groundwater table due to seasonal precipitation. The site received nearly 4 inches of precipitation in the 30 days before the 2012 event, but only 2.26 inches of precipitation in the month before the October sampling event²⁶.

Despite the fluctuations, groundwater elevation contours generated from the October 2014 data (excluding deep well MW-9, discussed below) indicate that flow across the site is to the northeast towards Sauquoit Creek and the Mohawk River beyond as previously reported. The groundwater hydraulic gradient, as measured between MW-8

²⁵ Arochlor 1260 was detected at a concentration of 24.1 mg/kg in sample SB-0914A (0 to 0.17), which was a duplicate of sample SB-30 (0 to 0.17). See Table 1.

²⁶ Based on National Weather Service records for the Utica, New York, area.

and MW7, is a relatively flat 0.004 feet/foot (Sheet 6). These findings are consistent with the flow direction and hydraulic gradient measured in 2012 and are generally comparable to elevation and flow directions indicated in the historical reports.

The elevation from deep well MW-9 was measured at 413.28, which is approximately 0.21 feet higher than the elevation measured in co-located monitoring well MW-5R (Sheet 6; Table 5). The higher elevation indicates an upward vertical gradient at the site.

4.4 Groundwater Quality Results

Groundwater samples for analysis of PCBs were collected from all six monitoring wells during the first sampling event October 2014. The results revealed PCBs in samples from two of the wells: Aroclor 1260 was detected in the sample from newly-installed well MW-5R (0.346 µg/l) and Aroclor 1254 was detected in the sample from well MW-7 (0.211 µg/l; Sheet 6; Table 6). Both detections were above the evaluation criterion of 0.09 µg/l for total PCBs in groundwater; however, the concentrations were likely biased high by the presence of elevated turbidity in the samples and were considered false positive detections (see Section 3.2 above). The October 2014 samples from the other wells at the site, MW-6 and MW-8 through MW-10, all of which were collected in accordance with the low flow purge protocol, did not contain PCBs above the method detection limits. The follow-up samples collected in January 2015, which had measured NTUs within the specified low flow limits, did not contain detectable levels of PCBs.

These data are significant because they demonstrate that the PCBs released to the soil near the concrete pad area, some of which had concentrations greater than 5,000 mg/kg, did not result in an impact to groundwater. Based on these findings, the likelihood of future groundwater impact from the residual PCBs in soil at the site, all of which are orders of magnitude lower, is minimal.

4.5 Vapor Sampling Results

WSP collected four co-located sub-slab soil gas and indoor air samples from within the main building and one ambient (outdoor) air sample to evaluate the potential for impacts to the indoor air quality via vapor intrusion. Although trace concentrations from a number of compounds were present in the sample results (the sample analysis included the full TO-15 list), only the four chemical compounds with criteria established by the NYSDOH, PCE, TCE, 1,1,1-TCA, and carbon tetrachloride, were evaluated for the analysis. All four chemicals were detected either in the indoor air or sub-slab soil gas; however, only one, TCE, was detected at concentrations that, when compared to decision matrix, potentially warrant further action. Co-located sub-slab and indoor air samples SS-04/IA-04 contained 5.9 and 0.27 µg/m³, respectively, of TCE which, when evaluated together yield a recommended action of "Monitor" (Sheet 7; Table 7).

It is important to note, however, that the evaluation criteria used to evaluate these results were developed to be protective of indoor air in private residences, and, thus may be inappropriately conservative for an industrial application. Moreover, none of the other soil gas or indoor air samples contained TCE above the criteria and TCE was not detected in any of the soil samples. WSP believes these findings indicate that the vapor intrusion of TCE is not a concern at the site and that continued monitoring is not warranted.

5 Conclusions and Recommendations

The RI revealed or confirmed the following:

- The site is underlain by unconsolidated materials (sand and silt with varying amounts of gravel) that extend to a depth of at least 27 feet bgs
- No evidence of buried stream channels, canals, or other preferential pathways at the site are present at the site based on a review of historical air photographs and topographic maps
- Storm water at the site is generally managed via overland flow: no municipal storm sewers are located onsite
- The facility's sanitary sewer line consists of a single main trunk line running the length of the building; flow in the trunk line is to the north towards a municipal sewer beneath Commercial Drive
- The production area is serviced by three active (open) floor drains, two of which are connected to the sanitary sewer with the third discharging to the ground surface via a drain pipe that exits the eastern building foundation; a fourth drain was formerly located in the paint storage room, but has since been sealed from the inside and the drain pipe (which appears to have discharge to the ground surface near the former concrete pad) was removed during the IRM
- Groundwater is present beneath the site at a depth of approximately 11 feet bgs; flow is to the northeast parallel with the flow direction of Sauquoit Creek towards the nearby Mohawk River
- The groundwater elevation has fluctuated over at least a 2 foot interval, most likely in response to varying amounts meteoric infiltration
- An upward gradient was noted in co-located wells MW-5R and MW-9
- No significant concentrations of PCBs were detected in the soil samples collected from beneath the main building
- No significant concentrations of PCBs were detected in soil samples collected outside of the main building, except in two surface samples in the southwest corner of the site; the extent of PCBs detected in these two samples appears to be limited horizontally and vertically
- No PCBs were detected in samples collected from the dry well at the northeast corner of the property or in the soil samples collected from the area beneath the floor drain discharge line where it exits the eastern building foundation
- No VOCs or pesticides were detected in soils at concentrations above the evaluation criteria
- One SVOC, benzo(a)pyrene, was detected in several shallow soil samples at a concentration above the industrial land use SCO; however, the compound was detected only in the paved areas of the site and is likely attributable to the asphalt rather than a petroleum release at the site
- One metal, arsenic, was detected in one soil sample at a concentration slightly above the industrial land use SCO; however, the levels are low (within the range of background in the eastern United States) and likely represent the naturally-occurring arsenic at the site rather than a release attributable to the historical activities at the site
- No PCBs were detected in the representative groundwater samples collected from the site
- Trace concentrations of TCE slightly above the NYSDOH's evaluation criteria were detected in co-located sub-slab soil gas and indoor air from one location within the former production areas of the facility, but do not appear to represent a vapor intrusion concern at the site.

The data clearly demonstrate that PCBs remain the primary environmental issue at the site: no significant release of organic compounds or metals was detected in any of the soil samples and vapor intrusion does not appear to be

a concern. The results also indicate that the extent of PCBs remaining at the site is very limited, they have not impacted the site groundwater (including the area downgradient of where the IRM was conducted), and there is no evidence of the potential for offsite migration. WSP believes that these findings complete the requested site characterization activities and meet the goals of the RI as defined under the BCP. Specifically, the RI has:

- Defined the nature and extent of contamination
- Identified contaminant source areas; and
- Produced data of sufficient quantity and quality to support the development of the final remedy

Completion of the RI typically leads to the remedial selection process and development of a remedial action plan; however, in the case of this site, the final remedy, with the exception of the recommendations below, has already been completed (i.e., as the IRM). Therefore, WSP is proposing to submit a work plan for the follow-up remedial action work to address the limited extent of PCB-affected surficial soil, which will be followed by a *Remedial Action Report* (RAR) that will serve as a companion to the already completed *Construction Completion Report – Interim Remedial Measure*. The RAR will provide a summary of the IRM and detail the follow-up remedial action proposed below. WSP will also submit an *Operation, Maintenance, and Monitoring Plan* (OM&M), which will include the soil management plan for the site, if necessary.

WSP's proposed follow-up remedial action and a tentative schedule for the activities and the reports are presented below.

5.1 Recommended Follow-up Remedial Action

WSP is proposing additional remedial action to address the remaining PCB-affected soil in the southwest corner of the site. Although the horizontal and vertical extent appears to be limited, the PCBs represent a potential health concern (via direct contact) for future employees at the site. The proposed remedial action will follow the same procedures as those used for the *ad-hoc* removal of PCB-affected soils detected beneath the southern soil berm when it was removed as part of the IRM. Soil will be removed over a 10-foot by 10-foot area surrounding each boring to a depth of 1 foot bgs, followed by confirmation sampling, and additional soil removal, if necessary, until the affected soil with PCB concentrations above the site-specific SCO have been removed. All of the excavation spoils will be removed for offsite disposal in an appropriate disposal facility.

WSP is also proposing to seal the interior floor drain that discharges to the ground surface. The drain not only represents a potential conduit to the environment for fluid wastes that could be released by future users of the facility, but it may require a State Pollution Discharge Elimination Permit. Moreover, drains that daylight and discharge to the ground surface are no longer consistent with the best practices for an industrial facility. WSP is proposing to remove the floor drain grate, plug the discharge line at the inlet and outlet with hydraulic cement, and backfill the drain opening with concrete consistent with the floor of the facility.

5.2 Reporting and Schedule

WSP will submit a work plan detailing the proposed soil remediation and drain sealing activities as part of a combined alternatives analysis and remedial action work plan document. The document will include, at a minimum, the proposed excavation bounds, the soil confirmation plan, and details regarding the offsite disposal of the excavation spoils, along with the remedy selection process. WSP is targeting early summer for the follow-up remediation activities.

6 Acronyms

AST	aboveground storage tank
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bgs	below ground surface
DO	dissolved oxygen
DOT	Department of Transportation
EPA	U.S. Environmental Protection Agency
HSA	hollow stem auger
ID	inside diameter
IRM	interim remedial measure
LNAPL	light non-aqueous phase liquid
mg/kg	milligrams per kilogram
MS/MSD	matrix spike/matrix spike duplicate
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	Operations, Maintenance, and Monitoring
ORP	oxygen reduction potential
PCB	polychlorinated biphenyls
PID	photoionization detector
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RAR	Remedial Action Report
RI	remedial investigation
SCO	soil cleanup objective
SOP	standard operating procedure
SVOC	semivolatile organic compound
TAL	target analyte list
TCL	target compound list
$\mu\text{g}/\text{cm}^2$	micrograms per square centimeter
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
$\mu\text{g}/\text{l}$	micrograms per liter
VOC	volatile organic compound

7 References

Shacklette, H.T., and Boerngen, J.G., 1984, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States. U.S. Geological Survey Professional Paper 1270; 105p.

Figures

Tables

Appendix A – Soil Analytical Data

Appendix B – Soil Boring Logs

Appendix C – Groundwater Sampling Logs

Appendix D – Groundwater Analytical Data

Appendix E – Building Inspection and Inventory Form

Appendix F – Vapor Analytical Data

Appendix G – Environmental Data Resources Database

Appendix H – Interim Contaminant Migration Pathway Analysis Report

Appendix I – Data Validation Reports

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Table 1

**Soil Sampling Results - Polychlorinated Biphenyls and Pesticides
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-21 (0-0.17)	SB-21 (0-1)	SB-22 (0-0.17)	SB-22 (0-1)	SB-23 (0-0.17)	SB-23 (0-1)	SB-24 (0-0.17)	SB-0914B Duplicate	SB-24 (0-1.0)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-26 (0-0.17)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	[SB-24 (0-0.17)]	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>
PCBs (mg/kg)													
Aroclor 1254	-	0.0736 U	0.0585 U	0.0600 U	0.0596 U	0.0568 U	0.0576 U	0.0634 U	0.0654 U	0.0561 U	0.0627 U	0.0615 U	0.0646 U
Aroclor 1260	-	0.146 J	0.111 J	0.081 J	0.0596 U	0.0376 J	0.0576 U	0.0971 J	0.108 J	0.0561 U	0.0773 J	0.0820 J	0.112 J
Total PCBs	10	0.146 J	0.111 J	0.081 J	0.0596 U	0.0376 J	0.0576 U	0.0971 J	0.108 J	0.0561 U	0.0773 J	0.0820 J	0.112 J
Pesticides (mg/kg)													
Hexachlorobenzene	12	NA	NA	0.00290 U	0.00288 U	NA	NA	NA	NA	NA	0.0032 UJ	0.00307 UJ	NA
p,p'-DDD	180	NA	NA	0.00290 U	0.00288 U	NA	NA	NA	NA	NA	0.0032 UJ	0.00307 UJ	NA
P,P'-DDT	94	NA	NA	0.00290 U	0.00288 U	NA	NA	NA	NA	NA	0.0032 UJ	0.00307 UJ	NA
Toxaphene	-	NA	NA	0.290 U	0.288 U	NA	NA	NA	NA	NA	0.32 UJ	0.307 UJ	NA

Sample ID (Depth):	Evaluation Criteria	SB-26 (0-1.0)	SB-27 (0-0.17)	SB-27 (0-1.0)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-29 (0-0.17)	SB-29 (0-1.0)	SB-30 (0-0.17)	SB-0914A (0-0.17) Duplicate	SB-30 (0-1.0)	SB-31 (0-0.17)	SB-31 (0-1.0)
Date:	(b)	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	[SB-30 (0-0.17)]	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>
PCBs (mg/kg)													
Aroclor 1254	-	0.0619 U	0.0626 U	0.0573 U	0.3190 U	0.0605 U	0.5430 U	0.3190 U	0.5480 U	1.1200 U	0.1710 U	0.5370 U	0.1180 U
Aroclor 1260	-	0.0721 J	0.539 J	0.0895 J	2.87 J	0.154 J	12.7 J	6.28 J	15.1 J	24.100 J	2.420 J	8.43 J	1.28 J
Total PCBs	10	0.0721 J	0.539 J	0.0895 J	2.87 J	0.154 J	12.7 J	6.28 J	15.1 J	24.100 J	2.420 J	8.43 J	1.28 J
Pesticides (mg/kg)													
Hexachlorobenzene	12	NA	0.00307 U	0.00290 UJ	0.00271 U	0.00304 U	NA	NA	0.00426 J	0.00374 J	0.00286 U	NA	NA
p,p'-DDD	180	NA	0.00307 U	0.00290 UJ	0.00271 U	0.00304 U	NA	NA	0.00279 UJ	0.00283 U	0.00286 U	NA	NA
P,P'-DDT	94	NA	0.00307 U	0.00290 UJ	0.00271 U	0.00304 U	NA	NA	0.00279 UJ	0.00283 U	0.00286 U	NA	NA
Toxaphene	-	NA	0.307 U	0.290 UJ	0.271 U	0.304 U	NA	NA	0.279 UJ	0.283 U	0.286 U	NA	NA

Table 1

**Soil Sampling Results - Polychlorinated Biphenyls and Pesticides
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-33 (0-0.17")	SB-33 (0-1.0)	SB-34 (1-3)	SB-35 (1-3)	SB-36 (1-3)	SB-37 (1-3)	SB-38 (1-3)	SB-39 (1-3)	SB-40 (4-6)	SB-40 (4-6)
Date:	(b)	9/15/14	9/15/14	9/15/14	9/15/14	9/17/14	9/17/14	9/17/14	9/17/14	9/17/14	9/18/14	9/16/14	9/16/14
PCBs (mg/kg)													
Aroclor 1254	-	0.1030 U	0.0610 U	0.2500 U	0.0563 U	0.0656 U	0.0507 U	0.0629 U	0.0500 U	0.0511 U	0.6590 J	0.0783 U	0.0783 U
Aroclor 1260	-	1.05 J	0.0610 U	3.57 J	0.0563 U	0.0656 U	0.0507 U	0.063 U	0.050 U	0.051 U	0.394 J	0.078 U	0.078 U
Total PCBs	10	1.05 J	0.0610 U	3.57 J	0.0563 U	0.0656 U	0.0507 U	0.063 U	0.050 U	0.051 U	1.053 J	0.078 U	0.078 U
Pesticides (mg/kg)													
Hexachlorobenzene	12	0.00253 U	0.00305 U	NA	NA	0.0033 U	NA	0.00312 U	0.00251 U	NA	0.00258 U	0.00389 U	NA
p,p'-DDD	180	0.00253 U	0.00125 J	NA	NA	0.0033 U	NA	0.00312 U	0.00251 U	NA	0.00258 U	0.00328 J	NA
P,P'-DDT	94	0.00253 U	0.00305 U	NA	NA	0.0033 U	NA	0.00312 U	0.00251 U	NA	0.00258 U	0.00389 U	NA
Toxaphene	-	0.253 U	0.305 U	NA	NA	0.33 U	NA	0.312 U	0.251 U	NA	0.258 U	0.389 U	NA
Sample ID (Depth):	Evaluation Criteria	SB-41 (2-4)	SB-42 (2-4)	SB-43 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-45 (2-4)	SB-45 (12-14)	SB-46 (2-4)	SB-47 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7) Duplicate [SB-48 (5-7)]
Date:	(b)	9/16/14	9/16/14	9/18/14	9/16/14	9/16/14	9/17/14	9/17/14	9/18/14	9/17/14	9/17/14	9/17/14	9/17/14
PCBs (mg/kg)													
Aroclor 1254	-	0.0729 U	0.0618 U	0.0557 U	0.0512 U	0.0522 U	0.0541 U	0.0536 U	0.0630 U	0.2110 U	0.6160 J	0.0618 U	0.0612 U
Aroclor 1260	-	0.073 U	0.062 U	0.056 U	0.051 U	0.044 J	0.054 U	0.055 J	0.063 U	3.870 J	0.056 U	0.062 U	0.061 U
Total PCBs	10	0.073 U	0.062 U	0.056 U	0.051 U	0.044 J	0.054 U	0.055 J	0.063 U	3.870 J	0.616 J	0.062 U	0.061 U
Pesticides (mg/kg)													
Hexachlorobenzene	12	0.00364 UJ	0.00296 UJ	NA	0.0026 UJ	0.00265 UJ	NA	NA	0.00321 UJ	NA	0.00272 U	0.00316 U	0.00304 U
p,p'-DDD	180	0.00364 UJ	0.00296 UJ	NA	0.0026 UJ	0.00265 UJ	NA	NA	0.00321 UJ	NA	0.00272 U	0.00316 U	0.00304 U
P,P'-DDT	94	0.00364 UJ	0.00296 UJ	NA	0.0026 UJ	0.00265 UJ	NA	NA	0.00321 UJ	NA	0.00272 U	0.00316 U	0.00304 U
Toxaphene	-	0.364 UJ	0.296 UJ	NA	0.26 UJ	0.265 UJ	NA	NA	0.321 UJ	NA	0.272 U	0.316 U	0.304 U

Table 1

Soil Sampling Results - Polychlorinated Biphenyls and Pesticides
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-50(0-0.17)	SB-150 Duplicate	SB-50 (0-1.0)	SB-51 (7.5-8)
Date:	(b)	<u>12/19/14</u>	<u>[SB-50 (0-.17)]</u>	<u>12/19/14</u>	<u>12/19/14</u>
PCBs (mg/kg)					
Aroclor 1254	-	0.0440 U	0.0410 U	0.0450 U	0.0370 U
Aroclor 1260	-	1.970	0.620	2.010	0.2050 J
Total PCBs	10	1.970	0.620	2.010	0.2050

a) PCBs = polychlorinated biphenyls ; U = analyte not detected above reporting limit; NA = not analyzed;
 UJ = analyte not detected above reporting limit, quantitation limit may be inaccurate or imprecise.
 J = reported value may not be accurate or precise.

b) Analytes highlighted in bold text and gray shading exceed either the site-specific soil cleanup objective (PCBs only; see text for explanation) or the New York State Department of Environmental Conservation's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives).

Table 2

**Soil Sampling Results - Semivolatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-22 (0-0.17)	SB-22 (0-1)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-27 (0-0.17)	SB-27 (0-1.0)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-30 (0-0.17)	SB-0914A (0-0.17)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>Duplicate</u> <u>[SB-30 (0-0.17)]</u>
SVOCs (µg/kg)											
2-Methylnaphthalene	-	83 J	399 U	212 U	208 U	418 U	192 U	716 U	203 U	748 U	760 U
Cresols, M & P	1,000	405 U	799 U	424 U	417 U	837 U	383 U	1,430 U	406 U	1,500 U	1,520 U
Acenaphthene	1,000,000	378	399 U	212 U	128 J	90 J	192 U	190 J	203 U	748 UJ	194 J
Acenaphthylene	1,000,000	203 U	399 U	212 U	208 U	161 J	192 U	716 U	203 U	192 J	308 J
Anthracene	-	545	98 J	43 J	127 J	406 J	192 U	417 J	203 U	470 J	760 J
Benzo(a)anthracene	11,000	1,360	341 J	184 J	416	2,380	71 J	1,960	149 J	2,330 J	3,260
Benzo(a)pyrene	1,100	1,010	319 J	158 J	336	2,250	65 J	1,840	131 J	2,420 J	3,150
Benzo(b)fluoranthene	11,000	947	335 J	141 J	336	1,960	59 J	1,770	126 J	2,190 J	2,850
Benzo(g,h,i)perylene	1,000,000	574	214 J	97 J	177 J	1,390	39 J	1,160	84 J	1,630 J	2,110
Benzo(k)fluoranthene	110,000	1,080	314 J	147 J	324	2,370	63 J	1,590	125 J	2,150 J	3,190
bis(2-Ethylhexyl) phthalate	-	316 J	567 J	424 U	803	837 U	1,550	1,430 U	406 U	461 J	1,520 U
Benzyl butyl phthalate	-	405 U	799 U	424 U	417 U	837 U	383 U	1,430 U	406 U	316 J	317 J
Carbazole	-	455	112 J	212 U	92 J	147 J	192 U	177 J	203 U	748 U	192 J
Chrysene	110,000	1,550	448	211 J	446	2,610	80 J	2,150	167 J	2,540 J	3,520
Dibenzofuran	1,000,000	210	399 U	212 U	208 U	418 U	192 U	716 U	203 U	748 U	760 U
Di-n-butyl phthalate	-	405 U	799 U	91 J	101 J	104 J	74 J	1,430 U	91 J	1,500 U	1,520 U
Fluoranthene	1,000,000	3,270	951	347	824	3,730	128 J	3,180	239	3,630 J	5,140
Fluorene	1,000,000	336	399 U	212 U	74 J	418 U	192 U	716 U	203 U	748 UJ	760 U
Indeno(1,2,3-c,d)pyrene	11,000	558	189 J	87 J	171 J	1,230	192 U	1,090	74 J	1,510 J	1,860
Naphthalene	1,000,000	109 J	399 U	212 U	208 U	418 U	192 U	716 U	203 U	748 U	760 U
Phenanthrene	1,000,000	3,010	742	182 J	561	1,390	71 J	1,480	128 J	1,240 J	1,840
Pyrene	1,000,000	2,520	719	349	771	3,880	129 J	2,860	241	3,490 J	4,980

Table 2

**Soil Sampling Results - Semivolatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-30 (0-1.0)	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-34 (1-3)	SB-36 (1-3)	SB-37 (1-3)	SB-39 (1-3)	SB-40 (4-6)	SB-41 (2-4)
Date:	(b)	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/18/14</u>	<u>9/16/14</u>	<u>9/16/14</u>
SVOCs (µg/kg)										
2-Methylnaphthalene	-	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Cresols, M & P	1,000	390 U	343 U	1,630 U	435 U	425 U	349 U	349 U	531 U	483 U
Acenaphthene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Acenaphthylene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	65 J	241 UJ
Anthracene	-	93 J	172 U	639 J	217 U	213 U	175 U	175 U	78 J	241 U
Benzo(a)anthracene	11,000	364	172 U	2,590	217 U	213 U	175 U	36 J	255 J	108 J
Benzo(a)pyrene	1,100	359	172 U	2,600	217 U	213 U	175 U	175 U	287	94 J
Benzo(b)fluoranthene	11,000	314	172 U	2,160	217 U	213 U	175 U	175 U	261 J	109 J
Benzo(g,h,i)perylene	1,000,000	223	172 U	1,650	217 U	213 U	175 U	175 U	221 J	72 J
Benzo(k)fluoranthene	110,000	322	172 U	2,330	217 U	213 U	175 U	175 U	247 J	97 J
bis(2-Ethylhexyl) phthalate	-	390 U	343 U	1,630 U	435 U	425 U	349 U	349 U	531 U	483 U
Benzyl butyl phthalate	-	390 U	343 U	1,630 U	435 U	425 U	349 U	349 U	531 U	483 U
Carbazole	-	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Chrysene	110,000	366	172 U	2,730	217 U	213 U	175 U	175 U	384	152 J
Dibenzofuran	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Di-n-butyl phthalate	-	81 J	66 J	1,630 U	119 J	98 J	78 J	349 U	60 J	483 U
Fluoranthene	1,000,000	555	172 U	4,130	217 U	213 U	175 U	65 J	569	230 J
Fluorene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Indeno(1,2,3-c,d)pyrene	11,000	211	172 U	1,570	217 U	213 U	175 U	175 U	169 J	65 J
Naphthalene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Phenanthrene	1,000,000	191 J	172 U	1,990	217 U	213 U	175 U	40 J	430	139 J
Pyrene	1,000,000	578	172 U	4,150	217 U	213 U	175 U	51 J	733	247

Table 2

**Soil Sampling Results - Semivolatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-42 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-46 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7)
Date:	(b)	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/18/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>Duplicate</u> <u>[SB-48 (5-7)]</u>
SVOCs (µg/kg)								
2-Methylnaphthalene	-	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Cresols, M & P	1,000	408 U	349 U	359 U	428 U	380 U	43 J	420 U
Acenaphthene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Acenaphthylene	1,000,000	204 UJ	175 UJ	179 UJ	214 U	190 U	210 U	210 U
Anthracene	-	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(a)anthracene	11,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(a)pyrene	1,100	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(b)fluoranthene	11,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(g,h,i)perylene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(k)fluoranthene	110,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
bis(2-Ethylhexyl) phthalate	-	408 U	349 U	359 U	428 U	380 U	420 U	420 U
Benzyl butyl phthalate	-	408 U	349 U	359 U	428 U	380 U	420 U	420 U
Carbazole	-	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Chrysene	110,000	43 J	175 U	179 U	214 U	190 U	210 U	210 U
Dibenzofuran	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Di-n-butyl phthalate	-	408 U	349 U	43 J	428 U	380 U	123 J	72 J
Fluoranthene	1,000,000	54 J	175 U	179 U	214 U	190 U	210 U	210 U
Fluorene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Indeno(1,2,3-c,d)pyrene	11,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Naphthalene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Phenanthrene	1,000,000	204 U	175 U	179 U	214 U	190 UJ	210 U	210 U
Pyrene	1,000,000	66 J	175 U	179 U	214 U	190 U	210 U	210 U

a) SVOCs = Semi-volatile organic compounds; NYSDEC = New York State Department of Environmental Conservation; SCO = soil cleanup objective; U = analyte not detected above reporting limit; UJ = analyte not detected above reporting limit, quantitation limit may be inaccurate or imprecise; J = reported value may not be accurate or precise; ug/kg = micrograms per kilogram.

b) Analytes highlighted in bold text and gray shading exceed the NYSDEC's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives).

Table 3
Soil Sampling Results - Metals
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-22 (0-0.17)	SB-22 (0-1)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-27 (0-0.17)	SB-27 (0-1.0)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-30 (0-0.17)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>
Metals (mg/kg)										
Aluminum	-	8,730 J	8,090 J	11,400	11,500	10,300	10,600	5,610	11,100	2,400 J
Antimony	-	0.897 J	0.640 J	0.637 UJ	0.588 UJ	0.606 UJ	0.575 UJ	2.750 UJ	1.120 UJ	2.770 UJ
Arsenic	16	12.1 J	12.1 J	10.2 J	12.0 J	8.4 J	9.4 J	6.7 J	9.8 J	3.6 J
Barium	10000	78.4	73.1	84.1	101.0	85.7	88.4	93.3	125.0	39.0 J
Beryllium	2700	0.470 J	0.434 J	0.583	0.607	0.548	0.546	2.200 U	0.580 J	2.220 U
Cadmium	60	1.05	0.85	0.68	0.73	0.62	0.65	0.91 J	1.41	2.06 J
Calcium	-	22,400	86,600	6,430	4,100	11,500	2,760	195,000	91,600	242,000
Chromium, Total	6800	25.1	17.1	17.7	15.8	15.7	13.4	17.3	33.8	16.9
Cobalt	-	7.84	6.52	9.01	9.93	8.45	8.75	6.03	7.60	4.51
Copper	10000	122	70	47	57	40	23	105	260	71 J
Iron	-	22,100	19,100	24,900	28,400	23,300	27,400	13,700	24,900	8,580 J
Lead	3900	78.0	67.6 B	33.9	29.3	32.4	16.9	22.0	45.1	56.2 J
Magnesium	-	4,540	4,380	3,630	3,560	3,640	2,880	6,670	6,470	5,880 J
Manganese	10000	813	757	824	1,380	920	1,010	308	413	368 J
Nickel	10000	271	91	21	19	18	16	17	19	17
Potassium	-	1,320	1,160	1,770	1,450	1,500	1,160	1,100	1,440	763 J
Selenium	6800	1.23 U	1.18 U	0.96 J	0.90 J	0.97 J	1.74	5.51 U	1.04 J	5.54 U
Silver	6800	0.862 U	0.827 U	0.892 U	0.152 J	0.849 U	0.806 U	3.850 U	1.570 U	3.880 U
Sodium	-	38.8 J	192.0	63.7 U	58.8 U	62.2	57.5 U	275.0 U	169.0	277.0 U
Thallium	-	0.736 J	0.819 J	1.270 U	0.779 J	0.468 J	0.616 J	5.510 U	2.240 U	5.540 U
Vanadium	-	18.6	17.5	20.7	20.8	19.6	21.7	12.2	19.1	19.5
Zinc	10000	196	116	116	100	148	84	82	124	1,380 J
Mercury	6	0.0703 J	0.0693 J	0.0916	0.0986	0.0662	0.0676	0.0735	0.2310	0.0643
Chromium, Hexavalent	800	1.20 U	1.22 U	13.3	12.1	12.3	11.8	1.04 U	1.11 U	1.12 U

Table 3
Soil Sampling Results - Metals
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-0914A (0-0.17)	SB-30 (0-1.0)	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-34 (1-3)	SB-36 (1-3)	SB-37 (1-3)	SB-39 (1-3)	SB-40 (4-6)
Date:	(b)	<u>Duplicate</u> [SB-30 (0-0.17)]	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/18/14</u>	<u>9/16/14</u>
Metals (mg/kg)										
Aluminum	-	1,460	12,200	1,450	16,200	3,170	2,800	3,870	3,030 J	12,500
Antimony	-	5.430 UJ	0.548 UJ	2.460 UJ	0.572 UJ	0.928 UJ	0.620 UJ	0.531 U	0.529 UJ	4.340 J
Arsenic	16	3.0 J	8.3 J	2.6 J	5.5 J	1.8	1.2	2.7	1.9 J	18.7 J
Barium	10000	23.7	88.1	40.0	111.0	12.7	8.7	15.5	12.4	120.0
Beryllium	2700	4.350 U	0.673	1.970 U	0.941	0.137 J	0.148 J	0.165 J	0.137 J	0.742
Cadmium	60	1.17 J	0.51	0.27 J	0.69	0.13 J	0.10 J	0.19 J	0.14 J	12.60
Calcium	-	312,000	4,190	199,000	3,670	7,190	2,880	4,910	7,030	63,000
Chromium, Total	6800	10.9	15.1	4.4	20.5	3.9	3.3	5.0	3.8	217.0
Cobalt	-	2.78 J	10.70	3.25	11.90	2.63	2.14	3.31	2.57	9.72
Copper	10000	41	29	15	30	10	6	12	9	2,310
Iron	-	6,120	26,100	4,160	31,900	7,520	6,260	9,850	7,130	32,600
Lead	3900	35.7	13.2	9.0	14.3	1.9	1.4	2.4	2.0	119.0
Magnesium	-	23,300	3,530	4,920	5,180	2,360	1,630	2,270	2,390	5,920
Manganese	10000	327	549	291	266	259	212	357	253	709
Nickel	10000	11	18	8	27	6	5	7	5	40
Potassium	-	543 U	1,150	730	1,530	579	522	606	633	1,870
Selenium	6800	10.90 U	0.68 J	4.92 U	0.83 J	1.26 U	1.24 U	1.06 U	1.06 U	1.79
Silver	6800	7.610 U	0.767 U	3.440 U	0.801 U	0.879 U	0.868 U	0.743 U	0.741 U	3.790
Sodium	-	543.0 U	67.7	246.0 U	62.5	62.8 U	62.0 U	55.7	85.7	94.3
Thallium	-	10.900 U	0.402 J	4.920 U	0.481 J	1.260 U	1.240 U	0.346 J	1.060 U	0.575 J
Vanadium	-	11.5	19.6	4.3	26.3	5.6	4.9	7.3	5.6	25.1
Zinc	10000	1,570	105	41	79	18	12	24	17	295
Mercury	6	0.0505	0.0578	0.0162 J	0.0602	0.0460 U	0.0457 U	0.0384 U	0.0370 UJ	0.3350
Chromium, Hexavalent	800	5.62 U	1.16 U	1.02 U	1.08 U	1.00 U	1.00 U	1.04 U	1.03 U	1.30 U

Table 3
Soil Sampling Results - Metals
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-41 (2-4)	SB-42 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-46 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7)
Date:	(b)	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/18/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>Duplicate</u> <u>[SB-48 (5-7)]</u>
Metals (mg/kg)									
Aluminum	-	11,800	10,500	2,910	8,390	9,550	2,810	11,600	12,100
Antimony	-	3.090 J	0.614 UJ	0.532 UJ	2.630 UJ	0.641 UJ	0.542 UJ	0.884 J	1.140 UJ
Arsenic	16	14.2 J	7.9 J	1.5 J	5.7 J	8.2	1.4 J	9.6	12.0
Barium	10000	137.0	64.5	9.8	45.4	75.5	10.2	99.4	97.7
Beryllium	2700	0.605	0.471 J	0.126 J	2.110 U	0.501 J	0.115 J	0.633	0.631 J
Cadmium	60	4.62	0.68	0.09 J	0.29 J	0.55	0.14 J	1.11	1.09
Calcium	-	57,600	4,080	3,770	117,000	3,170	4,790	25,200	31,800
Chromium, Total	6800	136.0	17.9	3.4	10.4	14.1	4.1	24.9	25.7
Cobalt	-	9.11	7.77	2.36	5.74	8.31	2.29	9.35	10.10
Copper	10000	1,610	56	7	38	23	20	138	102
Iron	-	38,600	29,700	6,670	25,500	24,500	6,480	27,800	30,100
Lead	3900	84.2	10.1	1.5	5.8	9.4	12.6	26.8	26.2
Magnesium	-	5,000	4,100	1,800	15,800	3,390	1,740	4,280	4,480
Manganese	10000	1,030	781	234	801	787	218 J	671	998
Nickel	10000	26	16	5	12	17	5	21	22
Potassium	-	1,720	1,050	550	876	1,270	564 J	1,480	1,640
Selenium	6800	1.18 J	1.23 U	1.06 U	5.26 U	1.28 U	0.54 J	1.22 U	2.28 U
Silver	6800	3.870	0.860 U	0.745 U	3.680 U	0.897 U	0.759 U	0.882	1.600 U
Sodium	-	191.0	61.4 U	53.2 U	263.0 U	155.0	61.6	1920.0	1760.0
Thallium	-	0.728 J	0.459 J	1.060 U	5.260 U	0.721 J	1.080 U	0.782 J	0.992 J
Vanadium	-	22.7	20.4	5.1	16.3	17.2	5.1	20.9	22.7
Zinc	10000	261	75	14	60	70	14	108	99
Mercury	6	0.9690	0.1040	0.0426 U	0.0420 U	0.0271 J	0.0413 U	0.1520	0.1430
Chromium, Hexavalent	800	21.9 J	1.21 U	1.03 U	1.04 U	1.14 U	1.21 U	1.24 U	1.28 U

a\ NYSDEC = New York State Department of Environmental Conservation; SCO = soil cleanup objective; U = analyte not detected above reporting limit; J = estimated concentration below reporting limit; B = analyte was detected in associated method blank; D = concentration is the result of a secondary dilution analysis; NA = not analyzed; mg/kg = milligrams per kilogram.

b\ Analytes highlighted in bold text and gray shading exceed the NYSDEC's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives).

Table 4

**Soil Sampling Results - Volatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-22 (0-0.17)	SB-22 (0-1)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-27 (0-1.0)	SB-27 (0-0.17)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-30 (0-0.17)	SB-0914A (0-0.17)	SB-30 (0-1.0)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	Duplicate [SB-30 (0-0.17)]	<u>9/15/14</u>
VOCs (µg/kg)												
1,2,4-Trichlorobenzene	-	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
1,2,4-Trimethylbenzene	380,000	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
1,3,5-Trimethylbenzene	380,000	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Acetone	1,000,000	13.0 UJL	12.0 UJL	13.5 UJL	14.1 UJL	13.7 UJL	13.7 UJL	12.0 UJL	13.2 UJL	12.1 UJL	22.6 UJL	35.4 UJL
Carbon Disulfide	-	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Chloroform	700,000	2.0 UJL	2.0 J	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Total Xylenes (c)	1,000,000	13.0 UJL	12.0 UJL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	1,000,000	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Methylene Chloride	1,000,000	13.0 UJL	12.0 UJL	13.5 UJL	14.1 UJL	13.7 UJL	13.7 UJL	12.0 UJL	13.2 UJL	12.1 UJL	22.6 UJL	35.4 UJL
Naphthalene	-	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Tetrachloroethene	300,000	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Toluene	1,000,000	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Sample ID (Depth):	Evaluation Criteria	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-34 (1-3)	SB-34 (10-12)	SB-36 (1-3)	SB-36 (10-12)	SB-37 (1-3)	SB-37 (10-12)	SB-39 (1-3)	SB-40 (4-6)	SB-41 (2-4)
Date:	(b)	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/18/14</u>	<u>9/16/14</u>	<u>9/16/14</u>
VOCs (µg/kg)												
1,2,4-Trichlorobenzene	-	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	NA	8.3 UJL	6.4 UJL
1,2,4-Trimethylbenzene	380,000	2.2 UJL	3.1 JL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	380,000	2.2 UJL	1.7 JL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1,000,000	11.1 UJL	13.1 UJL	5.9 JL	6.0 JL	51.0 UJL	6.8 JL	5.5 JL	6.5 JL	10.0 UJL	83.0 J	64.0 UJL
Carbon Disulfide	-	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Chloroform	700,000	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Total Xylenes (c)	1,000,000	NA	NA	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Methyl ethyl ketone	1,000,000	2.2 UJL	2.6 UJL	31.0 UJL	33.0 UJL	30.0 UJL	31.0 UJL	32.0 UJL	33.0 UJL	10.0 UJL	50.0 UJL	38.0 UJL
Methylene Chloride	1,000,000	11.1 UJL	13.1 UJL	5.3 UJL	5.9 UJL	5.1 UJL	5.2 UJL	5.6 UJL	6.4 UJL	10.0 UJL	15.0 UJL	11.0 UJL
Naphthalene	-	2.2 UJL	7.0 JL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	300,000	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Toluene	1,000,000	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL

Table 4
Soil Sampling Results - Volatile Organic Compounds
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	SB-42 (11-14)	SB-42 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-46 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7)	SB-48 (13-15)
Date:	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/18/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>Duplicate</u> <u>[SB-48 (5-7)]</u>	<u>9/17/2015</u>
VOCs (µg/kg)									
1,2,4-Trichlorobenzene	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	NA	7.6 JL	6.3 UJL	6.4 UJL	5.4 UJL
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	7.4 J	11.0 J	53.0 UJL	54.0 UJL	12.0 UJL	7.8 JL	56.0 JL	75.0 JL	54.0 UJL
Carbon Disulfide	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	2.5 JL	9.1 JL	5.4 UJL
Chloroform	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	6.3 UJL	6.4 UJL	5.4 UJL
Total Xylenes (c)	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	2.0 JL	6.3 UJL	6.3 UJL	6.4 UJL	5.4 UJL
Methyl ethyl ketone	32.0 UJL	41.0 UJL	32.0 UJL	33.0 UJL	12.0 UJL	38.0 UJL	12.0 JL	38.0 UJL	33.0 UJL
Methylene Chloride	5.5 UJL	8.7 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	6.3 UJL	8.5 UJL	5.4 UJL
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	6.3 UJL	6.4 UJL	1.8 JL
Toluene	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	2.5 JL	6.3 UJL	6.4 UJL	5.4 UJL

a\ VOCs = Volatile organic compounds; NYSDEC = New York State Department of Environmental Conservation; SCO = soil cleanup objective; U = analyte not detected above reporting limit; JL = estimated concentration with possible low bias; UJL = not detected, possible low bias; NA = not analyzed; ug/kg = micrograms per kilogram.

b\ Analytes highlighted in bold text and gray shading exceed the NYSDEC's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b):

c\ All samples were analyzed for m,p&o-xylenes, individually, which were non-detect throughout the data set, however, the samples analysed by Pace Long Island also reported Total Xylenes, of which there was a trace detectoin in one sample.

Table 5
Groundwater Elevations
5140 Site
Yorkville, New York (a)

<u>Well ID</u>	<u>Depth to Water</u>				<u>Groundwater Elevation</u>				<u>Notes</u>
	(ft btoc)				(ft aMSL)				
	<u>11/29/2012</u>	<u>12/20/2012</u>	<u>10/14/2014</u>	<u>1/12/2015</u>	<u>11/29/2012</u>	<u>12/20/2012</u>	<u>10/14/2014</u>	<u>1/12/2015</u>	
MW-5	10.51	9.31	-		414.28	415.48	-	-	Destroyed
MW-5R	-	-	11.69	9.44	-	-	413.07	415.32	
MW-6	10.48	9.46	11.54	9.37	414.46	415.48	413.4	415.57	
MW-7	9.84	8.66	11.11	8.86	414.28	415.46	413.01	415.26	
MW-8	9.67	8.41	10.71	NM	414.55	415.81	413.51	NM	
MW-9	-	-	11.39	9.17	-	-	413.28	415.5	
MW-10	-	-	13.48	11.23	-	-	413.4	415.65	

a/ ft aMSL = feet above mean sea level; ft btoc = feet below top of casing; "-"= not applicable/not measured.
b/ MW-8 was inaccessible on 1/12/15 due to snow and ice.

Table 6

**Groundwater Results - Polychlorinated Biphenyls
5140 Site
Yorkville, New York (a)**

Sample ID: Date Sampled:	Evaluation Criteria (b)	MW-5R			MW-6			MW-7	
		10/14/14	1/12/15	1/12/15 Duplicate (c)	10/14/14	10/14/14 Duplicate (e)	1/12/15	10/14/14	1/12/15
PCBs (µg/l)									
Aroclor 1016	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1221	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1232	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1242	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1248	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1254	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.211 J	0.26 U
Aroclor 1260	0.09	0.346 J	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U

Sample ID: Date Sampled:	Evaluation Criteria (b)	MW-8 (e)		MW-9		MW-10	
		10/14/14	10/14/14 (e)	10/14/14	1/12/15	10/14/14	1/12/15
PCBs (µg/l)							
Aroclor 1016	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1221	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1232	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1242	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1248	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1254	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1260	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U

- a/ PCBs = polychlorinated biphenyls; µg/l = micrograms per liter; U = analyte not detected above laboratory detection limits. UJ = not detected, quantitation limit may be inaccurate or imprecise; J = reported value may not be accurate or precise.
The October 14, 2014 samples from monitoring wells MW-5R and MW-7 were collected outside of the low flow purge stabilization criteria for nephthometric units and are considered false positive detections. The data are included in this table for purposes of discussion only. See text for further explanation.
- b/ Concentrations in bold text and gray shading exceed the New York State Ambient Water Quality Standards or Guidance Values for Class groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998.
- c/ Blind duplicate of sample from MW-5R was designated MW-0115 in the field.
- d/ Blind duplicate of sample from MW-6 was designated MW-1014 in the field.
- e/ Monitoring well MW-8 was inaccessible due to snow and ice cover present at the site on 1/12/15.

Table 7

**Sub-slab Soil Gas, Indoor Air and Ambient Air Sampling Results
5140 Site
Yorkville, New York (a)**

Sample ID (Depth): Sample Type:	SS-01	IA-01	SS-02	IA-02	SS-03	IA-03	SS-04	SS-1014	IA-04	OA-1
	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Subslab Duplicate (c)	Indoor Air	Outdoor Air
Date:	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14
VOCs ($\mu\text{g}/\text{m}^3$)										
1,1,1-Trichloroethane	0.55 J	0.15 U	1.8 J	0.15 U	7 J	0.15 U	13	13	0.15 U	0.15 U
1,2,4-Trichlorobenzene	0.15 U	0.15 U	6.3 J	0.15 U	1.1 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-Trimethylbenzene	4.5 J	0.15 U	13	0.74	6.7 J	0.74	19 J	17	0.15 U	0.54 J
1,3,5-Trimethylbenzene	2 J	0.15 U	0.15 U	0.59 J	0.15 U	0.64 J	8.3 J	8.2 J	0.15 U	0.15 U
1,4-Dichlorobenzene	0.96 J	0.15 U	1.7 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2,2,4-trimethylpentane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.1	2.2	0.15 U	0.15 U
4-ethyltoluene	1 J	0.15 U	1.7 J	0.15 U	0.93 J	0.15 U	6.7 J	6.3 J	0.15 U	0.15 U
Acetone	650	24	470	24	460	20	1,900	2,600	13	14
Benzene	2.8 J	0.42 J	3.6 J	0.42 J	3.6 J	0.45 J	11	11	0.38 J	0.15 U
Carbon disulfide	11	0.15 U	20	0.15 U	11	0.15 U	9	9	0.15 U	0.15 U
Carbon tetrachloride	0.15 U	0.57	0.15 U	0.63	0.15 U	0.04 U	0.15 U	0.15 U	0.63	0.63
Chlorobenzene	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.46 J	0.15 U	0.15 U	0.15 U	0.15 U
Chloroethane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.47	0.42	0.15 U	0.15 U
Chloroform	2.2 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.63 J	0.73	0.15 U	0.15 U
Chloromethane	0.15 U	1.1	0.56	1.2	0.15 U	1	0.15 U	0.15 U	0.95	1.1
Cyclohexane	3.6 J	0.15 U	0.15 U	0.15 U	3.3 J	0.15 U	7.3	9.3	0.15 U	0.15 U
Ethyl acetate	0.25 U	0.25 U	0.61 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	3 J	0.15 U	19	0.15 U	5.8 J	0.15 U	8 J	7.7 J	0.15 U	0.15 U
Freon 11	1.9 J	1.9	42	1.9	390	1.9	15	15	1.7	1.6
Freon 113	0.15 U	0.15 U	1 J	0.15 U	5.3 J	0.15 U	0.15 U	0.77 J	0.15 U	0.15 U
Freon 12	3.4 J	2.9	6.4	2.8	2.9 J	2.8	2.5	2.3	2.7	2.5
Heptane	8.6	0.15 U	6.1	0.15 U	7.8	0.15 U	20	19	0.15 U	0.15 U
Hexane	14	0.15 U	6.7	0.15 U	9.5	0.15 U	20	18	0.15 U	0.15 U
Isopropyl alcohol	12	2.5	18	2.1	14	4.3	41	0.15 U	3.3	2.8
m&p-Xylene	13 J	1.2 J	62	1.3 J	12 J	1.4	23	22	1.1 J	0.43 J
Methyl Butyl Ketone	1.7 J	0.3 U	5.7 J	0.3 U	2.7 J	0.3 U	0.3 UJ	0.3 UJ	0.3 U	0.3 U
Methyl Ethyl Ketone	8.3 J	1	11	1.1	7.4 J	1.3	19	14	1	0.91
Methyl Isobutyl Ketone	2.5 J	0.3 U	3.6 J	0.3 U	1.9 J	0.3 U	6.8 J	6.7 J	0.3 U	0.3 U
Methyl tert-butyl ether	4.9 J	0.15 U	4.5	0.15 U	4.4 J	0.15 U	11	9.4	0.15 U	0.15 U
Methylene chloride	0.15 U	0.15 U	0.42 J	0.45 J	0.45 J	0.52	0.45 J	0.56	0.15 U	0.35 J
o-Xylene	2.9 J	0.15 U	11	0.56 J	4.2 J	0.52 J	5.5 J	5.5 J	0.15 U	0.15 U
Styrene	1.4 J	0.15 U	2.7 J	0.15 U	1.6 J	0.15 U	7.7	6.8	0.15 U	0.15 U
Tetrachloroethylene	0.81 J	0.15 U	8.3 J	0.15 U	45	0.15 U	74	69	0.15 U	0.15 U
Toluene	11	0.9	9	0.87	10	1.6	25	23	0.83	0.68
Trichloroethene	0.91 J	0.04 U	0.97 J	0.04 U	5.9 J	0.27	20	19	0.04 U	0.04 U

a/ VOCs = volatile organic compounds; U = compound not detected at or above the reporting limit; UJ = quantitation limit may be inaccurate or imprecise; J = estimated concentration; $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

b/ Evaluation criteria are Soil Vapor/Indoor Air Matrices 1 and 2, as presented in the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

c/ SS-1014 is a blind duplicate sample of SS-04.

Table 7

**Sub-slab Soil Gas, Indoor Air and Ambient Air Sampling Results
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	SS-01	IA-01	SS-02	IA-02	SS-03	IA-03	SS-04	SS-1014	IA-04	OA-1
Sample Type:	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Subslab Duplicate (c)	Indoor Air	Outdoor Air
Date:	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14
VOCs (µg/m³)										
1,1,1-Trichloroethane	0.55 J	0.15 U	1.8 J	0.15 U	7 J	0.15 U	13	13	0.15 U	0.15 U
1,2,4-Trichlorobenzene	0.15 U	0.15 U	6.3 J	0.15 U	1.1 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-Trimethylbenzene	4.5 J	0.15 U	13	0.74	6.7 J	0.74	19 J	17	0.15 U	0.54 J
1,3,5-Trimethylbenzene	2 J	0.15 U	0.15 U	0.59 J	0.15 U	0.64 J	8.3 J	8.2 J	0.15 U	0.15 U
1,4-Dichlorobenzene	0.96 J	0.15 U	1.7 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2,2,4-trimethylpentane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.1	2.2	0.15 U	0.15 U
4-ethyltoluene	1 J	0.15 U	1.7 J	0.15 U	0.93 J	0.15 U	6.7 J	6.3 J	0.15 U	0.15 U
Acetone	650	24	470	24	460	20	1,900	2,600	13	14
Benzene	2.8 J	0.42 J	3.6 J	0.42 J	3.6 J	0.45 J	11	11	0.38 J	0.15 U
Carbon disulfide	11	0.15 U	20	0.15 U	11	0.15 U	9	9	0.15 U	0.15 U
Carbon tetrachloride	0.15 U	0.57	0.15 U	0.63	0.15 U	0.04 U	0.15 U	0.15 U	0.63	0.63
Chlorobenzene	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.46 J	0.15 U	0.15 U	0.15 U	0.15 U
Chloroethane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.47	0.42	0.15 U	0.15 U
Chloroform	2.2 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.63 J	0.73	0.15 U	0.15 U
Chloromethane	0.15 U	1.1	0.56	1.2	0.15 U	1	0.15 U	0.15 U	0.95	1.1
Cyclohexane	3.6 J	0.15 U	0.15 U	0.15 U	3.3 J	0.15 U	7.3	9.3	0.15 U	0.15 U
Ethyl acetate	0.25 U	0.25 U	0.61 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	3 J	0.15 U	19	0.15 U	5.8 J	0.15 U	8 J	7.7 J	0.15 U	0.15 U
Freon 11	1.9 J	1.9	42	1.9	390	1.9	15	15	1.7	1.6
Freon 113	0.15 U	0.15 U	1 J	0.15 U	5.3 J	0.15 U	0.15 U	0.77 J	0.15 U	0.15 U
Freon 12	3.4 J	2.9	6.4	2.8	2.9 J	2.8	2.5	2.3	2.7	2.5
Heptane	8.6	0.15 U	6.1	0.15 U	7.8	0.15 U	20	19	0.15 U	0.15 U
Hexane	14	0.15 U	6.7	0.15 U	9.5	0.15 U	20	18	0.15 U	0.15 U
Isopropyl alcohol	12	2.5	18	2.1	14	4.3	41	0.15 U	3.3	2.8
m&p-Xylene	13 J	1.2 J	62	1.3 J	12 J	1.4	23	22	1.1 J	0.43 J
Methyl Butyl Ketone	1.7 J	0.3 U	5.7 J	0.3 U	2.7 J	0.3 U	0.3 UJ	0.3 UJ	0.3 U	0.3 U
Methyl Ethyl Ketone	8.3 J	1	11	1.1	7.4 J	1.3	19	14	1	0.91
Methyl Isobutyl Ketone	2.5 J	0.3 U	3.6 J	0.3 U	1.9 J	0.3 U	6.8 J	6.7 J	0.3 U	0.3 U
Methyl tert-butyl ether	4.9 J	0.15 U	4.5	0.15 U	4.4 J	0.15 U	11	9.4	0.15 U	0.15 U
Methylene chloride	0.15 U	0.15 U	0.42 J	0.45 J	0.45 J	0.52	0.45 J	0.56	0.15 U	0.35 J
o-Xylene	2.9 J	0.15 U	11	0.56 J	4.2 J	0.52 J	5.5 J	5.5 J	0.15 U	0.15 U
Styrene	1.4 J	0.15 U	2.7 J	0.15 U	1.6 J	0.15 U	7.7	6.8	0.15 U	0.15 U
Tetrachloroethylene	0.81 J	0.15 U	8.3 J	0.15 U	45	0.15 U	74	69	0.15 U	0.15 U
Toluene	11	0.9	9	0.87	10	1.6	25	23	0.83	0.68
Trichloroethene	0.91 J	0.04 U	0.97 J	0.04 U	5.9 J	0.27	20	19	0.04 U	0.04 U

a/ VOCs = volatile organic compounds; U = compound not detected at or above the reporting limit; UJ = quantitation limit may be

inaccurate or imprecise; J = estimated concentration; µg/m³ = micrograms per cubic meter.

b/ Evaluation criteria are Soil Vapor/Indoor Air Matrices 1 and 2, as presented in the NYSDOH 's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

c/ SS-1014 is a blind duplicate sample of SS-04.

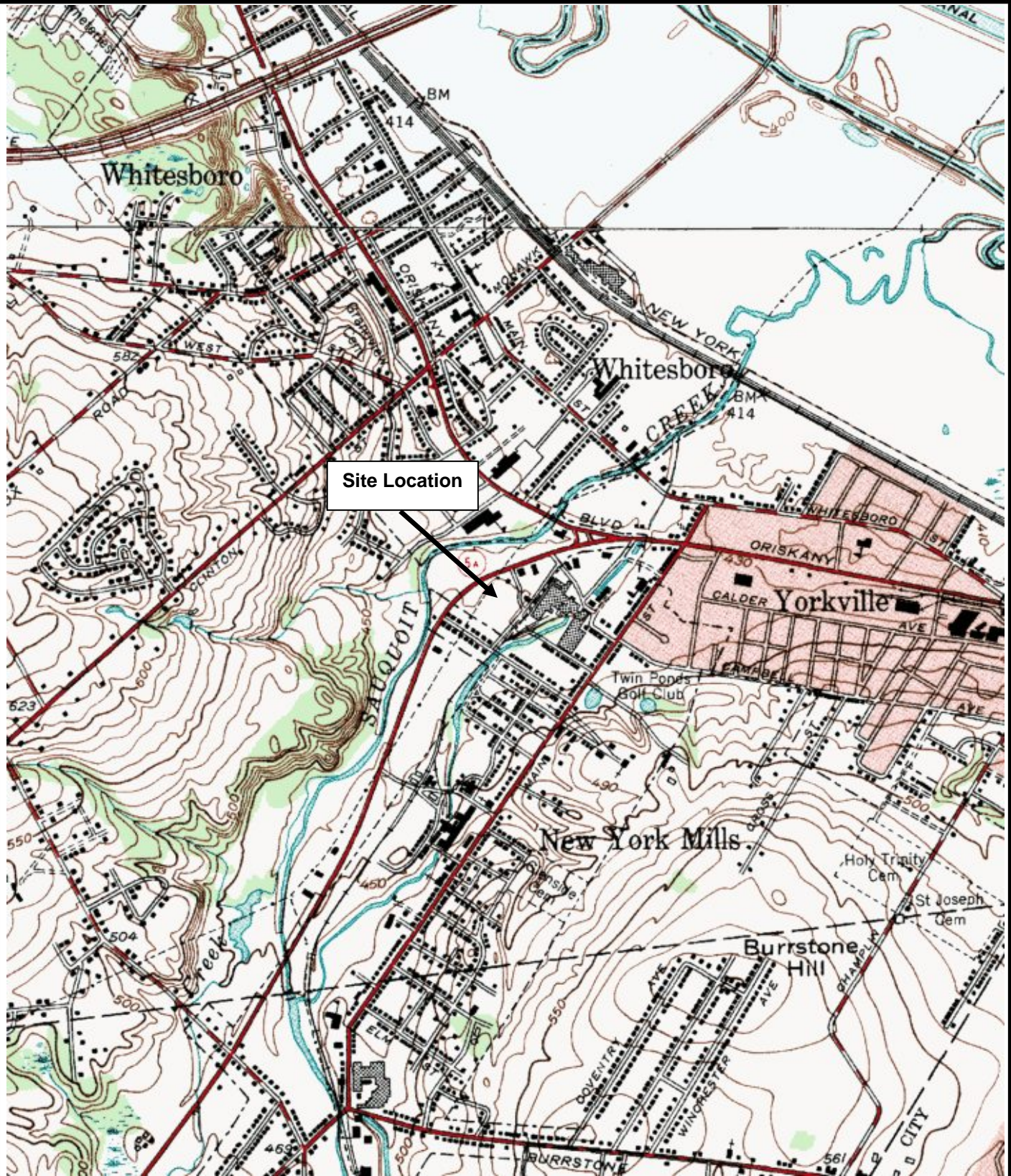
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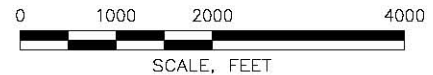
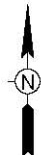
Approved:

Drawn By:

A



REFERENCE:
 7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
 UTICA WEST, NEW YORK
 PHOTOREVISED 1955 SCALE 1:24,000



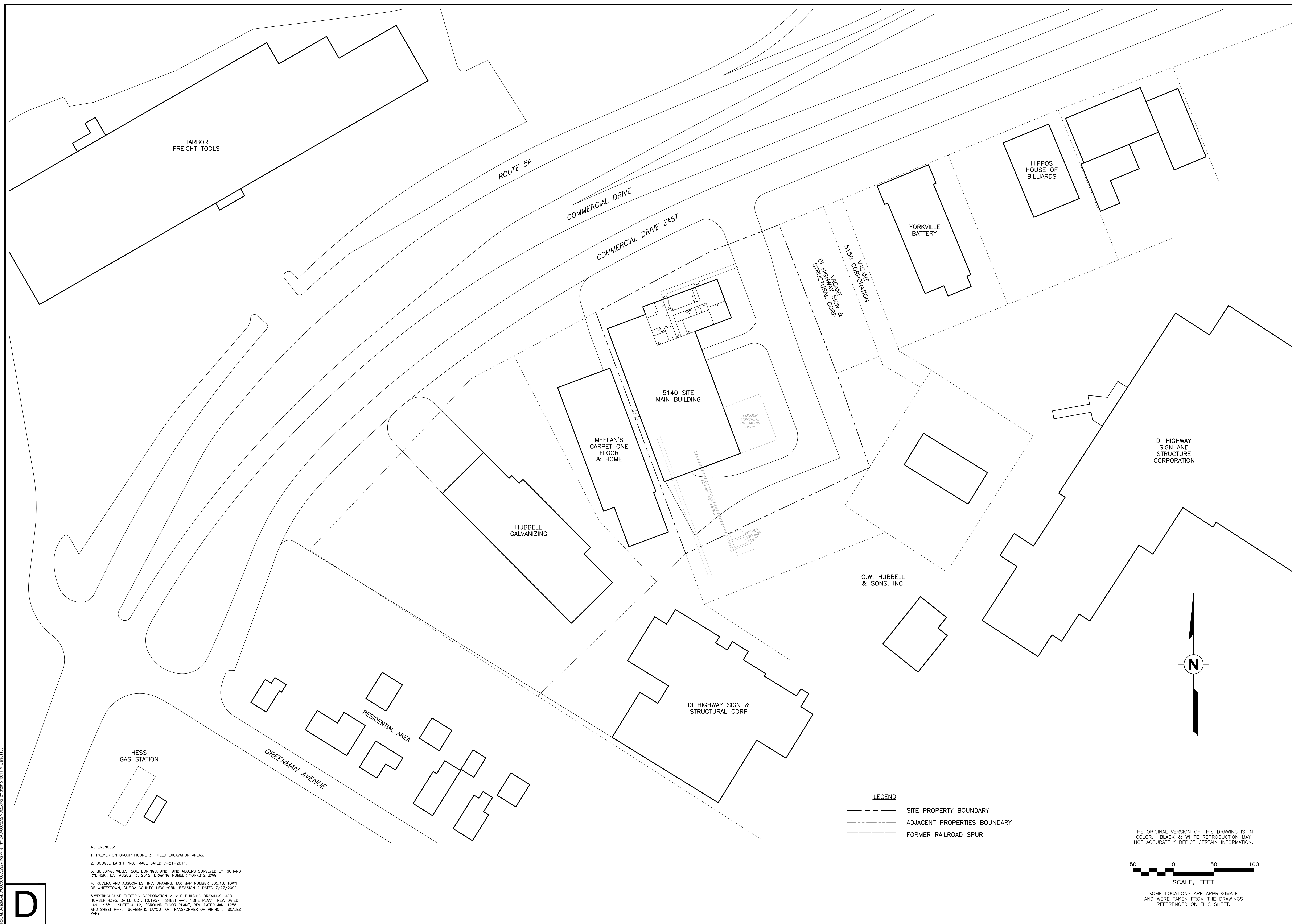
WSP USA Corp.
 5 Sullivan Street
 Cazenovia, New York 13035
 (315) 655-3900

FIGURE 1

SITE LOCATION MAP

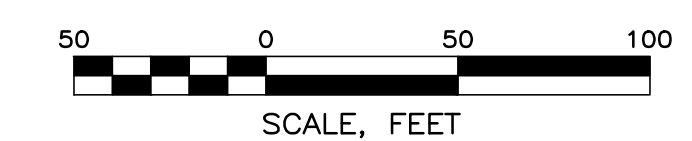
5140 COMMERCIAL DRIVE EAST
 YORKVILLE, NEW YORK

PREPARED FOR
 5140 COMMERCIAL DRIVE, LLC
 YORKVILLE, NEW YORK



- REFERENCES:**
1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBINSKI, L.S. AUGUST 3, 2012, DRAWING NUMBER YORK812F.DWG.
 4. KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 5. WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDING DRAWINGS, JOB NUMBER 4395, DATED OCT. 10, 1957. SHEET A-1, "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12, "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.

- LEGEND**
- SITE PROPERTY BOUNDARY
 - - - ADJACENT PROPERTIES BOUNDARY
 - FORMER RAILROAD SPUR



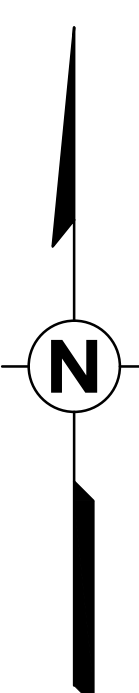
THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

SOME LOCATIONS ARE APPROXIMATE AND WERE TAKEN FROM THE DRAWINGS REFERENCED ON THIS SHEET.

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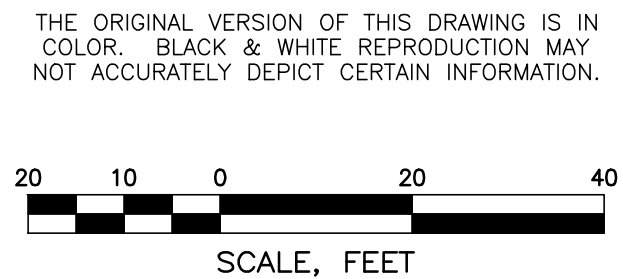
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ADJACENT PROPERTIES	
5140 SITE YORKVILLE, NEW YORK	
PREPARED FOR 5140 COMMERCIAL DRIVE, LLC YORKVILLE, NEW YORK	
WSP	WSP USA Corp. 5 Sullivan Street Cazenovia, New York 13035 (315) 655-3900 www.wspgroup.com/usa
SHEET 2	
Drawing Number 00032927-002	
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- LEGEND**
- SITE PROPERTY BOUNDARY
 - - - ADJACENT PROPERTIES BOUNDARY
 - - - FORMER RAILROAD SPUR
 - ▨ 2011 REMEDIAL EXCAVATION LIMITS
 - DRY WELL
 - FLOOR DRAIN
 - - - SANITARY OR FLOOR DRAIN PIPE
 - STORM SEWER DRAIN
 - - - FLOW DIRECTION
 - WIPE-5 [18] PCB WIPE SAMPLE (2011)
 - [18] TOTAL PCB CONCENTRATION IN MICROGRAMS PER 100 SQUARE CENTIMETERS ($\mu\text{g}/\text{cm}^2$)

- REFERENCES:**
- PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 - GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 - BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBICKI, L.S. AUGUST 3, 2012. DRAWING NUMBER YORK12.FWG.
 - KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 - WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDING DRAWINGS, JOB NUMBER 4305, DATED OCT. 10, 1957. SHEET A-11, "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12, "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.



SOME LOCATIONS ARE APPROXIMATE AND WERE TAKEN FROM THE DRAWINGS REFERENCED ON THIS SHEET.

REV	REVISIONS	DESCRIPTION

SEAL

DRAWN BY: *RA/03/2015*

CHECKED: _____

APPROVED: _____

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SITE LAYOUT WITH HISTORICAL PCB WIPE SAMPLE RESULTS

5140 SITE
YORKVILLE, NEW YORK

PREPARED FOR:
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

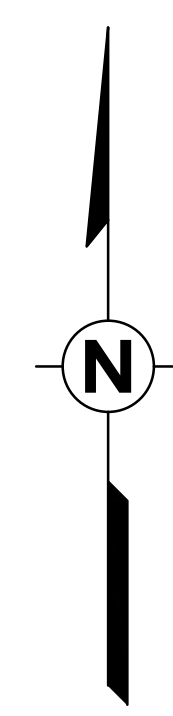
WSP USA Corp.
5 Sullivan Street
Cazenovia, New York 13035
(315) 655-3900
www.wspgroup.com/usa

SHEET 3

Drawing Number
00032927-13

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- LEGEND**
- SB-21 ● SOIL BORING (2014)
 - SB-3 ● SOIL BORING (2012)
 - HA-3 ● HAND AUGER LOCATION (2012)
 - MW-5 ● MONITORING WELL (ABANDONED NOV. 2012)
 - MW-5 ⊕ MONITORING WELL DAMAGED AND REMOVED DURING INTERIM REMEDIAL MEASURES (FEB. 2014)
 - GP-12 ● SOIL BORING (2011)
 - N-4 ● CONFIRMATION SOIL SAMPLE (2011)
 - N-6 ● TEST PIT (2011)
 - B-2 ● SOIL BORING (DEC. 2010)
 - SITE PROPERTY BOUNDARY
 - - - ADJACENT PROPERTIES BOUNDARY
 - - - FORMER RAILROAD SPUR
 - ▨ 2011 REMEDIAL EXCAVATION LIMITS
 - DRY WELL
 - FLOOR DRAIN
 - - - SANITARY OR FLOOR DRAIN PIPE
 - STORM SEWER DRAIN
 - - - STORM SEWER
 - FLOW DIRECTION
 - ☐ SAMPLE DEPTH (FEET BELOW GRADE SURFACE)
 - ☐ TOTAL PCB CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

- REFERENCES:**
- PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 - GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 - BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBICKI, L.S. AUGUST 3, 2012. DRAWING NUMBER YORK12.FWG.
 - KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 - WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDINGS DRAWINGS, JOB NUMBER 4305, DATED OCT. 10, 1957. SHEET A-11, "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12, "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.

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SCALE, FEET

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REVISIONS		DESCRIPTION
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TOTAL PCB CONCENTRATIONS IN SOIL

5140 SITE
YORKVILLE, NEW YORK
PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

WSP USA Corp.
5 Sullivan Street
Cazenovia, New York 13035
(315) 655-3900
www.wspgroup.com/usa

SHEET 5

Drawing Number
00032927-D09

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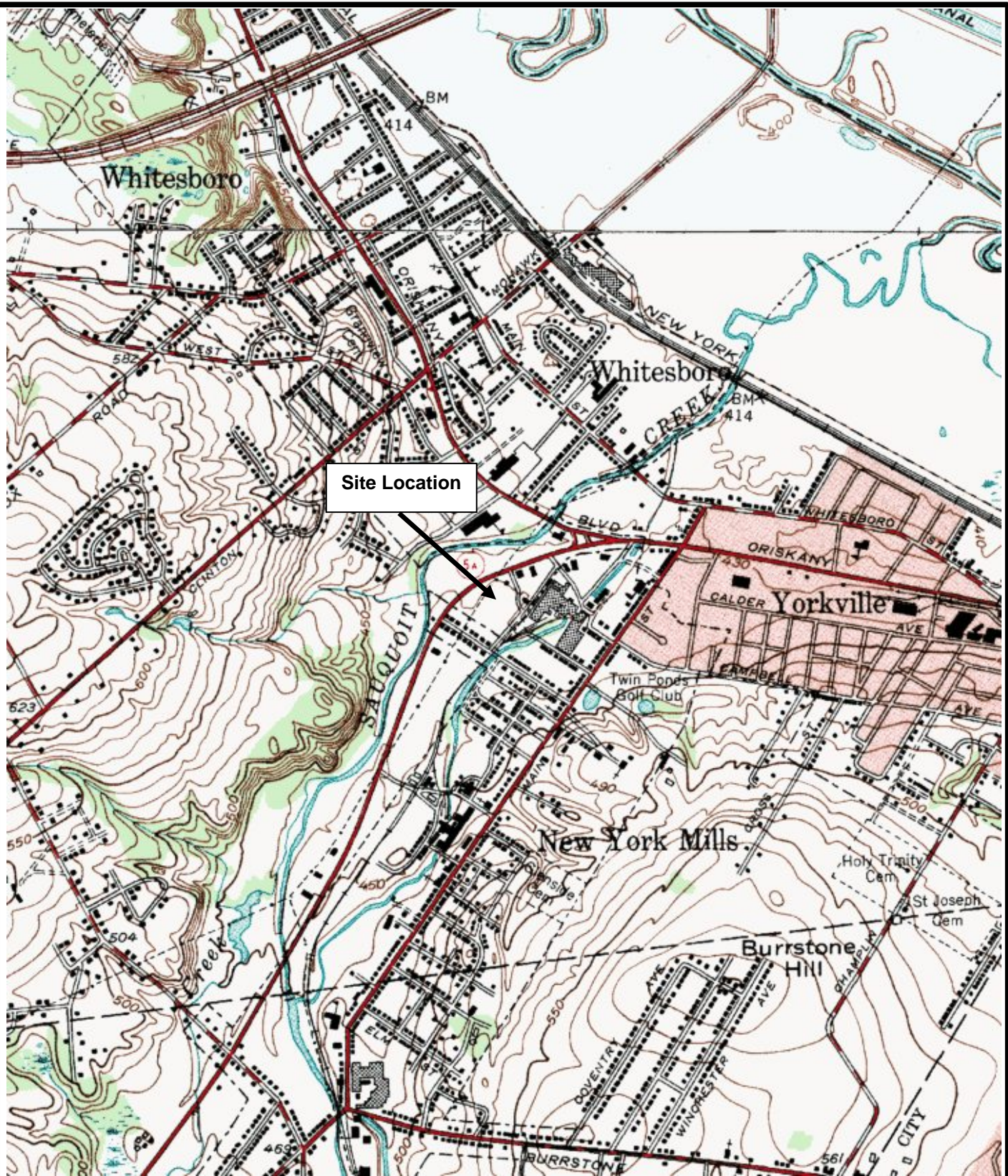
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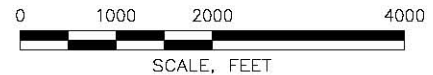
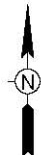
Approved:

Drawn By:

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REFERENCE:
 7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
 UTICA WEST, NEW YORK
 PHOTOREVISED 1955 SCALE 1:24,000



WSP USA Corp.
 5 Sullivan Street
 Cazenovia, New York 13035
 (315) 655-3900

FIGURE 1

SITE LOCATION MAP

5140 COMMERCIAL DRIVE EAST
 YORKVILLE, NEW YORK

PREPARED FOR
 5140 COMMERCIAL DRIVE, LLC
 YORKVILLE, NEW YORK



- LEGEND**
- SB-3 ● SOIL BORING (2012)
 - HA-3 ● HAND AUGER LOCATION (2012)
 - MW-7 ● MONITORING WELL (NOV. 2012)
 - MW-4 * MONITORING WELL (ABANDONED NOV. 2012)
 - MW-5 ⊕ MONITORING WELL DAMAGED AND REMOVED DURING INTERIM REMEDIAL MEASURES (FEB. 2014)
 - GP-12 ● SOIL BORING (2011)
 - N-4 ◆ CONFIRMATION SOIL SAMPLE (2011)
 - N-6 ⊕ TEST PIT (2011)
 - B-2 ● SOIL BORING (DEC. 2010)
 - DRY WELL
 - DRY WELL
 - SITE PROPERTY BOUNDARY
 - - - ADJACENT PROPERTIES BOUNDARY
 - FORMER RAILROAD SPUR
 - ▨ 2011 REMEDIAL EXCAVATION LIMITS
 - 9-11' 1.023 TOTAL PCB CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)
 - FLOOR DRAIN
 - SANITARY OR FLOOR DRAIN PIPE
 - STORM SEWER DRAIN
 - STORM SEWER
 - FLOW DIRECTION

- REFERENCES:**
1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD REYNOLDS, L.S. AUGUST 3, 2012. DRAWING NUMBER YORK012.DWG.
 4. KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 5. WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDINGS DRAWINGS, JOB NUMBER 4309, DATED OCT. 10, 1957. SHEET A-1 "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12 "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.

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SCALE, FEET

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DRAWN BY: *RJ*

APPROVED: _____

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HISTORICAL TOTAL PCB CONCENTRATIONS IN SOIL (PRE-INTERIM REMEDIAL MEASURE)

5140 SITE
YORKVILLE, NEW YORK
PREPARED FOR:
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

WSP
WSP USA Corp.
5 Sullivan Street
Cazenovia, New York 13035
(315) 655-3900
www.wspgroup.com/usa

SHEET 4
Drawing Number
00032927-004

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- LEGEND**
- SB-21 ● SOIL BORING (2014)
 - SB-3 ● SOIL BORING (2012)
 - HA-3 ● HAND AUGER LOCATION (2012)
 - MW-5 ● MONITORING WELL (ABANDONED NOV. 2012)
 - MW-5 ⊕ SOIL BORING (2011)
 - GP-12 ● SOIL BORING (2011)
 - N-4 ● CONFIRMATION SOIL SAMPLE (2011)
 - N-6 ● TEST PIT (2011)
 - B-2 ● SOIL BORING (DEC. 2010)
 - SITE PROPERTY BOUNDARY
 - - - ADJACENT PROPERTIES BOUNDARY
 - FORMER RAILROAD SPUR
 - ▨ 2011 REMEDIATION EXCAVATION LIMITS
 - DRY WELL
 - FLOOR DRAIN
 - - - SANITARY OR FLOOR DRAIN PIPE
 - STORM SEWER DRAIN
 - - - STORM SEWER
 - FLOW DIRECTION
 - ☐ SAMPLE DEPTH (FEET BELOW GRADE SURFACE)
 - ☐ TOTAL PCB CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

- REFERENCES:**
1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBICKI, L.S. AUGUST 3, 2012. DRAWING NUMBER YORK12-FWG.
 4. KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 5. WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDINGS DRAWINGS, JOB NUMBER 4305, DATED OCT. 10, 1957. SHEET A-11, "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12, "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.

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SCALE, FEET

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REVISIONS		DESCRIPTION
REV	DATE	DESCRIPTION

DRAWN BY	R. B. BLODA	CHECKED		APPROVED	
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TOTAL PCB CONCENTRATIONS IN SOIL

5140 SITE
YORKVILLE, NEW YORK
PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

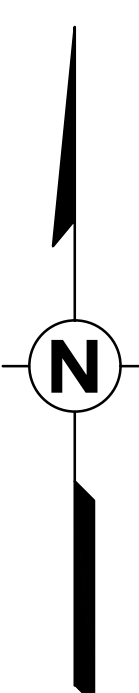
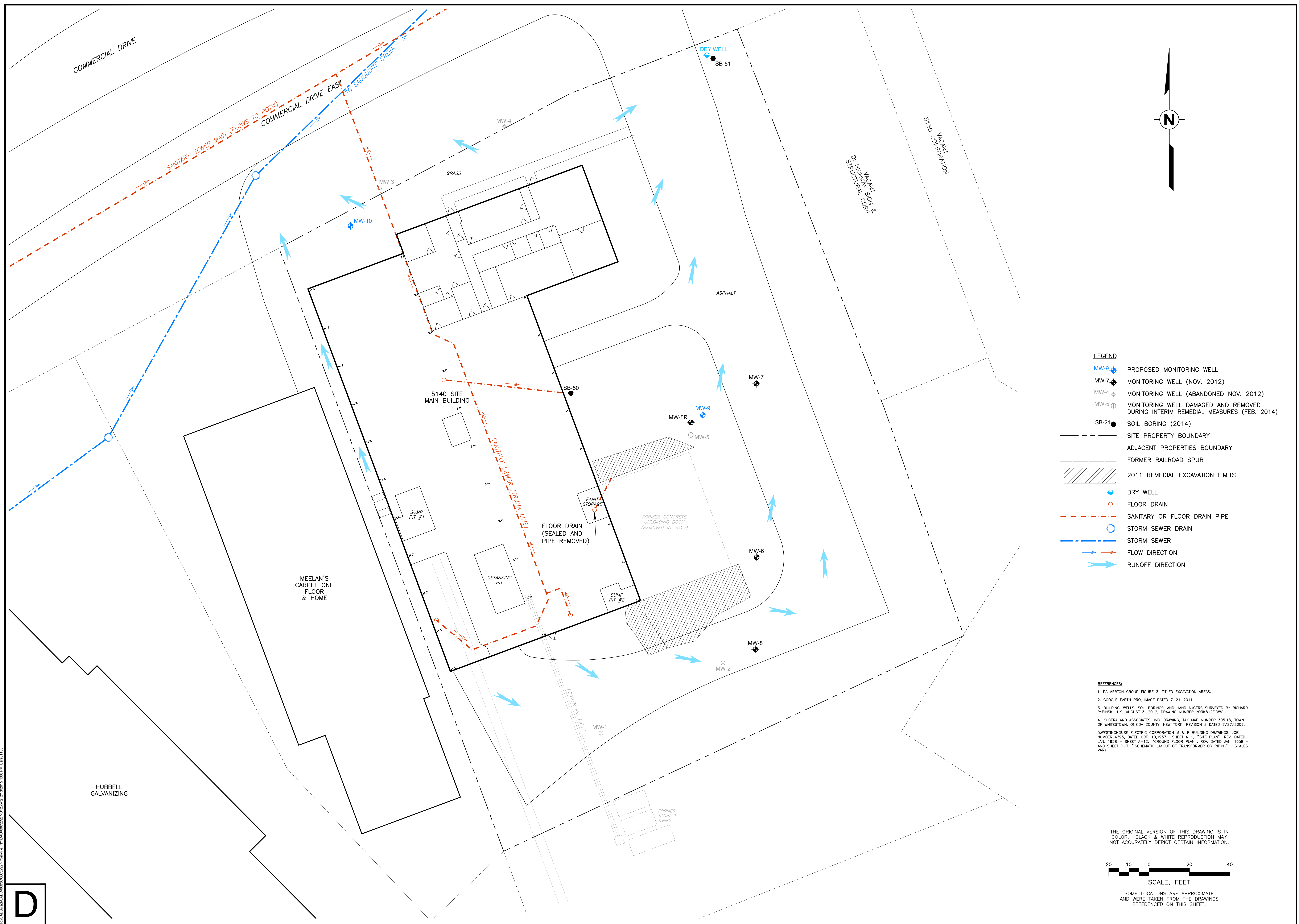
WSP USA Corp.
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SHEET 5

Drawing Number
00032927-D09

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- LEGEND**
- MW-9 PROPOSED MONITORING WELL
 - MW-7 MONITORING WELL (NOV. 2012)
 - MW-4 MONITORING WELL (ABANDONED NOV. 2012)
 - MW-5 MONITORING WELL DAMAGED AND REMOVED DURING INTERIM REMEDIAL MEASURES (FEB. 2014)
 - SB-21 SOIL BORING (2014)
 - SITE PROPERTY BOUNDARY
 - ADJACENT PROPERTIES BOUNDARY
 - FORMER RAILROAD SPUR
 - 2011 REMEDIAL EXCAVATION LIMITS
 - DRY WELL
 - FLOOR DRAIN
 - SANITARY OR FLOOR DRAIN PIPE
 - STORM SEWER DRAIN
 - STORM SEWER
 - FLOW DIRECTION
 - RUNOFF DIRECTION

- REFERENCES:**
1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD REYNOLDS, L.S. AUGUST 3, 2012. DRAWING NUMBER YORK12-010.
 4. KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 5. WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDINGS DRAWINGS, JOB NUMBER 4305, DATED OCT. 10, 1957. SHEET A-11, "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12, "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.

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SCALE, FEET

SOME LOCATIONS ARE APPROXIMATE AND WERE TAKEN FROM THE DRAWINGS REFERENCED ON THIS SHEET.

REVISIONS		DESCRIPTION
REV	△	Revised
	○	Checked
	□	Approved
	▽	Revised
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	▽	Revised
	◇	Checked
	◇	Approved

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STORM AND SANITARY SEWER LAYOUT WITH RUNOFF FLOW DIRECTION

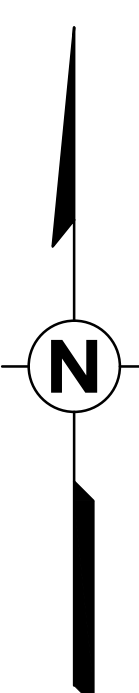
5140 SITE
 YORKVILLE, NEW YORK
 PREPARED FOR
 5140 COMMERCIAL DRIVE, LLC
 YORKVILLE, NEW YORK

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, New York 13035
 (315) 655-3900
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SHEET 8
 Drawing Number
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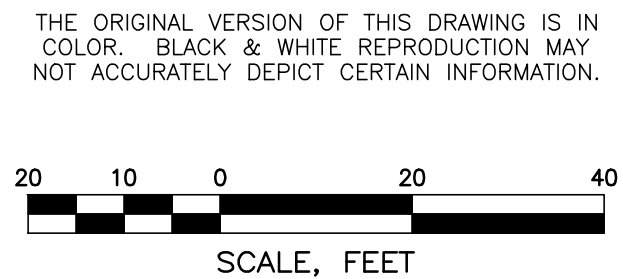
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- LEGEND**
- SITE PROPERTY BOUNDARY
 - ADJACENT PROPERTIES BOUNDARY
 - FORMER RAILROAD SPUR
 - 2011 REMEDIAL EXCAVATION LIMITS
 - DRY WELL
 - FLOOR DRAIN
 - SANITARY OR FLOOR DRAIN PIPE
 - STORM SEWER DRAIN
 - FLOW DIRECTION
 - PCB WIPE SAMPLE (2011)
 - TOTAL PCB CONCENTRATION IN MICROGRAMS PER 100 SQUARE CENTIMETERS ($\mu\text{g}/\text{cm}^2$)

- REFERENCES:**
1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD REYNOLDS, L.S. AUGUST 3, 2012. DRAWING NUMBER YORK12-FWG.
 4. KUCERA AND ASSOCIATES, INC. DRAWING, TAX MAP NUMBER 305.18, TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK, REVISION 2 DATED 7/27/2009.
 5. WESTINGHOUSE ELECTRIC CORPORATION M & R BUILDING DRAWINGS, JOB NUMBER 4305, DATED OCT. 10, 1957. SHEET A-11, "SITE PLAN", REV. DATED JAN. 1958 - SHEET A-12, "GROUND FLOOR PLAN", REV. DATED JAN. 1958 - AND SHEET P-7, "SCHEMATIC LAYOUT OF TRANSFORMER OR PIPING". SCALES VARY.



THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

SOME LOCATIONS ARE APPROXIMATE AND WERE TAKEN FROM THE DRAWINGS REFERENCED ON THIS SHEET.

REV	REVISIONS	DESCRIPTION

DRAWN BY	CHECKED	APPROVED	SEAL

SITE LAYOUT WITH HISTORICAL PCB WIPE SAMPLE RESULTS

5140 SITE
YORKVILLE, NEW YORK

PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

WSP USA Corp.
5 Sullivan Street
Cazenovia, New York 13035
(315) 655-3900
www.wspgroup.com/usa

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Table 1

**Soil Sampling Results - Polychlorinated Biphenyls and Pesticides
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-21 (0-0.17)	SB-21 (0-1)	SB-22 (0-0.17)	SB-22 (0-1)	SB-23 (0-0.17)	SB-23 (0-1)	SB-24 (0-0.17)	SB-0914B Duplicate	SB-24 (0-1.0)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-26 (0-0.17)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	[SB-24 (0-0.17)]	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>
PCBs (mg/kg)													
Aroclor 1254	-	0.0736 U	0.0585 U	0.0600 U	0.0596 U	0.0568 U	0.0576 U	0.0634 U	0.0654 U	0.0561 U	0.0627 U	0.0615 U	0.0646 U
Aroclor 1260	-	0.146 J	0.111 J	0.081 J	0.0596 U	0.0376 J	0.0576 U	0.0971 J	0.108 J	0.0561 U	0.0773 J	0.0820 J	0.112 J
Total PCBs	10	0.146 J	0.111 J	0.081 J	0.0596 U	0.0376 J	0.0576 U	0.0971 J	0.108 J	0.0561 U	0.0773 J	0.0820 J	0.112 J
Pesticides (mg/kg)													
Hexachlorobenzene	12	NA	NA	0.00290 U	0.00288 U	NA	NA	NA	NA	NA	0.0032 UJ	0.00307 UJ	NA
p,p'-DDD	180	NA	NA	0.00290 U	0.00288 U	NA	NA	NA	NA	NA	0.0032 UJ	0.00307 UJ	NA
P,P'-DDT	94	NA	NA	0.00290 U	0.00288 U	NA	NA	NA	NA	NA	0.0032 UJ	0.00307 UJ	NA
Toxaphene	-	NA	NA	0.290 U	0.288 U	NA	NA	NA	NA	NA	0.32 UJ	0.307 UJ	NA
Sample ID (Depth):	Evaluation Criteria	SB-26 (0-1.0)	SB-27 (0-0.17)	SB-27 (0-1.0)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-29 (0-0.17)	SB-29 (0-1.0)	SB-30 (0-0.17)	SB-0914A (0-0.17) Duplicate	SB-30 (0-1.0)	SB-31 (0-0.17)	SB-31 (0-1.0)
Date:	(b)	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	[SB-30 (0-0.17)]	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>
PCBs (mg/kg)													
Aroclor 1254	-	0.0619 U	0.0626 U	0.0573 U	0.3190 U	0.0605 U	0.5430 U	0.3190 U	0.5480 U	1.1200 U	0.1710 U	0.5370 U	0.1180 U
Aroclor 1260	-	0.0721 J	0.539 J	0.0895 J	2.87 J	0.154 J	12.7 J	6.28 J	15.1 J	24.100 J	2.420 J	8.43 J	1.28 J
Total PCBs	10	0.0721 J	0.539 J	0.0895 J	2.87 J	0.154 J	12.7 J	6.28 J	15.1 J	24.100 J	2.420 J	8.43 J	1.28 J
Pesticides (mg/kg)													
Hexachlorobenzene	12	NA	0.00307 U	0.00290 UJ	0.00271 U	0.00304 U	NA	NA	0.00426 J	0.00374 J	0.00286 U	NA	NA
p,p'-DDD	180	NA	0.00307 U	0.00290 UJ	0.00271 U	0.00304 U	NA	NA	0.00279 UJ	0.00283 U	0.00286 U	NA	NA
P,P'-DDT	94	NA	0.00307 U	0.00290 UJ	0.00271 U	0.00304 U	NA	NA	0.00279 UJ	0.00283 U	0.00286 U	NA	NA
Toxaphene	-	NA	0.307 U	0.290 UJ	0.271 U	0.304 U	NA	NA	0.279 UJ	0.283 U	0.286 U	NA	NA

Table 1

Soil Sampling Results - Polychlorinated Biphenyls and Pesticides
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-33 (0-0.17")	SB-33 (0-1.0)	SB-34 (1-3)	SB-35 (1-3)	SB-36 (1-3)	SB-37 (1-3)	SB-38 (1-3)	SB-39 (1-3)	SB-40 (4-6)	SB-40 (4-6)
Date:	(b)	9/15/14	9/15/14	9/15/14	9/15/14	9/17/14	9/17/14	9/17/14	9/17/14	9/17/14	9/18/14	9/16/14	9/16/14
PCBs (mg/kg)													
Aroclor 1254	-	0.1030 U	0.0610 U	0.2500 U	0.0563 U	0.0656 U	0.0507 U	0.0629 U	0.0500 U	0.0511 U	0.6590 J	0.0783 U	0.0783 U
Aroclor 1260	-	1.05 J	0.0610 U	3.57 J	0.0563 U	0.0656 U	0.0507 U	0.063 U	0.050 U	0.051 U	0.394 J	0.078 U	0.078 U
Total PCBs	10	1.05 J	0.0610 U	3.57 J	0.0563 U	0.0656 U	0.0507 U	0.063 U	0.050 U	0.051 U	1.053 J	0.078 U	0.078 U
Pesticides (mg/kg)													
Hexachlorobenzene	12	0.00253 U	0.00305 U	NA	NA	0.0033 U	NA	0.00312 U	0.00251 U	NA	0.00258 U	0.00389 U	NA
p,p'-DDD	180	0.00253 U	0.00125 J	NA	NA	0.0033 U	NA	0.00312 U	0.00251 U	NA	0.00258 U	0.00328 J	NA
P,P'-DDT	94	0.00253 U	0.00305 U	NA	NA	0.0033 U	NA	0.00312 U	0.00251 U	NA	0.00258 U	0.00389 U	NA
Toxaphene	-	0.253 U	0.305 U	NA	NA	0.33 U	NA	0.312 U	0.251 U	NA	0.258 U	0.389 U	NA
Sample ID (Depth):	Evaluation Criteria	SB-41 (2-4)	SB-42 (2-4)	SB-43 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-45 (2-4)	SB-45 (12-14)	SB-46 (2-4)	SB-47 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7) Duplicate [SB-48 (5-7)]
Date:	(b)	9/16/14	9/16/14	9/18/14	9/16/14	9/16/14	9/17/14	9/17/14	9/18/14	9/17/14	9/17/14	9/17/14	9/17/14
PCBs (mg/kg)													
Aroclor 1254	-	0.0729 U	0.0618 U	0.0557 U	0.0512 U	0.0522 U	0.0541 U	0.0536 U	0.0630 U	0.2110 U	0.6160 J	0.0618 U	0.0612 U
Aroclor 1260	-	0.073 U	0.062 U	0.056 U	0.051 U	0.044 J	0.054 U	0.055 J	0.063 U	3.870 J	0.056 U	0.062 U	0.061 U
Total PCBs	10	0.073 U	0.062 U	0.056 U	0.051 U	0.044 J	0.054 U	0.055 J	0.063 U	3.870 J	0.616 J	0.062 U	0.061 U
Pesticides (mg/kg)													
Hexachlorobenzene	12	0.00364 UJ	0.00296 UJ	NA	0.0026 UJ	0.00265 UJ	NA	NA	0.00321 UJ	NA	0.00272 U	0.00316 U	0.00304 U
p,p'-DDD	180	0.00364 UJ	0.00296 UJ	NA	0.0026 UJ	0.00265 UJ	NA	NA	0.00321 UJ	NA	0.00272 U	0.00316 U	0.00304 U
P,P'-DDT	94	0.00364 UJ	0.00296 UJ	NA	0.0026 UJ	0.00265 UJ	NA	NA	0.00321 UJ	NA	0.00272 U	0.00316 U	0.00304 U
Toxaphene	-	0.364 UJ	0.296 UJ	NA	0.26 UJ	0.265 UJ	NA	NA	0.321 UJ	NA	0.272 U	0.316 U	0.304 U

Table 1

Soil Sampling Results - Polychlorinated Biphenyls and Pesticides
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-50(0-0.17)	SB-150 Duplicate	SB-50 (0-1.0)	SB-51 (7.5-8)
Date:	(b)	<u>12/19/14</u>	<u>[SB-50 (0-.17)]</u>	<u>12/19/14</u>	<u>12/19/14</u>
PCBs (mg/kg)					
Aroclor 1254	-	0.0440 U	0.0410 U	0.0450 U	0.0370 U
Aroclor 1260	-	1.970	0.620	2.010	0.2050 J
Total PCBs	10	1.970	0.620	2.010	0.2050

a) PCBs = polychlorinated biphenyls ; U = analyte not detected above reporting limit; NA = not analyzed;
 UJ = analyte not detected above reporting limit, quantitation limit may be inaccurate or imprecise.
 J = reported value may not be accurate or precise.

b) Analytes highlighted in bold text and gray shading exceed either the site-specific soil cleanup objective (PCBs only; see text for explanation) or the New York State Department of Environmental Conservation's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives).

Table 2

**Soil Sampling Results - Semivolatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-22 (0-0.17)	SB-22 (0-1)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-27 (0-0.17)	SB-27 (0-1.0)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-30 (0-0.17)	SB-0914A (0-0.17)
Date:	(b)	9/18/14	9/18/14	9/15/14	9/15/14	9/15/14	9/15/14	9/15/14	9/15/14	9/15/14	Duplicate [SB-30 (0-0.17)]
SVOCs (µg/kg)											
2-Methylnaphthalene	-	83 J	399 U	212 U	208 U	418 U	192 U	716 U	203 U	748 U	760 U
Cresols, M & P	1,000	405 U	799 U	424 U	417 U	837 U	383 U	1,430 U	406 U	1,500 U	1,520 U
Acenaphthene	1,000,000	378	399 U	212 U	128 J	90 J	192 U	190 J	203 U	748 UJ	194 J
Acenaphthylene	1,000,000	203 U	399 U	212 U	208 U	161 J	192 U	716 U	203 U	192 J	308 J
Anthracene	-	545	98 J	43 J	127 J	406 J	192 U	417 J	203 U	470 J	760 J
Benzo(a)anthracene	11,000	1,360	341 J	184 J	416	2,380	71 J	1,960	149 J	2,330 J	3,260
Benzo(a)pyrene	1,100	1,010	319 J	158 J	336	2,250	65 J	1,840	131 J	2,420 J	3,150
Benzo(b)fluoranthene	11,000	947	335 J	141 J	336	1,960	59 J	1,770	126 J	2,190 J	2,850
Benzo(g,h,i)perylene	1,000,000	574	214 J	97 J	177 J	1,390	39 J	1,160	84 J	1,630 J	2,110
Benzo(k)fluoranthene	110,000	1,080	314 J	147 J	324	2,370	63 J	1,590	125 J	2,150 J	3,190
bis(2-Ethylhexyl) phthalate	-	316 J	567 J	424 U	803	837 U	1,550	1,430 U	406 U	461 J	1,520 U
Benzyl butyl phthalate	-	405 U	799 U	424 U	417 U	837 U	383 U	1,430 U	406 U	316 J	317 J
Carbazole	-	455	112 J	212 U	92 J	147 J	192 U	177 J	203 U	748 U	192 J
Chrysene	110,000	1,550	448	211 J	446	2,610	80 J	2,150	167 J	2,540 J	3,520
Dibenzofuran	1,000,000	210	399 U	212 U	208 U	418 U	192 U	716 U	203 U	748 U	760 U
Di-n-butyl phthalate	-	405 U	799 U	91 J	101 J	104 J	74 J	1,430 U	91 J	1,500 U	1,520 U
Fluoranthene	1,000,000	3,270	951	347	824	3,730	128 J	3,180	239	3,630 J	5,140
Fluorene	1,000,000	336	399 U	212 U	74 J	418 U	192 U	716 U	203 U	748 UJ	760 U
Indeno(1,2,3-c,d)pyrene	11,000	558	189 J	87 J	171 J	1,230	192 U	1,090	74 J	1,510 J	1,860
Naphthalene	1,000,000	109 J	399 U	212 U	208 U	418 U	192 U	716 U	203 U	748 U	760 U
Phenanthrene	1,000,000	3,010	742	182 J	561	1,390	71 J	1,480	128 J	1,240 J	1,840
Pyrene	1,000,000	2,520	719	349	771	3,880	129 J	2,860	241	3,490 J	4,980

Table 2

**Soil Sampling Results - Semivolatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-30 (0-1.0)	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-34 (1-3)	SB-36 (1-3)	SB-37 (1-3)	SB-39 (1-3)	SB-40 (4-6)	SB-41 (2-4)
Date:	(b)	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/18/14</u>	<u>9/16/14</u>	<u>9/16/14</u>
SVOCs (µg/kg)										
2-Methylnaphthalene	-	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Cresols, M & P	1,000	390 U	343 U	1,630 U	435 U	425 U	349 U	349 U	531 U	483 U
Acenaphthene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Acenaphthylene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	65 J	241 UJ
Anthracene	-	93 J	172 U	639 J	217 U	213 U	175 U	175 U	78 J	241 U
Benzo(a)anthracene	11,000	364	172 U	2,590	217 U	213 U	175 U	36 J	255 J	108 J
Benzo(a)pyrene	1,100	359	172 U	2,600	217 U	213 U	175 U	175 U	287	94 J
Benzo(b)fluoranthene	11,000	314	172 U	2,160	217 U	213 U	175 U	175 U	261 J	109 J
Benzo(g,h,i)perylene	1,000,000	223	172 U	1,650	217 U	213 U	175 U	175 U	221 J	72 J
Benzo(k)fluoranthene	110,000	322	172 U	2,330	217 U	213 U	175 U	175 U	247 J	97 J
bis(2-Ethylhexyl) phthalate	-	390 U	343 U	1,630 U	435 U	425 U	349 U	349 U	531 U	483 U
Benzyl butyl phthalate	-	390 U	343 U	1,630 U	435 U	425 U	349 U	349 U	531 U	483 U
Carbazole	-	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Chrysene	110,000	366	172 U	2,730	217 U	213 U	175 U	175 U	384	152 J
Dibenzofuran	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Di-n-butyl phthalate	-	81 J	66 J	1,630 U	119 J	98 J	78 J	349 U	60 J	483 U
Fluoranthene	1,000,000	555	172 U	4,130	217 U	213 U	175 U	65 J	569	230 J
Fluorene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Indeno(1,2,3-c,d)pyrene	11,000	211	172 U	1,570	217 U	213 U	175 U	175 U	169 J	65 J
Naphthalene	1,000,000	195 U	172 U	816 U	217 U	213 U	175 U	175 U	266 U	241 U
Phenanthrene	1,000,000	191 J	172 U	1,990	217 U	213 U	175 U	40 J	430	139 J
Pyrene	1,000,000	578	172 U	4,150	217 U	213 U	175 U	51 J	733	247

Table 2

**Soil Sampling Results - Semivolatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-42 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-46 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7)
Date:	(b)	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/18/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>Duplicate</u> <u>[SB-48 (5-7)]</u>
SVOCs (µg/kg)								
2-Methylnaphthalene	-	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Cresols, M & P	1,000	408 U	349 U	359 U	428 U	380 U	43 J	420 U
Acenaphthene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Acenaphthylene	1,000,000	204 UJ	175 UJ	179 UJ	214 U	190 U	210 U	210 U
Anthracene	-	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(a)anthracene	11,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(a)pyrene	1,100	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(b)fluoranthene	11,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(g,h,i)perylene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Benzo(k)fluoranthene	110,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
bis(2-Ethylhexyl) phthalate	-	408 U	349 U	359 U	428 U	380 U	420 U	420 U
Benzyl butyl phthalate	-	408 U	349 U	359 U	428 U	380 U	420 U	420 U
Carbazole	-	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Chrysene	110,000	43 J	175 U	179 U	214 U	190 U	210 U	210 U
Dibenzofuran	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Di-n-butyl phthalate	-	408 U	349 U	43 J	428 U	380 U	123 J	72 J
Fluoranthene	1,000,000	54 J	175 U	179 U	214 U	190 U	210 U	210 U
Fluorene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Indeno(1,2,3-c,d)pyrene	11,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Naphthalene	1,000,000	204 U	175 U	179 U	214 U	190 U	210 U	210 U
Phenanthrene	1,000,000	204 U	175 U	179 U	214 U	190 UJ	210 U	210 U
Pyrene	1,000,000	66 J	175 U	179 U	214 U	190 U	210 U	210 U

a) SVOCs = Semi-volatile organic compounds; NYSDEC = New York State Department of Environmental Conservation; SCO = soil cleanup objective; U = analyte not detected above reporting limit; UJ = analyte not detected above reporting limit, quantitation limit may be inaccurate or imprecise; J = reported value may not be accurate or precise; ug/kg = micrograms per kilogram.

b) Analytes highlighted in bold text and gray shading exceed the NYSDEC's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives).

Table 3
Soil Sampling Results - Metals
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-22 (0-0.17)	SB-22 (0-1)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-27 (0-0.17)	SB-27 (0-1.0)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-30 (0-0.17)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>
Metals (mg/kg)										
Aluminum	-	8,730 J	8,090 J	11,400	11,500	10,300	10,600	5,610	11,100	2,400 J
Antimony	-	0.897 J	0.640 J	0.637 UJ	0.588 UJ	0.606 UJ	0.575 UJ	2.750 UJ	1.120 UJ	2.770 UJ
Arsenic	16	12.1 J	12.1 J	10.2 J	12.0 J	8.4 J	9.4 J	6.7 J	9.8 J	3.6 J
Barium	10000	78.4	73.1	84.1	101.0	85.7	88.4	93.3	125.0	39.0 J
Beryllium	2700	0.470 J	0.434 J	0.583	0.607	0.548	0.546	2.200 U	0.580 J	2.220 U
Cadmium	60	1.05	0.85	0.68	0.73	0.62	0.65	0.91 J	1.41	2.06 J
Calcium	-	22,400	86,600	6,430	4,100	11,500	2,760	195,000	91,600	242,000
Chromium, Total	6800	25.1	17.1	17.7	15.8	15.7	13.4	17.3	33.8	16.9
Cobalt	-	7.84	6.52	9.01	9.93	8.45	8.75	6.03	7.60	4.51
Copper	10000	122	70	47	57	40	23	105	260	71 J
Iron	-	22,100	19,100	24,900	28,400	23,300	27,400	13,700	24,900	8,580 J
Lead	3900	78.0	67.6 B	33.9	29.3	32.4	16.9	22.0	45.1	56.2 J
Magnesium	-	4,540	4,380	3,630	3,560	3,640	2,880	6,670	6,470	5,880 J
Manganese	10000	813	757	824	1,380	920	1,010	308	413	368 J
Nickel	10000	271	91	21	19	18	16	17	19	17
Potassium	-	1,320	1,160	1,770	1,450	1,500	1,160	1,100	1,440	763 J
Selenium	6800	1.23 U	1.18 U	0.96 J	0.90 J	0.97 J	1.74	5.51 U	1.04 J	5.54 U
Silver	6800	0.862 U	0.827 U	0.892 U	0.152 J	0.849 U	0.806 U	3.850 U	1.570 U	3.880 U
Sodium	-	38.8 J	192.0	63.7 U	58.8 U	62.2	57.5 U	275.0 U	169.0	277.0 U
Thallium	-	0.736 J	0.819 J	1.270 U	0.779 J	0.468 J	0.616 J	5.510 U	2.240 U	5.540 U
Vanadium	-	18.6	17.5	20.7	20.8	19.6	21.7	12.2	19.1	19.5
Zinc	10000	196	116	116	100	148	84	82	124	1,380 J
Mercury	6	0.0703 J	0.0693 J	0.0916	0.0986	0.0662	0.0676	0.0735	0.2310	0.0643
Chromium, Hexavalent	800	1.20 U	1.22 U	13.3	12.1	12.3	11.8	1.04 U	1.11 U	1.12 U

Table 3
Soil Sampling Results - Metals
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-0914A (0-0.17)	SB-30 (0-1.0)	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-34 (1-3)	SB-36 (1-3)	SB-37 (1-3)	SB-39 (1-3)	SB-40 (4-6)
Date:	(b)	<u>Duplicate</u> [SB-30 (0-0.17)]	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/18/14</u>	<u>9/16/14</u>
Metals (mg/kg)										
Aluminum	-	1,460	12,200	1,450	16,200	3,170	2,800	3,870	3,030 J	12,500
Antimony	-	5.430 UJ	0.548 UJ	2.460 UJ	0.572 UJ	0.928 UJ	0.620 UJ	0.531 U	0.529 UJ	4.340 J
Arsenic	16	3.0 J	8.3 J	2.6 J	5.5 J	1.8	1.2	2.7	1.9 J	18.7 J
Barium	10000	23.7	88.1	40.0	111.0	12.7	8.7	15.5	12.4	120.0
Beryllium	2700	4.350 U	0.673	1.970 U	0.941	0.137 J	0.148 J	0.165 J	0.137 J	0.742
Cadmium	60	1.17 J	0.51	0.27 J	0.69	0.13 J	0.10 J	0.19 J	0.14 J	12.60
Calcium	-	312,000	4,190	199,000	3,670	7,190	2,880	4,910	7,030	63,000
Chromium, Total	6800	10.9	15.1	4.4	20.5	3.9	3.3	5.0	3.8	217.0
Cobalt	-	2.78 J	10.70	3.25	11.90	2.63	2.14	3.31	2.57	9.72
Copper	10000	41	29	15	30	10	6	12	9	2,310
Iron	-	6,120	26,100	4,160	31,900	7,520	6,260	9,850	7,130	32,600
Lead	3900	35.7	13.2	9.0	14.3	1.9	1.4	2.4	2.0	119.0
Magnesium	-	23,300	3,530	4,920	5,180	2,360	1,630	2,270	2,390	5,920
Manganese	10000	327	549	291	266	259	212	357	253	709
Nickel	10000	11	18	8	27	6	5	7	5	40
Potassium	-	543 U	1,150	730	1,530	579	522	606	633	1,870
Selenium	6800	10.90 U	0.68 J	4.92 U	0.83 J	1.26 U	1.24 U	1.06 U	1.06 U	1.79
Silver	6800	7.610 U	0.767 U	3.440 U	0.801 U	0.879 U	0.868 U	0.743 U	0.741 U	3.790
Sodium	-	543.0 U	67.7	246.0 U	62.5	62.8 U	62.0 U	55.7	85.7	94.3
Thallium	-	10.900 U	0.402 J	4.920 U	0.481 J	1.260 U	1.240 U	0.346 J	1.060 U	0.575 J
Vanadium	-	11.5	19.6	4.3	26.3	5.6	4.9	7.3	5.6	25.1
Zinc	10000	1,570	105	41	79	18	12	24	17	295
Mercury	6	0.0505	0.0578	0.0162 J	0.0602	0.0460 U	0.0457 U	0.0384 U	0.0370 UJ	0.3350
Chromium, Hexavalent	800	5.62 U	1.16 U	1.02 U	1.08 U	1.00 U	1.00 U	1.04 U	1.03 U	1.30 U

Table 3
Soil Sampling Results - Metals
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	Evaluation Criteria	SB-41 (2-4)	SB-42 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-46 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7)
Date:	(b)	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/18/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>Duplicate [SB-48 (5-7)]</u>
Metals (mg/kg)									
Aluminum	-	11,800	10,500	2,910	8,390	9,550	2,810	11,600	12,100
Antimony	-	3.090 J	0.614 UJ	0.532 UJ	2.630 UJ	0.641 UJ	0.542 UJ	0.884 J	1.140 UJ
Arsenic	16	14.2 J	7.9 J	1.5 J	5.7 J	8.2	1.4 J	9.6	12.0
Barium	10000	137.0	64.5	9.8	45.4	75.5	10.2	99.4	97.7
Beryllium	2700	0.605	0.471 J	0.126 J	2.110 U	0.501 J	0.115 J	0.633	0.631 J
Cadmium	60	4.62	0.68	0.09 J	0.29 J	0.55	0.14 J	1.11	1.09
Calcium	-	57,600	4,080	3,770	117,000	3,170	4,790	25,200	31,800
Chromium, Total	6800	136.0	17.9	3.4	10.4	14.1	4.1	24.9	25.7
Cobalt	-	9.11	7.77	2.36	5.74	8.31	2.29	9.35	10.10
Copper	10000	1,610	56	7	38	23	20	138	102
Iron	-	38,600	29,700	6,670	25,500	24,500	6,480	27,800	30,100
Lead	3900	84.2	10.1	1.5	5.8	9.4	12.6	26.8	26.2
Magnesium	-	5,000	4,100	1,800	15,800	3,390	1,740	4,280	4,480
Manganese	10000	1,030	781	234	801	787	218 J	671	998
Nickel	10000	26	16	5	12	17	5	21	22
Potassium	-	1,720	1,050	550	876	1,270	564 J	1,480	1,640
Selenium	6800	1.18 J	1.23 U	1.06 U	5.26 U	1.28 U	0.54 J	1.22 U	2.28 U
Silver	6800	3.870	0.860 U	0.745 U	3.680 U	0.897 U	0.759 U	0.882	1.600 U
Sodium	-	191.0	61.4 U	53.2 U	263.0 U	155.0	61.6	1920.0	1760.0
Thallium	-	0.728 J	0.459 J	1.060 U	5.260 U	0.721 J	1.080 U	0.782 J	0.992 J
Vanadium	-	22.7	20.4	5.1	16.3	17.2	5.1	20.9	22.7
Zinc	10000	261	75	14	60	70	14	108	99
Mercury	6	0.9690	0.1040	0.0426 U	0.0420 U	0.0271 J	0.0413 U	0.1520	0.1430
Chromium, Hexavalent	800	21.9 J	1.21 U	1.03 U	1.04 U	1.14 U	1.21 U	1.24 U	1.28 U

a\ NYSDEC = New York State Department of Environmental Conservation; SCO = soil cleanup objective; U = analyte not detected above reporting limit; J = estimated concentration below reporting limit; B = analyte was detected in associated method blank; D = concentration is the result of a secondary dilution analysis; NA = not analyzed; mg/kg = milligrams per kilogram.

b\ Analytes highlighted in bold text and gray shading exceed the NYSDEC's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives).

Table 4

**Soil Sampling Results - Volatile Organic Compounds
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	Evaluation Criteria	SB-22 (0-0.17)	SB-22 (0-1)	SB-25 (0-0.17)	SB-25 (0-1.0)	SB-27 (0-1.0)	SB-27 (0-0.17)	SB-28 (0-0.17)	SB-28 (0-1.0)	SB-30 (0-0.17)	SB-0914A (0-0.17)	SB-30 (0-1.0)
Date:	(b)	<u>9/18/14</u>	<u>9/18/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/15/14</u>	Duplicate [SB-30 (0-0.17)]	<u>9/15/14</u>
VOCs (µg/kg)												
1,2,4-Trichlorobenzene	-	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
1,2,4-Trimethylbenzene	380,000	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
1,3,5-Trimethylbenzene	380,000	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Acetone	1,000,000	13.0 UJL	12.0 UJL	13.5 UJL	14.1 UJL	13.7 UJL	13.7 UJL	12.0 UJL	13.2 UJL	12.1 UJL	22.6 UJL	35.4 UJL
Carbon Disulfide	-	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Chloroform	700,000	2.0 UJL	2.0 J	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Total Xylenes (c)	1,000,000	13.0 UJL	12.0 UJL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	1,000,000	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Methylene Chloride	1,000,000	13.0 UJL	12.0 UJL	13.5 UJL	14.1 UJL	13.7 UJL	13.7 UJL	12.0 UJL	13.2 UJL	12.1 UJL	22.6 UJL	35.4 UJL
Naphthalene	-	NA	NA	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Tetrachloroethene	300,000	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL
Toluene	1,000,000	13.0 UJL	12.0 UJL	2.7 UJL	2.8 UJL	2.7 UJL	2.7 UJL	2.4 UJL	2.6 UJL	2.4 UJL	4.5 UJL	7.1 UJL

Sample ID (Depth):	Evaluation Criteria	SB-32 (0-0.17)	SB-32 (0-1.0)	SB-34 (1-3)	SB-34 (10-12)	SB-36 (1-3)	SB-36 (10-12)	SB-37 (1-3)	SB-37 (10-12)	SB-39 (1-3)	SB-40 (4-6)	SB-41 (2-4)
Date:	(b)	<u>9/15/14</u>	<u>9/15/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>9/18/14</u>	<u>9/16/14</u>	<u>9/16/14</u>
VOCs (µg/kg)												
1,2,4-Trichlorobenzene	-	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	NA	8.3 UJL	6.4 UJL
1,2,4-Trimethylbenzene	380,000	2.2 UJL	3.1 JL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	380,000	2.2 UJL	1.7 JL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1,000,000	11.1 UJL	13.1 UJL	5.9 JL	6.0 JL	51.0 UJL	6.8 JL	5.5 JL	6.5 JL	10.0 UJL	83.0 J	64.0 UJL
Carbon Disulfide	-	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Chloroform	700,000	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Total Xylenes (c)	1,000,000	NA	NA	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Methyl ethyl ketone	1,000,000	2.2 UJL	2.6 UJL	31.0 UJL	33.0 UJL	30.0 UJL	31.0 UJL	32.0 UJL	33.0 UJL	10.0 UJL	50.0 UJL	38.0 UJL
Methylene Chloride	1,000,000	11.1 UJL	13.1 UJL	5.3 UJL	5.9 UJL	5.1 UJL	5.2 UJL	5.6 UJL	6.4 UJL	10.0 UJL	15.0 UJL	11.0 UJL
Naphthalene	-	2.2 UJL	7.0 JL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	300,000	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL
Toluene	1,000,000	2.2 UJL	2.6 UJL	5.2 UJL	5.6 UJL	5.1 UJL	5.2 UJL	5.3 UJL	5.6 UJL	10.0 UJL	8.3 UJL	6.4 UJL

Table 4
Soil Sampling Results - Volatile Organic Compounds
5140 Site
Yorkville, New York (a)

Sample ID (Depth):	SB-42 (11-14)	SB-42 (2-4)	SB-44 (1-3)	SB-44 (10-14)	SB-46 (2-4)	SB-48 (2-4)	SB-48 (5-7)	SB-400 (5-7)	SB-48 (13-15)
Date:	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/16/14</u>	<u>9/18/14</u>	<u>9/17/14</u>	<u>9/17/14</u>	<u>Duplicate</u> <u>[SB-48 (5-7)]</u>	<u>9/17/2015</u>
VOCs (µg/kg)									
1,2,4-Trichlorobenzene	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	NA	7.6 JL	6.3 UJL	6.4 UJL	5.4 UJL
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	7.4 J	11.0 J	53.0 UJL	54.0 UJL	12.0 UJL	7.8 JL	56.0 JL	75.0 JL	54.0 UJL
Carbon Disulfide	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	2.5 JL	9.1 JL	5.4 UJL
Chloroform	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	6.3 UJL	6.4 UJL	5.4 UJL
Total Xylenes (c)	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	2.0 JL	6.3 UJL	6.3 UJL	6.4 UJL	5.4 UJL
Methyl ethyl ketone	32.0 UJL	41.0 UJL	32.0 UJL	33.0 UJL	12.0 UJL	38.0 UJL	12.0 JL	38.0 UJL	33.0 UJL
Methylene Chloride	5.5 UJL	8.7 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	6.3 UJL	8.5 UJL	5.4 UJL
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	6.3 UJL	6.3 UJL	6.4 UJL	1.8 JL
Toluene	5.3 UJL	6.8 UJL	5.3 UJL	5.4 UJL	12.0 UJL	2.5 JL	6.3 UJL	6.4 UJL	5.4 UJL

a\ VOCs = Volatile organic compounds; NYSDEC = New York State Department of Environmental Conservation; SCO = soil cleanup objective; U = analyte not detected above reporting limit; JL = estimated concentration with possible low bias; UJL = not detected, possible low bias; NA = not analyzed; ug/kg = micrograms per kilogram.

b\ Analytes highlighted in bold text and gray shading exceed the NYSDEC's Restricted Use Soil Cleanup Objectives for Industrial Settings (6 NYCRR PART 375 - Table 375-6.8(b):

c\ All samples were analyzed for m,p&o-xylenes, individually, which were non-detect throughout the data set, however, the samples analysed by Pace Long Island also reported Total Xylenes, of which there was a trace detectoin in one sample.

Table 5
Groundwater Elevations
5140 Site
Yorkville, New York (a)

<u>Well ID</u>	<u>Depth to Water</u>				<u>Groundwater Elevation</u>				<u>Notes</u>
	(ft btoc)				(ft aMSL)				
	<u>11/29/2012</u>	<u>12/20/2012</u>	<u>10/14/2014</u>	<u>1/12/2015</u>	<u>11/29/2012</u>	<u>12/20/2012</u>	<u>10/14/2014</u>	<u>1/12/2015</u>	
MW-5	10.51	9.31	-		414.28	415.48	-	-	Destroyed
MW-5R	-	-	11.69	9.44	-	-	413.07	415.32	
MW-6	10.48	9.46	11.54	9.37	414.46	415.48	413.4	415.57	
MW-7	9.84	8.66	11.11	8.86	414.28	415.46	413.01	415.26	
MW-8	9.67	8.41	10.71	NM	414.55	415.81	413.51	NM	
MW-9	-	-	11.39	9.17	-	-	413.28	415.5	
MW-10	-	-	13.48	11.23	-	-	413.4	415.65	

a/ ft aMSL = feet above mean sea level; ft btoc = feet below top of casing; "-"= not applicable/not measured.
b/ MW-8 was inaccessible on 1/12/15 due to snow and ice.

Table 6

**Groundwater Results - Polychlorinated Biphenyls
5140 Site
Yorkville, New York (a)**

Sample ID: Date Sampled:	Evaluation Criteria (b)	MW-5R			MW-6			MW-7	
		10/14/14	1/12/15	1/12/15 Duplicate (c)	10/14/14	10/14/14 Duplicate (e)	1/12/15	10/14/14	1/12/15
PCBs (µg/l)									
Aroclor 1016	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1221	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1232	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1242	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1248	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1254	0.09	0.1 UJ	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.211 J	0.26 U
Aroclor 1260	0.09	0.346 J	0.26 U	0.28 U	0.05 UJ	0.05 UJ	0.26 U	0.05 UJ	0.26 U

Sample ID: Date Sampled:	Evaluation Criteria (b)	MW-8 (e)		MW-9		MW-10	
		10/14/14	10/14/14 (e)	10/14/14	1/12/15	10/14/14	1/12/15
PCBs (µg/l)							
Aroclor 1016	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1221	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1232	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1242	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1248	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1254	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U
Aroclor 1260	0.09	0.05 UJ	NS	0.05 UJ	0.26 U	0.05 UJ	0.26 U

- a/ PCBs = polychlorinated biphenyls; µg/l = micrograms per liter; U = analyte not detected above laboratory detection limits. UJ = not detected, quantitation limit may be inaccurate or imprecise; J = reported value may not be accurate or precise.
The October 14, 2014 samples from monitoring wells MW-5R and MW-7 were collected outside of the low flow purge stabilization criteria for nephthometric units and are considered false positive detections. The data are included in this table for purposes of discussion only. See text for further explanation.
- b/ Concentrations in bold text and gray shading exceed the New York State Ambient Water Quality Standards or Guidance Values for Class groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998.
- c/ Blind duplicate of sample from MW-5R was designated MW-0115 in the field.
- d/ Blind duplicate of sample from MW-6 was designated MW-1014 in the field.
- e/ Monitoring well MW-8 was inaccessible due to snow and ice cover present at the site on 1/12/15.

Table 7

**Sub-slab Soil Gas, Indoor Air and Ambient Air Sampling Results
5140 Site
Yorkville, New York (a)**

Sample ID (Depth): Sample Type:	SS-01	IA-01	SS-02	IA-02	SS-03	IA-03	SS-04	SS-1014	IA-04	OA-1
	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Subslab Duplicate (c)	Indoor Air	Outdoor Air
Date:	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14
VOCs ($\mu\text{g}/\text{m}^3$)										
1,1,1-Trichloroethane	0.55 J	0.15 U	1.8 J	0.15 U	7 J	0.15 U	13	13	0.15 U	0.15 U
1,2,4-Trichlorobenzene	0.15 U	0.15 U	6.3 J	0.15 U	1.1 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-Trimethylbenzene	4.5 J	0.15 U	13	0.74	6.7 J	0.74	19 J	17	0.15 U	0.54 J
1,3,5-Trimethylbenzene	2 J	0.15 U	0.15 U	0.59 J	0.15 U	0.64 J	8.3 J	8.2 J	0.15 U	0.15 U
1,4-Dichlorobenzene	0.96 J	0.15 U	1.7 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2,2,4-trimethylpentane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.1	2.2	0.15 U	0.15 U
4-ethyltoluene	1 J	0.15 U	1.7 J	0.15 U	0.93 J	0.15 U	6.7 J	6.3 J	0.15 U	0.15 U
Acetone	650	24	470	24	460	20	1,900	2,600	13	14
Benzene	2.8 J	0.42 J	3.6 J	0.42 J	3.6 J	0.45 J	11	11	0.38 J	0.15 U
Carbon disulfide	11	0.15 U	20	0.15 U	11	0.15 U	9	9	0.15 U	0.15 U
Carbon tetrachloride	0.15 U	0.57	0.15 U	0.63	0.15 U	0.04 U	0.15 U	0.15 U	0.63	0.63
Chlorobenzene	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.46 J	0.15 U	0.15 U	0.15 U	0.15 U
Chloroethane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.47	0.42	0.15 U	0.15 U
Chloroform	2.2 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.63 J	0.73	0.15 U	0.15 U
Chloromethane	0.15 U	1.1	0.56	1.2	0.15 U	1	0.15 U	0.15 U	0.95	1.1
Cyclohexane	3.6 J	0.15 U	0.15 U	0.15 U	3.3 J	0.15 U	7.3	9.3	0.15 U	0.15 U
Ethyl acetate	0.25 U	0.25 U	0.61 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	3 J	0.15 U	19	0.15 U	5.8 J	0.15 U	8 J	7.7 J	0.15 U	0.15 U
Freon 11	1.9 J	1.9	42	1.9	390	1.9	15	15	1.7	1.6
Freon 113	0.15 U	0.15 U	1 J	0.15 U	5.3 J	0.15 U	0.15 U	0.77 J	0.15 U	0.15 U
Freon 12	3.4 J	2.9	6.4	2.8	2.9 J	2.8	2.5	2.3	2.7	2.5
Heptane	8.6	0.15 U	6.1	0.15 U	7.8	0.15 U	20	19	0.15 U	0.15 U
Hexane	14	0.15 U	6.7	0.15 U	9.5	0.15 U	20	18	0.15 U	0.15 U
Isopropyl alcohol	12	2.5	18	2.1	14	4.3	41	0.15 U	3.3	2.8
m&p-Xylene	13 J	1.2 J	62	1.3 J	12 J	1.4	23	22	1.1 J	0.43 J
Methyl Butyl Ketone	1.7 J	0.3 U	5.7 J	0.3 U	2.7 J	0.3 U	0.3 UJ	0.3 UJ	0.3 U	0.3 U
Methyl Ethyl Ketone	8.3 J	1	11	1.1	7.4 J	1.3	19	14	1	0.91
Methyl Isobutyl Ketone	2.5 J	0.3 U	3.6 J	0.3 U	1.9 J	0.3 U	6.8 J	6.7 J	0.3 U	0.3 U
Methyl tert-butyl ether	4.9 J	0.15 U	4.5	0.15 U	4.4 J	0.15 U	11	9.4	0.15 U	0.15 U
Methylene chloride	0.15 U	0.15 U	0.42 J	0.45 J	0.45 J	0.52	0.45 J	0.56	0.15 U	0.35 J
o-Xylene	2.9 J	0.15 U	11	0.56 J	4.2 J	0.52 J	5.5 J	5.5 J	0.15 U	0.15 U
Styrene	1.4 J	0.15 U	2.7 J	0.15 U	1.6 J	0.15 U	7.7	6.8	0.15 U	0.15 U
Tetrachloroethylene	0.81 J	0.15 U	8.3 J	0.15 U	45	0.15 U	74	69	0.15 U	0.15 U
Toluene	11	0.9	9	0.87	10	1.6	25	23	0.83	0.68
Trichloroethene	0.91 J	0.04 U	0.97 J	0.04 U	5.9 J	0.27	20	19	0.04 U	0.04 U

a/ VOCs = volatile organic compounds; U = compound not detected at or above the reporting limit; UJ = quantitation limit may be inaccurate or imprecise; J = estimated concentration; $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

b/ Evaluation criteria are Soil Vapor/Indoor Air Matrices 1 and 2, as presented in the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

c/ SS-1014 is a blind duplicate sample of SS-04.

Table 7

**Sub-slab Soil Gas, Indoor Air and Ambient Air Sampling Results
5140 Site
Yorkville, New York (a)**

Sample ID (Depth):	SS-01	IA-01	SS-02	IA-02	SS-03	IA-03	SS-04	SS-1014	IA-04	OA-1
Sample Type:	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Indoor Air	Subslab	Subslab Duplicate (c)	Indoor Air	Outdoor Air
Date:	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14
VOCs (µg/m³)										
1,1,1-Trichloroethane	0.55 J	0.15 U	1.8 J	0.15 U	7 J	0.15 U	13	13	0.15 U	0.15 U
1,2,4-Trichlorobenzene	0.15 U	0.15 U	6.3 J	0.15 U	1.1 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-Trimethylbenzene	4.5 J	0.15 U	13	0.74	6.7 J	0.74	19 J	17	0.15 U	0.54 J
1,3,5-Trimethylbenzene	2 J	0.15 U	0.15 U	0.59 J	0.15 U	0.64 J	8.3 J	8.2 J	0.15 U	0.15 U
1,4-Dichlorobenzene	0.96 J	0.15 U	1.7 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2,2,4-trimethylpentane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.1	2.2	0.15 U	0.15 U
4-ethyltoluene	1 J	0.15 U	1.7 J	0.15 U	0.93 J	0.15 U	6.7 J	6.3 J	0.15 U	0.15 U
Acetone	650	24	470	24	460	20	1,900	2,600	13	14
Benzene	2.8 J	0.42 J	3.6 J	0.42 J	3.6 J	0.45 J	11	11	0.38 J	0.15 U
Carbon disulfide	11	0.15 U	20	0.15 U	11	0.15 U	9	9	0.15 U	0.15 U
Carbon tetrachloride	0.15 U	0.57	0.15 U	0.63	0.15 U	0.04 U	0.15 U	0.15 U	0.63	0.63
Chlorobenzene	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.46 J	0.15 U	0.15 U	0.15 U	0.15 U
Chloroethane	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.47	0.42	0.15 U	0.15 U
Chloroform	2.2 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.63 J	0.73	0.15 U	0.15 U
Chloromethane	0.15 U	1.1	0.56	1.2	0.15 U	1	0.15 U	0.15 U	0.95	1.1
Cyclohexane	3.6 J	0.15 U	0.15 U	0.15 U	3.3 J	0.15 U	7.3	9.3	0.15 U	0.15 U
Ethyl acetate	0.25 U	0.25 U	0.61 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	3 J	0.15 U	19	0.15 U	5.8 J	0.15 U	8 J	7.7 J	0.15 U	0.15 U
Freon 11	1.9 J	1.9	42	1.9	390	1.9	15	15	1.7	1.6
Freon 113	0.15 U	0.15 U	1 J	0.15 U	5.3 J	0.15 U	0.15 U	0.77 J	0.15 U	0.15 U
Freon 12	3.4 J	2.9	6.4	2.8	2.9 J	2.8	2.5	2.3	2.7	2.5
Heptane	8.6	0.15 U	6.1	0.15 U	7.8	0.15 U	20	19	0.15 U	0.15 U
Hexane	14	0.15 U	6.7	0.15 U	9.5	0.15 U	20	18	0.15 U	0.15 U
Isopropyl alcohol	12	2.5	18	2.1	14	4.3	41	0.15 U	3.3	2.8
m&p-Xylene	13 J	1.2 J	62	1.3 J	12 J	1.4	23	22	1.1 J	0.43 J
Methyl Butyl Ketone	1.7 J	0.3 U	5.7 J	0.3 U	2.7 J	0.3 U	0.3 UJ	0.3 UJ	0.3 U	0.3 U
Methyl Ethyl Ketone	8.3 J	1	11	1.1	7.4 J	1.3	19	14	1	0.91
Methyl Isobutyl Ketone	2.5 J	0.3 U	3.6 J	0.3 U	1.9 J	0.3 U	6.8 J	6.7 J	0.3 U	0.3 U
Methyl tert-butyl ether	4.9 J	0.15 U	4.5	0.15 U	4.4 J	0.15 U	11	9.4	0.15 U	0.15 U
Methylene chloride	0.15 U	0.15 U	0.42 J	0.45 J	0.45 J	0.52	0.45 J	0.56	0.15 U	0.35 J
o-Xylene	2.9 J	0.15 U	11	0.56 J	4.2 J	0.52 J	5.5 J	5.5 J	0.15 U	0.15 U
Styrene	1.4 J	0.15 U	2.7 J	0.15 U	1.6 J	0.15 U	7.7	6.8	0.15 U	0.15 U
Tetrachloroethylene	0.81 J	0.15 U	8.3 J	0.15 U	45	0.15 U	74	69	0.15 U	0.15 U
Toluene	11	0.9	9	0.87	10	1.6	25	23	0.83	0.68
Trichloroethene	0.91 J	0.04 U	0.97 J	0.04 U	5.9 J	0.27	20	19	0.04 U	0.04 U

a/ VOCs = volatile organic compounds; U = compound not detected at or above the reporting limit; UJ = quantitation limit may be

inaccurate or imprecise; J = estimated concentration; µg/m³ = micrograms per cubic meter.

b/ Evaluation criteria are Soil Vapor/Indoor Air Matrices 1 and 2, as presented in the NYSDOH 's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

c/ SS-1014 is a blind duplicate sample of SS-04.

Boring Log: MW-5R

Project: 5140 Site

Project No.:

Location: Yorkville, NY

Completion Date: September 18, 2014

Surface Elevation (feet AMSL*): 425

TOC Elevation (feet AMSL): 424.76

Total Depth (feet): 15.5

Borehole Diameter (inches): 2

*AMSL = Above Mean Sea Level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
2	1	1.2 (0-2), 1.2 (2-4)	-	75		Silty Sand (SM) Brown (7.5YR3/2) fine to medium-grained sand, some silt, some rootlets; dry; loose.	
4						Poorly-Graded Gravel (GP) Brown (7.5YR4/3) angular gravel (0.25 to 0.5 inch diameter); loose; dry.	
6	2	1.0	-	50		Silt (ML) Strong brown (7.5YR5/6) silt, little clay; medium dense; dry.	
10	3	3.3	-	50		Silty Gravel (GM) Strong brown (7.5YR5/6) sub-rounded gravel from 0.2 to 2.0 inches in diameter, and silt; medium dense; dry, becoming moist between 9.0 to 11.5 feet, becoming wet between 11.5 and 15.0 feet.	
14	4	NA	-	75		Fat Clay (CH) Reddish-gray (2.5YR5/1) clay, medium high to high plasticity; cohesive; soft; wet	
16						Bottom of Boring at 15.5 feet Refusal at 15.5 ft.	
18							
20							

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson/Jolaan Price
Method: Direct Push/Hollow Stem Auger

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: MW-10

Project: 5140 Site

Project No.:

Location: Yorkville, NY

Completion Date: September 16, 2014

Surface Elevation (feet AMSL*): 427.22

TOC Elevation (feet AMSL): 426.88

Total Depth (feet): 20

Borehole Diameter (inches): 2

*AMSL = Above Mean Sea Level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
1		0.5	...	75		Silt with Sand (ML) Brown (7.5YR4/2) silt, little fine grained sand, trace rootlets; medium dense; dry.	
5			...			Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR4/4) angular gravel, some silt and fine to medium-grained sand; medium dense; dry	
2		0.9	...	100		Silt (ML) Brown (7.5YR4/6) silt; stiff; dry.	
10		0.2	...	75		Silt with Gravel (ML) Dark brown (7.5YR3/1) silt, little sub-angular gravel from 0.2 to 0.5 inches in diameter, little clay; stiff; dry.	
15		0.7	...	50		Poorly-Graded Gravel with Silt (GP-GM) Brown (7.5YR5/6) sub-angular gravel from 0.2 to 2.0 inches in diameter, little silt and sand; medium dense; dry, becoming moist between 14.5 to 15.5 feet.	
5		NA	...	100		Poorly-Graded Gravel with Sand (GP) Reddish-yellow (7.5YR6/6) sub-rounded gravel from 0.1 to 2.0 inches in diameter, little fine to medium-grained sand; loose; wet.	
20			...			Lean Clay (CL) Reddish-gray (2.5YR5/1) clay; medium plasticity; cohesive; soft; wet.	
			...			Poorly-Graded Gravel with Sand (GP) Dark reddish-gray (2.5YR4/1) sub-rounded gravel from 0.2 to 1.5 inches in diameter, little medium to coarse-grained sand; loose; wet.	
25			...			Poorly-Graded Sand with Gravel (SP) Dark reddish-gray (2.5YR4/1) medium-grained sand, some sub-rounded gravel from 0.2 to 1.5 inch; loose; wet.	
						Bottom of Boring at 20 feet	

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson/Jolaan Price
Method: Direct Push/Hollow Stem Auger

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: MW-9

Project: 5140 Site

Project No.:

Location: Yorkville, NY

Completion Date: September 18, 2014

Surface Elevation (feet AMSL*): 425.08

TOC Elevation (feet AMSL): 424.67

Total Depth (feet): 27

Borehole Diameter (inches): 2

*AMSL = Above Mean Sea Level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
2	1	1.2 (0-2), 1.2 (2-4)	-	75		Silty Sand (SM) Brown (7.5YR3/2) fine to medium-grained sand, some silt, some rootlets; dry; loose.	
4						Poorly-Graded Gravel (GP) Brown (7.5YR4/3) angular gravel (0.25 to 0.5 inch diameter); loose; dry.	
6	2	1.0	-	50		Silt (ML) Strong brown (7.5YR5/6) silt, little clay; medium dense; dry.	
8						Silty Gravel (GM) Strong brown (7.5YR5/6) sub-rounded gravel from 0.2 to 2.0 inches in diameter, and silt; medium dense; dry, becoming moist between 9.0 to 11.5 feet, becoming wet between 11.5 and 15.0 feet.	
10	3	3.3	-	50			
14	4	NA	-	50			
16						Fat Clay (CH) Reddish-gray (2.5YR5/1) clay, medium high to high plasticity; cohesive; soft; wet	
18	5	NA	-	75		Poorly-Graded Gravel with Clay and Sand (GP-GC) Gray (7.5YR5/1) sub-rounded gravel from 0.2 to 2 inches in diameter, some coarse grained sand, little clay; dense; wet.	
20							

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson/Jolaan Price
Method: Direct Push/Hollow Stem Auger

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: MW-9

Project: 5140 Site

Project No.:

Location: Yorkville, NY

Completion Date: September 18, 2014

Surface Elevation (feet AMSL*): 425.08

TOC Elevation (feet AMSL): 424.67

Total Depth (feet): 27

Borehole Diameter (inches): 2

*AMSL = Above Mean Sea Level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
22	6	NA	.	37.5		<p>Poorly-Graded Gravel with Sand (GP) Gray (7.5YR5/1) sub-rounded gravel from 0.2 to 2 inches in diameter, some coarse-grained sand; dense, becoming very dense at 23.5 feet; wet. <i>(continued)</i></p>	
24							
26							
28						Bottom of Boring at 27 feet	
30							
32							
34							
36							
38							
40							

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson/Jolaan Price
Method: Direct Push/Hollow Stem Auger

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-21

Project: 5140 Site

Surface Elevation (feet AMSL*): 425.5

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 4

Completion Date: September 18, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2						Not logged - Hand Auger sample
						Bottom of Boring at 1 feet
4						
6						
8						
10						
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Hand Auger

WSP USA Corp.
5 Sullivan Street
Cazenovia, NY 13035
(315) 655-3900

Boring Log: SB-22

Project: 5140 Site

Surface Elevation (feet AMSL*): 425.56

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 4

Completion Date: September 18, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2						Not logged - Hand Auger sample
						Bottom of Boring at 1 feet
4						
6						
8						
10						
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Hand Auger

WSP USA Corp.
5 Sullivan Street
Cazenovia, NY 13035
(315) 655-3900

Boring Log: SB-23

Project: 5140 Site

Surface Elevation (feet AMSL*): 425.54

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 4

Completion Date: September 18, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2						Not logged - Hand Auger sample
						Bottom of Boring at 1 feet
4						
6						
8						
10						
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Hand Auger

WSP USA Corp.
5 Sullivan Street
Cazenovia, NY 13035
(315) 655-3900

Boring Log: SB-24

Project: 5140 Site

Surface Elevation (feet AMSL*): 427.61

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.5	-	100		Silt with Sand (ML) Very dark brown (7.5YR 2.5/3) silt, little sand, little organics and rootlets; loose; dry.
1						Poorly-Graded Sand (SP) Strong brown (7.5YR 4/6) fine to medium-grained sand; loose; dry.
2						Bottom of Boring at 1 feet
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-25

Project: 5140 Site

Surface Elevation (feet AMSL*): 427.44

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.9	-	100		Silt with Sand (ML) Brown silt, trace to little sand, little organics and rootlets; loose; dry.
10						Bottom of Boring at 1 feet

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-26

Project: 5140 Site

Surface Elevation (feet AMSL*): 425

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.6	-	100		Silt with Sand (ML) Dark brown silt, little sand, trace gravel, little organics and rootlets; loose; moist.
2						Bottom of Boring at 1 feet
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-27

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.73

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.6	-	100		Silt with Sand (ML) Black (7.5YR 2.5/1) to brown (7.5YR 4/4) silt, little fine to medium-grained sand, trace gravel, little rootlets and organics; loose; dry.
2						Bottom of Boring at 1 feet
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-28

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.74

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	1.6	-	100		Poorly-Graded Gravel (GP) Gravel, little fine to coarse-grained sand, trace silt; loose; dry.
1						Silt (ML) Dark brown (7.5YR 3/3) silt, trace sand and gravel; stiff; dry.
2						Poorly-Graded Sand with Silt (SP-SM) Brown (7.5YR 4/4) fine to coarse-grained sand, little gravel and silt; very dense; dry.
						Bottom of Boring at 1 feet
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-29

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.65

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.8	-	100		<p>Poorly-Graded Sand with Silt and Gravel (SP-SM) Dark brown fine to coarse-grained sand, little silt, little gravel; loose; dry.</p> <p>Silt (ML) Dark brown silt; stiff; dry.</p>
						Bottom of Boring at 1 feet
2						
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-30

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.81

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.6	-	100		Poorly-Graded Gravel (GP) Gravel, some fine to coarse-grained sand; loose; dry.
						Asphalt
						Silty Gravel (GM) Light gray angular gravel, little silt; medium dense; dry.
						Silt (ML) Yellowish-brown silt; stiff; dry.
						Bottom of Boring at 1 feet
2						
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-31

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.64

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.4	-	100		Poorly-Graded Gravel with Silt and Sand (GP-GM) Angular gravel, little sand and silt; loose to medium dense; dry.
1						Silt (ML) Dark brown (7.5YR 3/3) silt, very stiff; dry.
						Bottom of Boring at 1 feet
2						
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-32

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.69

Project No.:

Total Depth (feet): 1

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	1.2	-	100		Poorly-Graded Gravel with Silt and Sand (GP-GM) Dark gray (7.5YR 4/1) gravel, some sandy silt; loose; dry.
						Asphalt
						Silty Gravel (GM) Gravel, little silt; dense; dry.
						Silt (ML) Dark brown (7.5YR 3/3) silt, stiff to very stiff; dry.
						Bottom of Boring at 1 feet
2						
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-33

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.6

Project No.:

Total Depth (feet): 1




Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 15, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	1.3	-	100		Asphalt
1			-			Poorly-Graded Gravel with Silt (GP-GM) Angular gravel, little sandy silt; medium dense; dry.
2						Silt (ML) Dark brown (7.5YR 3/3) silt; hard; dry.
2						Bottom of Boring at 1 feet
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-34

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.18

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(1-2) 0 (2-4) 0	- - -	75		Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine-grained; loose; dry.
4						
6	2	(5-6) 0 (6-8) 0	- - -	75		Gravelly Silt (ML) Dark brown (7.5YR2.5/3) sandy silt, some sub-rounded gravel from 0.2 to 1.5 inches in diameter; medium hard; dry.
8						
10	3	(10-12) 0	- - -	50		Silty Gravel with Sand (GM) Coarse-grained sand with silt and gravel; medium dense; dry, becoming wet at 15.8 feet.
12						
14	4	(15-16) 0	- - -	25		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-35

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.19

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(1-2) 0 (2-4) 0	-	75		Concrete
4						Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine-grained sand; loose; dry.
6	2	(6-8) 0	-	50		Lean Clay (CL) Dark brown (7.5YR3/4) silty clay; medium soft; dry.
8						Silty Sand with Gravel (SM) Brown (7.5YR3/4) silty sand with sub-rounded gravel from 0.2 to 0.5 inches in diameter; medium dense; dry.
10	3	(10-12) 0	-	50		Poorly-Graded Sand (SP) Brown (7.5YR4/4) sand; fine to medium grained; loose; dry.
12						Silty Gravel with Sand (GM) Brown (7.5YR3/4) sub-angular gravel, some coarse grained sand and silt; medium dense; dry, becoming wet between 15.5 and 16.0 feet.
14	4	-	-	12.5		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-36

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.25

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(1-2) 0 (2-4) 0	-	75		Concrete
4						Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine-grained sand; loose; dry.
6	2	(4-6) 0 (6-8) 0	-	100		Lean Clay (CL) Very dark gray (7.5YR3/1) silt clay; soft; dry.
8						Silty Gravel with Sand (GM) Brown (7.5YR3/4) sub-angular gravel from 0.2 to 1.5 inches in diameter, little silt and sand; medium dense; dry becoming wet from 15.0 to 16.0 feet.
10	3	(10-12) 0	-	50		
12						
14	4	0.0	-	25		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-37

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.26

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(1-2) 0 (2-4) 0	- - -	75		Concrete
4						Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine-grained sand; loose; dry.
6	2	(4-6) 0 (6-8) 0	- - -	100		Lean Clay (CL) Very dark gray (7.5YR3/1) clay; soft; dry.
8						Lean Clay (CL) Brown (7.5YR3/4) clay, some silt; medium dense; dry.
10	3	(9-10) 0 (10-12) 0	- - -	75		Silty Gravel with Sand (GM) Brown (7.5YR3/4) sub-rounded gravel from 0.2 to 0.5 inches in diameter, some fine to coarse-grained sand and silt, medium dense; dry, becoming wet between 15.0 to 16 feet.
14	4	(14-15) 0	- - -	50		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-38

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.2

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(1-2) 0 (2-4) 0	-	75		Concrete
4						Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine-grained sand; loose; dry.
6	2	(6-8) 0	-	50		Lean Clay (CL) Very dark brown (7.5YR3/1) clay, some silt; soft; dry.
8						Silt with Gravel (ML) Brown (7.5YR3/3) silt with sub-rounded gravel (1.0-2.0 inches), dry; medium hard.
10	3	(10-12) 0	-	50		Silty Gravel with Sand (GM) Brown (7.5YR3/4) sub-rounded gravel from 0.2 to 1.5 inches in diameter; little medium-grained sand, some silt, medium dense; dry, becoming moist between 15.0 to 15.5 feet, becoming wet at 15.5 feet.
14	4	(14-15.5) 0	-	50		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-39

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.2

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 18, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Concrete
2	1	(1-2) 0 (2-4) 0	-	75		Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine-grained sand; loose; dry.
4						
6	2	(4.5-6) 0 (6-8) 0	-	87.5		Poorly-Graded Sand with Gravel (SP) Dark brown (7.5YR3/4) fine to coarse-grained sand with sub-rounded gravel from 0.2 to 1.0 inches in diameter; moist; medium dense.
8						
10	3	NR	-	0		Poorly-Graded Gravel with Silt and Sand (GP-GM) Dark brown (7.5YR3/4) sub-rounded gravel from 0.2 to 2.0 inches in diameter, some fine to medium-grained sand and silt; medium dense; dry, becoming wet at 15.0 feet.
12						
14	4	(14-15) 0	-	50		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-40

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.23

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 16, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(0-2) 0.6 (2-4) 1.2	- - -	100		Sandy Silt with Gravel (ML) Brown (7.5YR3/3) sandy silt, some concrete rubble and angular gravel; medium dense; dry.
6	2	(4-6) 200 (6-8) 1.3	- - -	100		Silt (ML) Very dark gray (7.5YR3/1) silt, some clay; medium dense; dry; stained; strong petroleum-like odor between 5.5 and 7 feet.
10	3	(8-10) 0.2 (10-12) 1.5	- - -	50		Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR4/3) sub-rounded gravel from 0.2 - 0.5 inch inches, some sand and silt; medium dense; dry.
14	4	(12-14) 0.6 (14-16) NA	- - -	75		Silty Sand (SM) Dark brown (7.5YR3/3) fine-grained sand, some silt; dry; soft.
16						Silty Gravel with Sand (GM) Strong brown (7.5YR5/6) sub-rounded gravel, little sand, little silt; loose; moist, becoming wet at 14.0 to 16.0 feet.
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-41

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.08

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 16, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(0-2) 4.7 (2-4) 0.2	- - - -	62.5		Poorly-Graded Sand (SP) Strong brown (7.5YR4/6) sand; fine; loose; dry.
4						
6	2	(6-8) 0.3	- - - -	50		Sandy Silt with Gravel (ML) Brown (7.5YR4/2) to dark brown (7.5YR3/2) silt, some sand, few sub-angular gravel; soft; dry.
8						
10	3	(10-12) 0.8	- - - -	50		Poorly-Graded Gravel with Sand (GP) Brown (7.5YR4/3) sub-rounded gravel, some sand; medium dense, loose between 14.6 and 16 feet; dry, becoming loose between 14.6 and 16 feet.
12						
14	4	(12-14) 0.2	- - - -	75		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-42

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.12

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 16, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(0-2) 5.8 (2-4) 8.7	- - - -	100		Poorly-Graded Sand (SP) Brown (7.5YR4/6) fine-grained sand; loose; dry.
4						Sandy Silt with Gravel (ML) Brown (7.5YR4/2) Sandy silt, some sub-rounded gravel from 0.5 to 2.0 inches in diameter; medium dense; dry.
6	2	(6-8) 7.9	- - - -	50		
8						Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR4/2) sub-rounded gravel with silt and sand; medium dense; dry, becoming moist at 15.0 feet, becoming wet at 15.5 feet.
10	3	(11-12) 15.7	- - - -	25		
12						
14	4	NA	- - - -	50		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-43

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.64

Project No.:

Total Depth (feet): 12

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 18, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	0	-	100		Concrete
4			-			Sandy Silt with Gravel (ML) Brown (7.5YR4/4) silt, little sub-rounded gravel from 0.2 to 1.5 inches in diameter, little sand; medium dense; dry.
6	2	0	-	50		Poorly-Graded Gravel with Sand (GP) Brown (7.5YR4/4) sub-rounded gravel from 0.2 to 1.0 inches in diameter, some fine to coarse-grained sand; loose; moist, becoming wet at 10.5 feet.
8			-			
10	3	7.1	-	62.5		
12						Bottom of Boring at 12 feet
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-44

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.22

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 16, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(0-2) 0.0 (2-4) 2.0	-	100		Poorly-Graded Sand (SP) Brown (7.5YR4/6) fine-grained sand; loose; dry.
4						Silt with Sand (ML) Brown (7.5YR4/6) silt, some fine-grained sand; soft; dry.
6	2	(4-6) 3.8 (6-8) 0.0	-	62.5		Lean Clay (CL) Gray (7.5YR3/1) clay; medium plasticity; soft; dry.
8						Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR4/4) sub-rounded gravel from 0.2 to 1.5 inches in diameter, some silt and sand; medium dense; dry, becoming wet at
10	3	(8-10) 3.8 (10-12) 4.2	-	75		
12						
14	4	(12-14) 4.6	-	75		Poorly-Graded Gravel with Silt and Sand (GP-GM) Dark gray (7.5YR4/1) sub-rounded gravel from 0.2 to 1.5 inches in diameter, some silt and sand; loose; wet.
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035
 (315) 655-3900

Boring Log: SB-45

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.29

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(2-4) 0	-	50		Poorly-Graded Sand (SP) Strong brown (7.5YR4/6) fine-grained sand; loose; dry.
4						Gravelly Lean Clay with Sand (CL) Very dark gray (7.5YR3/1) to brown (7.5YR4/2) clay, little sub-rounded gravel from 0.1 to 0.4 inches in diameter, little medium to fine-grained sand; medium plasticity; soft; dry.
6	2	(6-8) 0.5	-	50		
8						Poorly-Graded Gravel with Silt (GP-GM) Brown (7.5YR3/4) sub-rounded gravel (0.2 to 2.0 inches) with coarse grained sand and silt; loose; dry, becoming wet at 15.0 feet.
10	3	(10-12) 0	-	50		
12						
14	4	(13-14) 1.8	-	75		
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

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Boring Log: SB-46

Project: 5140 Site

Surface Elevation (feet AMSL*): 424.67

Project No.:

Total Depth (feet): 11

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 18, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	3	(10-11) 6.8	-	50		Concrete
4			-			Silt (ML) Brown (7.5YR 4/4) silt, medium dense; dry.
6	1	(0-2) 0.0 (2-4) 7.8	-	75		Sandy Silt with Gravel (ML) Brown (7.5YR 4/4) sandy silt with sub-rounded gravel from 0.2 to 1.5 inches in diameter.
10	2	(6-8) 8.1	-	50		Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR 3/4) sub-rounded gravel from 0.2 to 2.0 inches in diameter, little silt, little sand; medium dense; dry, becoming wet at 11 feet.
12						Bottom of Boring at 11 feet
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

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Boring Log: SB-47

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.21

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(2-4) 0	-	50		Concrete
4			-			Poorly-Graded Sand (SP) Brown (7.5YR4/4) fine grained sand; loose; dry.
6	2	(6-8) 0	-	50		
8			-			Lean Clay (CL) Brown (7.5YR4/4) clay; medium soft; dry.
10	3	(10-12) 0	-	50		Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR3/4) sub-rounded gravel from 0.2 to 1.5 inches in diameter; loose; dry, moist from 14.0 to 15.0 feet, becoming wet at 15.0 feet..
12			-			
14	4	(13-14) 0	-	75		
16			-			Bottom of Boring at 16 feet
18			-			
20			-			

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

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Boring Log: SB-48

Project: 5140 Site

Surface Elevation (feet AMSL*): 428.16

Project No.:

Total Depth (feet): 16

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: September 17, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	(2-4) 0	-	50	Concrete	
4					Poorly-Graded Sand (SP)	Brown (7.5YR4/4) fine-grained sand; loose; dry.
6	2	(5-6) 0 (6-8) 0	-	75	Lean Clay (CL)	Very dark gray (7.5YR3/1) silty clay; soft; moist.
8					Sandy Silt with Gravel (ML)	Dark brown (7.5YR3/4) silt, little sun-rounded gravel from 0.2 to 2.0 inches in diameter, little fine to medium-grained sand; medium dense; dry.
10	3	(10-12) 1.4	-	50	Sandy Silt (ML)	Very dark gray (7.5YR3/1) silt, some coarse-grained sand; moist.
14	4	(13-14) 0	-	75	Poorly-Graded Gravel with Silt and Sand (GP-GM)	Brown (7.5YR3/4) sub-rounded gravel from 0.2 to 2.0 inches in diameter, little silt, little coarse-grained sand; medium dense; dry, becoming wet at 15 feet.
16						Bottom of Boring at 16 feet
18						
20						

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Wayne Nielson
Method: Direct Push

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Boring Log: SB-50

Project: 5140 Site

Surface Elevation (feet AMSL*): Not Determined

Project No.:

Total Depth (feet): 2

Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: December 19, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	(0-1) 0.1 (1-2) 0.2	- - - -	100		<p>Silt (ML) Dark brown (7.5YR 3/2) silt; soft; dry.</p> <p>Silt with Gravel (ML) Brown (7.5YR 4/4) silt with sub-rounded gravel from 0.1 to 1.0 inch in diameter; medium soft; dry.</p>
2						Bottom of Boring at 2 feet
3						
4						
5						
6						
7						
8						
9						
10						

Geologist(s): Nathaniel Winston
Subcontractor: Parratt Wolff, Inc.
Driller/Operator:
Method: Direct Push

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Boring Log: SB-51

Project: 5140 Site

Surface Elevation (feet AMSL*): Not Determined

Project No.:

Total Depth (feet): 12

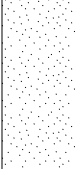


Location: Yorkville, NY

Borehole Diameter (inches): 2

Completion Date: December 19, 2014



*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2						Dry Well
4						
6	1	0.3	-	75		Poorly-Graded Sand (SP) Gray (5YR 5/1) coarse-grained sand with organic debris; loose; moist.
8						Poorly-Graded Gravel with Silt and Sand (GP-GM) Dark gray (7.5YR 4/1) sub-angular gravel with silt and sand; medium hard; dry.
10	2	0.3	-	75		Poorly-Graded Gravel with Silt and Sand (GP-GM) Brown (7.5YR 5/4) sub-angular gravel with silt and sand; loose; wet.
12						Bottom of Boring at 12 feet
14						
16						
18						
20						

Geologist(s): Nathaniel Winston
Subcontractor: Parratt Wolff, Inc.
Driller/Operator:
Method: Direct Push

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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-6	Site ID:	5140 Site	Sample Date:	10/14/2014
Well Diameter	2 in	Sampling Event:	Remedial Investigation		
Depth to Water	11.54 ft				
Total Well Depth	17.8 ft	Samplers	ESR		
Screen Length	10 ft	Weather Conditions and	Windy + Warm		
Pump Intake	15 ft	Flow Rate	350 mL/min		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		76 °F		Start purge:	1118	End purge:	1218	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1118	11.70	0.50	17.4	7.50	1.38	1	240.0	7.8	slightly cloudy	350
1123	11.70	2.25	16.38	7.23	1.26	14	224.0	2.7		
1128	11.70	4.00	16.33	7.23	1.20	30	94.0	2.91		
1133	11.70	5.75	16.31	7.21	1.19	42	29.3	3.13		
1138	11.70	7.50	16.3	7.16	1.19	50	15.4	3.27		
1143	11.70	9.25	16.2	7.12	1.19	55	8.7	3.34		
1148	11.70	11.00	16.27	7.10	1.19	59	4.8	3.42		
1153	11.70	12.75	16.3	7.08	1.19	61	6.8	3.43		
1158	11.70	14.50	16.31	7.08	1.19	62	1.2	3.45		
1203	11.70	16.25	16.39	7.08	1.19	63	0.0	3.47		
1208	11.70	18.00	16.44	7.05	1.18	64	0.0	3.48		
1213	11.70	19.75	16.51	7.04	1.18	64	0.0	3.49		
1218	11.70	21.50	16.53	7.03	1.18	64	0.0	3.49	clear	
1219	collected samples									

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
1	MW-6	PCBs	none	1 Liter Amber	Pace	10/14/14 12:19	
1	MW-1014	PCBs	none	1 Liter Amber	Pace	10/14/14 12:30	Blind Dupe



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-7 (Page 1)	Site ID:	5140 Site	Sample Date:	10/14/2014
Well Diameter	2 in	Sampling Event:	Remedial Investigation		
Depth to Water	11.11 ft				
Total Well Depth	17 ft	Samplers	NTW		
Screen Length	10 ft	Weather Conditions and	Clear, 80F		
Pump Intake	14 ft	Flow Rate	200.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		80 °F		Start purge:	1410	End purge:	QED Sample pro w/ MP-50 or MP-15 and CO ₂			
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1410	11.11	INT	17.8	7.02	1.24	111	672.0	6.20	light brown	200
1415	11.11	1.00	16.43	7.00	1.20	116	371.0	2.67	light brown	250
1425	11.11	2.25	16.22	6.94	1.18	116	234.0	2.04	light brown	200
1430	11.11	3.25	16.03	6.90	1.18	116	135.0	1.72	light brown	200
1435	11.12	4.25	15.75	6.93	1.18	122	99.3	1.50	light brown	200
1440	11.11	5.25	15.61	6.93	1.18	120	81.3	2.85	light brown	200
1445	11.11	6.25	15.6	6.92	1.18	120	92.0	3.45	clear	200
1450	11.11	7.25	15.65	6.90	1.17	155	70.0	3.69	clear	200
1455	11.11	8.25	15.65	6.88	1.19	121	86.0	2.49	clear	200
1500	11.11	9.25	15.66	6.92	1.17	113	70.2	2.19	clear	200
1505	11.11	10.25	15.74	6.85	1.18	88	65.1	1.94	clear	200
1510	11.11	11.25	15.77	6.87	1.18	58	56.5	1.75	clear	200
1515	11.11	12.25	15.82	6.85	1.18	58	38.3	1.60	clear	200
1520	11.11	13.25	15.8	6.86	1.18	87	32.1	1.60	clear	200
1525	11.11	14.25	15.69	6.92	1.18	65	33.6	1.40	clear	200
1530	11.11	15.25	15.73	6.87	1.18	91	37.1	1.31	clear	200

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-7 (Page 2)	Site ID:	5140 Site	Sample Date:	10/14/2014
Well Diameter	2 in	Sampling Event:	Remedial Investigation		
Depth to Water	11.11 ft				
Total Well Depth	17 ft	Samplers	NTW		
Screen Length	10 ft	Weather Conditions and	Clear Windy 80F		
Pump Intake	14 ft	Flow Rate	200.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		80 °F		Start purge:		End purge: 1650		Pump Type: QED Sample pro w/ MP-50 or MP-15 and CO ₂		
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1530	11.11	16.25	15.71	6.89	1.17	106	27.5	1.22	Clear	200
1535	11.11	17.25	15.74	6.88	1.18	112	26.2	1.14	Clear	200
1540	11.11	18.25	15.72	6.89	1.18	120	26.1	1.12	Clear	200
1545	11.11	19.25	15.82	6.91	1.19	105	23.7	0.95	Clear	200
1550	11.11	20.25	15.77	6.92	1.19	127	22.5	1.23	Clear	200
1555	11.11	21.25	15.77	6.92	1.19	126	17.5	0.90	Clear	200
1600	11.11	22.25	15.78	6.87	1.19	125	17.1	0.81	Clear	200
1605	11.11	23.25	15.69	6.91	1.19	123	16.6	0.78	Clear	200
1610	11.11	24.25	15.65	6.90	1.19	123	16.1	0.75	Clear	200
1615	11.11	25.25	15.61	6.86	1.18	123	15.2	0.82	Clear	200
1620	11.11	26.25	15.61	6.92	1.18	120	14.1	0.74	Clear	200
1625	11.11	27.25	15.56	6.87	1.19	123	13.4	0.72	Clear	200
1630	11.11	28.25	15.50	6.89	1.18	122	13.5	0.72	Clear	200
1640	11.11	29.25	15.53	6.86	1.19	122	13.5	0.70	Clear	200
1650	11.11	30.25	15.46	6.85	1.19	122	13.7	1.00	Clear	200
1650		End of purge								

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
1	MW-7	PCB-8082	N/A	1 Liter Amber	Pace	10/14/2014 1650	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-8	Site ID:	5140 Site	Sample Date:	10/14/2014
Well Diameter	2 in	Sampling Event:	Remedial Investigation		
Depth to Water	10.71 ft				
Total Well Depth	16.98 ft	Samplers	ESR		
Screen Length	10 ft	Weather Conditions and	Partly cloudy and windy		
Pump Intake	14 ft	Flow Rate	120.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		77.00		Start purge:	1330	End purge:	1418	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1339	10.75	1.08	22.56	7.04	2.07	75	321.0	1.59	slightly cloudy	120
1344	10.75	1.70	20.52	7.00	2.13	74	229.0	1.39		
1349	10.75	2.30	19.92	6.99	2.01	73	173.0	1.31		
1354	10.75	2.90	19.18	6.78	1.86	72	94.6	1.27		
1407	10.75	3.50	18.48	6.95	1.61	69	0.0	1.27		
1412	10.75	4.10	18.40	6.95	1.56	68	0.0	1.28		
1417	10.75	4.70	18.32	6.94	1.54	67	0.0	1.27		
1418		End of Purge								

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
1	MW-8	PCBs`	none	1 Liter Amber	Pace	11/14/2014 14:18:00 AM	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-9	Site ID:	5140 Site	Sample Date:	10/14/2014
Well Diameter	2 in	Sampling Event:	Remedial Investigation		
Depth to Water	11.39 ft				
Total Well Depth	26.65 ft	Samplers	NTW		
Screen Length	10 ft	Weather Conditions and	Sunny, Clear, 75F		
Pump Intake	19 ft	Flow Rate			

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		°F		Start purge:	1015	End purge:	1115	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1015	11.45	INT	14.57	7.57	4.13	-85.00	200.0	3.53	Clear	400
1020	11.50	2.0	14.32	7.57	4.17	-107.00	167.0	2.81	Clear	300
1025	11.52	3.5	14.27	7.53	4.19	-120.00	143.0	2.45	Clear	300
1030	11.51	5.0	14.23	7.57	4.17	-129.00	70.0	2.10	Clear	300
1035	11.51	6.5	14.12	7.57	4.14	-135.00	45.0	2.15	Clear	300
1040	11.51	8.0	14.08	7.58	4.10	-138.00	41.3	1.72	Clear	300
1045	11.52	9.5	14.04	7.57	4.07	-142.00	28.0	1.50	Clear	300
1050	11.51	11.0	14.02	7.54	4.05	-142.00	23.5	1.40	Clear	300
1055	11.51	12.5	14.07	7.52	4.02	-146.00	45.0	1.28	Clear	300
1100	11.51	14.0	14.04	7.52	4.10	-146.00	23.2	1.28	Clear	300
1105	11.51	15.5	14.06	7.51	4.01	-146.00	13.3	1.23	Clear	300
1110	11.51	17.0	14.04	7.52	4.00	-146.00	9.4	1.50	Clear	300
1115	11.51	18.5	14.04	7.51	3.98	-143.00	9.4	1.30	Clear	300

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	MW-9 ,MS/MSD	PCBs	none	1 Liter Amber	Pace	10/14/14 1115	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-9	Site ID:	5140 Site	Sample Date:	10/14/2014
Well Diameter	2 in	Sampling Event:	Remedial Investigation		
Depth to Water	13.48 ft				
Total Well Depth	19.35 ft	Samplers	ESR		
Screen Length	10 ft	Weather Conditions and	Partly cloudy and breezy		
Pump Intake	17.9 ft	Flow Rate	250.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		70 °F		Start purge:	1015	End purge:	1115	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1503	13.48	1.3	18.05	7.42	2.87	-63.00	451.0	1.37	partially silty	250
1508	13.48	2.5	17.43	7.23	2.86	-57.00	270.0	1.35		
1513	13.48	3.8	17.22	7.08	2.80	-41.00	190.0	1.30		
1518	13.48	5.0	16.84	7.00	2.77	-32.00	214.0	1.28		
1523	13.48	6.3	16.79	6.97	2.75	-28.00	207.0	1.25		
1528	13.48	7.5	16.73	6.95	2.72	-24.00	196.0	1.22		
1533	13.48	8.8	16.71	6.95	2.72	-22.00	193.0	1.20		
1535		Rinse out flow-through cell								
1542	13.48	11.3	17.05	6.97	2.70	-24.00	0.0	1.16	clear	
1547	13.48	12.8	17.14	6.94	2.69	-24.00	0.0	1.14		
1552	13.48	14.3	17.06	6.94	2.69	-24.00	0.0	1.14		
1553										

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
1	MW-10	PCBs 8260	none	1 Liter Amber	Pace	10/14/14 1553	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-6	Site ID:	5140 Site	Sample Date:	1/12/2015
Well Diameter	2 in	Sampling Event:	Groundwater Sampling		
Depth to Water	9.37 ft				
Total Well Depth	17.8 ft	Samplers	ESR		
Screen Length	10 ft	Weather Conditions and	37 F and snowing		
Pump Intake	13.5 ft	Flow Rate	240 mL/min		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		37 °F		Start purge:	1625	End purge:	1710	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1635	9.35	INT	5.17	7.23	1.14	157	5.5	1.66	Clear	240
1640	9.35	1.20	6.62	7.07	1.12	176	4.1	1.3	Clear	240
1645	9.35	2.40	6.69	7.09	1.11	179	3.0	2.35	Clear	240
1650	9.35	3.60	6.74	7.11	1.09	180	1.9	3.39	Clear	240
1655	9.35	4.80	6.75	7.12	1.09	180	1.3	3.36	Clear	240
1700	9.35	7.20	6.8	7.11	1.08	181	0.5	3.37	Clear	240
1710	End of purge after collecting samples									

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
2	MW-6	PCBs	none	1 Liter Amber	Accutest	1/12/2015 17:01:00 PM	
2	MW-6-F	PCBs	none	1 Liter Amber	Accutest	1/12/2015 17:10:00 PM	Filtered



WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-7	Site ID:	5140 Site	Sample Date:	1/12/2015
Well Diameter	2 in	Sampling Event:	Groundwater Sampling		
Depth to Water	8.80 ft				
Total Well Depth	17 ft	Samplers	NTW		
Screen Length	10 ft	Weather Conditions and	32F and snowing		
Pump Intake	13 ft	Flow Rate	200.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		32 °F		Start purge:	1440	End purge:	1545	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂		
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)	
1448	8.80	3.0	8.21	7.25	0.966	176	7.36	6.02	clear	280	
1453	8.80	4.40	8.18	7.24	0.966	179	7.76	5.85	clear	280	
1458	8.80	5.80	8.51	7.23	0.964	181	6.75	5.55	clear	280	
1503	8.80	7.20	8.44	7.23	0.969	182	6.87	5.54	clear	280	
1508	8.80	8.60	8.46	7.22	0.969	183	4.80	5.51	clear	280	
1513	8.80	10.00	8.39	7.22	0.972	184	5.01	5.37	clear	280	
1518	8.80	11.40	8.44	7.22	0.971	184	4.17	5.20	clear	280	
1523	8.80	12.80	8.45	7.22	0.970	185	2.98	4.96	clear	280	
1528	8.80	14.20	8.54	7.21	0.974	185	2.17	4.90	clear	280	
1533	8.80	15.60	8.49	7.19	0.973	185	1.42	4.90	clear	280	
1538	8.80	17.00	8.5	7.20	0.974	184	1.76	4.90	clear	280	

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
2	MW-7	PCBs	none	1 Liter Amber	Accutest	3/24/04 0:00	-
2	MW-7-F	PCBs	none	1 Liter Amber	Accutest	3/18/04 0:00	Filtered



WSP USA Corp.
 5 Sullivan Street
 Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-9	Site ID:	5140 Site	Sample Date:	1/12/2015
Well Diameter	2 in	Sampling Event:	Groundwater Sampling		
Depth to Water	9.22 ft				
Total Well Depth	26.5 ft	Samplers	NTW		
Screen Length	10 ft	Weather Conditions and	32F, snowy		
Pump Intake	19 ft	Flow Rate	150.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:			32 °F	Start purge:	1305	End purge:	1455	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1305	9.22	INT	9.44	6.68	4.29	-46	832.0	2.17	cloudy	150
1310	9.22	0.75	10.42	7.57	4.25	-50	742.0	1.95	cloudy	150
1315	9.22	1.50	10.57	7.76	4.23	-84	664.0	1.70	cloudy	150
1320	9.22	2.25	10.64	7.85	4.17	-106	421.0	1.65	slightly cloudy	150
1325	9.22	3.00	10.7	7.85	4.15	-113	358.0	1.86	clear	150
1330	9.22	3.75	10.59	7.86	4.14	-119	63.4	1.65	clear	150
1335	9.22	4.50	10.64	7.89	4.11	-131	30.4	1.63	clear	150
1340	9.22	5.25	10.62	7.89	4.10	-135	16.9	1.55	clear	150
1345	9.22	6.00	10.76	7.90	4.07	-138	11.5	1.52	clear	150
1350	9.22	6.75	10.82	7.91	4.06	-139	10.7	1.50	clear	150
1355	9.22	7.50	10.69	7.93	4.07	-141	10.7	1.49	clear	150
1400	9.22	8.25	10.73	7.93	4.05	-142	8.9	1.44	clear	150
1405	9.22	9.00	10.68	7.93	4.05	-142	8.0	1.41	clear	150
1410	9.22	9.75	10.67	7.93	4.05	-142	7.13	1.42	clear	150
1415	9.22	10.50	10.54	7.95	4.04	-142	6.09	1.39	clear	150
1420	9.22	11.25	10.59	7.96	4.03	-144	5.40	1.36	clear	150
1425	9.22	12.00	10.55	7.99	4.03	-150	4.58	1.31	clear	150
1435	9.22	13.50	10.45	7.99	4.03	-151	3.61	1.29	clear	150
1445	9.22	15.00	10.52	7.99	4.03	-152	3.20	1.25	clear	150
1455	9.22	16.50	10.44	7.99	4.03	-153	3.52	1.24	clear	150

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
2	MW-9-F	PCBs	none	1 Liter Amber	Accutest	1/12/2015 15:00:00 AM	Filtered
2	MW-9	PCBs	none	1 Liter Amber	Accutest	1/12/2015 15:10:00 AM	-



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-9	Site ID:	5140 Site	Sample Date:	1/12/2015
Well Diameter	2 in	Sampling Event:	Groundwater Sampling		
Depth to Water	11.23 ft				
Total Well Depth	19.25 ft	Samplers	NTW		
Screen Length	10 ft	Weather Conditions and	Partly cloudy and snowy, 30F		
Pump Intake	17.5 ft	Flow Rate	250.00		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information
Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		30 °F		Start purge:	1620	End purge:	1715	Pump Type:	QED Sample pro w/ MP-50 or MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	T (°C)	pH	Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/l) *	Appearance of Purge Water	Flow Rate (mL/min)
1620	11.23	INT	10.02	7.32	2.38	80	2.38	1.78	Clear	250
1625	11.23	1.25	10.01	7.28	2.32	56	2.32	1.33	Clear	250
1630	11.23	2.50	9.73	7.26	2.27	39	2.27	1.19	Clear	250
1635	11.23	3.75	9.53	7.26	2.25	34	2.25	1.16	Clear	250
1640	11.23	5.00	9.27	7.25	2.23	29	2.23	1.13	Clear	250
1645	11.23	6.25	9.33	7.25	2.21	30	2.21	1.11	Clear	250
1650	11.23	7.50	9.36	7.25	2.20	30	2.20	1.09	Clear	250
1655	11.23	8.75	9.32	7.24	2.20	30	2.20	1.09	Clear	250
1700	11.23	10.00	9.31	7.24	2.20	29	2.20	1.07	Clear	250
1705	11.23	11.25	9.27	7.23	2.19	28	2.19	1.07	Clear	250
1710	11.23	12.50	9.18	7.23	2.19	26	2.19	1.07	Clear	250
1715	11.23	13.75	9.19	7.23	2.20	26	2.20	1.06	Clear	250

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
2	MW-10	PCBs	none	1 Liter Amber	Accutest	1/12/15 1720	
2	MW-10-F	PCBs	none	1 Liter Amber	Accutest	1/12/15 1730	Filtered

TO-15 Package Review Checklist

Client: WSP Project: Yorkville SDG: C1410057

		YES	NO	NA
Analytical Results	Present and Complete	/	—	—
TIC's present	Present and Complete	/	—	—
	Holding Times Met	/	—	—

Comments: _____

Chain-of-Custody	Present and Complete	/	—	—
Surrogate Recovery	Present and Complete	/	—	—
	Recoveries within limits Sample(s) reanalyzed	/	—	/
Internal Standards Recovery	Present and Complete	/	—	—
	Recoveries within limits Sample(s) reanalyzed	/	/	—

Comments: SEE CASE NARRATIVE.

Lab Control Sample (LCS)	Present and Complete	/	—	—
	Recoveries within limits	—	/	—
Lab Control Sample Dupe (LCSD)	Present and Complete	/	—	—
	Recoveries within limits	—	/	—
MS/MSD	Present and Complete	—	—	/
	Recoveries within limits	—	—	/

Comments: SEE CASE NARRATIVE.
- NO MS/MSD

Sample Raw Data	Present and Complete	/	—	—
	Spectra present for all samples	/	—	—

Comments: _____

TO-15 Package Review Checklist

Client: WSP Project: Yorkville SDG: C1410057

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	/	—	—
	Calibration(s) met criteria	/	—	—
Continuing Calibration Summary	Present and Complete	/	—	—
	Calibration(s) met criteria	/	—	—
Standards Raw Data	Present and Complete	/	—	—
Comments: _____				

Raw Quality Control Data				
Tune Criteria Report	Present and Complete	/	—	—
Method Blank Data	MB Results <PQL	/	—	—
	Associated results flagged "B"	/	—	/
LCS sample data	Present and Complete	/	—	—
LCSD sample data	Present and Complete	/	—	/
MS/MSD sample data	Present and Complete	/	—	/
Comments: _____				

Logbooks				
Injection Log	Present and Complete	/	—	—
Standards Log	Present and Complete	/	—	—
Can Cleaning Log	Present and Complete	/	—	—
	Raw Data Present	/	—	—
Calculation sheet	Present and Complete	/	—	—
IDL's	Present and Complete	/	—	—
Bottle Order Form	Present and Complete	/	—	—
Sample Tracking Form	Present and Complete	/	—	—

Additional Comments: _____

Section Supervisor: ~~Tim Stead~~ *Walt Doherty* Date: 11/18/14

QC Supervisor: ~~Walt Doherty~~ *Walt Doherty* Date: 11/18/14



CENTEK LABORATORIES, LLC

143 Midler Park Drive • Syracuse, NY 13206

Phone (315) 431-9730 • Emergency 24/7 (315) 416-2757

NYSDOH ELAP Certificate No. 11830

Analytical Report

Dave Bouchard
WSP Environment and Energy
5 Sullivan Street
Cazenovia, NY 13035

Thursday, October 23, 2014
Order No.: C1410057

TEL: (315) 655-3900

FAX: (315) 655-3907

RE: 5140 Site Yorkville, NY

Dear Dave Bouchard:

Centek Laboratories, LLC received 11 sample(s) on 10/16/2014 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

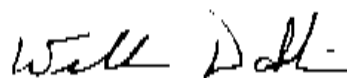
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, 4-PCH, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed

within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE

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CENTEK LABORATORIES, LLC

Date: 18-Nov-14

CLIENT: WSP Environment and Energy
Project: 5140 Site Yorkville, NY
Lab Order: C1410057

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999 and Centek Laboratories, LLC SOP TS-80:

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg ($\pm 2"$, vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg ($\pm 1"$, vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, $\pm 1"$. Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [3096] IS did not meet criteria.

See Corrective Action: [3097] IS did not meet criteria.

See Corrective Action: [3090] LCS did not meet criteria.

See Corrective Action: [3098] LCS did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 17-Oct-14

Corrective Action Report ID: 3096

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance: IS was high and did not meet criteria for sample C1410057-007 & 008. Based on the chromatographic evidence, it appears that the contamination is from a high concentration of interfering compounds

Description of Corrective Action: Sample C1411057-008 was analyzed further as dilutions with criteria being met. Sample C1411057-007 was analyzed further as dilutions with similar results. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 21-Oct-14

Client Notification

Client Notification Required: No

Notified By:

Comment:

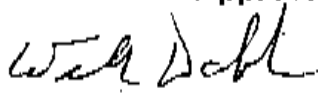
Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted.

Approval and Closure

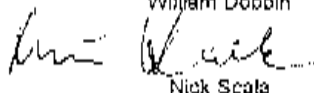
Technical Director /
Deputy Tech. Dir.:



William Dobbin

Close Date: 21-Oct-14

QA Officer Approval:



Nick Scala

QA Date: 21-Oct-14

Last Updated BY russ

Updated: 18-Nov-2014 2:50 PM

Reported: 18-Nov-2014 2:50 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 21-Oct-14
Initiated By: Russell Pellegrino

Corrective Action Report ID: 3097
Department: MSVQA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance: IS was high and did not meet criteria for sample C1410057-002, 004 & 006. Based on the chromatographic evidence, it appears that the contamination is from a high concentration of interfering compounds.

Description of Corrective Action: Samples were analyzed further as dilutions with criteria being met. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 23-Oct-14

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted.

Approval and Closure

Technical Director /
Deputy Tech. Dir.:



William Dobbin

Close Date: 24-Oct-14

QA Officer Approval:



Nick Scala

QA Date: 24-Oct-14

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 20-Oct-14

Corrective Action Report ID: 3090

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: LCS did not meet criteria.

Description of Nonconformance: ALCS1UG-102014 did not meet criteria for % recoveries for several compounds. All other QC required met criteria. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, then continue with analysis. If results continue outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 21-Oct-14

Client Notification

Client Notification Required: No

Notified By:

Comment:

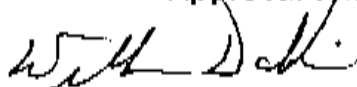
Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Make new LCS standard and perform system calibration ASAP. A new LCS standard has been ordered.

Approval and Closure

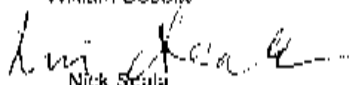
Technical Director /
Deputy Tech. Dir.:



William Dobbins

Close Date: 22-Oct-14

QA Officer Approval:



Nick Scula

OA Date: 22-Oct-14

Last Updated BY russ

Updated: 28-Oct-2014 11:59 AM

Reported: 18-Nov-2014 2:54 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 21-Oct-14

Corrective Action Report ID: 3098

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: LCS did not meet criteria.

Description of Nonconformance: ALCS1UG-102114 did not meet criteria for % recoveries for several compounds. All other QC required met criteria. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, then continue with analysis. If results continue outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 24-Oct-14

Client Notification

Client Notification Required: No

Notified By:

Comment:

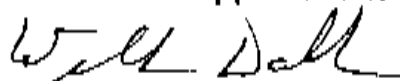
Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Make new LCS standard and perform system calibration ASAP. A new LCS standard has been ordered.

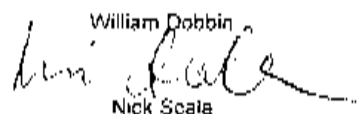
Approval and Closure

Technical Director /
Deputy Tech. Dir..



Close Date: 25-Oct-14

QA Officer Approval:

William Dobbin

Nick Scala

QA Date: 25-Oct-14

CHAIN OF CUSTODY RECORD

Project Number: <i>EE 58197-04</i>	Site and Location: <i>5140 S. Yorkville, NY</i>	Contact Name: <i>Erik Reinert</i>	Contact Email: <i>erp@group.com</i>	Sampler's Name: <i>Erik Reinert</i>	Sampler's Signature: <i>[Signature]</i>	Matrix:	Time	Date	Depth	Number of Containers	Remarks
IA-04						A	1609	10/14/14	—	1	Can # 102 Reg # 259
SS-03						A	1619	10/14/14	—	1	Can # 457 Reg # 1161
IA-03						A	1620	10/14/14	—	1	Can # 460 Reg # 262
SS-02						A	1625	10/14/14	—	1	Can. 158 Reg: 265
IA-02						A	1627	10/14/14	—	1	Can. 205 Reg: 1154
SS-01						A	1635	10/14/14	—	1	Can 1186 Reg: 405
IA-01						A	1638	10/14/14	—	1	Can. 324 Reg. 308
SS-1014						A	1630	10/14/14	—	1	Can: 233
SS-04						A	1645	10/14/14	—	1	Can: 201 Reg: 295
OA-1						A	1650	10/14/14	—	1	Can. 328 Reg: 1170
Tap Blank						A	—	10/14/14	—	1	Can: 130

N° 02693



WSP
WSP Environment & Energy

C1410057

Laboratory Name: *Centek*

Laboratory Location: *Syracuse, NY*

Custody Seal Numbers: *02 156*

Method of Shipment: *Fedex Ground*

Received by (Signature): *[Signature]* Date I Time: *10/14/14 1330*

Received by (Signature): *[Signature]* Date I Time: *10-16-14 1330*

Tracking Number: *7702 7175 49460*

Turn-Around Time: *Standard*

- Denver Office: 4600 South Clster, #930, Denver, CO 80237 / Tel: 303-850-9290
- Minneapolis Office: 123 North 3rd St., #638, Minneapolis, MN 55401 / Tel: 612-343-0510
- Boxborough Office: 749 Massachusetts Ave., Boxborough, MA 01719 / Tel: 978-635-9500
- Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900



CENTEK LABORATORIES, LLC

Date: 18-Nov-14

CLIENT: WSP Environment and Energy
Project: 5140 Site Yorkville, NY
Lab Order: C1410057

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1410057-001A	IA-04	102,259	10/14/2014	10/16/2014
C1410057-002A	SS-03	457,1161	10/14/2014	10/16/2014
C1410057-003A	IA-03	460,262	10/14/2014	10/16/2014
C1410057-004A	SS-02	158,265	10/14/2014	10/16/2014
C1410057-005A	IA-02	205,1154	10/14/2014	10/16/2014
C1410057-006A	SS-01	1186,405	10/14/2014	10/16/2014
C1410057-007A	IA-01	324,308	10/14/2014	10/16/2014

CLIENT: WSP Environment and Energy
Project: 5140 Site Yorkville, NY
Lab Order: C1410057

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1410057-008A	SS-1014	233	10/14/2014	10/16/2014
C1410057-009A	SS-01	201,295	10/14/2014	10/16/2014
C1410057-010A	QA-1	328,1170	10/14/2014	10/16/2014
C1410057-011A	Trip Blank	130	10/14/2014	10/16/2014



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name **WSP - CAZENOVIA**

Date and Time Receive

10/16/2014

Work Order Number **C1410057**

Received by **JDS**

Checklist completed by

[Handwritten Signature]

10-16-14

Reviewed by

[Handwritten Initials]

10/16/14

Signature

Date

Initials

Date

Matrix:

Carrier name: FedEx Ground

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- 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

Adjusted?

Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

18-Nov-14

Centek Laboratories, LLC

Lab Order: C1410057
 Client: WSP Environment and Energy
 Project: 5140 Site Yorkville, NY

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TC/CP Date	Prep Date	Analysis Date
C1410057-001A	IA-04	10/14/2014	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/18/2014
C1410057-002A	SS-05			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/17/2014
C1410057-003A	IA-03			1ug/M3 by Method TO15			10/21/2014
C1410057-004A	SS-02			1ug/M3 by Method TO15			10/21/2014
C1410057-005A	SS-02			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/17/2014
C1410057-006A	SS-01			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/17/2014
C1410057-007A	IA-03			1ug/M3 by Method TO15			10/22/2014
C1410057-008A	SS-1034			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/17/2014
C1410057-009A	SS-05			1ug/M3 by Method TO15			10/17/2014
C1410057-010A	QA-1			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/17/2014
C1410057-011A	Trip Blank			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			10/17/2014

CANISTER ORDER



CEN TEK LABORATORIES, LLC

An Analytical Testing & Services

143 Midler Park Drive * Syracuse, NY 13206
 TEL: 315-431-9730 * FAX: 315-431-9731

4638

17-Nov-14

SHIPPED TO:

Company: WSP Environment and Energy
 Contact: Erik Reinert
 Address: 5 Sullivan Street
 Cazenovia, NY 13035
 Phone: (315) 655-3900
 Quote ID: 0
 Project: PQ

Submitted By:

MadeBy: rjp
 Ship Date: 10/10/2014
 VIA: Pick Up
 Due Date: 10/10/2014

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	13

Can / Reg ID	Description
102	1L Mini-Can - 1084 VI
130	1L Mini-Can - 1078 VI
158	1L Mini-Can - 1128 VI
178	Time-Set Reg - 665 VI
192	1L Mini-Can - 1147 VI
201	1L Mini-Can - 1156 VI
205	1L Mini-Can - 1160 VI
233	1L Mini-Can - 1164 VI
259	Time-Set Reg - 697 VI
262	Time-Set Reg - 700 VI
285	Time-Set Reg - 703 VI
295	Time-Set Reg - 718 VI
308	Time-Set Reg - 809R VI
324	1L Mini-Can - 1287 VI
328	1L Mini-Can - 1291 VI
405	Time-Set Reg - 784 VI
457	1L Mini-Can - 1360 VI
460	1L Mini-Can - 1363 VI
1152	Time-Set Reg-0744 VI
1154	Time-Set Reg-0680 VI
1161	Time-Set Reg-0674 VI
1170	Time-Set Reg-0705 VI
1182	1L Mini-Can - 1237 VI
1186	1L Mini-Can - 1235 VI

Comments: 11 @ 8hrs + dupe + TB + Full He setup + Helium + Clay and 20' tubing wac 092314d-f; 092514 d-f

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-001A

Client Sample ID: IA-04
 Tag Number: 102,259
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TQ-15		Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 11	0.30	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 12	0.54	0.15		ppbV	1	10/17/2014 5:20:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	10/17/2014 5:20:00 PM
m&p-Xylene	0.26	0.30	J	ppbV	1	10/17/2014 5:20:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:20:00 PM
Methyl Ethyl Ketone	0.35	0.30		ppbV	1	10/17/2014 5:20:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:20:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Toluene	0.22	0.15		ppbV	1	10/17/2014 5:20:00 PM
trans-1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 5:20:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 5:20:00 PM
Surr: Bromofluorobenzene	85.0	70-130		%REC	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-001A

Client Sample ID: IA-04
Tag Number: 102,259
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:20:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:20:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:20:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:20:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 5:20:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 5:20:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 5:20:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 5:20:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 5:20:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 5:20:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 5:20:00 PM
Acetone	13	3.6		ug/m3	5	10/16/2014 12:19:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 5:20:00 PM
Benzene	0.38	0.48	J	ug/m3	1	10/17/2014 5:20:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 5:20:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 5:20:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 5:20:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 5:20:00 PM
Carbon tetrachloride	0.63	0.26		ug/m3	1	10/17/2014 5:20:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 5:20:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 5:20:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 5:20:00 PM
Chloromethane	0.95	0.31		ug/m3	1	10/17/2014 5:20:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:20:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:20:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 5:20:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 5:20:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 5:20:00 PM
Freon 11	1.7	0.84		ug/m3	1	10/17/2014 5:20:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 5:20:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-001A

Client Sample ID: 1A-04
 Tag Number: 102,259
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: RJP
Freon 12	2.7	0.74		ug/m3	1	10/17/2014 5:20:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 5:20:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 5:20:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 5:20:00 PM
Isopropyl alcohol	3.3	0.37		ug/m3	1	10/17/2014 5:20:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	10/17/2014 5:20:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:20:00 PM
Methyl Ethyl Ketone	1.0	0.88		ug/m3	1	10/17/2014 5:20:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:20:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 5:20:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/17/2014 5:20:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	10/17/2014 5:20:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 5:20:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 5:20:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 5:20:00 PM
Toluene	0.83	0.57		ug/m3	1	10/17/2014 5:20:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:20:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:20:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 5:20:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 5:20:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 5:20:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 I Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-002A

Client Sample ID: SS-03
 Tag Number: 457,1161
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		Analyst: 10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
				TO-15		Analyst: RJP
1,1,1-Trichloroethane	1.3	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2,4-Trichlorobenzene	0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2014 3:34:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
4 ethyltoluene	0.19	0.15		ppbV	1	10/21/2014 3:34:00 AM
Acetone	200	48		ppbV	150	10/21/2014 11:40:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Benzene	1.1	0.15		ppbV	1	10/21/2014 3:34:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Carbon disulfide	3.6	1.5		ppbV	10	10/21/2014 6:37:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Cyclohexane	0.96	0.15		ppbV	1	10/21/2014 3:34:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-002A

Client Sample ID: SS-03
 Tag Number: 457,1161
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Ethylbenzene	1.3	0.15		ppbV	1	10/21/2014 3:34:00 AM
Freon 11	69	24		ppbV	160	10/21/2014 11:40:00 PM
Freon 113	0.69	0.15		ppbV	1	10/21/2014 3:34:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Freon 12	0.58	0.15		ppbV	1	10/21/2014 3:34:00 AM
Heptane	1.9	1.5		ppbV	10	10/21/2014 6:37:00 AM
1,1-dichloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Hexane	2.7	1.5		ppbV	10	10/21/2014 6:37:00 AM
Isopropyl alcohol	5.5	1.5		ppbV	10	10/21/2014 6:37:00 AM
m&p-Xylene	2.8	3.0	J	ppbV	10	10/21/2014 6:37:00 AM
Methyl Butyl Ketone	0.66	0.30		ppbV	1	10/21/2014 3:34:00 AM
Methyl Ethyl Ketone	2.5	3.0	J	ppbV	10	10/21/2014 6:37:00 AM
Methyl Isobutyl Ketone	0.47	0.30		ppbV	1	10/21/2014 3:34:00 AM
Methyl tert-butyl ether	1.2	0.15		ppbV	1	10/21/2014 3:34:00 AM
Methylene chloride	0.13	0.15	J	ppbV	1	10/21/2014 3:34:00 AM
o-Xylene	0.96	0.15		ppbV	1	10/21/2014 3:34:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Styrene	0.37	0.15		ppbV	1	10/21/2014 3:34:00 AM
Tetrachloroethylene	6.6	1.5		ppbV	10	10/21/2014 6:37:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Toluene	2.7	1.5		ppbV	10	10/21/2014 6:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Trichloroethene	1.1	0.15		ppbV	1	10/21/2014 3:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Surr: Bromofluorobenzene	111	70-130		%REC	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-002A

Client Sample ID: SS-03
 Tag Number: 457,1161
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	7.0	0.82		ug/m3	1	10/21/2014 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2014 3:34:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/21/2014 3:34:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 3:34:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 3:34:00 AM
1,2,4-Trichlorobenzene	1.1	1.1		ug/m3	1	10/21/2014 3:34:00 AM
1,2,4-Trimethylbenzene	6.7	0.74		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/21/2014 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/21/2014 3:34:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/21/2014 3:34:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2014 3:34:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/21/2014 3:34:00 AM
4-ethyltoluene	0.93	0.74		ug/m3	1	10/21/2014 3:34:00 AM
Acetone	460	110		ug/m3	160	10/21/2014 11:40:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/21/2014 3:34:00 AM
Benzene	3.6	0.48		ug/m3	1	10/21/2014 3:34:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/21/2014 3:34:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2014 3:34:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2014 3:34:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	10/21/2014 3:34:00 AM
Carbon disulfide	11	4.7		ug/m3	10	10/21/2014 6:37:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/21/2014 3:34:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/21/2014 3:34:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2014 3:34:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	10/21/2014 3:34:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2014 3:34:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	10/21/2014 3:34:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 3:34:00 AM
Cyclohexane	3.3	0.52		ug/m3	1	10/21/2014 3:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2014 3:34:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
Ethylbenzene	5.8	0.65		ug/m3	1	10/21/2014 3:34:00 AM
Freon 11	390	130		ug/m3	160	10/21/2014 11:40:00 PM
Freon 113	5.3	1.1		ug/m3	1	10/21/2014 3:34:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-002A

Client Sample ID: SS-03
Tag Number: 457,1161
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1 UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.9	0.74		ug/m3	1	10/21/2014 3:34:00 AM
Heptane	7.8	6.1		ug/m3	10	10/21/2014 6:37:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2014 3:34:00 AM
Hexane	9.5	5.3		ug/m3	10	10/21/2014 6:37:00 AM
Isopropyl alcohol	14	3.7		ug/m3	10	10/21/2014 6:37:00 AM
m&p Xylene	12	13	J	ug/m3	10	10/21/2014 6:37:00 AM
Methyl Butyl Ketone	2.7	1.2		ug/m3	1	10/21/2014 3:34:00 AM
Methyl Ethyl Ketone	7.4	8.8	J	ug/m3	10	10/21/2014 6:37:00 AM
Methyl Isobutyl Ketone	1.9	1.2		ug/m3	1	10/21/2014 3:34:00 AM
Methyl tert-butyl ether	4.4	0.54		ug/m3	1	10/21/2014 3:34:00 AM
Methylene chloride	0.45	0.52	J	ug/m3	1	10/21/2014 3:34:00 AM
o-Xylene	4.2	0.65		ug/m3	1	10/21/2014 3:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2014 3:34:00 AM
Styrene	1.6	0.64		ug/m3	1	10/21/2014 3:34:00 AM
Tetrachloroethylene	45	10		ug/m3	10	10/21/2014 6:37:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/21/2014 3:34:00 AM
Toluene	10	5.7		ug/m3	10	10/21/2014 6:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 3:34:00 AM
trans-1,3-Dichloropropene	< 0.66	0.66		ug/m3	1	10/21/2014 3:34:00 AM
Trichloroethene	5.9	0.81		ug/m3	1	10/21/2014 3:34:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/21/2014 3:34:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/21/2014 3:34:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-11			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2,4-Trimethylbenzene	0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 5:59:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Acetone	8.4	1.5		ppbV	5	10/18/2014 12:55:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Benzene	0.14	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	10/17/2014 5:59:00 PM
Chlorobenzene	0.10	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Chloromethane	0.49	0.15		ppbV	1	10/17/2014 5:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 11	0.33	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 12	0.57	0.15		ppbV	1	10/17/2014 5:59:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Isopropyl alcohol	1.8	0.15		ppbV	1	10/17/2014 5:59:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl Ethyl Ketone	0.45	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Methylene chloride	0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
o-Xylene	0.12	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Toluene	0.42	0.15		ppbV	1	10/17/2014 5:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Trichloroethene	0.050	0.040		ppbV	1	10/17/2014 5:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 5:59:00 PM
Surf: Bromofluorobenzene	85.0	70-130		%REC	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						Analyst: RJP
			TO-15			
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:59:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 5:59:00 PM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dibromoothane	< 1.2	1.2		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 5:59:00 PM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	10/17/2014 5:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 5:59:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 5:59:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 5:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 5:59:00 PM
Acetone	20	3.6		ug/m3	5	10/18/2014 12:55:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 5:59:00 PM
Benzene	0.45	0.48	J	ug/m3	1	10/17/2014 5:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 5:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 5:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 5:59:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 5:59:00 PM
Carbon tetrachloride	< 0.25	0.25		ug/m3	1	10/17/2014 5:59:00 PM
Chlorobenzene	0.46	0.69	J	ug/m3	1	10/17/2014 5:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 5:59:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 5:59:00 PM
Chloromethane	1.0	0.31		ug/m3	1	10/17/2014 5:59:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:59:00 PM
cis-1,3-Dichloropropane	< 0.68	0.68		ug/m3	1	10/17/2014 5:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 5:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 5:59:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 5:59:00 PM
Freon 11	1.9	0.64		ug/m3	1	10/17/2014 5:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 5:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-003A

Client Sample ID: 1A-03
Tag Number: 460,262
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	10/17/2014 5:59:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 5:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 5:59:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 5:59:00 PM
Isopropyl alcohol	4.3	0.37		ug/m3	1	10/17/2014 5:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	10/17/2014 5:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:59:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	10/17/2014 5:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 5:59:00 PM
Methylene chloride	0.52	0.52		ug/m3	1	10/17/2014 5:59:00 PM
o-Xylene	0.52	0.65	J	ug/m3	1	10/17/2014 5:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 5:59:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 5:59:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 5:59:00 PM
Toluene	1.6	0.57		ug/m3	1	10/17/2014 5:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:59:00 PM
1,1-dichloroethene	0.27	0.21		ug/m3	1	10/17/2014 5:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 5:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 5:59:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-004A

Client Sample ID: SS-02
Tag Number: 158,265
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
				FLD		Analyst:
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
				TO-15		Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1,2 Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2,4-Trichlorobenzene	0.85	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2,4-Trimethylbenzene	2.6	1.5		ppbV	10	10/21/2014 7:12:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,4-Dichlorobenzene	0.29	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2014 4:12:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
4-ethyltoluene	0.34	0.15		ppbV	1	10/21/2014 4:12:00 AM
Acetone	200	190		ppbV	640	10/22/2014 12:53:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Benzene	1.1	0.15		ppbV	1	10/21/2014 4:12:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Carbon disulfide	6.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chloromethane	0.27	0.15		ppbV	1	10/21/2014 4:12:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
cis-1,3-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Ethyl acetate	0.17	0.25	J	ppbV	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-004A

Client Sample ID: SS-02
 Tag Number: 158,265
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	4.3	1.5		ppbV	10	10/21/2014 7:12:00 AM
Freon 11	7.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
Freon 113	0.13	0.15	J	ppbV	1	10/21/2014 4:12:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Freon 12	1.3	0.15		ppbV	1	10/21/2014 4:12:00 AM
Heptane	1.5	1.5		ppbV	10	10/21/2014 7:12:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Hexane	1.9	1.5		ppbV	10	10/21/2014 7:12:00 AM
Isopropyl alcohol	7.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
m&p Xylene	14	3.0		ppbV	10	10/21/2014 7:12:00 AM
Methyl Butyl Ketone	1.4	3.0	J	ppbV	10	10/21/2014 7:12:00 AM
Methyl Ethyl Ketone	3.7	3.0		ppbV	10	10/21/2014 7:12:00 AM
Methyl Isobutyl Ketone	0.89	0.30		ppbV	1	10/21/2014 4:12:00 AM
Methyl tert-butyl ether	1.2	0.15		ppbV	1	10/21/2014 4:12:00 AM
Methylene chloride	0.12	0.15	J	ppbV	1	10/21/2014 4:12:00 AM
o-Xylene	2.6	1.5		ppbV	10	10/21/2014 7:12:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Styrene	0.64	0.15		ppbV	1	10/21/2014 4:12:00 AM
Tetrachloroethylene	1.2	0.15		ppbV	1	10/21/2014 4:12:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Toluene	2.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Trichloroethene	0.18	0.15		ppbV	1	10/21/2014 4:12:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Surr. Bromofluorobenzene	123	70-130		%REC	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-004A

Client Sample ID: SS-02
Tag Number: 158,265
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	1.8	0.82		ug/m3	1	10/21/2014 4:12:00 AM
1,1,1,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:12:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/21/2014 4:12:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:12:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:12:00 AM
1,2,4-Trichlorobenzene	6.3	1.1		ug/m3	1	10/21/2014 4:12:00 AM
1,2,4-Trimethylbenzene	13	7.4		ug/m3	10	10/21/2014 7:12:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2014 4:12:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:12:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:12:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/21/2014 4:12:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/21/2014 4:12:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/21/2014 4:12:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:12:00 AM
1,4-Dichlorobenzene	1.7	0.90		ug/m3	1	10/21/2014 4:12:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2014 4:12:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/21/2014 4:12:00 AM
4-ethyltoluene	1.7	0.74		ug/m3	1	10/21/2014 4:12:00 AM
Acetone	470	450		ug/m3	640	10/22/2014 12:53:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/21/2014 4:12:00 AM
Benzene	3.6	0.48		ug/m3	1	10/21/2014 4:12:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/21/2014 4:12:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:12:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2014 4:12:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	10/21/2014 4:12:00 AM
Carbon disulfide	20	4.7		ug/m3	10	10/21/2014 7:12:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/21/2014 4:12:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/21/2014 4:12:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2014 4:12:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	10/21/2014 4:12:00 AM
Chloromethane	0.56	0.31		ug/m3	1	10/21/2014 4:12:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	10/21/2014 4:12:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:12:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2014 4:12:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2014 4:12:00 AM
Ethyl acetate	0.61	0.90	J	ug/m3	1	10/21/2014 4:12:00 AM
Ethylbenzene	19	6.5		ug/m3	10	10/21/2014 7:12:00 AM
Freon 11	42	6.4		ug/m3	10	10/21/2014 7:12:00 AM
Freon 113	1.0	1.1	J	ug/m3	1	10/21/2014 4:12:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Residue reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-001A

Client Sample ID: SS-02
 Tag Number: 158,265
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	6.4	0.74		ug/m3	1	10/21/2014 4:12:00 AM
Heptane	6.1	6.1		ug/m3	10	10/21/2014 7:12:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2014 4:12:00 AM
Hexane	6.7	5.3		ug/m3	10	10/21/2014 7:12:00 AM
Isopropyl alcohol	18	3.7		ug/m3	10	10/21/2014 7:12:00 AM
m&p-Xylene	62	13		ug/m3	10	10/21/2014 7:12:00 AM
Methyl Butyl Ketone	5.7	12	J	ug/m3	10	10/21/2014 7:12:00 AM
Methyl Ethyl Ketone	11	8.8		ug/m3	10	10/21/2014 7:12:00 AM
Methyl Isobutyl Ketone	3.6	1.2		ug/m3	1	10/21/2014 4:12:00 AM
Methyl tert-butyl ether	4.5	0.54		ug/m3	1	10/21/2014 4:12:00 AM
Methylene chloride	0.42	0.52	J	ug/m3	1	10/21/2014 4:12:00 AM
o-Xylene	11	6.5		ug/m3	10	10/21/2014 7:12:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2014 4:12:00 AM
Styrene	2.7	0.64		ug/m3	1	10/21/2014 4:12:00 AM
Tetrachloroethylene	8.3	1.0		ug/m3	1	10/21/2014 4:12:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/21/2014 4:12:00 AM
Toluene	9.0	5.7		ug/m3	10	10/21/2014 7:12:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:12:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:12:00 AM
Trichloroethene	0.97	0.81		ug/m3	1	10/21/2014 4:12:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/21/2014 4:12:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/21/2014 4:12:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-005A

Client Sample ID: 1A-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-8			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
				FLD		Analyst:
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2,4-Trimethylbenzene	0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 6:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Acetone	10	1.5		ppbV	5	10/18/2014 1:32:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Benzene	0.13	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Carbon tetrachloride	0.10	0.040		ppbV	1	10/17/2014 6:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Chloromethane	0.57	0.15		ppbV	1	10/17/2014 6:36:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31 Oct 14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-005A

Client Sample ID: 1A-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 11	0.33	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 12	0.56	0.15		ppbV	1	10/17/2014 6:36:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Isopropyl alcohol	0.85	0.15		ppbV	1	10/17/2014 6:36:00 PM
m&p-Xylene	0.29	0.30	J	ppbV	1	10/17/2014 6:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 6:36:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	10/17/2014 6:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 6:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Toluene	0.23	0.15		ppbV	1	10/17/2014 6:36:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 6:36:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 6:36:00 PM
Surf: Bromofluorobenzene	85.0	70 130		%REC	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-005A

Client Sample ID: IA-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 6:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 6:36:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 6:36:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 6:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 6:36:00 PM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 6:36:00 PM
1,3,5-Trimethylbenzene	0.59	0.74	J	ug/m3	1	10/17/2014 6:36:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 6:36:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 6:36:00 PM
2,2,4-Trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 6:36:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 6:36:00 PM
Acetone	24	3.6		ug/m3	5	10/18/2014 1:32:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 6:36:00 PM
Benzene	0.42	0.48	J	ug/m3	1	10/17/2014 6:36:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 6:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 6:36:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 6:36:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 6:36:00 PM
Carbon tetrachloride	0.63	0.25		ug/m3	1	10/17/2014 6:36:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 6:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 6:36:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 6:36:00 PM
Chloromethane	1.2	0.31		ug/m3	1	10/17/2014 6:36:00 PM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	10/17/2014 6:36:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 6:36:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 6:36:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 6:36:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
Ethylbenzene	< 0.85	0.85		ug/m3	1	10/17/2014 6:36:00 PM
Freon 11	1.9	0.84		ug/m3	1	10/17/2014 6:36:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 6:36:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-005A

Client Sample ID: 1A-02
Tag Number: 205,1154
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	10/17/2014 6:36:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 6:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 6:36:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 6:36:00 PM
Isopropyl alcohol	2.1	0.37		ug/m3	1	10/17/2014 6:36:00 PM
m&p-Xylene	1.3	1.3	J	ug/m3	1	10/17/2014 6:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 6:36:00 PM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	10/17/2014 6:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 6:36:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 6:36:00 PM
Methylene chloride	0.45	0.52	J	ug/m3	1	10/17/2014 6:36:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	10/17/2014 6:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 6:36:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 6:36:00 PM
tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 6:36:00 PM
Toluene	0.87	0.57		ug/m3	1	10/17/2014 6:36:00 PM
trans-1,2-Dichloroethene	< 0.69	0.69		ug/m3	1	10/17/2014 6:36:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 6:36:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 6:36:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 6:36:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 6:36:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-006A

Client Sample ID: SS-01
Tag Number: 1186,405
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-7			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	0.10	0.15	J	ppbV	1	10/21/2014 4:50:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2,4-Trimethylbenzene	0.92	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,3,5-Trimethylbenzene	0.40	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,4-Dichlorobenzene	0.16	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2014 4:50:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
4-ethyltoluene	0.21	0.15		ppbV	1	10/21/2014 4:50:00 AM
Acetone	280	100		ppbV	640	10/22/2014 1:29:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Benzene	0.87	0.15		ppbV	1	10/21/2014 4:50:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Carbon disulfide	3.6	1.5		ppbV	10	10/21/2014 7:48:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chloroform	0.45	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Cyclohexane	1.1	0.15		ppbV	1	10/21/2014 4:50:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 I Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-006A

Client Sample ID: SS-01
 Tag Number: 1186,405
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Ethylbenzene	0.68	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 11	0.33	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 12	0.69	0.15		ppbV	1	10/21/2014 4:50:00 AM
Heptane	2.1	1.5		ppbV	10	10/21/2014 7:48:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Hexane	4.0	1.5		ppbV	10	10/21/2014 7:48:00 AM
Isopropyl alcohol	4.7	1.5		ppbV	10	10/21/2014 7:48:00 AM
m&p-Xylene	3.0	0.30		ppbV	1	10/21/2014 4:50:00 AM
Methyl Butyl Ketone	0.42	0.30		ppbV	1	10/21/2014 4:50:00 AM
Methyl Ethyl Ketone	2.8	3.0	J	ppbV	10	10/21/2014 7:48:00 AM
Methyl Isobutyl Ketone	0.60	0.30		ppbV	1	10/21/2014 4:50:00 AM
Methyl tert-butyl ether	1.4	0.15		ppbV	1	10/21/2014 4:50:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
o-Xylene	0.66	0.15		ppbV	1	10/21/2014 4:50:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Styrene	0.33	0.15		ppbV	1	10/21/2014 4:50:00 AM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	10/21/2014 4:50:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Toluene	2.8	1.5		ppbV	10	10/21/2014 7:48:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Trichloroethene	0.17	0.15		ppbV	1	10/21/2014 4:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Surr: Bromofluorobenzene	107	70-130		%REC	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-006A

Client Sample ID: SS-01
 Tag Number: 1186,405
 Collection Date: 10/14/2014
 Matrix: ATR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.55	0.82	J	ug/m3	1	10/21/2014 4:50:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:50:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/21/2014 4:50:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:50:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:50:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2014 4:50:00 AM
1,2,4-Trimethylbenzene	4.5	0.74		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dibromopropane	< 1.2	1.2		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/21/2014 4:50:00 AM
1,3,5-Trimethylbenzene	2.0	0.74		ug/m3	1	10/21/2014 4:50:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/21/2014 4:50:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:50:00 AM
1,4-Dichlorobenzene	0.96	0.90		ug/m3	1	10/21/2014 4:50:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2014 4:50:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/21/2014 4:50:00 AM
4-ethyltoluene	1.0	0.74		ug/m3	1	10/21/2014 4:50:00 AM
Acetone	650	450		ug/m3	640	10/22/2014 1:29:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/21/2014 4:50:00 AM
Benzene	2.8	0.48		ug/m3	1	10/21/2014 4:50:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/21/2014 4:50:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:50:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2014 4:50:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	10/21/2014 4:50:00 AM
Carbon disulfide	11	4.7		ug/m3	10	10/21/2014 7:48:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/21/2014 4:50:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/21/2014 4:50:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2014 4:50:00 AM
Chloroform	2.2	0.73		ug/m3	1	10/21/2014 4:50:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2014 4:50:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	10/21/2014 4:50:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:50:00 AM
Cyclohexane	3.6	0.52		ug/m3	1	10/21/2014 4:50:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2014 4:50:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/21/2014 4:50:00 AM
Ethylbenzene	3.0	0.65		ug/m3	1	10/21/2014 4:50:00 AM
Freon 11	1.9	0.84		ug/m3	1	10/21/2014 4:50:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	10/21/2014 4:50:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-006A

Client Sample ID: SS-01
 Tag Number: 1186,405
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.4	0.74		ug/m3	1	10/21/2014 4:50:00 AM
Heptane	8.6	6.1		ug/m3	10	10/21/2014 7:48:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2014 4:50:00 AM
Hexane	14	5.3		ug/m3	10	10/21/2014 7:48:00 AM
Isopropyl alcohol	12	3.7		ug/m3	10	10/21/2014 7:48:00 AM
m&p-Xylene	13	1.3		ug/m3	1	10/21/2014 4:50:00 AM
Methyl Butyl Ketone	1.7	1.2		ug/m3	1	10/21/2014 4:50:00 AM
Methyl Ethyl Ketone	8.3	8.8	J	ug/m3	10	10/21/2014 7:48:00 AM
Methyl Isobutyl Ketone	2.5	1.2		ug/m3	1	10/21/2014 4:50:00 AM
Methyl tert-butyl ether	4.9	0.54		ug/m3	1	10/21/2014 4:50:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/21/2014 4:50:00 AM
o-Xylene	2.9	0.65		ug/m3	1	10/21/2014 4:50:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2014 4:50:00 AM
Styrene	1.4	0.64		ug/m3	1	10/21/2014 4:50:00 AM
Tetrachloroethylene	0.81	1.0	J	ug/m3	1	10/21/2014 4:50:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/21/2014 4:50:00 AM
Toluene	11	5.7		ug/m3	10	10/21/2014 7:48:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:50:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:50:00 AM
Trichloroethene	0.91	0.81		ug/m3	1	10/21/2014 4:50:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/21/2014 4:50:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/21/2014 4:50:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: IA-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 7:13:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Acetone	10	1.5		ppbV	5	10/18/2014 2:08:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Benzene	0.13	0.15	J	ppbV	1	10/17/2014 7:13:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Carbon tetrachloride	0.090	0.040		ppbV	1	10/17/2014 7:13:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Chloromethane	0.54	0.15		ppbV	1	10/17/2014 7:13:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
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 S Spike Recovery outside accepted recovery limits

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 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: 1A-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 11	0.33	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 12	0.58	0.15		ppbV	1	10/17/2014 7:13:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Isopropyl alcohol	1.0	0.15		ppbV	1	10/17/2014 7:13:00 PM
m&p-Xylene	0.27	0.30	J	ppbV	1	10/17/2014 7:13:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 7:13:00 PM
Methyl Ethyl Ketone	0.34	0.30		ppbV	1	10/17/2014 7:13:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 7:13:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
o Xylene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Toluene	0.24	0.15		ppbV	1	10/17/2014 7:13:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 7:13:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 7:13:00 PM
Surr. Bromofluorobenzene	83.0	70-130		%REC	1	10/17/2014 7:13:00 PM

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 B Analyte detected in the associated Method Blank
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 S Spike Recovery outside accepted recovery limits

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Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: IA-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT.TCE-VC				TO-15		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 7:13:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 7:13:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 7:13:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 7:13:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 7:13:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 7:13:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 7:13:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 7:13:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 7:13:00 PM
2,2,4-Trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 7:13:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 7:13:00 PM
Acetone	24	3.6		ug/m3	5	10/18/2014 2:08:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 7:13:00 PM
Benzene	0.42	0.46	J	ug/m3	1	10/17/2014 7:13:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 7:13:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 7:13:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 7:13:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 7:13:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	10/17/2014 7:13:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 7:13:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 7:13:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 7:13:00 PM
Chloromethane	1.1	0.31		ug/m3	1	10/17/2014 7:13:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 7:13:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 7:13:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 7:13:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 7:13:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 7:13:00 PM
Freon 11	1.9	0.84		ug/m3	1	10/17/2014 7:13:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 7:13:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: IA-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.9	0.74		ug/m3	1	10/17/2014 7:13:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 7:13:00 PM
Hexachloro-1,3-butadione	< 1.6	1.6		ug/m3	1	10/17/2014 7:13:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 7:13:00 PM
Isopropyl alcohol	2.5	0.37		ug/m3	1	10/17/2014 7:13:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	10/17/2014 7:13:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 7:13:00 PM
Methyl Ethyl Ketone	1.0	0.88		ug/m3	1	10/17/2014 7:13:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 7:13:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 7:13:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/17/2014 7:13:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	10/17/2014 7:13:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 7:13:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 7:13:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 7:13:00 PM
Toluene	0.90	0.57		ug/m3	1	10/17/2014 7:13:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 7:13:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 7:13:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 7:13:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 7:13:00 PM
Vinyl Bromide	< 0.68	0.68		ug/m3	1	10/17/2014 7:13:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
				TO-15		Analyst: RJP
1,1,1-Trichloroethane	2.4	1.5		ppbV	10	10/18/2014 4:45:00 AM
1,1,2,2 Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2,4 Trimethylbenzene	3.4	1.5		ppbV	10	10/18/2014 4:45:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 9:50:00 PM
2,2,4-trimethylpentane	0.47	0.15		ppbV	1	10/17/2014 9:50:00 PM
4-ethyltoluene	1.3	0.15		ppbV	1	10/17/2014 9:50:00 PM
Acetone	1100	240		ppbV	810	10/21/2014 5:26:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Benzene	3.4	1.5		ppbV	10	10/18/2014 4:45:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Carbon disulfide	2.9	1.5		ppbV	10	10/18/2014 4:45:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chloroethane	0.18	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chloroform	0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Cyclohexane	2.7	1.5		ppbV	10	10/18/2014 4:45:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.8	0.15		ppbV	1	10/17/2014 9:50:00 PM
Freon 11	2.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Freon 113	0.10	0.15	J	ppbV	1	10/17/2014 9:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Freon 12	0.46	0.15		ppbV	1	10/17/2014 9:50:00 PM
Heptane	4.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Hexane	5.1	1.5		ppbV	10	10/18/2014 4:45:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
m&p-Xylene	5.0	3.0		ppbV	10	10/18/2014 4:45:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 9:50:00 PM
Methyl Ethyl Ketone	4.7	3.0		ppbV	10	10/18/2014 4:45:00 AM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	10/17/2014 9:50:00 PM
Methyl tert-butyl ether	2.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Methylene chloride	0.16	0.15		ppbV	1	10/17/2014 9:50:00 PM
o-Xylene	1.3	0.15		ppbV	1	10/17/2014 9:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Styrene	1.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Tetrachloroethylene	10	1.5		ppbV	10	10/18/2014 4:45:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Toluene	6.2	1.5		ppbV	10	10/18/2014 4:45:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Trichloroethene	3.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	13	8.2		ug/m3	10	10/18/2014 4:45:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 9:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 9:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 9:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 9:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 9:50:00 PM
1,2,4-Trimethylbenzene	17	7.4		ug/m3	10	10/18/2014 4:45:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 9:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 9:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 9:50:00 PM
1,3,5-Trimethylbenzene	8.2	0.74		ug/m3	1	10/17/2014 9:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 9:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 9:50:00 PM
2,2,4-Trimethylpentane	2.2	0.70		ug/m3	1	10/17/2014 9:50:00 PM
4-ethyltoluene	6.3	0.74		ug/m3	1	10/17/2014 9:50:00 PM
Acetone	2600	570		ug/m3	810	10/21/2014 5:25:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 9:50:00 PM
Benzene	11	4.8		ug/m3	10	10/18/2014 4:45:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 9:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 9:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 9:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 9:50:00 PM
Carbon disulfide	9.0	4.7		ug/m3	10	10/18/2014 4:45:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/17/2014 9:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 9:50:00 PM
Chloroethane	0.42	0.40		ug/m3	1	10/17/2014 9:50:00 PM
Chloroform	0.73	0.73		ug/m3	1	10/17/2014 9:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/17/2014 9:50:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 9:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 9:50:00 PM
Cyclohexane	9.3	5.2		ug/m3	10	10/18/2014 4:45:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 9:50:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
Ethylbenzene	7.7	0.65		ug/m3	1	10/17/2014 9:50:00 PM
Freon 11	15	8.4		ug/m3	10	10/18/2014 4:45:00 AM
Freon 113	0.77	1.1	J	ug/m3	1	10/17/2014 9:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 D Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-008A

Client Sample ID: SS-1014
Tag Number: 233
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15						Analyst: RJP
Freon 12	2.3	0.74		ug/m3	1	10/17/2014 9:50:00 PM
Heptane	19	6.1		ug/m3	10	10/18/2014 4:45:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 9:50:00 PM
Hexane	18	5.3		ug/m3	10	10/18/2014 4:45:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/17/2014 9:50:00 PM
m&p-Xylene	22	13		ug/m3	10	10/18/2014 4:45:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 9:50:00 PM
Methyl Ethyl Ketone	14	8.8		ug/m3	10	10/18/2014 4:45:00 AM
Methyl Isobutyl Ketone	6.7	1.2		ug/m3	1	10/17/2014 9:50:00 PM
Methyl tert-butyl ether	9.4	5.4		ug/m3	10	10/18/2014 4:45:00 AM
Methylene chloride	0.56	0.52		ug/m3	1	10/17/2014 9:50:00 PM
o-Xylene	5.5	0.65		ug/m3	1	10/17/2014 9:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 9:50:00 PM
Styrene	6.8	6.4		ug/m3	10	10/18/2014 4:45:00 AM
Tetrachloroethylene	69	10		ug/m3	10	10/18/2014 4:45:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 9:50:00 PM
Toluene	23	5.7		ug/m3	10	10/18/2014 4:45:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 9:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 9:50:00 PM
Trichloroethene	19	8.1		ug/m3	10	10/18/2014 4:45:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 9:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 9:50:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-009A

Client Sample ID: SS-04
Tag Number: 201,295
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		Analyst: 10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
				FLD		Analyst: RJP
1,1,1-Trichloroethane	2.4	1.5		ppbV	10	10/18/2014 5:57:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2,4-Trimethylbenzene	3.8	1.5		ppbV	10	10/18/2014 5:57:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,3,5-Trimethylbenzene	1.7	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 10:30:00 PM
2,2,4-trimethylpentane	0.44	0.15		ppbV	1	10/17/2014 10:30:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	10/17/2014 10:30:00 PM
Acetone	810	240		ppbV	810	10/21/2014 6:01:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Benzene	3.5	1.5		ppbV	10	10/18/2014 5:57:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Carbon disulfide	2.9	1.5		ppbV	10	10/18/2014 5:57:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Chloroethane	0.18	0.15		ppbV	1	10/17/2014 10:30:00 PM
Chloroform	0.13	0.15	J	ppbV	1	10/17/2014 10:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Cyclohexane	2.1	0.15		ppbV	1	10/17/2014 10:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-009A

Client Sample ID: SS-04
Tag Number: 201,295
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	1.8	0.15		ppbV	1	10/17/2014 10:30:00 PM
Freon 11	2.6	1.5		ppbV	10	10/18/2014 5:57:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Freon 12	0.50	0.15		ppbV	1	10/17/2014 10:30:00 PM
Heptane	4.9	1.5		ppbV	10	10/18/2014 5:57:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Hexane	5.8	1.5		ppbV	10	10/18/2014 5:57:00 AM
Isopropyl alcohol	17	1.5		ppbV	10	10/18/2014 5:57:00 AM
m&p-Xylene	5.2	3.0		ppbV	10	10/18/2014 5:57:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 10:30:00 PM
Methyl Ethyl Ketone	5.5	3.0		ppbV	10	10/18/2014 5:57:00 AM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	10/17/2014 10:30:00 PM
Methyl tert-butyl ether	3.0	1.5		ppbV	10	10/18/2014 5:57:00 AM
Methylene chloride	0.13	0.15	J	ppbV	1	10/17/2014 10:30:00 PM
o-Xylene	1.3	0.15		ppbV	1	10/17/2014 10:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Styrene	1.8	1.5		ppbV	10	10/18/2014 5:57:00 AM
Tetrachloroethylene	11	1.5		ppbV	10	10/18/2014 5:57:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Toluene	6.6	1.5		ppbV	10	10/18/2014 5:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Trichloroethene	3.7	1.5		ppbV	10	10/18/2014 5:57:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-009A

Client Sample ID: SS-04
 Tag Number: 201,295
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	13	8.2		ug/m3	10	10/18/2014 5:57:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 10:30:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 10:30:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 10:30:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 10:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 10:30:00 PM
1,2,4-Trimethylbenzene	19	7.4		ug/m3	10	10/18/2014 5:57:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 10:30:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 10:30:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 10:30:00 PM
1,3,5-Trimethylbenzene	8.3	0.74		ug/m3	1	10/17/2014 10:30:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 10:30:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 10:30:00 PM
2,2,4-Trimethylpentane	2.1	0.70		ug/m3	1	10/17/2014 10:30:00 PM
4-ethyltoluene	6.7	0.74		ug/m3	1	10/17/2014 10:30:00 PM
Acetone	1900	570		ug/m3	810	10/21/2014 6:01:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 10:30:00 PM
Benzene	11	4.8		ug/m3	10	10/18/2014 5:57:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 10:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 10:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 10:30:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 10:30:00 PM
Carbon disulfide	9.0	4.7		ug/m3	10	10/18/2014 5:57:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/17/2014 10:30:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 10:30:00 PM
Chloroethane	0.47	0.40		ug/m3	1	10/17/2014 10:30:00 PM
Chloroform	0.63	0.73	J	ug/m3	1	10/17/2014 10:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/17/2014 10:30:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 10:30:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 10:30:00 PM
Cyclohexane	7.3	0.52		ug/m3	1	10/17/2014 10:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 10:30:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
Ethylbenzene	6.0	0.65		ug/m3	1	10/17/2014 10:30:00 PM
Freon 11	15	8.4		ug/m3	10	10/18/2014 5:57:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 10:30:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: S140 Site Yorkville, NY
 Lab ID: C1410057-009A

Client Sample ID: SS-04
 Tag Number: 201,295
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	10/17/2014 10:30:00 PM
Heptane	20	6.1		ug/m3	10	10/18/2014 5:57:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 10:30:00 PM
Hexane	20	5.3		ug/m3	10	10/18/2014 5:57:00 AM
Isopropyl alcohol	41	3.7		ug/m3	10	10/18/2014 5:57:00 AM
m&p-Xylene	23	13		ug/m3	10	10/18/2014 5:57:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 10:30:00 PM
Methyl Ethyl Ketone	19	6.8		ug/m3	10	10/18/2014 5:57:00 AM
Methyl Isobutyl Ketone	6.8	1.2		ug/m3	1	10/17/2014 10:30:00 PM
Methyl tert-butyl ether	11	5.4		ug/m3	10	10/18/2014 5:57:00 AM
Methylene chloride	0.45	0.52	J	ug/m3	1	10/17/2014 10:30:00 PM
o-Xylene	5.5	0.65		ug/m3	1	10/17/2014 10:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 10:30:00 PM
Styrene	7.7	6.4		ug/m3	10	10/18/2014 5:57:00 AM
Tetrachloroethylene	74	10		ug/m3	10	10/18/2014 5:57:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 10:30:00 PM
Toluene	25	5.7		ug/m3	10	10/18/2014 5:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 10:30:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 10:30:00 PM
Trichloroethene	20	9.1		ug/m3	10	10/18/2014 5:57:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 10:30:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 10:30:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-010A

Client Sample ID: OA-1
 Tag Number: 328,1170
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		Analyst: 10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
				FLD		Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	10/17/2014 4:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 4:42:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Acetone	6.8	1.5		ppbV	5	10/17/2014 11:42:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Carbon tetrachloride	0.10	0.040		ppbV	1	10/17/2014 4:42:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Chloromethane	0.61	0.15		ppbV	1	10/17/2014 4:42:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-010A

Client Sample ID: OA-1
Tag Number: 328,1170
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 11	0.29	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 12	0.51	0.15		ppbV	1	10/17/2014 4:42:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Isopropyl alcohol	1.1	0.15		ppbV	1	10/17/2014 4:42:00 PM
m&p Xylene	0.10	0.30	J	ppbV	1	10/17/2014 4:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:42:00 PM
Methyl Ethyl Ketone	0.31	0.30		ppbV	1	10/17/2014 4:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Methylene chloride	0.10	0.15	J	ppbV	1	10/17/2014 4:42:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Toluene	0.18	0.15		ppbV	1	10/17/2014 4:42:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Trichloroethane	< 0.040	0.040		ppbV	1	10/17/2014 4:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 4:42:00 PM
Surf. Bromofluorobenzene	85.0	70-130		%REC	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-010A

Client Sample ID: OA-1
Tag Number: 328,1170
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:42:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:42:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 4:42:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 4:42:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 4:42:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 4:42:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 4:42:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 4:42:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 4:42:00 PM
Acetone	14	3.8		ug/m3	6	10/17/2014 11:42:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 4:42:00 PM
Benzene	< 0.48	0.48		ug/m3	1	10/17/2014 4:42:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 4:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 4:42:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 4:42:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 4:42:00 PM
Carbon tetrachloride	0.63	0.25		ug/m3	1	10/17/2014 4:42:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 4:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 4:42:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 4:42:00 PM
Chloromethane	1.1	0.31		ug/m3	1	10/17/2014 4:42:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:42:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:42:00 PM
Cyclohexane	< 0.62	0.62		ug/m3	1	10/17/2014 4:42:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 4:42:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 4:42:00 PM
Freon 11	1.6	0.84		ug/m3	1	10/17/2014 4:42:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 4:42:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-010A

Client Sample ID: OA-1
 Tag Number: 328,1170
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	10/17/2014 4:42:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 4:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 4:42:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 4:42:00 PM
Isopropyl alcohol	2.8	0.37		ug/m3	1	10/17/2014 4:42:00 PM
m&p-Xylene	0.43	1.3	J	ug/m3	1	10/17/2014 4:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:42:00 PM
Methyl Ethyl Ketone	0.91	0.88		ug/m3	1	10/17/2014 4:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:42:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 4:42:00 PM
Methylene chloride	0.36	0.52	J	ug/m3	1	10/17/2014 4:42:00 PM
o Xylene	< 0.66	0.66		ug/m3	1	10/17/2014 4:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 4:42:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 4:42:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 4:42:00 PM
Toluene	0.68	0.57		ug/m3	1	10/17/2014 4:42:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:42:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:42:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 4:42:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 4:42:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 4:42:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 R Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-011A

Client Sample ID: Trip Blank
Tag Number: 130
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	+30			"Hg		10/16/2014
Lab Vacuum Out	+30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
2,2,4-Trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	10/17/2014 4:05:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
cis-1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
cis-1,3-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-011A

Client Sample ID: Trip Blank
 Tag Number: 130
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 4:06:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl tert butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:06:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 4:05:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 4:05:00 PM
Surr: Bromofluorobenzene	76.0	70-130		%REC	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-011A

Client Sample ID: Trip Blank
 Tag Number: 130
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						Analyst: RJP
TO-15						
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:05:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:05:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:05:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 4:05:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 4:05:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 4:05:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 4:05:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
Acetone	< 0.71	0.71		ug/m3	1	10/17/2014 4:05:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 4:05:00 PM
Benzene	< 0.48	0.48		ug/m3	1	10/17/2014 4:05:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 4:05:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 4:05:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 4:05:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 4:05:00 PM
Carbon tetrachloride	< 0.25	0.25		ug/m3	1	10/17/2014 4:05:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 4:05:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 4:05:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 4:05:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/17/2014 4:05:00 PM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	10/17/2014 4:05:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:05:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 4:05:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 4:05:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
Ethylbenzene	< 0.85	0.85		ug/m3	1	10/17/2014 4:05:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	10/17/2014 4:05:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 4:05:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-011A

Client Sample ID: Trip Blank
Tag Number: 130
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Freon 12	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 4:05:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 4:05:00 PM
Hexane	< 0.63	0.63		ug/m3	1	10/17/2014 4:05:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/17/2014 4:05:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/17/2014 4:05:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:05:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	10/17/2014 4:05:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:05:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 4:05:00 PM
Methylene chloride	< 0.62	0.62		ug/m3	1	10/17/2014 4:05:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	10/17/2014 4:05:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 4:05:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 4:05:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 4:05:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/17/2014 4:05:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:05:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:05:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 4:05:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 4:05:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 4:05:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 NT Not Detected at the Reporting Limit

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 31-Oct-14



CEN TEK LABORATORIES, LLC

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ
ALCS1UG-101714	106
ALCS1UG-102014	98.0
ALCS1UG-102114	105
ALCS1UGD-101714	96.0
ALCS1UGD-102014	106
ALCS1UGD-102114	109
AMB1UG-101714	74.0
AMB1UG-102014	74.0
AMB1UG-102114	74.0
C1410057-001A	85.0
C1410057-002A	111
C1410057-003A	86.0
C1410057-004A	123
C1410057-005A	85.0
C1410057-006A	107
C1410057-007A	83.0
C1410057-008A	98.0
C1410057-009A	100
C1410057-010A	85.0
C1410057-011A	76.0

Acronym **Surrogate** **QC Limits**
 BR4FBZ = Bromofluorobenzene 70-130

* Surrogate recovery outside acceptance limits

Centek Laboratories, LLC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AL101703.D

Tune Time : 17 Oct 2014 12:16 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AL101703.D

File	Sample	DL	(BFB)	Surrogate	Recovery %	(IS1)	(IS2)	(IS3)	Internal Standard Responses
AL101705.D	AMB1UG-101714	74				35912	153181	127402	
AL101707.D	ALCS1UG-101714	106				41546	159752	135891	
AL101708.D	C1410057-011A	76				33173	129857	96897	
AL101709.D	C1410057-010A	85				30735	115933	93422	
AL101710.D	C1410057-001A	85				31300	114437	99124	
AL101711.D	C1410057-003A	86				31110	119965	91050	
AL101712.D	C1410057-005A	85				30085	115607	104055	
AL101713.D	C1410057-007A	83				31264	119374	98492	
AL101717.D	C1410057-008A	98				38887	156257	187168*	
AL101718.D	C1410057-009A	100				47864	198113	212292*	
AL101719.D	ALCS1UGD-101714	96				50384*	197875	186154*	
AL101720.D	C1410057-010A 5X	74				32123	122595	89916	
AL101721.D	C1410057-001A 5X	73				29505	107234	76346*	
AL101722.D	C1410057-003A 5X	76				27620	97304	64946*	
AL101723.D	C1410057-005A 5X	75				28159	104326	79854	
AL101724.D	C1410057-007A 5X	76				26548	98996	72669*	
AL101728.D	C1410057-008A 10X	92				30784	126326	110041	
AL101730.D	C1410057-009A 10X	96				32218	130786	108472	

t fails 24hr time check * - fails criteria

Created: Fri Oct 31 14:27:50 2014 MSD #1/

Tune File : C:\HPCHEM\1\DATA\AL102003.D

Tune Time : 20 Oct 2014 10:11 am

Daily Calibration File : C:\HPCHEM\1\DATA\AL102003.D

File	Sample	DL	(BFB)	Surrogate Recovery %	(IS1)	(IS2)	(IS3)	Internal Standard Responses
AL102004.D	ALCS1UG-102014			98	34568	152011	110766	40425 149098 129611
AL102005.D	AMB1UG-102014			74				31940 119669 80473
AL102021.D	ALCS1UGD-102014			106				32834 143304 117910
AL102030.D	C1410057-002A			111	49244*	222659*	208775*	
AL102031.D	C1410057-004A			123	46572	216342*	223738*	
AL102032.D	C1410057-006A			107	56769*	249938*	248098*	
AL102033.D	C1410057-008A 810X			83	39301	166313	133451	
AL102034.D	C1410057 009A 810X			70	32924	130172	92441	
AL102035.D	C1410057-002A 10X			77	30940	126373	94130	
AL102036.D	C1410057-004A 10X			90	27702	107339	92306	
AL102037.D	C1410057-006A 10X			78	31018	127739	94990	

t - fails 24hr time check * - fails criteria

Created: Fri Oct 31 14:29:31 2014 MSD #1/

Run File : C:\HPCHEM\1\DATA2\AL102106.D

Run Time : 21 Oct 2014 1:59 pm

Daily Calibration File : C:\HPCHEM\1\DATA2\AL102106.D

(BFB) (IS1) (IS2) (IS3)
 35315 146040 113898

file	Sample	DL	Surrogate	Recovery %	Internal Standard	Responses
AL102110.D	ALCS1UC-102114		105		39509	152889 123865
AL102111.D	AMB1UC-102114		74		29710	113022 74410
AL102119.D	C1410057-002A	160X	76		37848	158063 125869
AL102120.D	C1410057-002A	640X	72		33015	132790 91137
AL102121.D	C1410057-004A	640X	72		30831	118878 85772
AL102122.D	C1410057-006A	640X	73		30013	115866 79979
AL102130.D	ALCS1UGD 102114		109		31407	131283 105490

t - fails 24hr time check * - fails criteria

Created: Mon Nov 17 15:13:04 2014 MSD #1/

Date: 17-Nov-14

CEN TEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY
TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-101714 **Sample Type:** LCS **TestCode:** 0.25CT-TCE- Units: ppbv **Prep Date:** RunNo: 8946
Client ID: ZZZZZ **Batch ID:** R8946 **TestNo:** TO-15 **Analysis Date:** 10/17/2014 **SeqNo:** 106373

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	1.200	0.15	1	0	120	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	109	70	130				
1,1-Dichloroethane	0.950	0.15	1	0	96.0	70	130				
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130				
1,2,4-Trichlorobenzene	1.090	0.15	1	0	108	70	130				
1,2,4-Trimethylbenzene	1.120	0.15	1	0	112	70	130				
1,2-Dibromobethane	1.070	0.15	1	0	107	70	130				
1,2-Dichlorobenzene	1.230	0.15	1	0	123	70	130				
1,2-Dichloroethane	1.050	0.15	1	0	105	70	130				
1,2-Dichloropropane	1.040	0.15	1	0	104	70	130				
1,3,5-Trimethylbenzene	1.240	0.15	1	0	124	70	130				
1,3-butadiene	1.180	0.15	1	0	118	70	130				
1,3-Dichlorobenzene	1.240	0.15	1	0	124	70	130				
1,4-Dichlorobenzene	1.260	0.15	1	0	126	70	130				
1,4-Dioxane	1.250	0.30	1	0	125	70	130				
2,2,4-Trimethylpentane	1.110	0.15	1	0	111	70	130				
4-ethyltoluene	1.250	0.15	1	0	125	70	130				
Acetone	1.270	0.30	1	0	127	70	130				
Aryl Chloride	1.230	0.15	1	0	123	70	130				
Benzene	1.090	0.15	1	0	109	70	130				
Benzyl chloride	1.650	0.15	1	0	165	70	130				S
Bromodichloromethane	1.180	0.15	1	0	118	70	130				
Bromoform	1.210	0.15	1	0	121	70	130				
Bromomethane	1.170	0.15	1	0	117	70	130				

Qualifiers: Results reported are net blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 H Holding times for preparation or analysis exceeded

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: S140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-101714	Sample Type	LCS	Test Code	0.25CT-TCE-	Units	ppbv	Prep Date		RUN No.	8946
Client ID	ZZZZ	Batch ID	R8946	Test Name	TO-15			Analysis Date	10/17/2014	Sec No.	106373
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RFD Ref Val	%RPD	RPD Limit	Qual

Carbon disulfide	1.030	0.15	1	0	103	70	130				
Carbon tetrachloride	1.160	0.040	1	0	116	70	130				
Chlorobenzene	1.060	0.15	1	0	106	70	130				
Chloroethane	1.210	0.15	1	0	121	70	130				
Chloroform	0.9700	0.15	1	0	97.0	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Cyclohexane	1.060	0.15	1	0	106	70	130				
Dibromochloromethane	1.080	0.15	1	0	108	70	130				
Ethyl acetate	1.230	0.25	1	0	123	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.130	0.15	1	0	113	70	130				
Freon 114	0.9800	0.15	1	0	98.0	70	130				
Freon 12	0.9700	0.15	1	0	97.0	70	130				
Heptane	1.140	0.15	1	0	114	70	130				
Hexachloro-1,3-butadiene	1.230	0.15	1	0	123	70	130				
Hexane	0.9200	0.15	1	0	92.0	70	130				
Isopropyl alcohol	1.260	0.15	1	0	126	70	130				
m,p-Xylene	2.360	0.30	2	0	119	70	130				
Methyl Butyl Ketone	1.590	0.30	1	0	159	70	130				
Methyl Ethyl Ketone	1.260	0.30	1	0	126	70	130				
Methyl Isobutyl Ketone	1.250	0.30	1	0	125	70	130				
Methyl tert-butyl ether	0.9200	0.15	1	0	92.0	70	130				
Methylene chloride	1.170	0.15	1	0	117	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.9400	0.15	1	0	94.0	70	130				
Styrene	1.160	0.15	1	0	116	70	130				
Tetrachloroethylene	1.040	0.15	1	0	104	70	130				
Tetrahydrofuran	1.240	0.15	1	0	124	70	130				

Qualifiers:
 J Results reported are not blank corrected
 S Analyte detected at or below quantization limits
 S Spike Recovery: outside accepted recovery limits
 E Values above quantization range
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 II Holding times for preparation or analysis exceeded

CLIENT: WSP Environment and Energy
Work Order: CI410057
Project: 5140 Site Yorkville, NY

TestCode: 0.25CI-TCE-VC

Sample ID	ALCS1UG-101714	SampleType	LCS	TestCode	0.25CI-TCE-	Units	ppbV	Prep Date:	RunNo:	8946	SeqNo:	106373
Client ID	ZZZZZ	Batch ID	R8946	TestNo:	YD-15	Analysis Date:	10/17/2014	HighLimit:	RPD RefVal	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit:	HighLimit:	RPD RefVal	%RPD	RPDLimit	Qual	
Toluene	1.04C	0.15	1	0	104	70	130					
trans-1,2-Dichloroethene	1.06G	0.15	1	0	106	70	130					
trans-1,3-Dichloropropene	1.06G	0.15	1	0	106	70	130					
Trichloroethene	0.96DC	0.040	1	0	96.0	70	130					
Vinyl acetate	1.01G	0.15	1	0	101	70	130					
Vinyl Bromide	1.06G	0.15	1	0	106	70	130					
Vinyl chloride	1.05G	0.040	1	0	105	70	130					
Surr: Bromofluorobenzene	1.06G	0	1	0	106	70	130					

Qualifiers:
 R: Results reported are not blank corrected
 E: Analyte detected at or below quantitation limits
 S: Spike Recovery outside accepted recovery limits
 H: Holding times for preparation or analysis exceeded
 R: RPD outside accepted recovery limits
 E: Value above quantitation range
 ND: Not Detected at the Reporting Limit

CLIENT: WSP Environment and Energy
 Work Order: C1416057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-102014 SampleType: LCS Batch ID: R6960 TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 8960
 Client ID: ZZZZ TestNo: TO-15 Analysis Date: 10/20/2014 SeqNo: 106728

Analyte	Result	PCL	SPK value	SPK RefVal	%REC	LowLim:	HighLim:	RPD RefVal	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	1.200	0.15	1	0	120	70	130				
1,1,2-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	1.180	0.15	1	0	118	70	130				
1,2,4-Trichlorobenzene	0.9800	0.15	1	0	98.0	70	130				
1,2,4-Trimethylbenzene	1.100	0.15	1	0	110	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.220	0.15	1	0	122	70	130				
1,2-Dichloroethane	1.240	0.15	1	0	124	70	130				
1,2-Dichloropropane	1.230	0.15	1	0	123	70	130				
1,3,5-Trimethylbenzene	1.220	0.15	1	0	122	70	130				
1,3-Butadiene	1.220	0.15	1	0	122	70	130				
1,3-Dichlorobenzene	1.220	0.15	1	0	122	70	130				
1,4-Dichlorobenzene	1.260	0.15	1	0	126	70	130				
1,4-Dioxane	0.2300	0.30	1	0	23.0	70	130				JS
2,2,4-Trimethylpentane	1.260	0.15	1	0	126	70	130				
4-Ethyltoluene	1.270	0.15	1	0	127	70	130				
Acetone	1.270	0.30	1	0	127	70	130				
Allyl chloride	1.350	0.15	1	0	135	70	130				
Benzene	1.250	0.15	1	0	125	70	130				
Benzyl chloride	1.820	0.15	1	0	182	70	130				S
Bromodichloromethane	1.250	0.15	1	0	125	70	130				
Bromoform	1.250	0.15	1	0	125	70	130				
Bromomethane	1.250	0.15	1	0	125	70	130				
Carbon disulfide	0.9700	0.15	1	0	97.0	70	130				
Carbon tetrachloride	1.220	0.15	1	0	122	70	130				
Chlorobenzene	1.060	0.15	1	0	106	70	130				
Chloroethane	1.280	0.15	1	0	128	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.250	0.15	1	0	125	70	130				

Qualifiers: Results reported are not blank corrected E Value above quantitation range
 J Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

II Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410657
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-102014	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 8960
Client ID: ZZZZ	Batch ID: R8960	TestNo: TO-15		Analysis Date: 10/20/2014	SeqNo: 106728

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
cis-1,3-Dichloropropene	1.160	0.15	1	0	116	70	130				
Cyclohexane	1.230	0.15	1	0	123	70	130				
Dibromochloromethane	1.150	0.15	1	0	115	70	130				
Ethyl acetate	1.180	0.25	1	0	118	70	130				
Ethylbenzene	1.100	0.15	1	0	110	70	130				
Freon 11	1.260	0.15	1	0	126	70	130				
Freon 113	1.250	0.15	1	0	125	70	130				
Freon 114	1.100	0.15	1	0	110	70	130				
Freon 12	1.110	0.15	1	0	111	70	130				
Heptane	1.220	0.15	1	0	122	70	130				
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130				
Hexane	1.010	0.15	1	0	101	70	130				
Isopropyl alcohol	1.060	0.15	1	0	106	70	130				
m,p-Xylene	2.630	0.30	2	0	132	70	130				S
Methyl Butyl Ketone	0.5000	0.30	1	0	50.0	70	130				S
Methyl Ethyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl Isobutyl Ketone	0.3300	0.30	1	0	33.0	70	130				S
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130				
Methylene chloride	1.160	0.15	1	0	116	70	130				
p-Xylene	1.170	0.15	1	0	117	70	130				
Propylene	1.020	0.15	1	0	102	70	130				
Styrene	1.130	0.15	1	0	113	70	130				
Tetrachloroethylene	1.120	0.15	1	0	112	70	130				
Tetrahydrofuran	1.270	0.15	1	0	127	70	130				
Toluene	1.170	0.15	1	0	117	70	130				
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
trans-1,3-Dichloropropane	1.250	0.15	1	0	125	70	130				
Trichloroethene	1.150	0.15	1	0	115	70	130				
Vinyl acetate	1.170	0.15	1	0	117	70	130				
Vinyl Bromide	1.220	0.15	1	0	122	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: CJ1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102014	Sample Type	LCS	TestCode	1ugM3_TO15	Units	ppbV	Prep Date	RunNo	8960	
Client ID	ZZZZ	Batch ID	R8960	TestNo	TO-15			Analysis Date	SeqNo	106728	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.18C	0.15	1	0	118	70	130				
Svc: Bromochlorobenzene	0.982C	0	1	0	98.0	70	130				

Sample ID	ALCS1UG-102114	Sample Type	LCS	TestCode	1ugM3_TO15	Units	ppbV	Prep Date	RunNo	8968	
Client ID	ZZZZ	Batch ID	R8968	TestNo	TO-15			Analysis Date	SeqNo	107658	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.27C	0.15	1	0	127	70	130				
1,1,2,2-Tetrachloroethane	1.25C	0.15	1	0	125	70	130				
1,1,2-Trichloroethane	1.11C	0.15	1	0	111	70	130				
1,1-Dichloroethane	1.02C	0.15	1	0	102	70	130				
1,1-Dichloroethene	1.21C	0.15	1	0	121	70	130				
1,2,4-Trichlorobenzene	1.20C	0.15	1	0	120	70	130				
1,2,4-Trimethylbenzene	1.16C	0.15	1	0	116	70	130				
1,2-Dibromobenzene	1.16C	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.29C	0.15	1	0	129	70	130				
1,2-Dichloroethane	1.19C	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.09C	0.15	1	0	109	70	130				
1,3,5-Trimethylbenzene	1.28C	0.15	1	0	128	70	130				
1,3-Dichlorobenzene	1.28C	0.15	1	0	128	70	130				
1,3-Dioxane	1.23C	0.15	1	0	123	70	130				
1,4-Dichlorobenzene	1.29C	0.15	1	0	129	70	130				
1,4-Dichloroethene	1.95C	0.30	1	0	195	70	130				S
1,4-Dioxane	1.50C	0.15	1	0	115	70	130				
2,2,4-Trimethylpentane	1.27C	0.15	1	0	127	70	130				
4-ethyltoluene	1.24C	0.30	1	0	124	70	130				
Acetone	1.12C	0.15	1	0	112	70	130				
Allyl chloride	1.15C	0.15	1	0	115	70	130				
Benzene	2.05C	0.15	1	0	205	70	130				S
Benzyl chloride	1.23C	0.15	1	0	123	70	130				
Bromochloromethane	1.23C	0.15	1	0	123	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantities limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: IugM3_TO15

Sample ID: ALCSTUG-102114	Sample Type: LCS	TestCode: IugM3_TO15	Units: ppbV	Prep Date:	RunNo: B968						
Client ID: ZZZZ	Batch ID: R6968	TestNo: TO-15		Analysis Date: 10/21/2014	SeqNo: 107668						
Analyte	Result	PCL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual

Bromoforn	1.223	0.15	1	0	122	70	130				
Bromomethane	1.230	0.15	1	0	123	70	130				
Carbon disulfide	0.9603	0.15	1	0	56.0	70	130				
Carbon tetrachloride	1.250	0.15	1	0	125	70	130				
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.200	0.15	1	0	120	70	130				
Chloroform	1.050	0.15	1	0	105	70	130				
Chloroethane	1.230	0.15	1	0	123	70	130				
cs*-2-Dichlorobenzene	1.030	0.15	1	0	103	70	130				
cs*-1,3-Dichloroprocene	1.150	0.15	1	0	115	70	130				
Cyclohexane	1.110	0.15	1	0	111	70	130				
Dibromochloroethane	1.200	0.15	1	0	120	70	130				
Ethyl acetate	1.270	0.25	1	0	127	70	130				
Ethylbenzene	1.040	0.15	1	0	104	70	130				
Freon 11	1.220	0.15	1	0	122	70	130				
Freon 113	1.220	0.15	1	0	122	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	1.060	0.15	1	0	106	70	130				
Heptane	1.170	0.15	1	0	117	70	130				
Hexachloro-1,3-cyclohexadiene	1.760	0.15	1	0	176	70	130				S
Hexane	0.9900	0.15	1	0	99.0	70	130				
Isopropyl alcohol	1.230	0.15	1	0	123	70	130				
m&p-Xylene	2.430	0.30	2	0	122	70	130				
Methyl Butyl Ketone	4.310	0.30	1	0	431	70	130				S
Methyl Ethyl Ketone	1.010	0.30	1	0	101	70	130				
Methyl Isobutyl Ketone	2.220	0.30	1	0	222	70	130				S
Methyl tert-butyl ether	1.900	0.15	1	0	190	70	130				
Methylene chloride	1.240	0.15	1	0	124	70	130				
o-Xylene	1.210	0.15	1	0	121	70	130				
Propylene	0.9900	0.15	1	0	99.0	70	130				
Styrene	1.210	0.15	1	0	121	70	130				

Qualifiers: J Results reported are not blank corrected E Value above quantitation range
 K Analytic detected at or below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

II Folding times for preparation or analysis exceeded

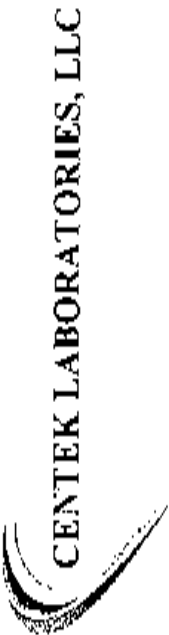
R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5340 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102114	Sample Type	LCS	TestCode	1ugM3_TO15	Units	ppbV	Prep Date	RunNo	8958	
Client ID	ZZZZ	Batch ID	R8958	TestNo	TO-15			Analysis Date	10/21/2014	SeqNo	107658
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimt	HighLimt	RPD RefVal	%RPD	RPDLimit	Goal
Tetrachloroethylene	1.190	0.15	1	0	118	70	70	70			
Tetrahydrofuran	1.200	0.15	1	0	120	70	70	70			
Toluene	1.110	0.15	1	0	111	70	70	70			
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	70	70			
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	70	70			
Trichloroethene	1.010	0.15	1	0	101	70	70	70			
Vinyl acetate	1.050	0.15	1	0	105	70	70	70			
Vinyl Bromide	1.230	0.15	1	0	123	70	70	70			
Vinyl chloride	1.190	0.15	1	0	119	70	70	70			
Surr. Bromofluorobenzene	1.050	0	1	0	105	70	70	70			

Qualifiers:
 J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 N.D. Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits



Date: 31-Oct-14

ANALYTICAL QC SUMMARY REPORT

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UGB-101714 Sample Type: LCSD Batch ID: R8946 TestCode: 0.25CT-TCE- Units: ppbV Prep Date: RunNo: 8946
 Client ID: ZZZZ TestNo: TD-15 Analysis Date: 10/17/2014 SecNo: 106374

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPO Ref Val	%RPD	RPO Limit	Que:
1,1,1-trichloroethane	1.080	0.15	1	0	108	70	130	1.37	8.00	30	30
1,1,2,2-Tetrachloroethane	0.990	0.15	1	0	99.0	70	130	1.2	19.2	30	30
1,1,2-trichloroethane	1.050	0.15	1	0	100	70	130	1.09	8.61	30	30
1,1-Dichloroethane	0.970	0.15	1	0	97.0	70	130	0.96	1.04	30	30
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130	1.07	0	30	30
1,2,4-trichlorobenzene	1.220	0.15	1	0	122	70	130	1.08	12.2	30	30
1,2,4-trimethylbenzene	1.350	0.15	1	0	105	70	130	1.12	6.45	30	30
1,2-Dibromethane	0.950	0.15	1	0	99.0	70	130	1.07	7.77	30	30
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.23	8.47	30	30
1,2-Dichloroethane	1.010	0.15	1	0	101	70	130	1.05	3.88	30	30
1,2-Dichloropropane	0.980	0.15	1	0	99.0	70	130	1.04	4.93	30	30
1,3,5-Trimethylbenzene	1.260	0.15	1	0	106	70	130	1.24	15.7	30	30
1,3-butadiene	1.260	0.15	1	0	126	70	130	1.18	6.56	30	30
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.24	11.1	30	30
1,4-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.26	12.7	30	30
1,4-Dioxane	0.430	0.30	1	0	43.0	70	130	1.23	96.4	30	SR
2,2,4-trimethylpentane	1.110	0.15	1	0	111	70	130	1.11	0	30	30
4-ethyltoluene	1.110	0.15	1	0	111	70	130	1.25	11.9	30	30
Acetone	1.190	0.30	1	0	119	70	130	1.27	6.50	30	30
Allyl chloride	1.210	0.15	1	0	121	70	130	1.23	1.64	30	30
Benzene	1.060	0.15	1	0	106	70	130	1.09	2.79	30	30
Benzyl chloride	1.280	0.15	1	0	128	70	130	1.55	25.3	30	30
Bromochloromethane	1.050	0.15	1	0	105	70	130	1.18	11.7	30	30
Bromoform	0.980	0.15	1	0	98.0	70	130	1.21	21.0	30	30
Bromomethane	1.240	0.15	1	0	124	70	130	1.17	5.81	30	30

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded
 S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-101714	Batch ID	R8946	Samp Type	LCS D	TestCode	0.25CT-TCE-	Units	ppbV	Prep Date	Rel No	8945
Client ID	ZZZZ	TestNo	TO-15	Analysis Date	10/17/2014	SeqNo	106374					
Analyte	Result	PQL	SPK value	SPK Ref Ve	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon disulfide	0.8700	0.15	1	0	87.0	70	130	1.03	15.8	30		
Carbon tetrachloride	1.030	0.040	1	0	103	70	130	1.16	11.9	30		
Chlorobenzene	0.9900	0.15	1	0	99.0	70	130	1.06	6.83	30		
Chloroethane	1.240	0.15	1	0	124	70	130	1.21	2.45	30		
Chloroform	0.9400	0.15	1	0	94.0	70	130	0.97	3.14	30		
Chloromethane	1.180	0.15	1	0	118	70	130	1.15	2.58	30		
cis-1,2-Dichloroethane	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30		
cis-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.08	5.70	30		
Cyclohexane	1.080	0.15	1	0	108	70	130	1.06	1.87	30		
Dichromochloromethane	0.9200	0.15	1	0	92.0	70	130	1.08	16.0	30		
Ethyl acetate	1.190	0.25	1	0	119	70	130	1.23	3.31	30		
Ethylbenzene	1.240	0.15	1	0	124	70	130	0.98	23.4	30		
Freon 11	1.060	0.15	1	0	106	70	130	1.16	7.14	30		
Freon 113	1.060	0.15	1	0	106	70	130	1.13	4.52	30		
Freon 114	1.050	0.15	1	0	105	70	130	0.98	5.90	30		
Freon 12	1.070	0.15	1	0	107	70	130	0.97	9.80	30		
n-Heptane	1.100	0.15	1	0	110	70	130	1.14	3.57	30		
Hexachloro-1,3-cyclohexadiene	1.150	0.15	1	0	115	70	130	1.23	6.47	30		
Hexane	0.9800	0.15	1	0	98.0	70	130	0.92	5.32	30	R	
Isopropyl alcohol	0.9200	0.15	1	0	92.0	70	130	1.26	31.2	30		
m & p-Xylene	2.450	0.30	2	0	120	70	130	2.36	1.66	30		
Methyl Butyl Ketone	0.7800	0.30	1	0	78.0	70	130	1.58	67.8	30	R	
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	1.26	21.1	30		
Methyl isobutyl Ketone	0.6000	0.30	1	0	60.0	70	130	1.25	70.3	30	SR	
Methyl tert-butyl ether	0.9600	0.15	1	0	96.0	70	130	0.92	4.26	30		
Methylene chloride	1.100	0.15	1	0	110	70	130	1.17	6.17	30		
o-Xylene	1.000	0.15	1	0	100	70	130	1.16	14.8	30		
Propylene	1.150	0.15	1	0	115	70	130	0.94	20.1	30		
Styrene	1.050	0.15	1	0	105	70	130	1.16	9.95	30		
Tetrachloroethylene	0.9300	0.15	1	0	93.0	70	130	1.04	11.2	30		
Tetrahydrofuran	1.170	0.15	1	0	117	70	130	1.24	5.81	30		

Qualifiers: J Results reported are not blank corrected
 K Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 MD Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS10UGD-101714	SamplType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 8946				
Client ID: ZZZZ	Batch ID: RJ946	Rest:	TestNo: TO-15	Analysis Date: 10/17/2014	SeqNo: 106374					
Analyte	POL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.15	0.5600	0	95.0	70	130	1.04	8.00	30	
trans-1,2-Dichloroethene	0.15	1.050	0	105	70	130	1	4.88	30	
trans-1,3-Dichloropropene	0.15	1.040	0	104	70	130	1.06	1.90	30	
Trichloroethene	0.040	0.9300	0	93.0	70	130	0.96	3.17	30	
Vinyl acetate	0.15	1.090	0	109	70	130	1.01	7.62	30	
Vinyl Bromide	0.15	1.140	0	114	70	130	1.06	7.27	30	
Vinyl chloride	0.040	1.140	0	114	70	130	1.09	4.48	30	

Qualifiers:

- J Results reported are not blank corrected
- K Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-102B14	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 9960					
Client ID:	ZZZZ	Batch ID: R8960	TestNo: 70-15		Analysis Date: 10/26/2014	SeqNo: 106729					
Analyte	Result	PQL	SPK varje	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD_Lim:	Qual
1,1,1-Trichloroethane	1.230	0.15	1	0	123	70	130	1.23	0	30	
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130	1.2	5.3	30	
1,1,2-Trichloroethane	1.070	0.15	1	0	107	70	130	1.2	11.5	30	
1,1-Dichloroethane	1.130	0.15	1	0	113	70	130	1.09	3.60	30	
1,1-Dichloroethene	1.310	0.15	1	0	131	70	130	1.18	10.4	30	S
1,2,4-Trichlorobenzene	0.9700	0.15	1	0	97.0	70	130	0.98	1.53	30	
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130	1.1	29.2	30	
1,2-Dibromobethane	1.060	0.15	1	0	109	70	130	1.06	2.79	30	
1,2-Dichlorobenzene	1.160	0.15	1	0	116	70	150	1.22	5.04	30	
1,2-Dichloroethane	1.260	0.15	1	0	126	70	130	1.24	1.60	30	
1,2-Dichloropropane	1.050	0.15	1	0	105	70	130	1.23	15.8	30	
1,3,5-Trimethylbenzene	1.040	0.15	1	0	104	70	130	1.21	15.9	30	
1,3-butadiene	1.540	0.15	1	0	154	70	130	1.22	23.2	30	S
1,3-Dichlorobenzene	1.140	0.15	1	0	114	70	130	1.22	6.78	30	
1,4-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.25	11.8	30	
1,4-Dioxane	0.6200	0.30	1	0	62.0	70	130	0.23	91.8	30	SR
2,2,4-trimethylpentane	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
4-ethyltoluene	1.050	0.15	1	0	105	70	130	1.27	19.0	30	
Acetone	1.480	0.30	1	0	148	70	130	1.27	15.3	30	S
Allyl chloride	1.490	0.15	1	0	149	70	130	1.05	34.6	30	SR
Benzene	1.110	0.15	1	0	111	70	130	1.25	11.9	30	
Benzyl chloride	1.270	0.15	1	0	127	70	130	1.62	35.6	30	R
Bromochloromethane	1.200	0.15	1	0	120	70	130	1.25	4.08	30	
Bromoform	1.240	0.15	1	0	124	70	130	1.23	0.810	30	
Bromomethane	1.480	0.15	1	0	148	70	130	1.25	16.1	30	S
Carbon disulfide	1.140	0.15	1	0	114	70	130	0.97	16.1	30	
Carbon tetrachloride	1.200	0.15	1	0	120	70	130	1.22	1.65	30	
Chlorobenzene	1.050	0.15	1	0	109	70	130	1.06	0.922	30	
Chloroethane	1.620	0.15	1	0	162	70	130	1.28	23.4	30	S
Chloroform	1.150	0.15	1	0	115	70	130	1.12	2.64	30	
Chloromethane	1.490	0.15	1	0	149	70	130	1.25	17.5	30	S

Qualifiers: Results reported are not blank corrected
 0 Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: IugM3_TO15

Sample ID: ALCS1UGD-102014 Batch ID: R8960 TestCode: IugM3_TO15 Units: ppbV Prep Date: 10/20/2014 Run No: 8960
 Client ID: ZZZZ Seq No: 106729

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qua
cis-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130	1.05	0.848	30	
cis-1,3-Dichloropropene	1.540	0.15	1	0	104	70	130	1.96	10.9	30	
Cyclohexane	1.070	0.15	0	0	107	70	130	1.23	15.9	30	
Dibromochloromethane	1.150	0.15	0	0	115	70	130	1.45	0	30	
Ethyl acetate	1.110	0.25	0	0	111	70	130	1.78	6.11	30	
Ethylbenzene	0.9500	0.15	0	0	95.0	70	130	1.1	14.6	30	
Freon 11	1.420	0.15	0	0	142	70	130	1.26	11.9	30	S
Freon 113	1.360	0.15	0	0	135	70	130	1.25	6.43	30	S
Freon 114	1.200	0.15	0	0	120	70	130	1.1	8.70	30	
Freon 12	1.180	0.15	0	0	118	70	130	1.11	6.11	30	
Heptane	1.130	0.15	0	0	113	70	130	1.22	7.66	30	
Hexachloro-1,3-butadiene	1.170	0.15	0	0	117	70	130	1.18	0.851	30	
Hexane	1.030	0.15	0	0	103	70	130	1.01	1.96	30	
Isocropyl alcohol	1.140	0.15	0	0	114	70	130	1.06	7.27	30	
m&p-Xylene	2.250	0.30	2	0	112	70	130	2.63	15.6	30	
Methyl Butyl Ketone	0.6700	0.30	0	0	67.0	70	130	0.5	29.1	30	S
Methyl Ethyl Ketone	0.9500	0.30	0	0	95.0	70	130	1	4.08	30	
Methyl Isobutyl Ketone	0.6200	0.30	0	0	62.0	70	130	0.30	85.2	30	R
Methyl tert-butyl ester	0.8800	0.15	0	0	88.0	70	130	1	12.8	30	
Methylene chloride	1.360	0.15	0	0	139	70	130	1.18	15.3	30	S
o-Xylene	1.130	0.15	0	0	113	70	130	1.17	3.48	30	
Propylene	1.090	0.15	0	0	109	70	130	1.02	6.64	30	
Styrene	1.050	0.15	0	0	109	70	130	1.13	3.60	30	
Tetrachloroethylene	1.050	0.15	0	0	109	70	130	1.12	2.71	30	
Tetrahydrofuran	1.140	0.15	0	0	114	70	130	1.27	10.8	30	
Toluene	1.020	0.15	0	0	103	70	130	1.17	12.7	30	
trans-1,2-Dichloroethene	1.130	0.15	0	0	113	70	130	1.1	1.79	30	
trans-1,3-Dichloropropene	1.020	0.15	0	0	102	70	130	1.25	20.3	30	
Trichloroethene	1.010	0.15	0	0	101	70	130	1.15	13.0	30	
Vinyl acetate	1.050	0.15	0	0	109	70	130	1.17	7.08	30	
Vinyl Bromide	1.310	0.15	0	0	131	70	130	1.22	7.11	30	S

Qualifiers: Results reported are not blank corrected E Value above quantitation range
 J Analyte detected at or below quantitation limits NID Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits
 H Holding times for preservatives or analysis exceeded

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: IugMJ_TO15

Sample ID: ALCS1UGD-102014	Sample Type: LCSD	TestCode: IugM3_TO15	Units: ppbV	Prep Date:							
Client ID: ZZZZ	Batch ID: R8960	TestNo: TO-15		Analysis Date: 10/20/2014							
Analyte	Result	FQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua:
Vinyl chloride	1.300	0.15	1	0	130	70	130	1.18	9.68	30	

Sample ID: ALCS1UGD-102114	Sample Type: LCSD	TestCode: IugM3_TO15	Units: ppbV	Prep Date:							
Client ID: ZZZZ	Batch ID: R8968	TestNo: TO-15		Analysis Date: 10/22/2014							
Analyte	Result	FQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua:

1,1,1-Trichloroethane	1.390	0.15	1	0	139	70	130	1.27	9.02	30	S
1,1,2,2-Tetrachloroethane	1.210	0.15	1	0	121	70	130	1.25	3.25	30	
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130	1.11	6.11	30	
1,1-Dichloroethane	1.160	0.15	1	0	116	70	130	1.12	3.51	30	
1,1-Dichloroethene	1.360	0.15	1	0	136	70	130	1.33	2.23	30	S
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130	1.32	50.2	30	R
1,2,4-Trimethylbenzene	0.6900	0.15	1	0	69.0	70	130	1.16	50.8	30	SR
1,2-Dibromoethane	1.220	0.15	1	0	122	70	130	1.16	5.04	30	
1,2-Dichlorobenzene	1.040	0.15	1	0	104	70	130	1.35	25.9	30	
1,2-Dichloroethane	1.360	0.15	1	0	136	70	130	1.31	3.75	30	S
1,2-Dichloropropane	1.140	0.15	1	0	114	70	130	1.09	4.48	30	
1,3,5-Trimethylbenzene	1.020	0.15	1	0	102	70	130	1.37	29.3	30	
1,3-butadiene	1.600	0.15	1	0	160	70	130	1.52	5.13	30	S
1,3-Dichlorobenzene	1.140	0.15	1	0	114	70	130	1.32	14.6	30	
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.35	22.2	30	
1,4-Dioxane	0.1400	0.30	1	0	14.0	70	130	1.95	0	30	JS
2,2,4-Trimethylpentane	1.210	0.15	1	0	121	70	130	1.15	5.08	30	
4-ethyltoluene	0.9500	0.15	1	0	95.0	70	130	1.41	39.0	30	R
Acetone	1.170	0.30	1	0	117	70	130	1.37	15.7	30	
Allyl chloride	1.490	0.15	1	0	149	70	130	1.5	0.989	30	S
Benzene	1.200	0.15	1	0	120	70	130	1.15	4.26	30	
Benzyl chloride	0.7500	0.15	1	0	75.0	70	130	2.56	94.4	30	R
Bromochloromethane	1.320	0.15	1	0	132	70	130	1.23	7.06	30	S
Bromoform	1.430	0.15	1	0	143	70	130	1.3	9.52	30	S

Qualifiers: J Results reported are not blank corrected
 K Value above quantitation range
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits
 I Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-1D2114	Sample Type	LCSD	Batch ID	R8968	TestCode	1ugM3_TO15	Units	ppbV	Prep Date	Run No	8968	
Client ID	ZZZZ									Analysis Date	Seq No	106740	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromomethane			1.550	0.15	1	0	155	70	130	1.45	6.67	30	S
Carbon disulfide			1.060	0.15	1	0	106	70	130	1.06	0	30	S
Carbon tetrachloride			1.380	0.15	1	0	138	70	130	1.25	9.89	30	S
Chlorobenzene			1.170	0.15	1	0	117	70	130	1.12	4.37	30	S
Chloroethane			1.580	0.15	1	0	158	70	130	1.58	0	30	S
Chloroform			1.230	0.15	1	0	123	70	130	1.16	5.86	30	S
Chloromethane			1.480	0.15	1	0	148	70	130	1.46	1.36	30	S
cis-1,2-Dichloroethane			1.130	0.15	1	0	113	70	130	1.13	0	30	S
cis-1,3-Dichloropropene			1.040	0.15	1	0	104	70	130	1.13	6.29	30	S
Cyclohexane			1.120	0.15	1	0	112	70	130	1.11	0.897	30	S
Dichlorochloromethane			1.310	0.15	1	0	131	70	130	1.2	6.75	30	S
Ethyl acetate			0.7000	0.25	1	0	70.0	70	130	1.67	6.9	30	R
Ethylbenzene			1.020	0.15	1	0	102	70	130	1.04	1.94	30	S
Freon 11			1.510	0.15	1	0	151	70	130	1.43	5.44	30	S
Freon 113			1.430	0.15	1	0	143	70	130	1.35	5.75	30	S
Freon 114			1.220	0.15	1	0	122	70	130	1.2	1.65	30	S
Freon 12			1.220	0.15	1	0	122	70	130	1.17	4.16	30	S
Heptane			1.170	0.15	1	0	117	70	130	1.17	0	30	S
Hexachloro-1,3-cyclohexadiene			0.7500	0.15	1	0	75.0	70	130	1.76	60.5	30	R
Hexane			0.9700	0.15	1	0	97.0	70	130	1.09	1.7	30	S
Isopropyl alcohol			0.6400	0.15	1	0	64.0	70	130	1.56	53.5	30	SR
m,p-Xylene			2.450	0.30	2	0	122	70	130	2.43	0	30	S
Methyl Butyl Ketone			0.4200	0.30	1	0	42.0	70	130	4.31	164	30	SR
Methyl Ethyl Ketone			0.4600	0.30	1	0	46.0	70	130	1.5	105	30	SR
Methyl isobutyl Ketone			0.1300	0.30	1	0	13.0	70	130	2.22	0	50	S
Methyl tert-butyl ether			0.8000	0.15	1	0	80.0	70	130	1.1	31.8	30	R
Methylene chloride			1.410	0.15	1	0	141	70	130	1.37	2.88	30	S
o-Xylene			1.210	0.15	1	0	121	70	130	1.21	0	30	S
Propylene			0.9200	0.15	1	0	92.0	70	130	1.09	15.9	30	S
Styrene			1.130	0.15	1	0	113	70	130	1.21	5.64	30	S
Tetrachloroethylene			1.230	0.15	1	0	123	70	130	1.18	4.15	30	S

Qualifiers:
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 S Spk: Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 J Analyte detected at or below quantitation limits
 S Spk: Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: S140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-101714	Sample Type:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbv	Prep Date:		RunNo.	8946		
Client ID:	ZZZZZ	Batch ID:	R8946	TestNo:	TC-15			Analysis Date:	10/17/2014	SeqNo	106372		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15											
1,1,2,2-Tetrachloroethane	< 0.15	0.15											
1,1,2-Trichloroethane	< 0.15	0.15											
1,1-Dichloroethane	< 0.15	0.15											
1,1-Dichloroethene	< 0.15	0.15											
1,2,4-Trichlorobenzene	< 0.15	0.15											
1,2,4-Trimethylbenzene	< 0.15	0.15											
1,2-Dibromoethane	< 0.15	0.15											
1,2-Dichlorobenzene	< 0.15	0.15											
1,2-Dichloroethane	< 0.15	0.15											
1,2-Dichloropropane	< 0.15	0.15											
1,3,5-Trimethylbenzene	< 0.15	0.15											
1,3-butadiene	< 0.15	0.15											
1,3-Dichlorobenzene	< 0.15	0.15											
1,4-Dichlorobenzene	< 0.15	0.15											
1,4-Dioxane	< 0.30	0.30											
2,2,4-trimethyl pentane	< 0.15	0.15											
4-ethyltoluene	< 0.15	0.15											
Acetone	< 0.30	0.30											
Axyl calorice	< 0.15	0.15											
Benzene	< 0.15	0.15											
Benzyl chloride	< 0.15	0.15											
Bromodichloroethane	< 0.15	0.15											
Bromoform	< 0.15	0.15											
Bromomethane	< 0.15	0.15											

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID: AMB5UG-101714	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Pres Date:	RunNo: 8946						
Client ID: ZZZZ	Batch ID: R8946	Testing: TO-15		Analysis Date: 10/17/2014	SeqNo: 1B5372						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDL min	Qual

Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloroethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Feor. 11	< 0.15	0.15									
Feor. 113	< 0.15	0.15									
Feor. 114	< 0.15	0.15									
Feor. 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m,p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected. E Value above quantization range. I Holding times for preparation or analysis exceeded.
 K Analyte detected at or below quantization limits. N.D. Not Detected at the Reporting Limit. R RPD outside accepted recovery limits.
 S Spike Recovery outside accepted recovery limits.

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-101714	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 8946
Client ID: ZZZZ	Batch ID: R8946	TestNo: TO-15		Analysis Date: 10/17/2014	SeqNo: 186372

Analyte	Result	PCL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Toluene	< 0.15			0.15							
trans-1,2-Dichloroethene	< 0.15			0.15							
trans-1,3-Dichloropropene	< 0.15			0.15							
Trichloroethene	< 0.040			0.040							
Vinyl acetate	< 0.15			0.15							
Vinyl Bromide	< 0.15			0.15							
Vinyl chloride	< 0.040			0.040							

Qualifiers:

- 1 Results reported are not blank corrected
- 2 Analyte detected at or below quantitation limits
- 3 Spike Recovery outside accepted recovery limits
- 4 Value above quantitation range
- 5 Not Detected at the Reporting Limit
- 6 Holding times for preparation or analysis exceeded
- 7 RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: S140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	AMBTUG-102014	MBLK	TestCode	1ugM3_TO15	Units:	ppbv	Prep Date:		RunNo:	8960		
Client ID:	ZZZZ	Batch ID:	R8960	TestNo	TO-15		Analysis Date:	10/20/2014	SeqNo:	106727		
Analyte		Result	PQL	SPK value	SPK RefVal	%REC	LowLimr	HighLimr	SPC RefVal	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15		0.15									
1,1,2,2-Tetrachloroethane	< 0.15		0.15									
1,1,2-Trichloroethane	< 0.15		0.15									
1,1-Dichloroethane	< 0.15		0.15									
1,1-Dichloroethene	< 0.15		0.15									
1,2,4-Trichlorobenzene	< 0.15		0.15									
1,2,4-Trimethylbenzene	< 0.15		0.15									
1,2-Dichloroethane	< 0.15		0.15									
1,2-Dichlorobenzene	< 0.15		0.15									
1,2-Dichloroethene	< 0.15		0.15									
1,2-Dichloropropane	< 0.15		0.15									
1,3,5-Trimethylbenzene	< 0.15		0.15									
1,3-Dioxane	< 0.15		0.15									
1,3-Dichlorobenzene	< 0.15		0.15									
1,4-Dichlorobenzene	< 0.15		0.15									
1,4-Dioxane	< 0.30		0.30									
2,2,4-trimethylpentane	< 0.15		0.15									
4-ethyltoluene	< 0.15		0.15									
Acetone	< 0.30		0.30									
Allyl chloride	< 0.15		0.15									
Benzene	< 0.15		0.15									
Benzyl chloride	< 0.15		0.15									
Bromochlorobromethane	< 0.15		0.15									
Bromoform	< 0.15		0.15									
Bromomethane	< 0.15		0.15									
Carbon disulfide	< 0.15		0.15									
Carbon tetrachloride	< 0.15		0.15									
Chlorobenzene	< 0.15		0.15									
Chloroethane	< 0.15		0.15									
Chloroform	< 0.15		0.15									
Chloromethane	< 0.15		0.15									

Qualifiers: J Result repaired and not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside acceptable recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102014	Sample Type	MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4960					
Client ID	ZZZZ	Batch ID	R8960	TestNo: TO-15		Analysis Date: 10/20/2014	SeqNo: 106727					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Que:

cis-1,2-Dichloroethene	< 0.15	0.15										
cis-1,3-Dichloropropene	< 0.15	0.15										
Cyclohexane	< 0.15	0.15										
Dibromochloromethane	< 0.15	0.15										
Ethyl acetate	< 0.25	0.25										
Ethyl benzene	< 0.15	0.15										
Feor: 11	< 0.15	0.15										
Feor: 113	< 0.15	0.15										
Feor: 114	< 0.15	0.15										
Feor: 12	< 0.15	0.15										
Heptane	< 0.15	0.15										
Hexachloro-1,3-butadiene	< 0.15	0.15										
Hexane	< 0.15	0.15										
Isopropyl alcohol	< 0.15	0.15										
m,p-Xylene	< 0.30	0.30										
Methyl Butyl Ketone	< 0.30	0.30										
Methyl Ethyl Ketone	< 0.30	0.30										
Methyl Isobutyl Ketone	< 0.30	0.30										
Methyl tert-butyl ether	< 0.15	0.15										
Methylene chloride	< 0.15	0.15										
o-Xylene	< 0.15	0.15										
Propylene	< 0.15	0.15										
Styrene	< 0.15	0.15										
Tetrachloroethylene	< 0.15	0.15										
Tetrahydrofuran	< 0.15	0.15										
Toluene	< 0.15	0.15										
trans-1,2-Dichloroethene	< 0.15	0.15										
trans-1,3-Dichloropropene	< 0.15	0.15										
Trichloroethene	< 0.15	0.15										
Vinyl acetate	< 0.15	0.15										
Vinyl Bromide	< 0.15	0.15										

Qualifiers: J Result reported are not blank corrected
 S Analyte detected at or below quantitation limits
 5 Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: S140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102014	Sample Type	NBLK	TestCode	1ugM3_TO15	Units	ppbV	Prep Date:	RunNo:	8960		
Client ID:	ZZZZ	Batch ID:	R8960	TestNo:	TO-15			Analysis Date:	SeqNo:	106727		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	RPD RefVal	%RPD	RPDLimit	Qual
Vinyl chloride		<0.15		0.15								

Sample ID	AMB1UG-102114	Sample Type	NBLK	TestCode	1ugM3_TO15	Units	ppbV	Prep Date:	RunNo:	8968		
Client ID:	ZZZZ	Batch ID:	R8968	TestNo:	TO-15			Analysis Date:	SeqNo:	106738		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	RPD RefVal	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	<0.15			0.15								
1,1,2,2-Tetrachloroethane	<0.15			0.15								
1,1,2-Trichloroethane	<0.15			0.15								
1,1-Dichloroethane	<0.15			0.15								
1,1-Dichloroethene	<0.15			0.15								
1,2,4-Trichlorobenzene	<0.15			0.15								
1,2,4-Trimethylbenzene	<0.15			0.15								
1,2-Dibromochloroethane	<0.15			0.15								
1,2-Dichlorobenzene	<0.15			0.15								
1,2-Dichloroethane	<0.15			0.15								
1,2-Dichloropropane	<0.15			0.15								
1,3,5-Trimethylbenzene	<0.15			0.15								
1,3-butadiene	<0.15			0.15								
1,3-Dichlorobenzene	<0.15			0.15								
1,4-Dichlorobenzene	<0.15			0.15								
1,4-Dioxane	<0.30			0.30								
2,2,4-Trimethylpentane	<0.15			0.15								
4-ethyltoluene	<0.15			0.15								
Acetone	<0.30			0.30								
Allyl chloride	<0.15			0.15								
Benzene	<0.15			0.15								
Benzyl chloride	<0.15			0.15								
Bromochloroethane	<0.15			0.15								
Bromoforn	<0.15			0.15								

Qualifiers:		Results required but not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	
S	Spike Recovery outside accepted recovery limits					

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102F14	Samp_Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 8968						
Client ID	ZZZZ	Batch ID: R8968	TestNo: TO-15		Analysis Date: 10/21/2014	Seq No: 106738						
Analyte		Result	FOL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qbal

Bromomethane	<0.15	0.15										
Carbon disulfide	<0.15	0.15										
Carbon tetrachloride	<0.15	0.15										
Chlorobenzene	<0.15	0.15										
Chloroethane	<0.15	0.15										
Chloroform	<0.15	0.15										
Chloromethane	<0.15	0.15										
cis-1,2-Dichloroethane	<0.15	0.15										
cis-1,3-Dichloropropene	<0.15	0.15										
Cyclohexane	<0.15	0.15										
Dibromochloromethane	<0.15	0.15										
Ethyl acetate	<0.25	0.25										
Ethylbenzene	<0.15	0.15										
Freon 11	<0.15	0.15										
Freon 113	<0.15	0.15										
Freon 114	<0.15	0.15										
Freon 12	<0.15	0.15										
Heptane	<0.15	0.15										
Hexachloro-1,3-butadiene	<0.15	0.15										
Hexane	<0.15	0.15										
Isopropyl alcohol	<0.15	0.15										
m,p-Xylene	<0.30	0.30										
Methyl Butyl Ketone	<0.30	0.30										
Methyl Ethyl Ketone	<0.30	0.30										
Methyl Isobutyl Ketone	<0.30	0.30										
Methyl tert-butyl ether	<0.15	0.15										
Methylene chloride	<0.15	0.15										
o-Xylene	<0.15	0.15										
Propylene	<0.15	0.15										
Styrene	<0.15	0.15										
Tetrachloroethylene	<0.15	0.15										

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 F Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Calculating limits for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102114	Sample Type	MBLK	TestCode	1ugM3_TO15	Units	ppbv	Prep Date	RunNo	0968
Client ID	ZZZZZ	Batch ID	R6968	TestNo	TO-15	Analysis Date	10/21/2014	SeqNo	106738	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Tetrahydrofuran	< 0.15	0.15								
Toluene	< 0.15	0.15								
trans-1,2-Dichloroethene	< 0.15	0.15								
trans-1,3-Dichloropropene	< 0.15	0.15								
Trichloroethene	< 0.15	0.15								
Vinyl acetate	< 0.15	0.15								
Vinyl Bromide	< 0.15	0.15								
Vinyl chloride	< 0.15	0.15								

Qualifiers:

- 1 Results reported are not blank corrected
- 2 Analyte detected at or below quantitation limits
- 3 Spike Recovery outside accepted recovery limits
- 4 Value above quantitation range
- 5 Not Detected at the Reporting Limit
- 6 Holding times for preparation or analysis exceeded
- 7 RPD outside accepted recovery limits

1ug/m3 Detection Limit
February 2014

Method TO-15
Units=ppb

Centek Labs
IDL Study

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Freon 22	0.15	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.17	0.00	115.2%	0.015
Propylene	0.15	0.15	0.15	0.15	0.16	0.16	0.15	0.15	0.16	0.00	104.9%	0.015
Freon 12	0.15	0.18	0.17	0.17	0.18	0.16	0.18	0.18	0.17	0.01	116.2%	0.025
Chloromethane	0.15	0.15	0.15	0.17	0.17	0.15	0.17	0.17	0.16	0.01	108.6%	0.030
Freon 114	0.15	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.17	0.00	115.2%	0.015
Vinyl Chloride	0.15	0.16	0.15	0.15	0.16	0.16	0.15	0.16	0.16	0.00	104.8%	0.015
Bulane	0.15	0.19	0.18	0.17	0.19	0.18	0.19	0.17	0.19	0.01	121.0%	0.028
1,3-butadiene	0.15	0.16	0.15	0.15	0.17	0.16	0.14	0.16	0.16	0.01	103.6%	0.031
Bromomethane	0.15	0.19	0.18	0.18	0.17	0.19	0.19	0.19	0.18	0.01	122.9%	0.025
Chloroethane	0.15	0.17	0.16	0.17	0.16	0.15	0.18	0.17	0.17	0.01	110.5%	0.031
Ethanol	0.15	0.18	0.15	0.16	0.18	0.12	0.19	0.18	0.17	0.02	110.5%	0.037
Acrolein	0.15	0.2	0.15	0.19	0.15	0.14	0.17	0.15	0.16	0.02	109.5%	0.032
Vinyl Bromide	0.15	0.18	0.17	0.16	0.17	0.17	0.16	0.17	0.17	0.01	112.4%	0.022
Freon 11	0.15	0.17	0.18	0.17	0.18	0.17	0.18	0.18	0.18	0.01	117.1%	0.017
Acetone	0.15	0.17	0.16	0.18	0.16	0.16	0.15	0.14	0.16	0.01	106.7%	0.041
Pentane	0.15	0.17	0.18	0.17	0.17	0.16	0.16	0.16	0.17	0.01	111.4%	0.024
Isopropyl alcohol	0.15	0.17	0.15	0.17	0.16	0.15	0.16	0.16	0.16	0.01	106.7%	0.026
1,1-dichloroethene	0.15	0.18	0.18	0.16	0.18	0.15	0.18	0.18	0.17	0.01	115.2%	0.039
Freon 113	0.15	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.01	117.1%	0.017
t-Butyl alcohol	0.15	0.16	0.15	0.17	0.13	0.13	0.15	0.13	0.15	0.02	97.1%	0.051
Methylene chloride	0.15	0.18	0.18	0.18	0.17	0.18	0.17	0.17	0.18	0.01	117.1%	0.017
Allyl chloride	0.15	0.17	0.17	0.17	0.17	0.17	0.16	0.19	0.17	0.01	114.3%	0.028
Carbon disulfide	0.15	0.18	0.19	0.16	0.18	0.19	0.19	0.19	0.18	0.01	121.6%	0.035
trans-1,2-dichloroethene	0.15	0.17	0.16	0.16	0.17	0.18	0.17	0.17	0.17	0.01	112.4%	0.022
methyl tert-butyl ether	0.15	0.17	0.15	0.17	0.16	0.16	0.17	0.16	0.16	0.01	108.6%	0.024
1,1-dichloroethane	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.00	112.4%	0.012
Vinyl acetate	0.15	0.17	0.13	0.17	0.17	0.17	0.16	0.16	0.16	0.01	107.6%	0.046
Methyl Ethyl Ketone	0.15	0.14	0.14	0.14	0.14	0.13	0.14	0.14	0.14	0.00	92.4%	0.012
cis-1,2-dichloroethene	0.15	0.16	0.17	0.16	0.16	0.17	0.17	0.16	0.16	0.01	109.6%	0.017
Hexane	0.15	0.15	0.15	0.15	0.14	0.15	0.15	0.16	0.15	0.01	100.0%	0.018
Ethyl acetate	0.15	0.18	0.14	0.15	0.18	0.17	0.18	0.17	0.17	0.02	111.4%	0.050
Chloroform	0.15	0.17	0.16	0.17	0.17	0.17	0.17	0.16	0.17	0.00	111.4%	0.015
Tetrahydrofuran	0.15	0.14	0.14	0.14	0.13	0.14	0.14	0.15	0.14	0.01	93.3%	0.016
1,2-dichloroethane	0.15	0.15	0.16	0.16	0.16	0.17	0.16	0.15	0.16	0.01	106.7%	0.016
1,1,1-trichloroethane	0.15	0.17	0.17	0.18	0.18	0.18	0.18	0.17	0.18	0.01	117.1%	0.017
Cyclohexane	0.15	0.17	0.17	0.17	0.17	0.17	0.16	0.18	0.17	0.01	113.3%	0.018
Carbon tetrachloride	0.15	0.17	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.03	118.1%	0.015
Benzene	0.15	0.17	0.18	0.18	0.18	0.16	0.18	0.18	0.18	0.01	117.1%	0.025

Centek Labs
IDL Study

1 µg/m3 Detection Limit
February 2014

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Methyl methacrylate	0.15	0.18	0.17	0.16	0.16	0.17	0.18	0.19	0.17	0.01	115.2%	0.035
1,4-dioxane	0.15	0.15	0.15	0.15	0.14	0.12	0.16	0.15	0.15	0.01	97.1%	0.040
2,2,4-trimethylpentane	0.15	0.17	0.17	0.17	0.17	0.16	0.16	0.17	0.17	0.00	111.4%	0.015
Heptane	0.15	0.14	0.14	0.16	0.15	0.14	0.14	0.15	0.15	0.01	97.1%	0.025
Trichloroethene	0.15	0.17	0.18	0.18	0.17	0.18	0.16	0.18	0.17	0.01	116.2%	0.025
1,2-dichloropropane	0.15	0.18	0.18	0.16	0.19	0.19	0.19	0.18	0.18	0.01	121.9%	0.035
Bromochloromethane	0.15	0.18	0.18	0.18	0.18	0.17	0.19	0.18	0.18	0.01	120.8%	0.018
cis-1,3-dichloropropene	0.15	0.15	0.17	0.17	0.15	0.17	0.18	0.18	0.17	0.01	111.4%	0.039
trans-1,3-dichloropropene	0.15	0.17	0.17	0.18	0.17	0.16	0.17	0.18	0.17	0.01	114.3%	0.022
1,1,2-trichloroethane	0.15	0.18	0.18	0.18	0.18	0.17	0.18	0.19	0.18	0.01	120.0%	0.018
Toluene	0.15	0.14	0.15	0.17	0.15	0.16	0.15	0.16	0.16	0.01	103.8%	0.031
Methyl Isobutyl Ketone	0.15	0.14	0.15	0.16	0.14	0.14	0.15	0.15	0.15	0.01	98.1%	0.024
Dibromochloromethane	0.15	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.18	0.01	122.9%	0.025
Methyl Butyl Ketone	0.15	0.14	0.17	0.17	0.14	0.12	0.13	0.16	0.15	0.02	98.1%	0.062
1,2-dibromoethane	0.15	0.18	0.18	0.19	0.19	0.18	0.19	0.19	0.19	0.01	123.8%	0.017
Tetrachloroethylene	0.15	0.17	0.18	0.18	0.17	0.18	0.17	0.18	0.18	0.01	117.1%	0.017
Chlorobenzene	0.15	0.17	0.17	0.18	0.17	0.17	0.18	0.17	0.17	0.00	115.2%	0.015
1,1,1,2-tetrachloroethane	0.15	0.18	0.19	0.19	0.19	0.17	0.19	0.19	0.19	0.01	123.8%	0.025
Ethylbenzene	0.15	0.15	0.14	0.14	0.15	0.14	0.15	0.15	0.15	0.01	97.1%	0.017
m&p-xylene	0.15	0.28	0.27	0.3	0.29	0.3	0.3	0.29	0.29	0.01	193.3%	0.036
Nonane	0.15	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.12	0.01	80.0%	0.318
Styrene	0.15	0.12	0.12	0.13	0.12	0.11	0.12	0.12	0.12	0.01	80.0%	0.318
Bromoform	0.15	0.18	0.18	0.17	0.18	0.16	0.18	0.18	0.18	0.01	117.1%	0.025
o-xylene	0.15	0.12	0.14	0.12	0.14	0.14	0.14	0.12	0.13	0.01	87.5%	0.034
Curcane	0.15	0.12	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.00	84.8%	0.015
Bromoclorobenzene	1	0.84	0.84	0.84	0.85	0.83	0.86	0.83	0.84	0.01	84.1%	0.034
1,1,2,2-tetrachloroethane	0.15	0.17	0.17	0.17	0.18	0.17	0.18	0.18	0.17	0.01	115.2%	0.017
Propylbenzene	0.15	0.13	0.12	0.13	0.12	0.14	0.14	0.13	0.13	0.01	85.7%	0.025
2-Chlorotoluene	0.15	0.15	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.01	103.8%	0.017
4-ethyltoluene	0.15	0.12	0.12	0.12	0.12	0.1	0.12	0.13	0.12	0.01	79.0%	0.028
1,3,5-trimethylbenzene	0.15	0.11	0.12	0.11	0.11	0.11	0.12	0.12	0.11	0.01	76.2%	0.017
1,2,4-trimethylbenzene	0.15	0.12	0.13	0.12	0.12	0.12	0.13	0.13	0.12	0.01	82.9%	0.017
1,3-dichlorobenzene	0.15	0.12	0.12	0.13	0.12	0.12	0.12	0.13	0.12	0.00	81.9%	0.015
benzyl chloride	0.15	0.12	0.15	0.12	0.15	0.14	0.14	0.16	0.14	0.02	93.3%	0.028
1,4-dichlorobenzene	0.15	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.12	0.01	80.3%	0.018
1,2,3-trimethylbenzene	0.15	0.13	0.13	0.13	0.14	0.12	0.13	0.13	0.13	0.01	86.7%	0.018
1,2-dichlorobenzene	0.15	0.12	0.12	0.12	0.13	0.13	0.12	0.12	0.12	0.00	81.9%	0.015
1,2,4-trichlorobenzene	0.15	0.16	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.01	86.2%	0.035
Naphthalene	0.15	0.13	0.13	0.14	0.14	0.13	0.14	0.12	0.13	0.01	88.6%	0.024
Hexachloro-1,3-butadiene	0.15	0.15	0.15	0.15	0.16	0.13	0.15	0.15	0.15	0.01	99.0%	0.028

Centek Laboratories
IDL Study

1ug/m3 Detection Limit
February 2014

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.1	0.1	0.11	0.12	0.1	0.11	0.1	0.11	0.01	135.7%	0.025
1,1-dichloroethene	0.1	0.1	0.12	0.12	0.11	0.11	0.12	0.12	0.11	0.01	114.3%	0.025
Methylene chloride	0.1	0.11	0.13	0.1	0.11	0.12	0.13	0.13	0.12	0.01	116.6%	0.038
trans-1,2-dichloroethene	0.1	0.11	0.11	0.12	0.12	0.1	0.12	0.11	0.11	0.01	114.3%	0.017
1,1-dichloroethane	0.1	0.1	0.11	0.12	0.12	0.11	0.12	0.11	0.11	0.01	112.9%	0.024
cis-1,2-dichloroethene	0.1	0.1	0.11	0.1	0.11	0.11	0.12	0.11	0.11	0.01	106.6%	0.022
1,2-dichloroethane	0.1	0.1	0.11	0.1	0.11	0.11	0.11	0.11	0.11	0.00	107.1%	0.015
1,1,1-trichloroethane	0.1	0.11	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.01	120.0%	0.018
Carbon tetrachloride	0.1	0.11	0.12	0.13	0.13	0.12	0.13	0.12	0.12	0.01	122.9%	0.024
Trichloroethene	0.1	0.1	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.01	110.0%	0.018
1,1,2-trichloroethane	0.1	0.11	0.11	0.1	0.12	0.11	0.11	0.12	0.11	0.01	111.4%	0.022
1,2-dibromoethane	0.1	0.1	0.12	0.1	0.13	0.12	0.12	0.12	0.12	0.01	117.1%	0.030
Tetrachloroethylene	0.1	0.1	0.12	0.11	0.12	0.1	0.12	0.11	0.11	0.01	111.4%	0.028
1,1,1,2-tetrachloroethane	0.1	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.00	128.6%	0.012
1,1,2,2-tetrachloroethane	0.1	0.11	0.12	0.11	0.12	0.11	0.12	0.12	0.12	0.01	115.7%	0.017

GC/MS Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{A_x * C_{is}}{A_{is} * C_x}$$

- where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 C_x = concentration of the compound being measured (ppbv)
 C_{is} = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRF_c - \text{mean RRF}_i) * 100}{\text{mean RRF}_i}$$

- where: RRF_c = relative response factor from the continuing calibration
 mean RRF_i = mean relative response factor from the initial calibration

Sample Calculations

$$\text{ppbv} = \frac{A_x * I_s * D_f}{A_{is} * RRF}$$

- where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 I_s = Concentration of the internal standard injected (ppbv)
 RRF = relative response factor for the compound being measured
 D_f = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: 31 Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-001A

Client Sample ID: 1A-01
 Tag Number: 102,259
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	7			"Hg		10/16/2014
Lab Vacuum Out	30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 5:20:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Acetone	5.6	1.5		ppbV	5	10/18/2014 12:19:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Benzene	0.12	0.15	J	ppbV	1	10/17/2014 5:20:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Carbon tetrachloride	0.10	0.040		ppbV	1	10/17/2014 5:20:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Chloromethane	0.40	0.15		ppbV	1	10/17/2014 5:20:00 PM
cis-1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-001A

Client Sample ID: 1A-04
Tag Number: 102.259
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 11	0.30	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Freon 12	0.54	0.15		ppbV	1	10/17/2014 5:20:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Isopropyl alcohol	1.3	0.15		ppbV	1	10/17/2014 5:20:00 PM
m&p-Xylene	0.26	0.30	J	ppbV	1	10/17/2014 5:20:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:20:00 PM
Methyl Ethyl Ketone	0.35	0.30		ppbV	1	10/17/2014 5:20:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:20:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Toluene	0.22	0.15		ppbV	1	10/17/2014 5:20:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 5:20:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 5:20:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 5:20:00 PM
Surr: Bromofluorobenzene	85.0	70-130		%REC	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-001A

Client Sample ID: 1A-04
 Tag Number: 102,259
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:20:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:20:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:20:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:20:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 5:20:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:20:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 5:20:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 5:20:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 5:20:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 5:20:00 PM
2,2,4-Trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 5:20:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 5:20:00 PM
Acetone	13	3.5		ug/m3	5	10/16/2014 12:19:00 AM
Alkyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 5:20:00 PM
Benzene	0.38	0.48	J	ug/m3	1	10/17/2014 5:20:00 PM
Benzyl chloride	< 0.66	0.66		ug/m3	1	10/17/2014 5:20:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 5:20:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 5:20:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 5:20:00 PM
Carbon tetrachloride	0.63	0.25		ug/m3	1	10/17/2014 5:20:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 5:20:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 5:20:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 5:20:00 PM
Chloromethane	0.95	0.31		ug/m3	1	10/17/2014 5:20:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:20:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:20:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 5:20:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 5:20:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 5:20:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 5:20:00 PM
Freon 11	1.7	0.84		ug/m3	1	10/17/2014 5:20:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 5:20:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-001A

Client Sample ID: 1A-04
Tag Number: 102,259
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	2.7	0.74		ug/m3	1	10/17/2014 5:20:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 5:20:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 5:20:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 5:20:00 PM
Isopropyl alcohol	3.3	0.37		ug/m3	1	10/17/2014 5:20:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	10/17/2014 5:20:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:20:00 PM
Methyl Ethyl Ketone	1.0	0.98		ug/m3	1	10/17/2014 5:20:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:20:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 5:20:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/17/2014 5:20:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	10/17/2014 5:20:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 5:20:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 5:20:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 5:20:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 5:20:00 PM
Toluene	0.83	0.57		ug/m3	1	10/17/2014 5:20:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:20:00 PM
trans-1,3 Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:20:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 5:20:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 5:20:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 5:20:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 5:20:00 PM

Qualifiers: ** Reporting Limit
 R Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101710.D
 Acq On : 17 Oct 2014 5:20 pm
 Sample : C1410057-001A
 Misc : A910 LUG

Vial: 23
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.F

Quant Time: Oct 17 21:57:12 2014

Quant Results File: A910_LUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_LUG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Oct 06 12:31:36 2014

Response via : Initial Calibration

DataAcq Meth : LUG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.55	128	31300	1.00	ppb	0.00
36) 1,4 difluorobenzene	12.72	114	114437	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	99124	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	59331	0.85	ppb	0.00
Spiked Amount	1.000	Range	70 130	Recovery	-	85.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.68	85	82819	0.54	ppb	98
5) Chloromethane	4.90	50	17080	0.46	ppb	79
15) Freon 11	6.44	101	44405	0.30	ppb	99
16) Acetone	6.68	58	52895m	5.09	ppb	
18) Isopropyl alcohol	6.82	45	47801	1.34	ppb	# 100
29) Methyl Ethyl Ketone	9.69	72	5124	0.35	ppb	# 72
39) Carbon tetrachloride	12.09	117	10871	0.10	ppb	94
40) Benzene	12.08	78	13882	0.12	ppb	92
52) Toluene	15.27	92	15129	0.22	ppb	99
61) m&p-xylene	17.56	91	30042	0.26	ppb	94

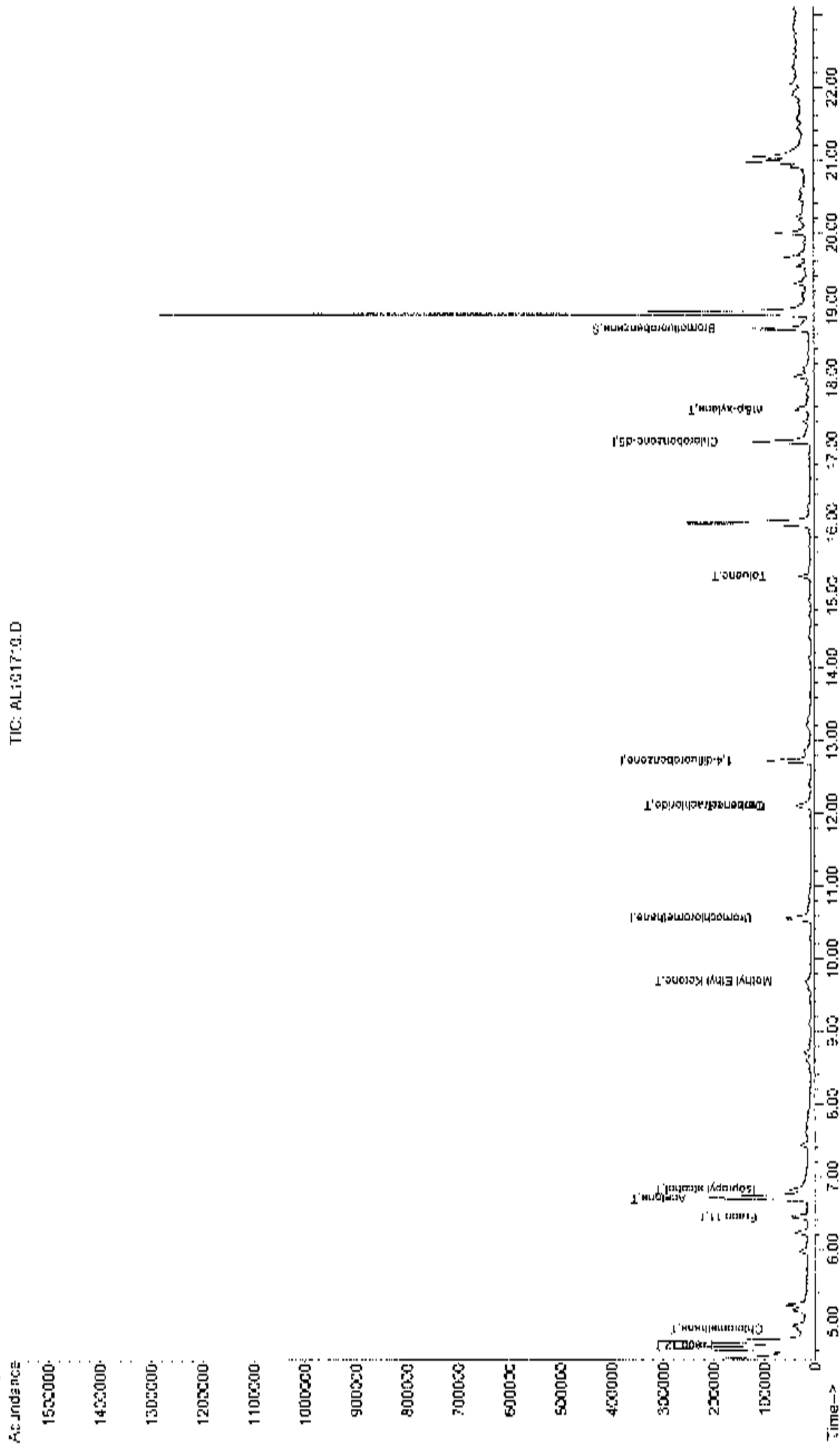
Data File : C:\HPCHEM\1\CATA\AL101710.D
 Acq Op : 17 Oct 2014 5:20 pm
 Sample : C1410057-001A
 Misc : A910_LUG
 MS Integration Params: RISINT.P
 Quant Time: Oct 20 13:38 2014

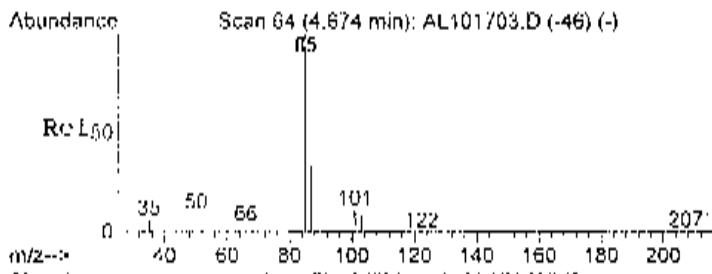
Vial: 23
 Operator: RJ2
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_LUG.RES

Method : C:\HPCHEM\1\METHODS\A910_LUG.M RTE Integrator
 Title : IO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:29 2014
 Response via : Initial Calibration

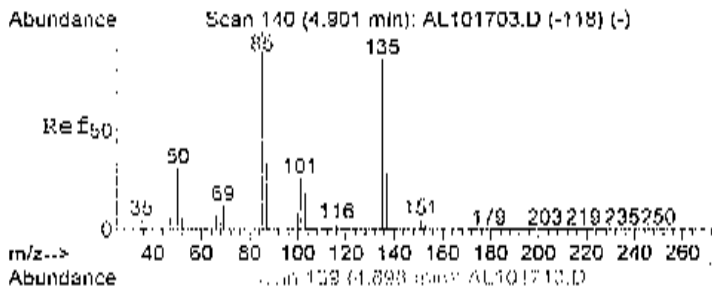
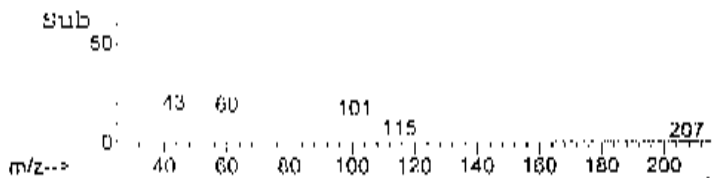
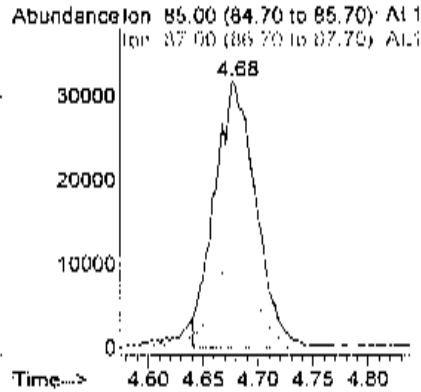
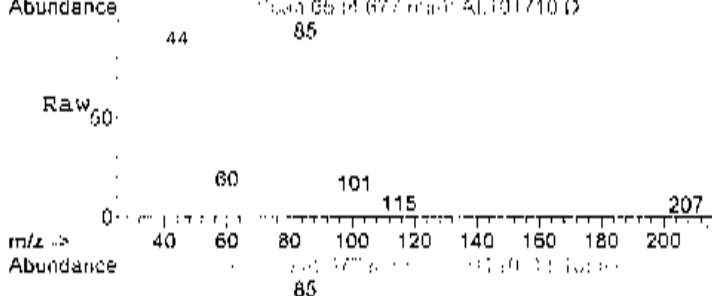
TIC: AL101710.D





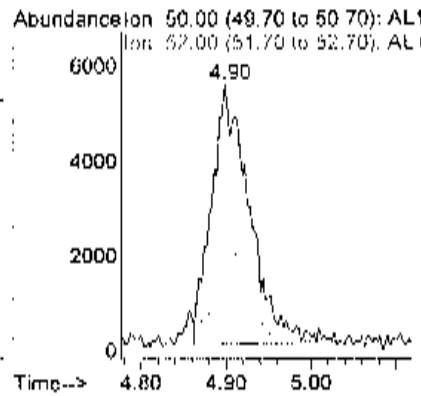
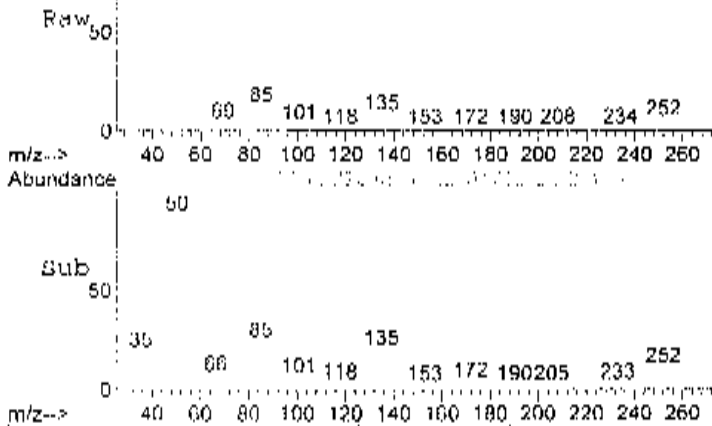
#4
 Freon 12
 Concen: 0.54 ppb
 RT: 4.68 min Scan# 65
 Delta R.T. 0.01 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

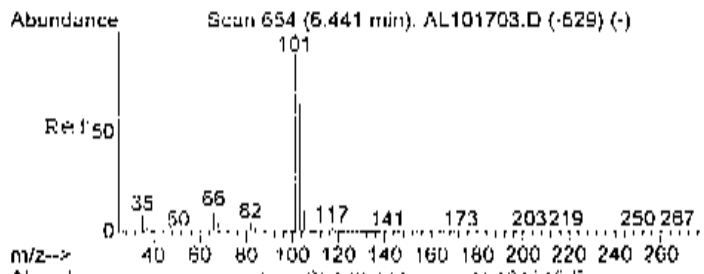
Tgt Ion	Resp	Lower	Upper
85	100		
87	33.4	12.1	52.1



#5
 Chloromethane
 Concen: 0.46 ppb
 RT: 4.90 min Scan# 139
 Delta R.T. 0.01 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

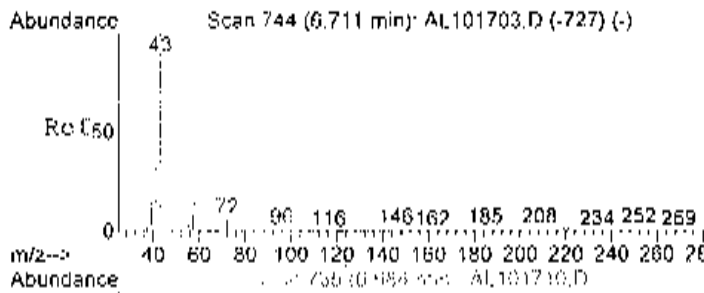
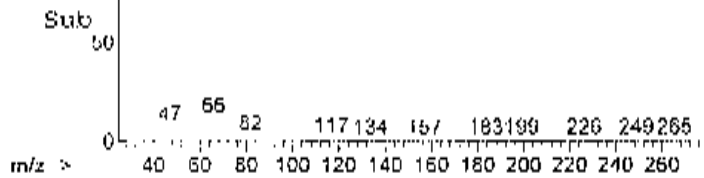
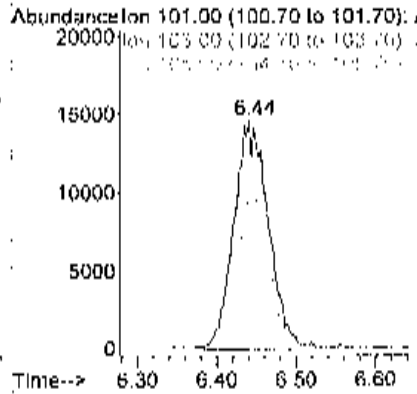
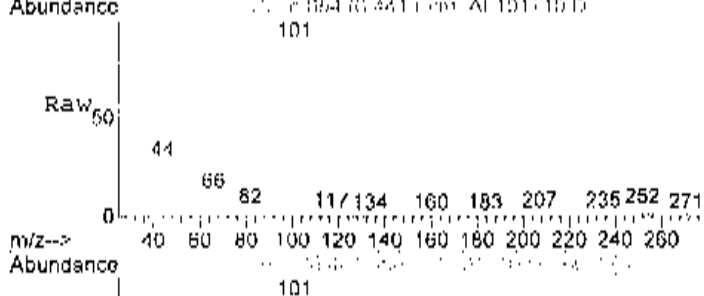
Tgt Ion	Resp	Lower	Upper
50	100		
52	38.2	7.4	47.4





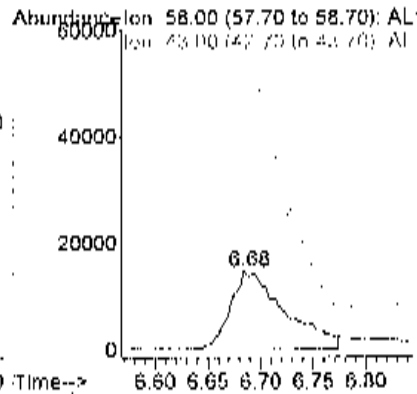
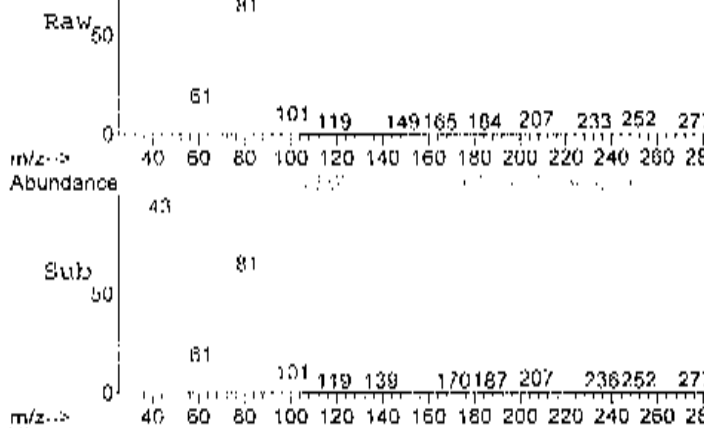
#15
 Freon 11
 Concen: 0.30 ppb
 RT: 6.44 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

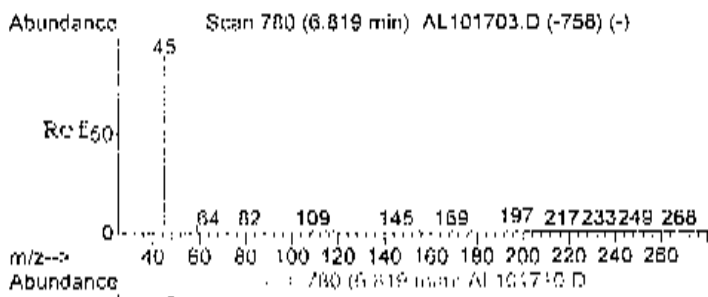
Tgt Ion	Resp	Lower	Upper
101	44405		
103	66.5	45.8	85.8
105	11.7	0.0	31.2



#16
 Acetone
 Concen: 5.09 ppb m
 RT: 6.68 min Scan# 735
 Delta R.T. 0.01 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

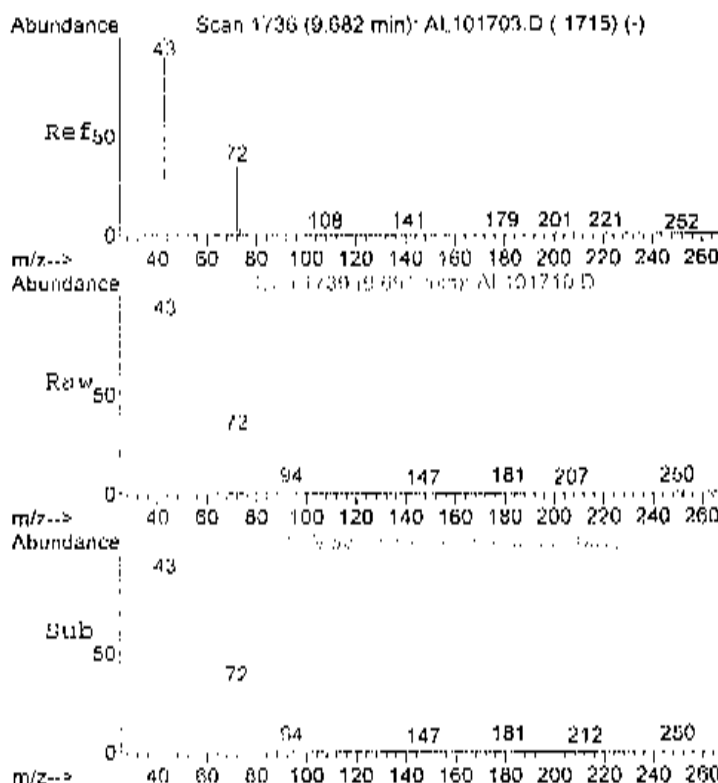
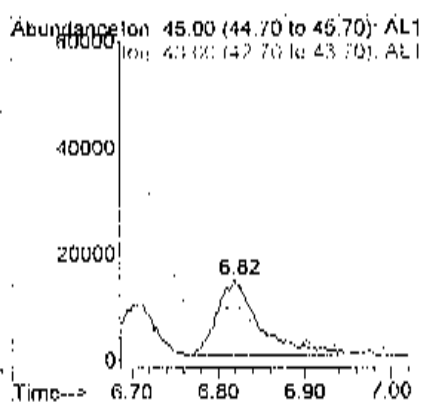
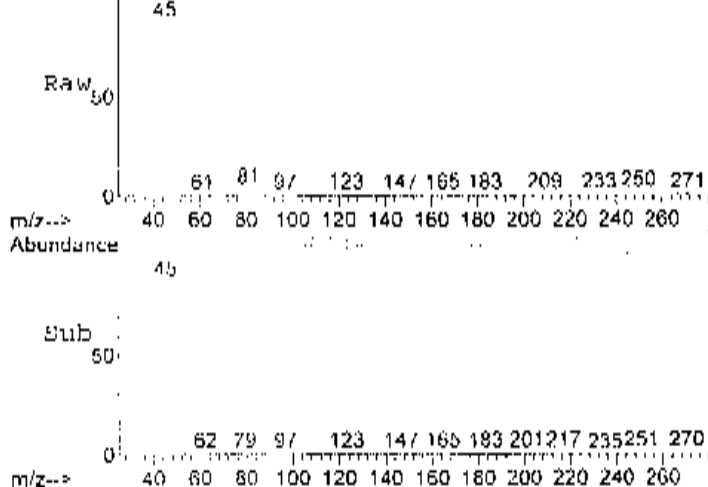
Tgt Ion	Resp	Lower	Upper
58	52895		
43	418.4	514.7	574.7#





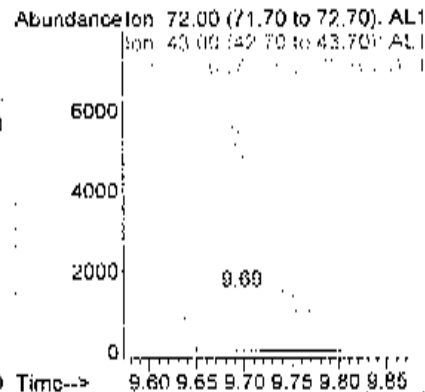
#18
 Isopropyl alcohol
 Concen: 1.34 ppb
 RT: 6.82 min Scan# 780
 Delta R.T. 0.02 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

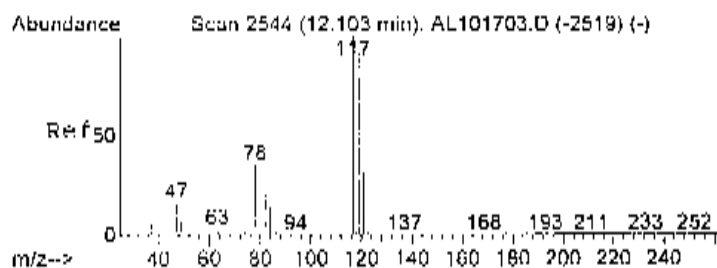
Tgt Ion	Resp	Lower	Upper
45	47801		
43	100	0.0	20.0



#29
 Methyl Ethyl Ketone
 Concen: 0.35 ppb
 RT: 9.69 min Scan# 1739
 Delta R.T. 0.02 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

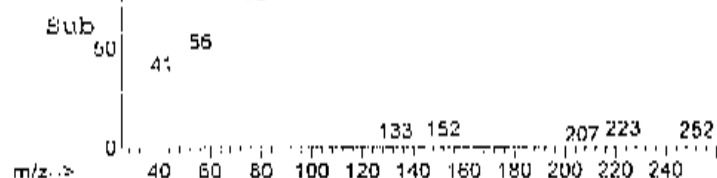
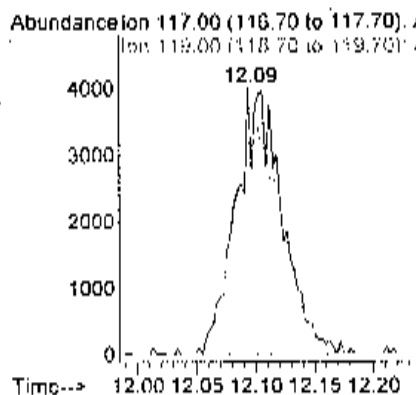
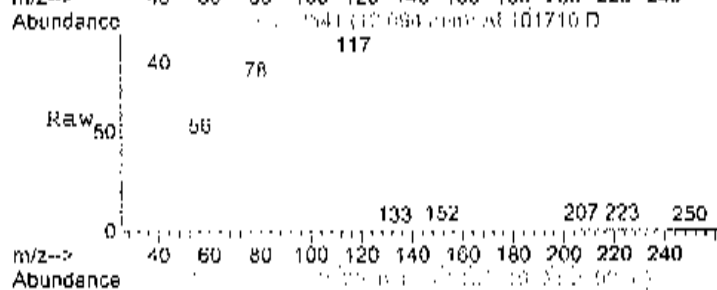
Tgt Ion	Resp	Lower	Upper
72	5124		
43	452.0	530.5	570.5#
72	100.0	80.0	120.0





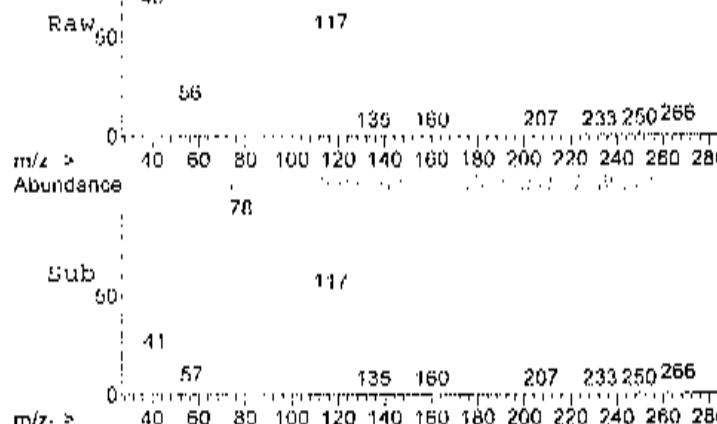
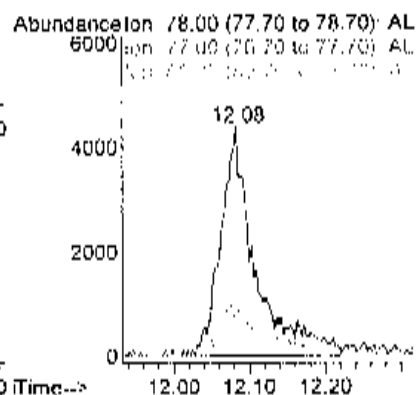
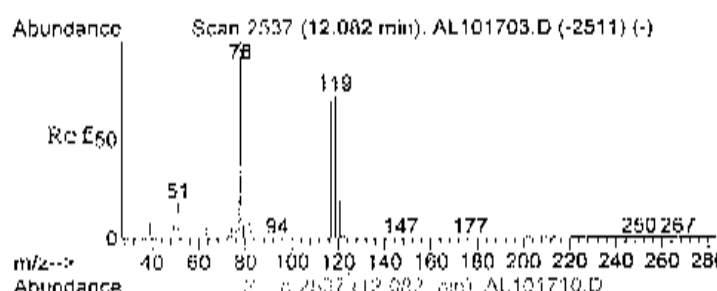
#39
 Carbon tetrachloride
 Concen: 0.10 ppb
 RT: 12.09 min Scan# 2541
 Delta R.T. -0.00 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

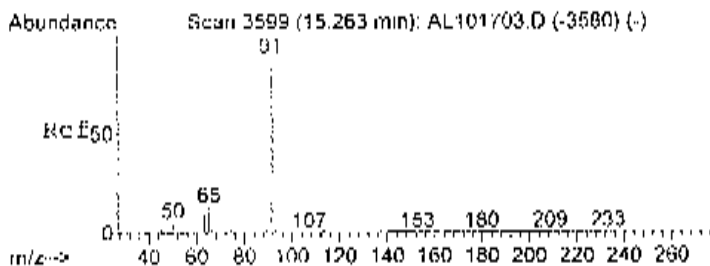
Tgt Ion	Resp	Lower	Upper
117	10871		
119	91.4	77.3	117.3



#40
 Benzene
 Concen: 0.12 ppb
 RT: 12.08 min Scan# 2537
 Delta R.T. 0.01 min
 Lab File: AL101710.D
 Acq: 17 Oct 2014 5:20 pm

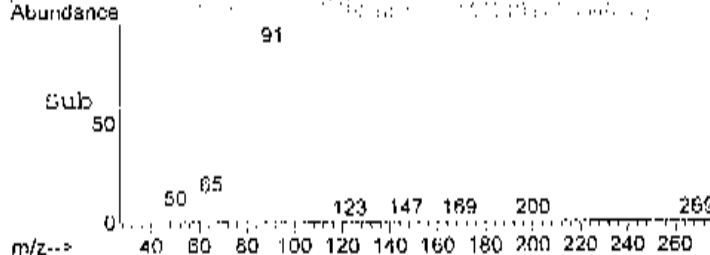
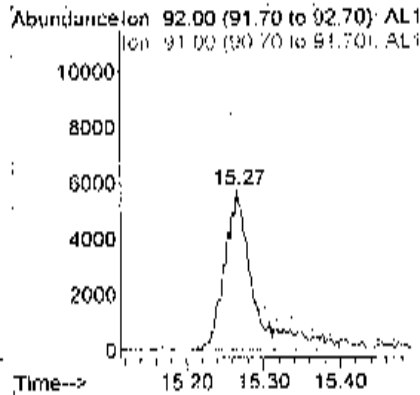
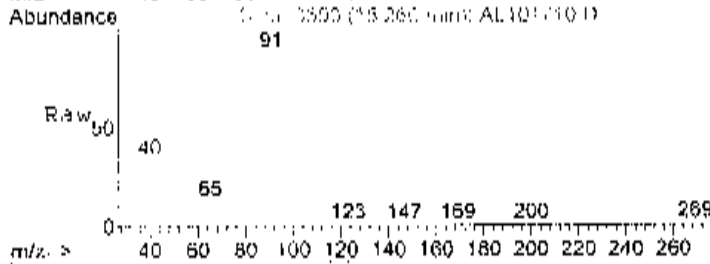
Tgt Ion	Resp	Lower	Upper
78	13882		
77	28.8	3.6	43.6
51	18.2	0.0	36.3





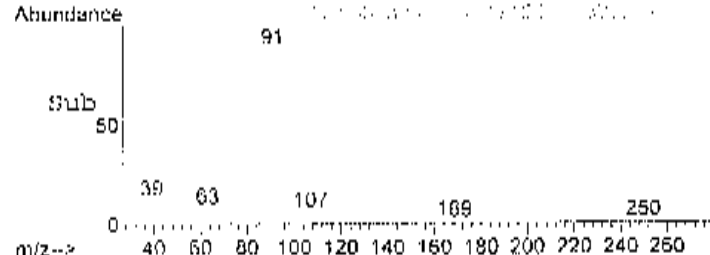
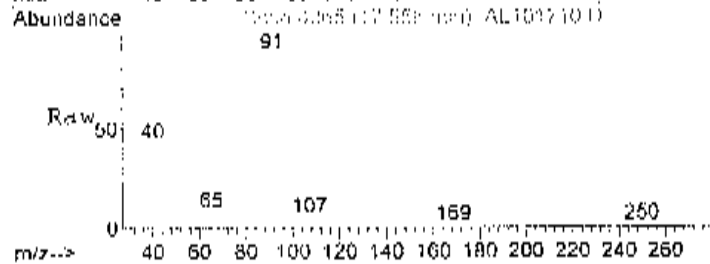
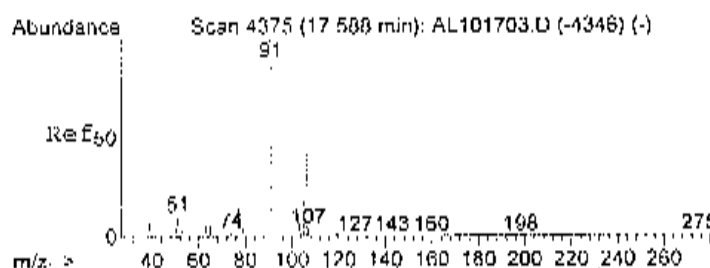
#52
Toluene
Concen: 0.22 ppb
RT: 15.27 min Scan# 3600
Delta R.T. 0.01 min
Lab File: AL101710.D
Acq: 17 Oct 2014 5:20 pm

Tgt Ion	Resp	Lower	Upper
92	151.29		
92	100		
91	175.3	154.2	194.2



#61
m,p-xylene
Concen: 0.26 ppb
RT: 17.56 min Scan# 4365
Delta R.T. -0.02 min
Lab File: AL101710.D
Acq: 17 Oct 2014 5:20 pm

Tgt Ion	Resp	Lower	Upper
91	30042		
91	100		
106	53.3	29.2	69.2



Data File : C:\HPCHEM\1\DATA\AL101721.D
 Acq On : 18 Oct 2014 12:19 am
 Sample : C1410057-001A 5X
 Misc : A910_IUG
 MS Integration Params: RTEINT.P
 Quant. Time: Oct 18 07:21:55 2014

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_IUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : IUG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	29505	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.73	114	107234	1.00	ppb	0.01
51) Chlorobenzene d5	17.13	117	76346	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.68	95	39707	0.73	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

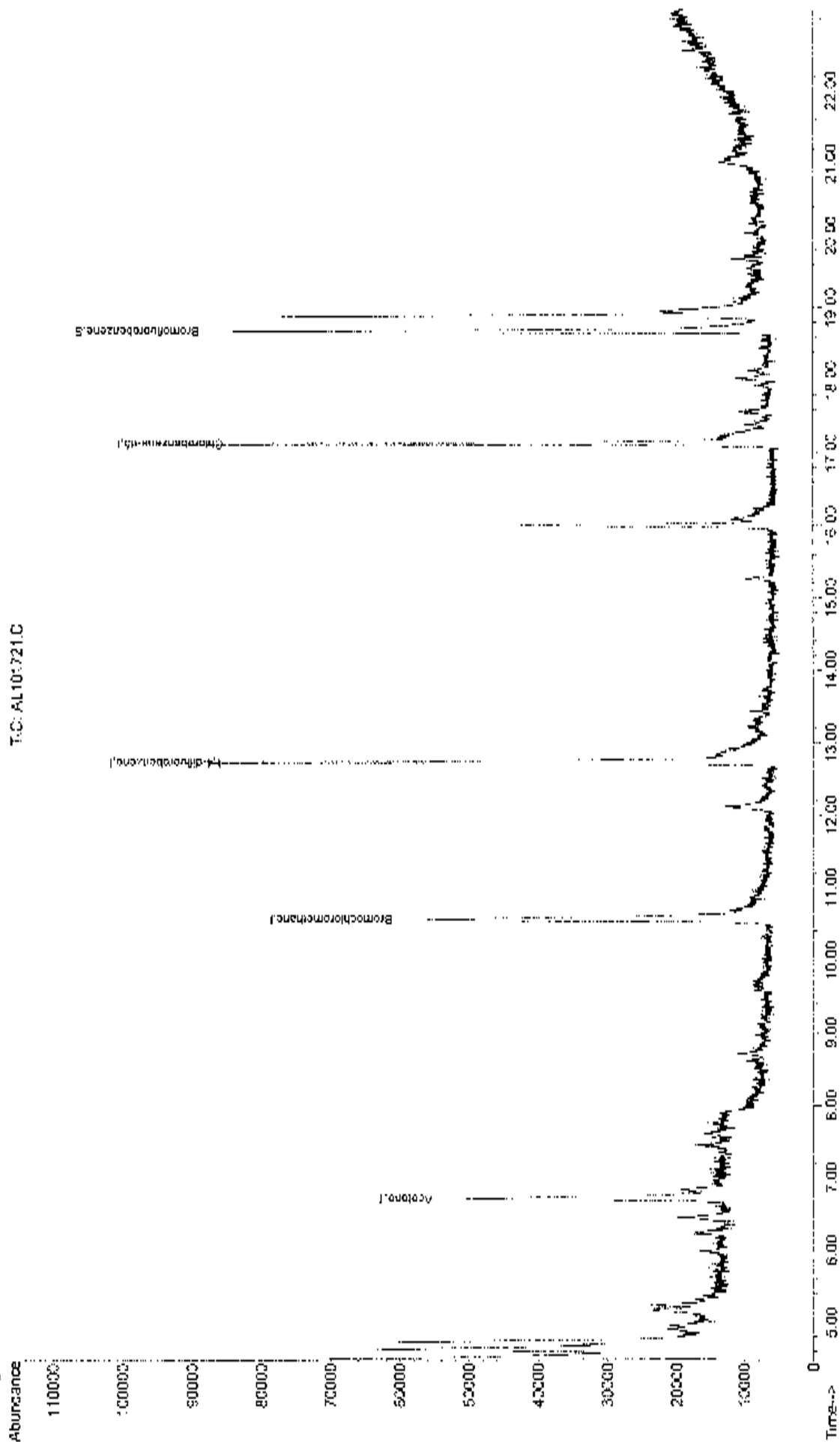
16) Acetone	6.70	58	10867	1.11	ppb	Qvalue # 35
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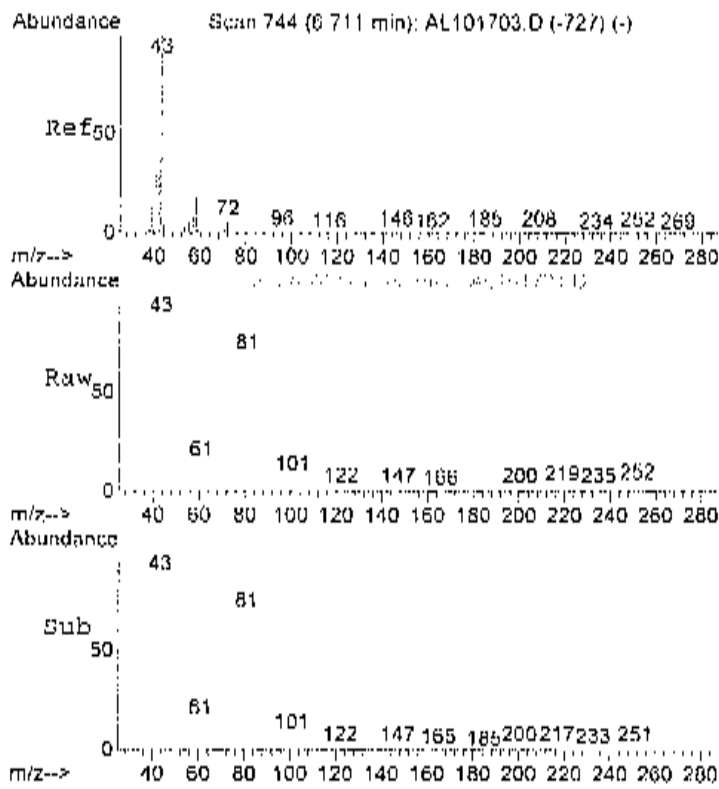
Data File : C:\HPCHEM\1\DATA\ALL101721.D
Acq On : 18 Oct 2014 12:19 am
Sample : C-420057-001A 5X
Misc : A910_103
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:13 2014

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A910_103.RES

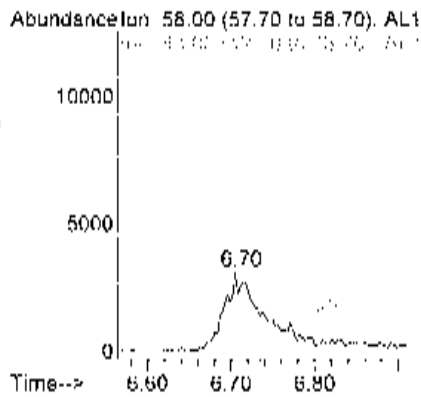
Method : C:\HPCHEM\1\METHODS\A910_103.M (KFS Integrator)
Title : TC-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration





#16
 Acetone
 Concen: 1.11 ppb
 RT: 6.70 min Scan# 742
 Delta R.T. 0.03 min
 Lab File: AL101721.D
 Acq: 18 Oct 2014 12:19 am

Tgt Ion	Ratio	Lower	Upper
58	100		
43	354.0	514.7	574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-002A

Client Sample ID: SS-03
 Tag Number: 457,1161
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	1.3	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2,4-Trichlorobenzene	0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2014 3:34:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
4-ethyltoluene	0.19	0.15		ppbV	1	10/21/2014 3:34:00 AM
Acetone	200	48		ppbV	150	10/21/2014 11:40:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Benzene	1.1	0.15		ppbV	1	10/21/2014 3:34:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Carbon disulfide	3.6	1.5		ppbV	10	10/21/2014 6:37:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Cyclohexane	0.96	0.15		ppbV	1	10/21/2014 3:34:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-002A

Client Sample ID: SS-03
Tag Number: 457,1161
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Ethylbenzene	1.3	0.15		ppbV	1	10/21/2014 3:34:00 AM
Freon 11	69	24		ppbV	160	10/21/2014 11:40:00 PM
Freon 113	0.69	0.15		ppbV	1	10/21/2014 3:34:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Freon 12	0.58	0.15		ppbV	1	10/21/2014 3:34:00 AM
Heptane	1.9	1.5		ppbV	10	10/21/2014 6:37:00 AM
Hexachloro-1,3 butadiene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Hexane	2.7	1.5		ppbV	10	10/21/2014 6:37:00 AM
Isopropyl alcohol	5.5	1.5		ppbV	10	10/21/2014 6:37:00 AM
m&p-Xylene	2.8	3.0	J	ppbV	10	10/21/2014 6:37:00 AM
Methyl Butyl Ketone	0.68	0.30		ppbV	1	10/21/2014 3:34:00 AM
Methyl Ethyl Ketone	2.5	3.0	J	ppbV	10	10/21/2014 6:37:00 AM
Methyl Isobutyl Ketone	0.47	0.30		ppbV	1	10/21/2014 3:34:00 AM
Methyl tert-butyl ether	1.2	0.15		ppbV	1	10/21/2014 3:34:00 AM
Methylene chloride	0.13	0.15	J	ppbV	1	10/21/2014 3:34:00 AM
o-Xylene	0.96	0.15		ppbV	1	10/21/2014 3:34:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Styrene	0.37	0.15		ppbV	1	10/21/2014 3:34:00 AM
Tetrachloroethylene	5.6	1.5		ppbV	10	10/21/2014 6:37:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Toluene	2.7	1.5		ppbV	10	10/21/2014 6:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
trans 1,3-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Trichloroethene	1.1	0.15		ppbV	1	10/21/2014 3:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 3:34:00 AM
Surr. Bromofluorobenzene	111	70-130		%REC	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 L Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-002A

Client Sample ID: SS-03
 Tag Number: 457,1161
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	7.0	0.82		ug/m3	1	10/21/2014 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2014 3:34:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/21/2014 3:34:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 3:34:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 3:34:00 AM
1,2,4-Trichlorobenzene	1.1	1.1		ug/m3	1	10/21/2014 3:34:00 AM
1,2,4-Trimethylbenzene	6.7	0.74		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 3:34:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/21/2014 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/21/2014 3:34:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/21/2014 3:34:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2014 3:34:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/21/2014 3:34:00 AM
4-ethyltoluene	0.93	0.74		ug/m3	1	10/21/2014 3:34:00 AM
Acetone	460	110		ug/m3	160	10/21/2014 11:40:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/21/2014 3:34:00 AM
Benzene	3.6	0.48		ug/m3	1	10/21/2014 3:34:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/21/2014 3:34:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2014 3:34:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2014 3:34:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	10/21/2014 3:34:00 AM
Carbon disulfide	11	4.7		ug/m3	10	10/21/2014 6:37:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/21/2014 3:34:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/21/2014 3:34:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2014 3:34:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	10/21/2014 3:34:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2014 3:34:00 AM
cis-1,2-Dichloroethene	< 0.69	0.69		ug/m3	1	10/21/2014 3:34:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2014 3:34:00 AM
Cyclohexane	3.3	0.52		ug/m3	1	10/21/2014 3:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2014 3:34:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/21/2014 3:34:00 AM
Ethylbenzene	5.8	0.65		ug/m3	1	10/21/2014 3:34:00 AM
Freon 11	390	130		ug/m3	160	10/21/2014 11:40:00 PM
Freon 113	5.3	1.1		ug/m3	1	10/21/2014 3:34:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-002A

Client Sample ID: SS-03
 Tag Number: 457,1161
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Freon 12	2.9	0.74		ug/m3	1	10/21/2014 3:34:00 AM
Heptane	7.8	6.1		ug/m3	10	10/21/2014 6:37:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2014 3:34:00 AM
Hexane	9.5	5.3		ug/m3	10	10/21/2014 6:37:00 AM
Isopropyl alcohol	14	3.7		ug/m3	10	10/21/2014 6:37:00 AM
m&p-Xylene	12	13	J	ug/m3	10	10/21/2014 6:37:00 AM
Methyl Butyl Ketone	2.7	1.2		ug/m3	1	10/21/2014 3:34:00 AM
Methyl Ethyl Ketone	7.4	8.8	J	ug/m3	10	10/21/2014 6:37:00 AM
Methyl Isobutyl Ketone	1.9	1.2		ug/m3	1	10/21/2014 3:34:00 AM
Methyl tert-butyl ether	4.4	0.54		ug/m3	1	10/21/2014 3:34:00 AM
Methylene chloride	0.45	0.52	J	ug/m3	1	10/21/2014 3:34:00 AM
o-Xylene	4.2	0.65		ug/m3	1	10/21/2014 3:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2014 3:34:00 AM
Styrene	1.6	0.64		ug/m3	1	10/21/2014 3:34:00 AM
Tetrachloroethylene	45	10		ug/m3	10	10/21/2014 6:37:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/21/2014 3:34:00 AM
Toluene	10	5.7		ug/m3	10	10/21/2014 6:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 3:34:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 3:34:00 AM
Trichloroethene	5.9	0.81		ug/m3	1	10/21/2014 3:34:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/21/2014 3:34:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/21/2014 3:34:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/21/2014 3:34:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL102030.D
 Acq On : 21 Oct 2014 3:34 am
 Sample : C1410057-002A
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 04:20:27 2014

Vial: 27
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910 1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UC RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	49244	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.71	114	222659	1.00	ppb	-0.01
51) Chlorobenzene-d5	17.11	117	208775	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.66	95	163375	1.11	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	111.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.67	85	140499	0.58	ppb	98
15) Freon 11	6.44	101	12562552	54.74	ppb	100
16) Acetone	6.62	58	3239433	198.24	ppb	# 40
18) Isopropyl alcohol	6.76	45	351213	6.28	ppb	# 100
20) Freon 113	7.43	101	104338	0.69	ppb	99
22) Methylene chloride	7.73	84	5459	0.13	ppb	# 76
24) Carbon disulfide	7.90	76	606469	3.86	ppb	99
26) methyl tert-butyl ether	8.71	73	186120	1.21	ppb	# 57
29) Methyl Ethyl Ketone	9.63	72	75504	3.29	ppb	# 72
31) Hexane	9.64	57	363113	3.85	ppb	89
37) 1,1,1-trichloroethane	11.49	97	232511	1.28	ppb	98
38) Cyclohexane	12.14	56	88101m	0.96	ppb	
40) Benzene	12.07	78	248397	1.14	ppb	93
44) Heptane	13.16	43	236287	2.58	ppb	92
45) Trichloroethene	13.31	130	113778	1.09	ppb	99
52) Toluene	15.25	92	519903	3.60	ppb	100
53) Methyl Isobutyl Ketone	14.41	43	51999	0.47	ppb	83
55) Methyl Butyl Ketone	15.65	43	50348	0.66	ppb	82
57) Tetrachloroethylene	16.22	164	754949	5.93	ppb	100
60) Ethylbenzene	17.39	91	403498	1.33	ppb	98
61) m&p-xylene	17.55	91	1183128	4.93	ppb	98
63) Styrene	18.00	104	61346	0.37	ppb	# 68
65) o-xylene	18.02	91	294330	0.96	ppb	99
71) 4-ethyltoluene	19.22	105	53912m//	0.19	ppb	
73) 1,2,4-trimethylbenzene	19.71	105	341298	1.36	ppb	99
79) 1,2,4-trichlorobenzene	22.26	180	11508	0.15	ppb	99

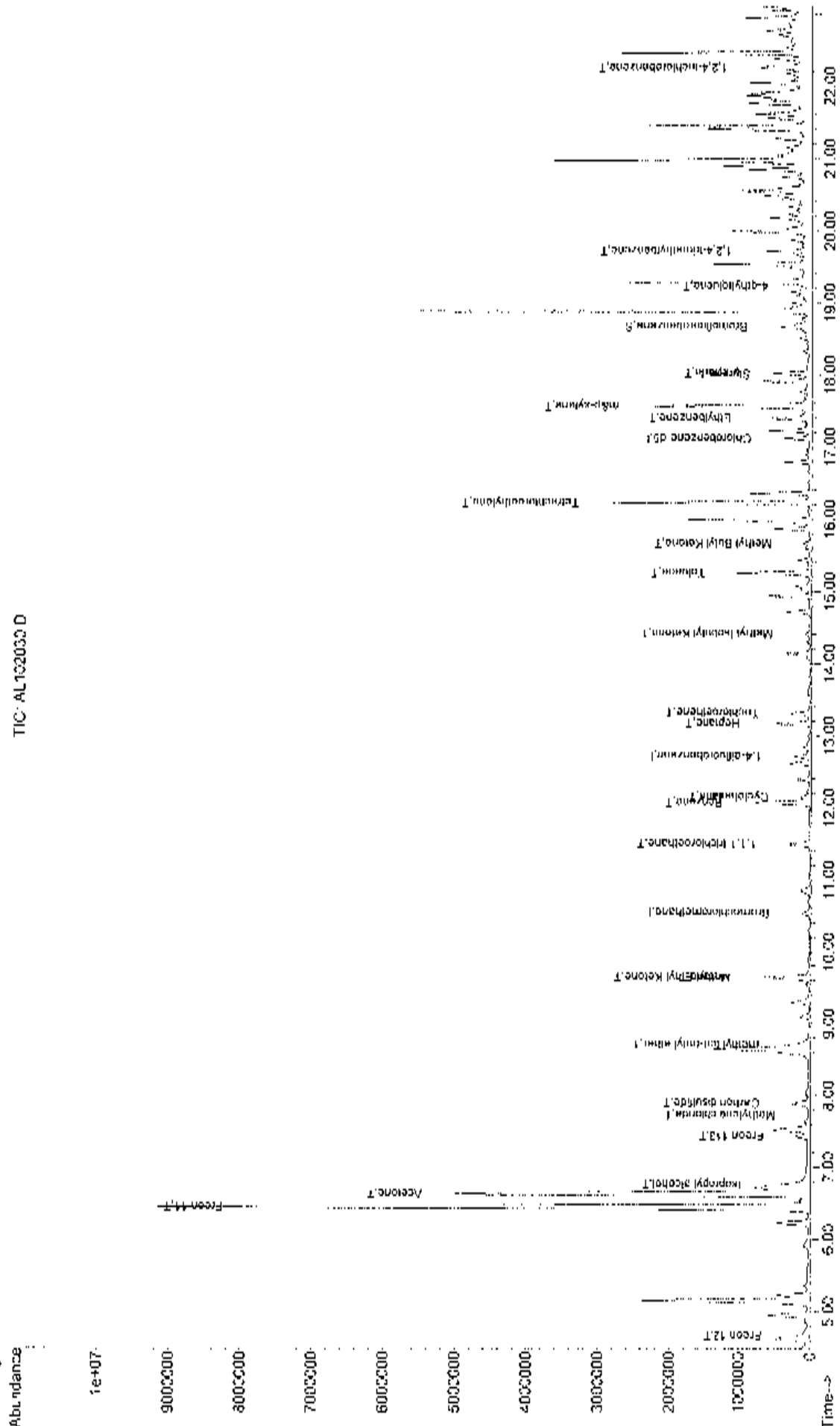
Quantitation report (QT reviewed)

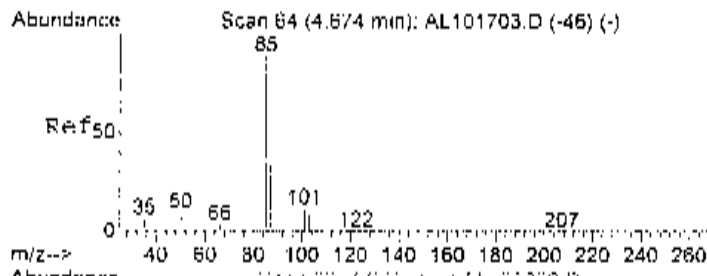
Data File : C:\HPCHEM\1\DATA\ALL02030.D
 Acq On : 21 Oct 2014 3:34 AM
 Sample : C1410057-002A
 Misc : A910_IUG
 MS Integrator Params: RTEINT.P
 Quant Time: Oct 21 10:04 2014

Vial: 27
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_IUG.RES

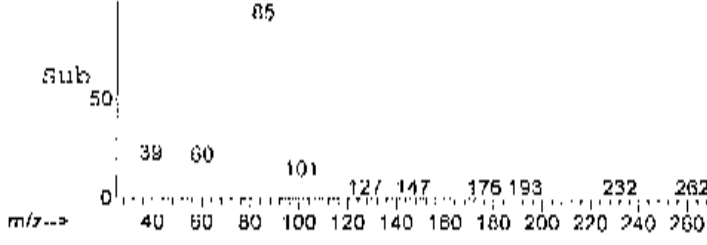
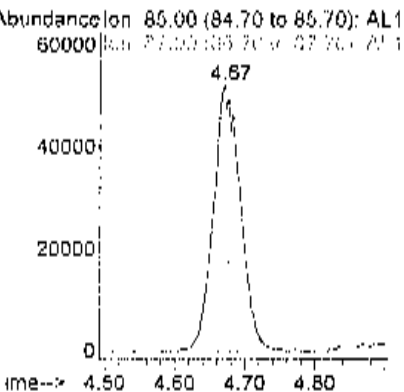
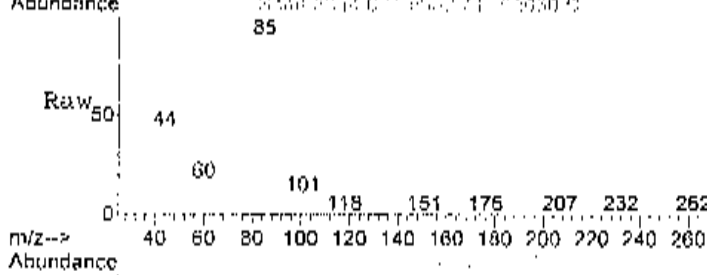
Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Initial Calibration





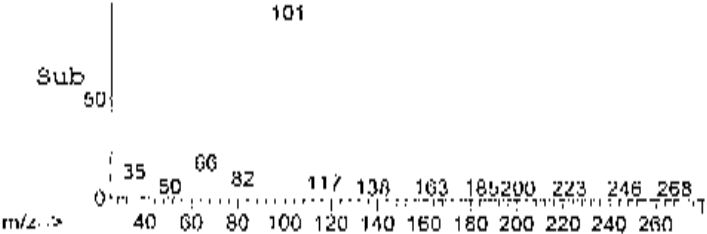
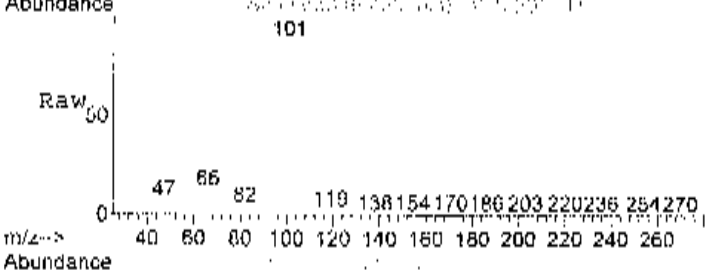
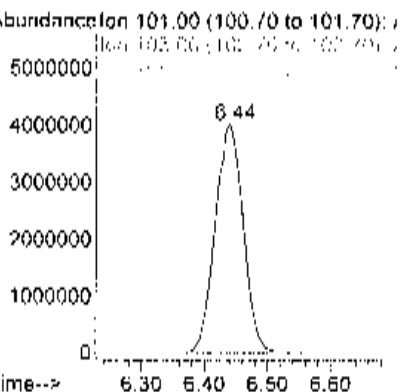
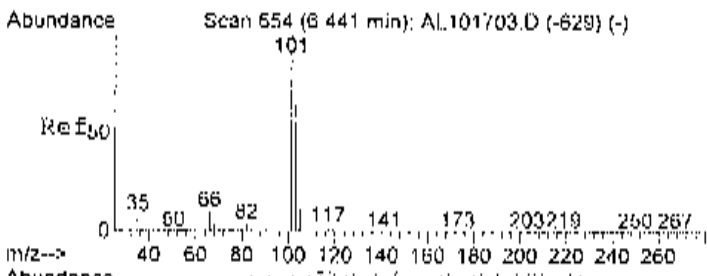
#4
 Freqn 12
 Concn: 0.58 ppb
 RT: 4.67 min Scan# 63
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

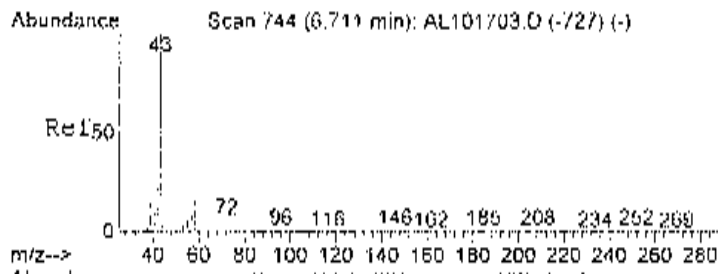
Tgt Ion	Resp	Lower	Upper
85	140499		
87	33.0	12.1	52.1



#15
 Freqn 11
 Concn: 54.74 ppb
 RT: 6.44 min Scan# 653
 Delta R.T. -0.00 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

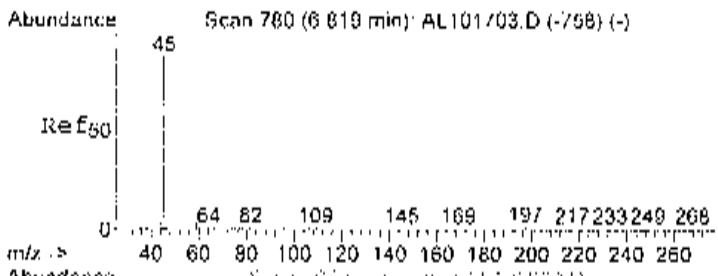
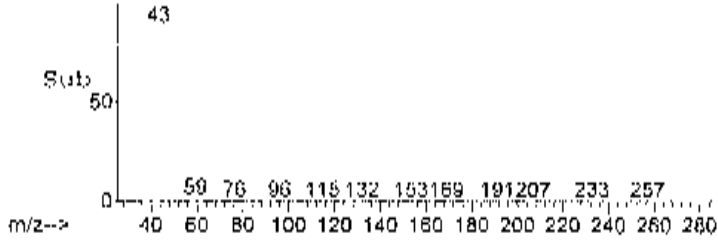
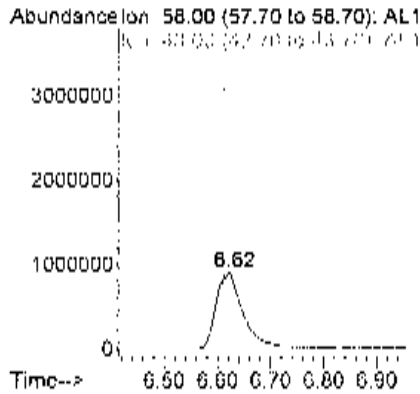
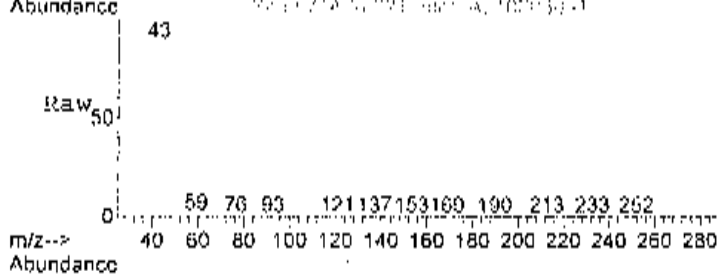
Tgt Ion	Resp	Lower	Upper
101	12562552		
103	65.7	45.8	85.8
105	10.9	0.0	31.2





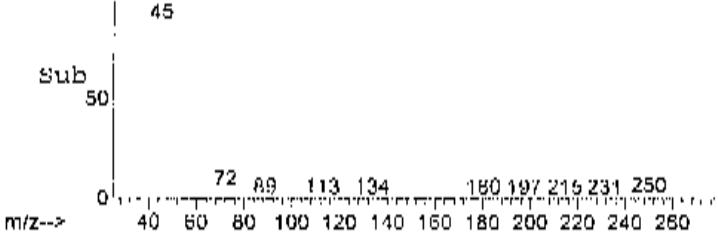
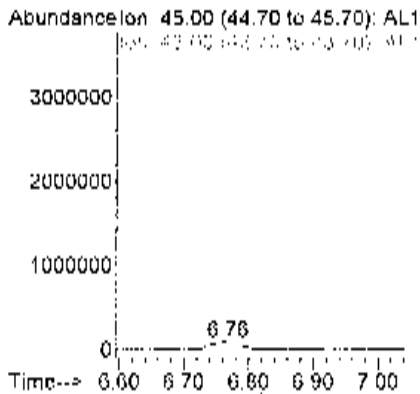
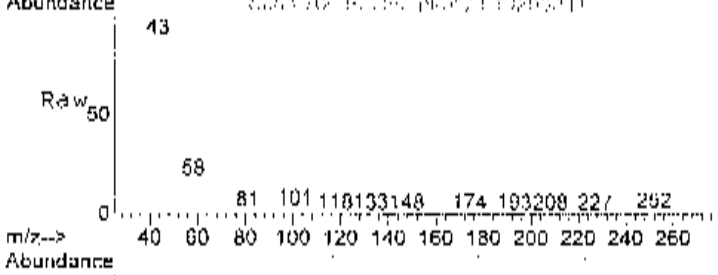
#16
 Acetone
 Concen: 198.24 ppb
 RT: 6.62 min Scan# 714
 Delta R.T. -0.07 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

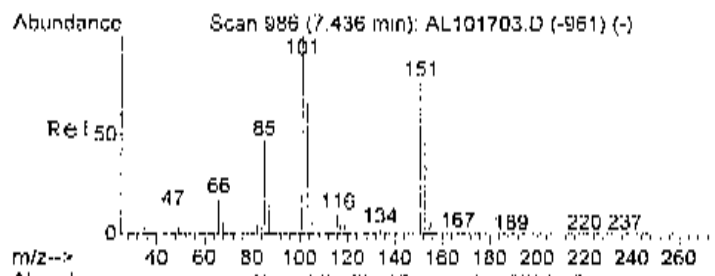
Tgt. Ion	Resp	Lower	Upper
58	3239433		
58	100		
43	369.2	514.7	574.7#



#18
 Isopropyl alcohol
 Concen: 6.28 ppb
 RT: 6.76 min Scan# 760
 Delta R.T. -0.04 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

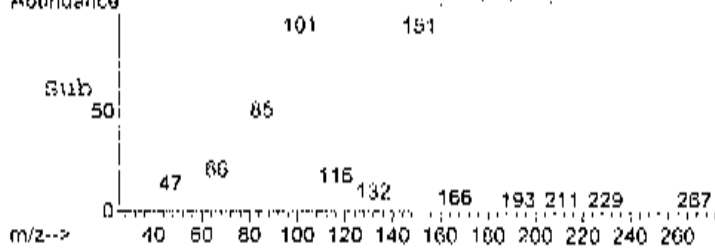
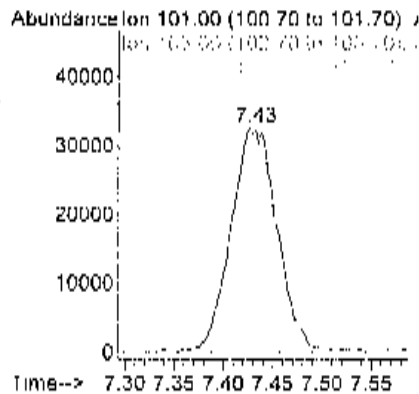
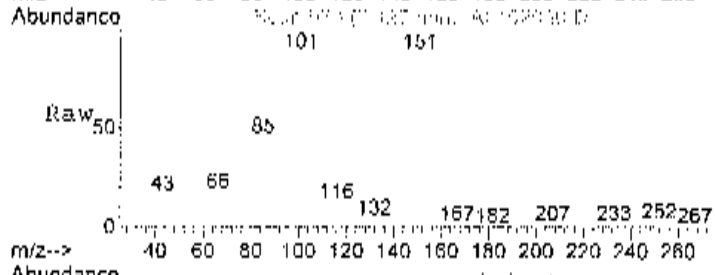
Tgt. Ion	Resp	Lower	Upper
45	351213		
45	100		
43	0.0	0.0	20.0





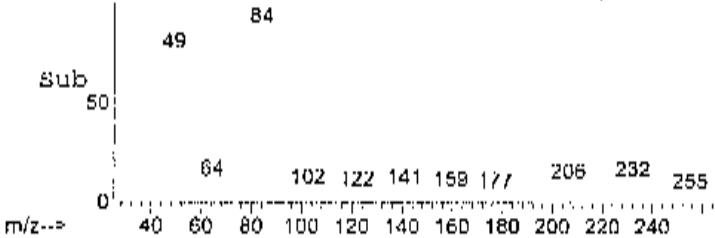
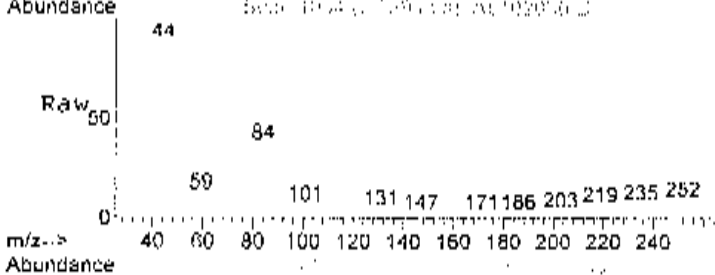
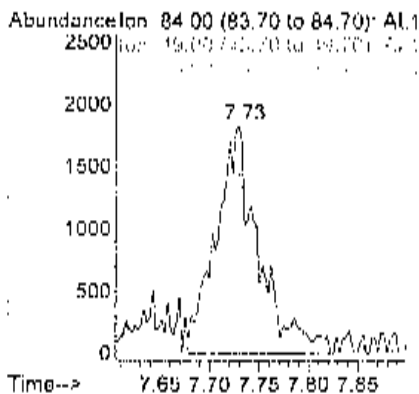
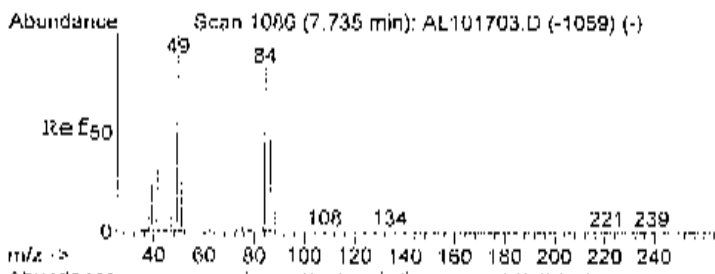
#20
 Freon 113
 Concen: 0.69 ppb
 RT: 7.43 min Scan# 983
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

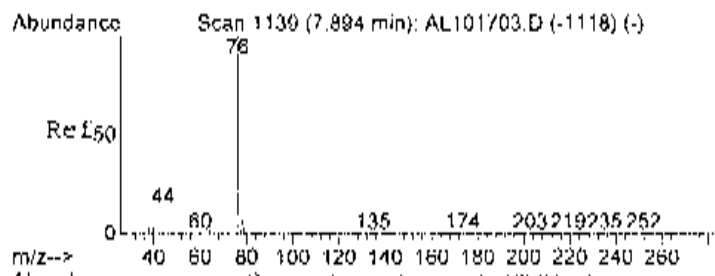
Tgt Ion	Resp	Lower	Upper
101	100		
103	63.8	45.4	85.4
151	94.7	75.1	115.1



#22
 Methylene chloride
 Concen: 0.13 ppb
 RT: 7.73 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

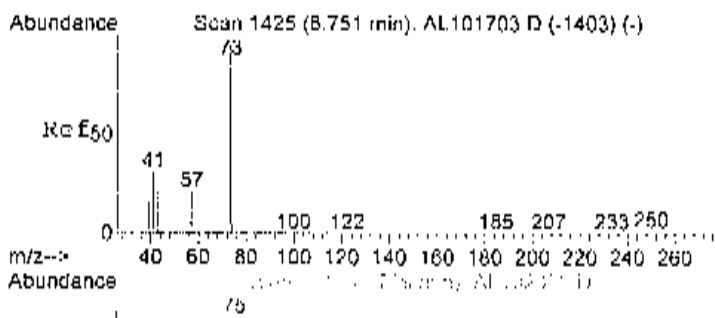
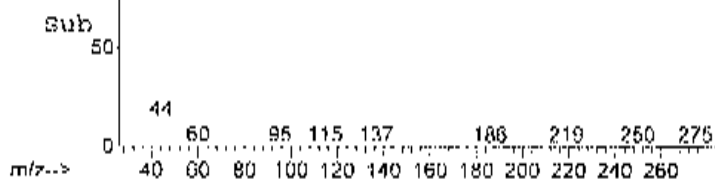
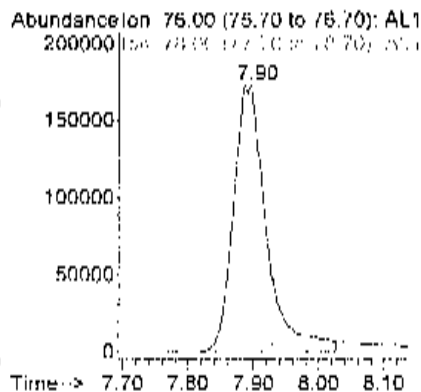
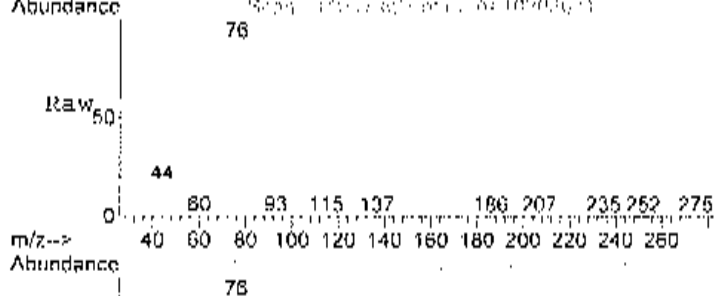
Tgt Ion	Resp	Lower	Upper
84	100		
49	104.3	118.1	158.1#
86	61.0	56.4	96.4





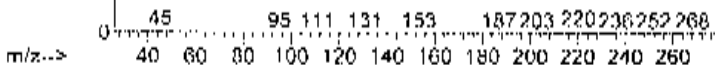
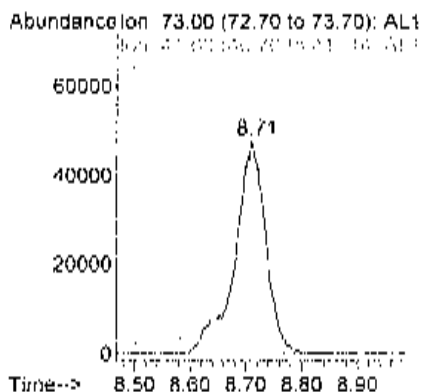
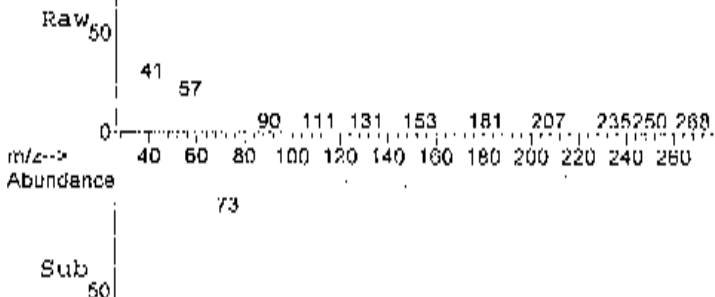
#24
 Carbon disulfide
 Concen: 3.86 ppb
 RT: 7.90 min Scan# 1140
 Delta R.T. 0.00 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

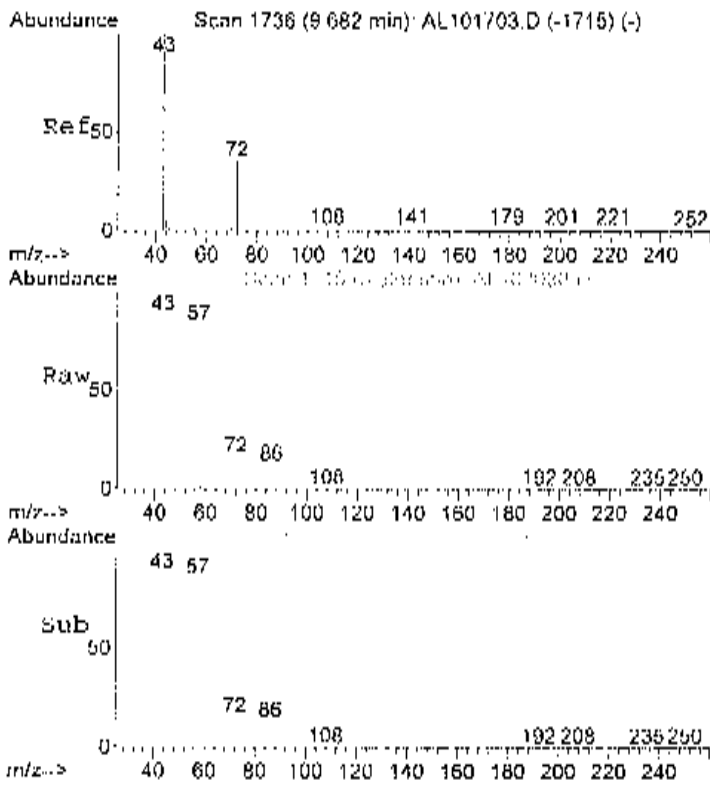
Tgt Ion	Resp	Lower	Upper
76	606469		
76	100		
78	9.6	0.0	29.1



#26
 methyl tert-butyl ether
 Concen: 1.21 ppb
 RT: 8.71 min Scan# 1411
 Delta R.T. -0.04 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

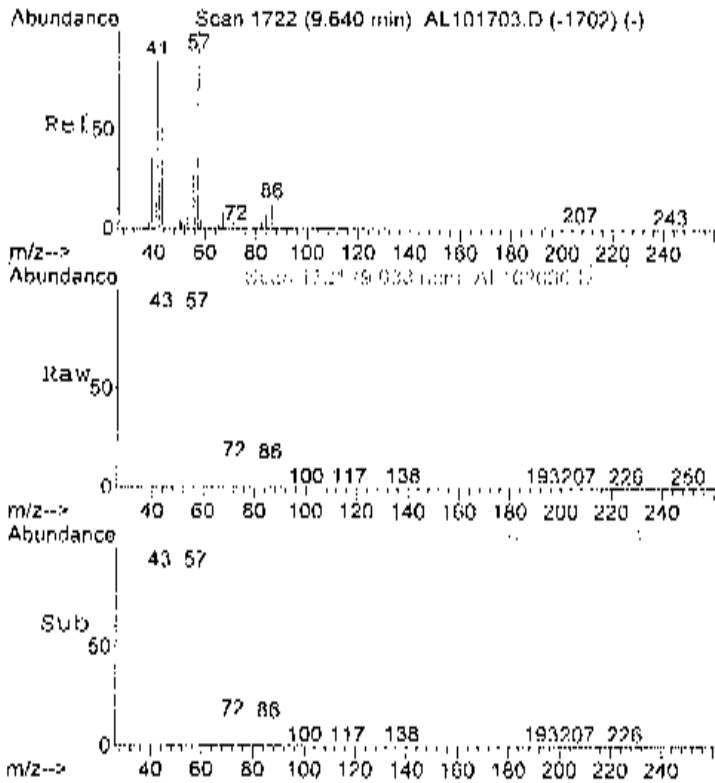
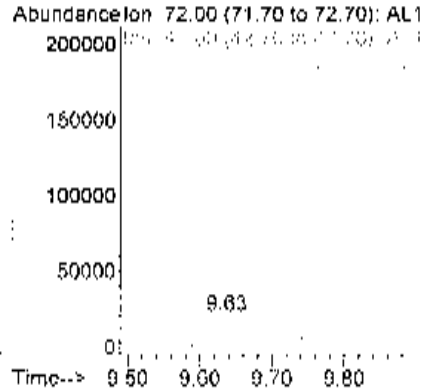
Tgt Ion	Resp	Lower	Upper
73	186120		
73	100		
41	0.0	1.5	41.5#
53	0.0	0.0	21.6





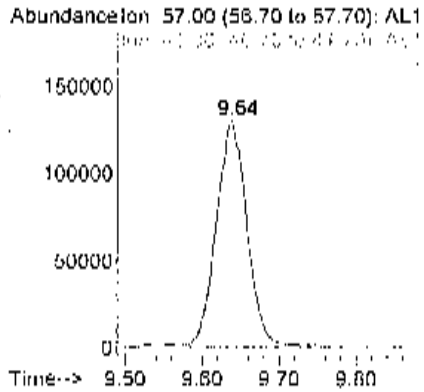
#29
Methyl Ethyl Ketone
Concen: 3.29 ppb
RT: 9.63 min Scan# 1718
Delta R.T. -0.04 min
Lab File: AL102030.D
Acq: 21 Oct 2014 3:34 am

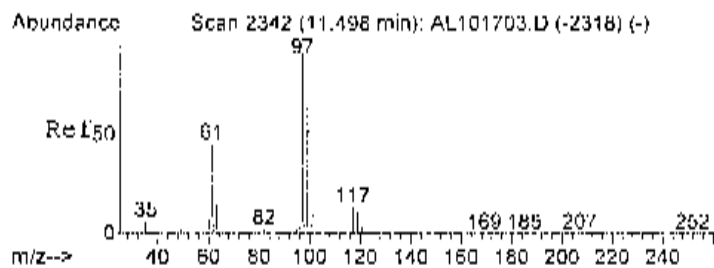
Tgt Ion	Resp	Lower	Upper
72	75504		
72	100		
43	648.4	530.5	570.5#
72	100.0	80.0	120.0



#31
Hexane
Concen: 3.85 ppb
RT: 9.64 min Scan# 1721
Delta R.T. -0.01 min
Lab File: AL102030.D
Acq: 21 Oct 2014 3:34 am

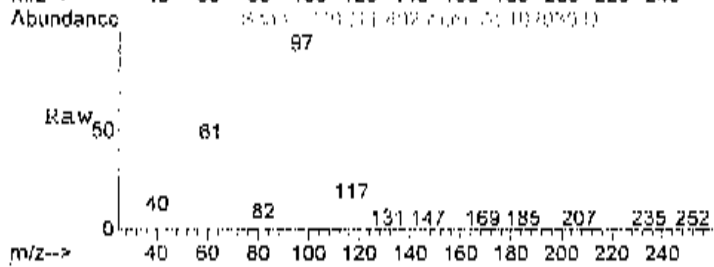
Tgt Ion	Resp	Lower	Upper
57	363113		
57	100		
41	77.8	45.2	85.2
56	51.5	29.0	69.0



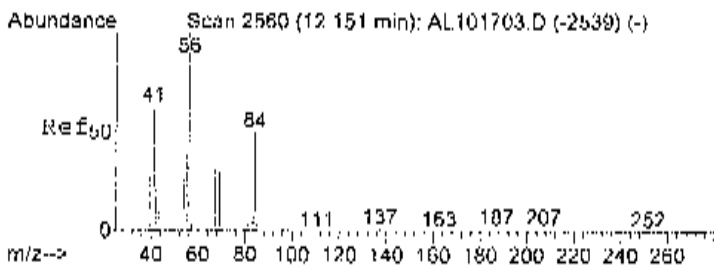
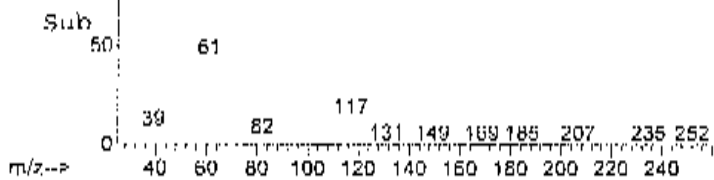
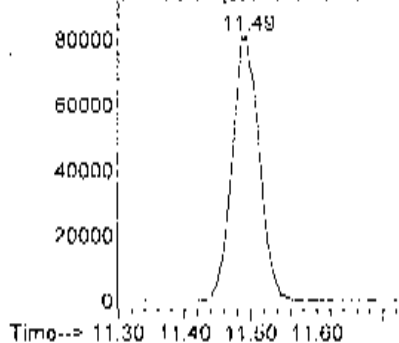


#37
 1,1,1-trichloroethane
 Concen: 1.28 ppb
 RT: 11.49 min Scan# 2340
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

Tgt	Ion	Resp	Lower	Upper
97	100	232511		
99	65.1	43.6	83.6	

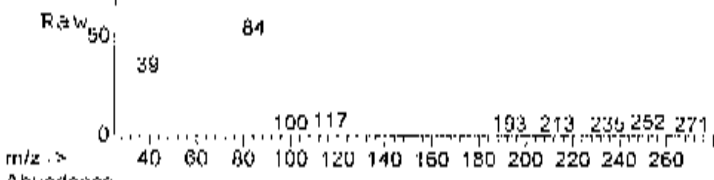


Abundance Ion 97.00 (96.70 to 97.70): AL1
 for 97.00 (96.70 to 97.70): AL1

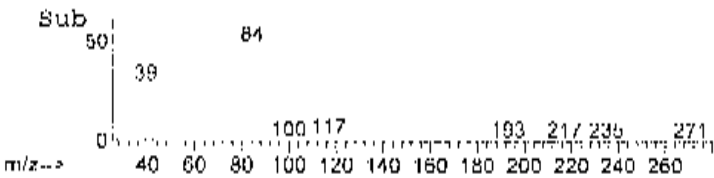
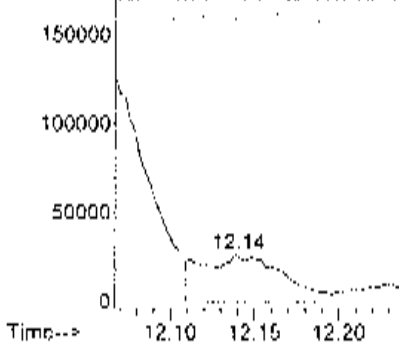


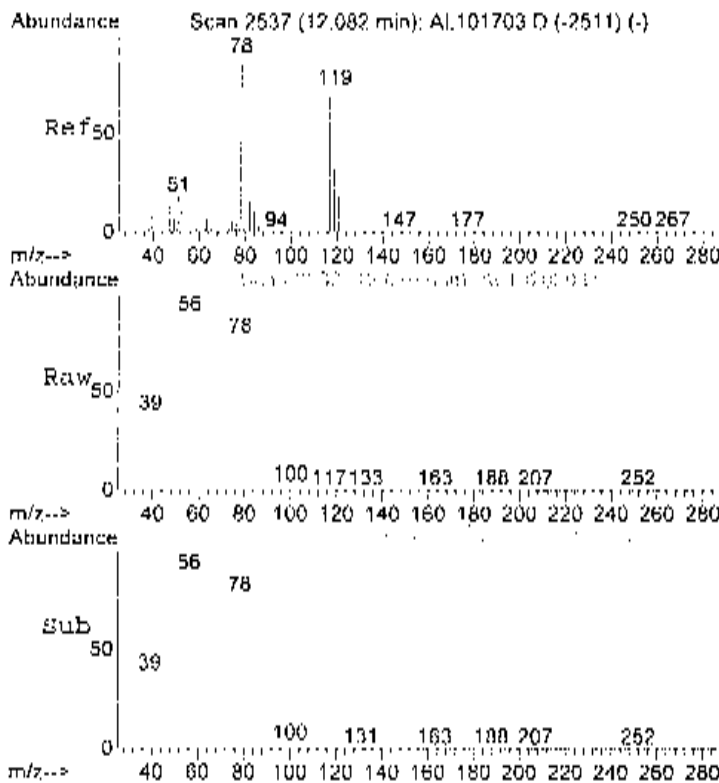
#38
 Cyclohexane
 Concen: 0.96 ppb m
 RT: 12.14 min Scan# 2556
 Delta R.T. 0.02 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

Tgt	Ion	Resp	Lower	Upper
56	100	881.01		
41	486.4	34.6	74.6#	
84	0.0	84.9	124.9#	



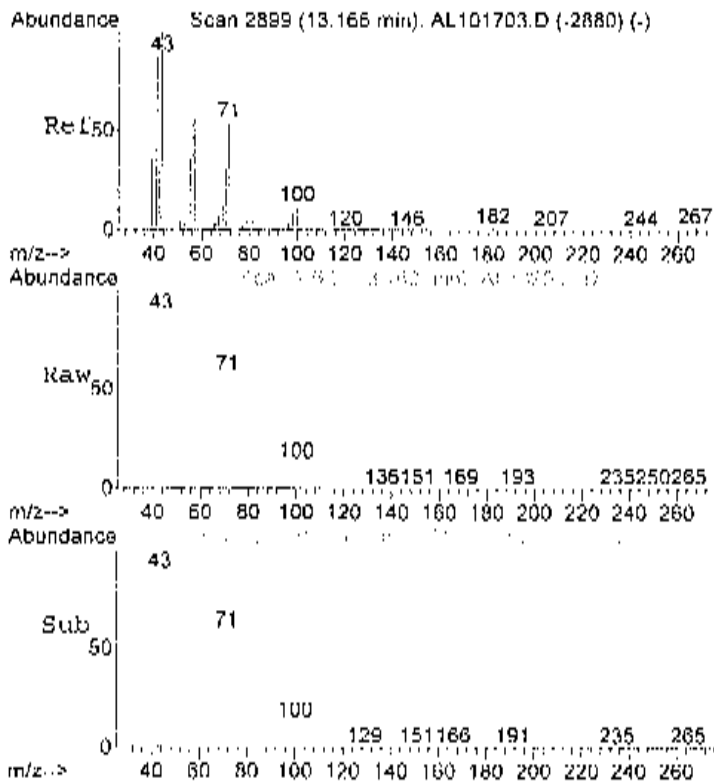
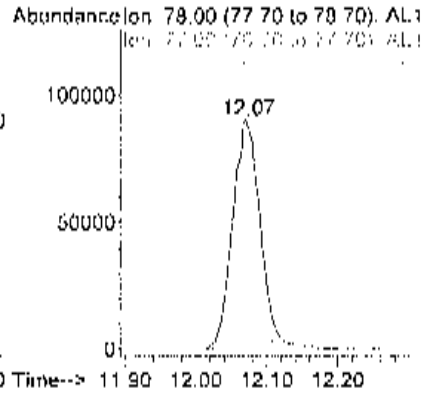
Abundance Ion 56.00 (55.70 to 56.70): AL1
 for 56.00 (55.70 to 56.70): AL1





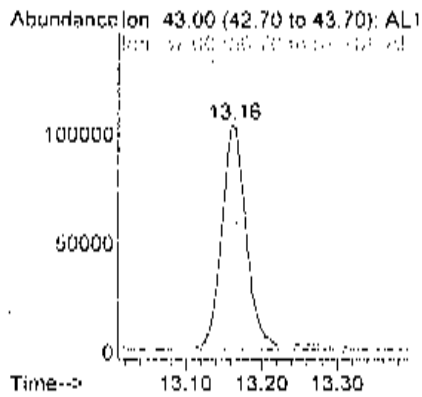
#40
Benzene
Concen: 1.14 ppb
RT: 12.07 min Scan# 2533
Delta R.T. -0.00 min
Lab File: AL102030.D
Acq: 21 Oct 2014 3:34 am

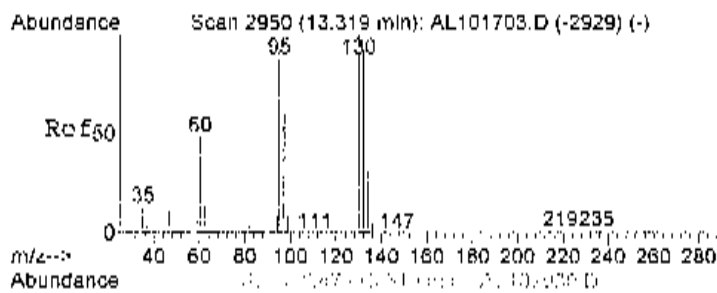
Tgt Ion	Resp	Lower	Upper
78	248397		
77	23.9	3.6	43.6
51	23.2	0.0	36.3



#44
Heptane
Concen: 2.58 ppb
RT: 13.16 min Scan# 2897
Delta R.T. -0.01 min
Lab File: AL102030.D
Acq: 21 Oct 2014 3:34 am

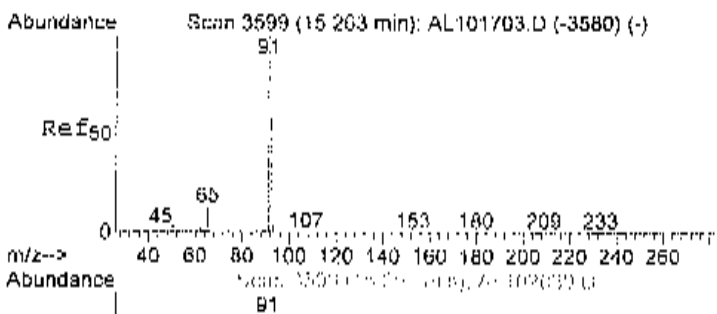
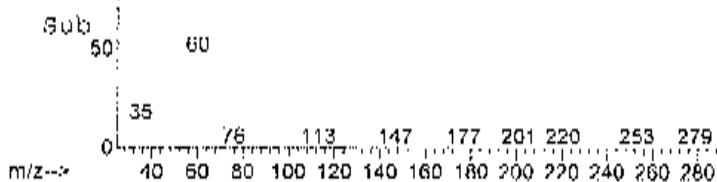
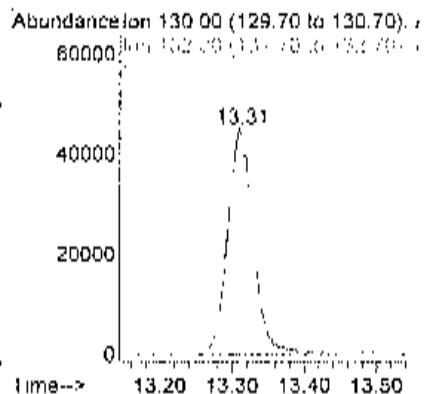
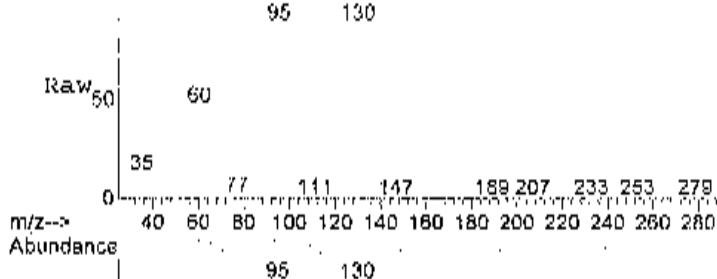
Tgt Ion	Resp	Lower	Upper
43	236287		
57	64.8	34.7	74.7
71	57.8	39.1	79.1





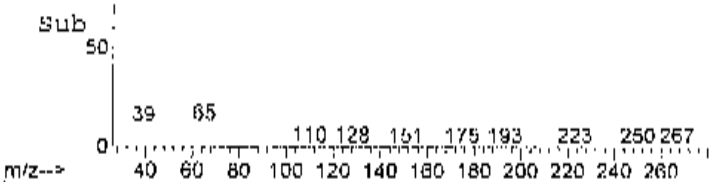
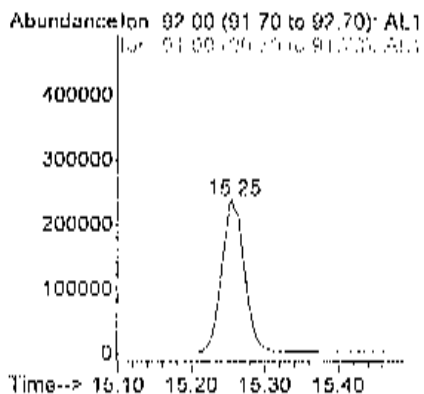
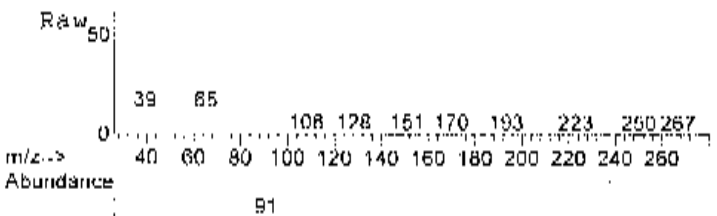
#45
 Trichloroethene
 Concen: 1.09 ppb
 RT: 13.31 min Scan# 2947
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

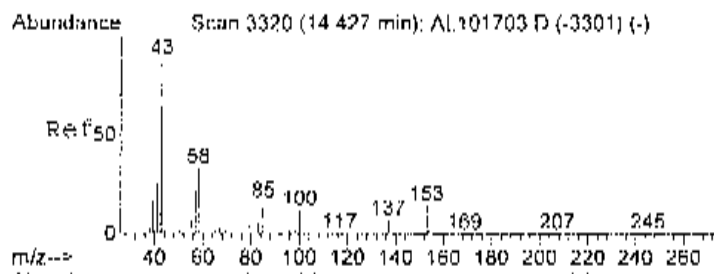
Tgt Ion	Ratio	Lower	Upper
130	100		
132	97.0	78.0	118.0
95	101.8	82.4	122.4



#52
 Toluene
 Concen: 3.60 ppb
 RT: 15.25 min Scan# 3596
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

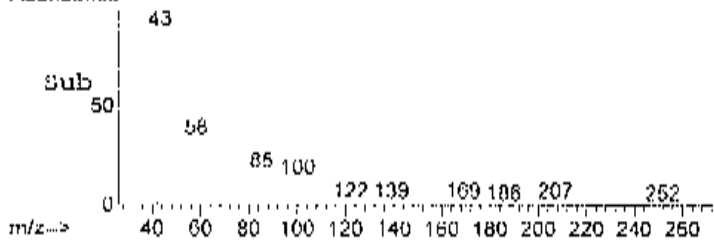
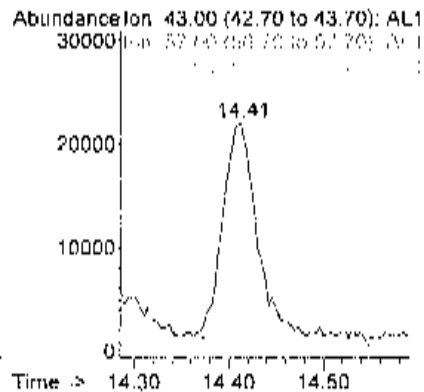
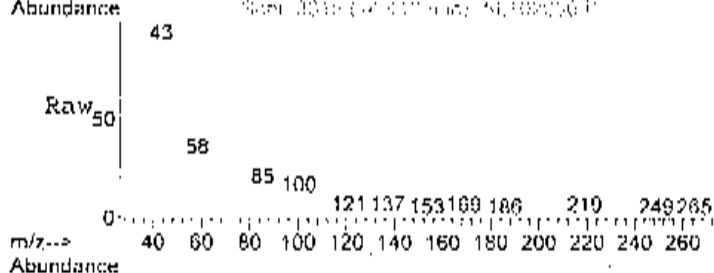
Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.5	154.2	194.2





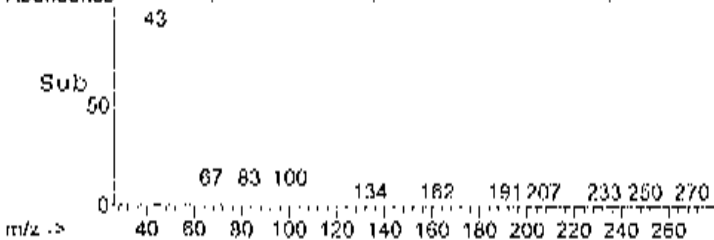
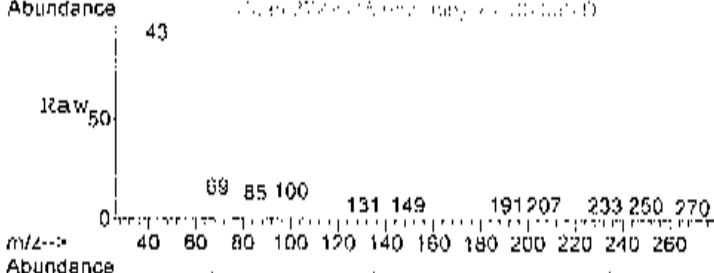
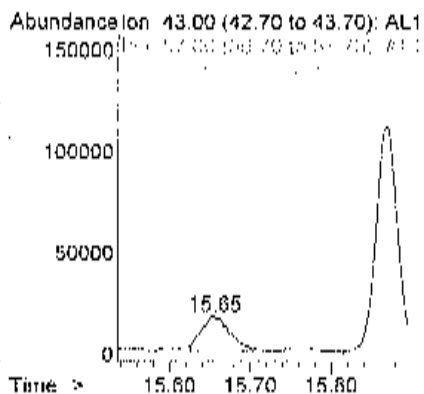
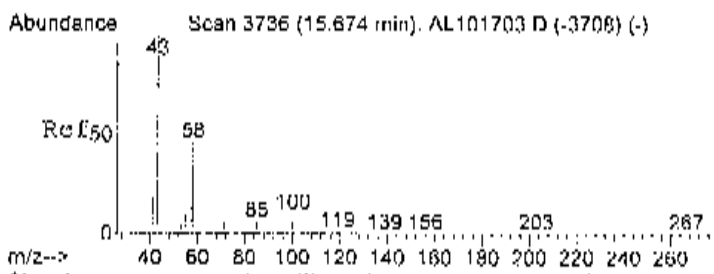
#53
 Methyl Isobutyl Ketone
 Concen: 0.47 ppb
 RT: 14.41 min Scan# 3315
 Delta R.T. -0.02 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

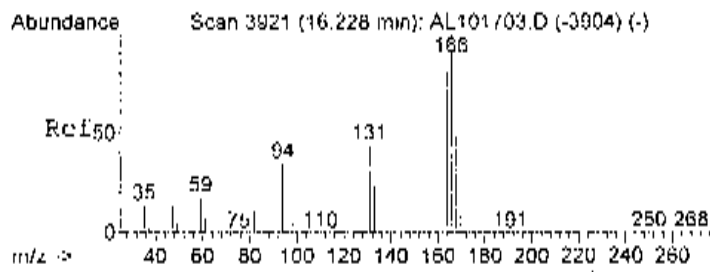
Tgt Ion	Resp	Lower	Upper
43	51999		
57	37.9	3.4	43.4
58	34.5	20.9	60.9



#55
 Methyl Butyl Ketone
 Concen: 0.66 ppb
 RT: 15.65 min Scan# 3729
 Delta R.T. -0.03 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

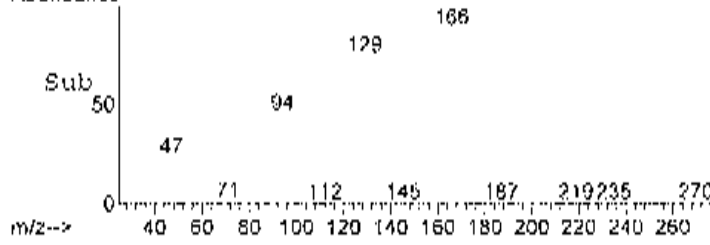
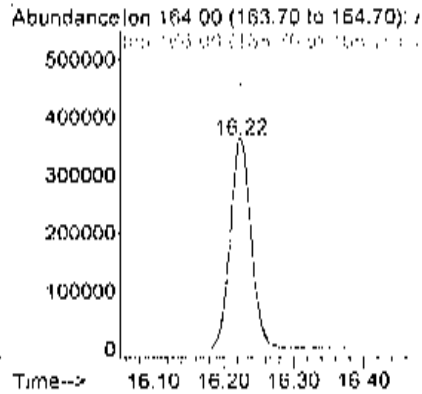
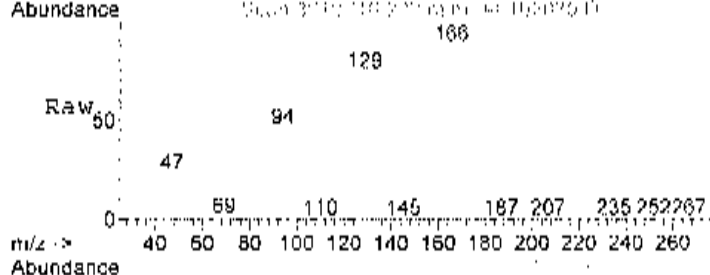
Tgt Ion	Resp	Lower	Upper
43	50348		
57	22.4	0.0	37.4
58	35.0	28.3	68.3





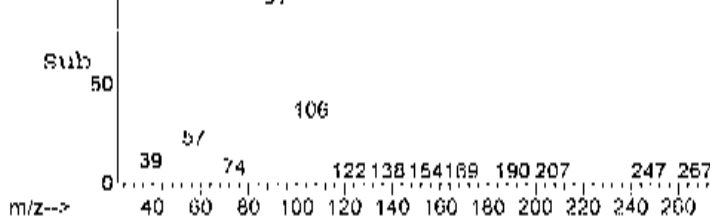
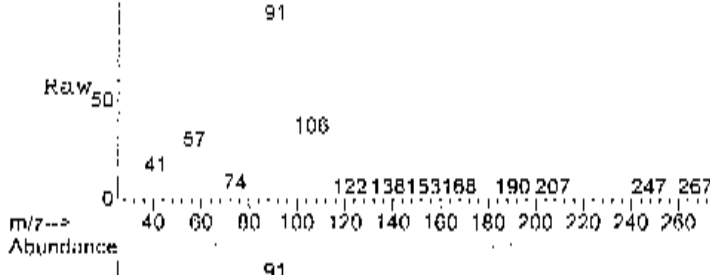
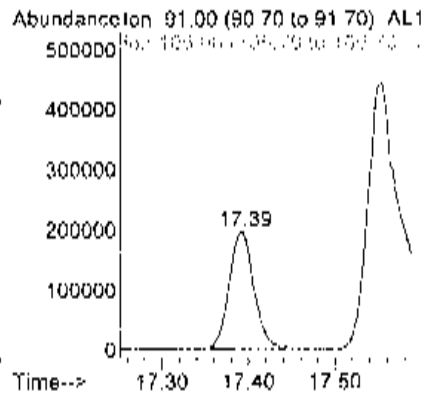
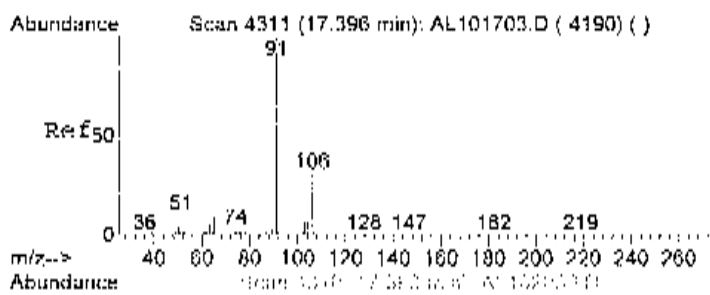
#57
 Tetrachloroethylene
 Concn: 5.93 ppb
 RT: 16.22 min Scan# 3919
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

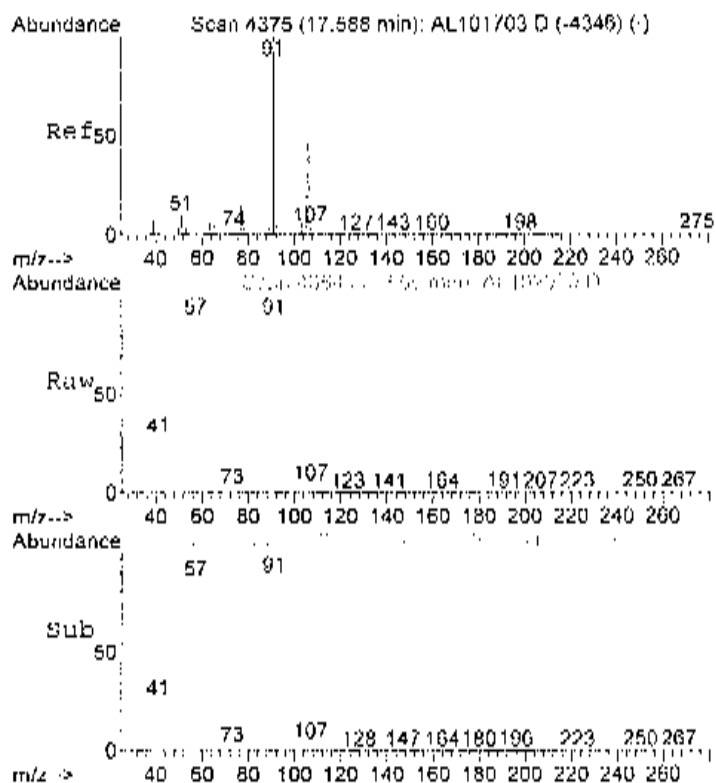
Tgt Ion	Resp	Lower	Upper
164	100		
166	127.8	108.0	148.0



#60
 Ethylbenzene
 Concn: 1.33 ppb
 RT: 17.39 min Scan# 4310
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

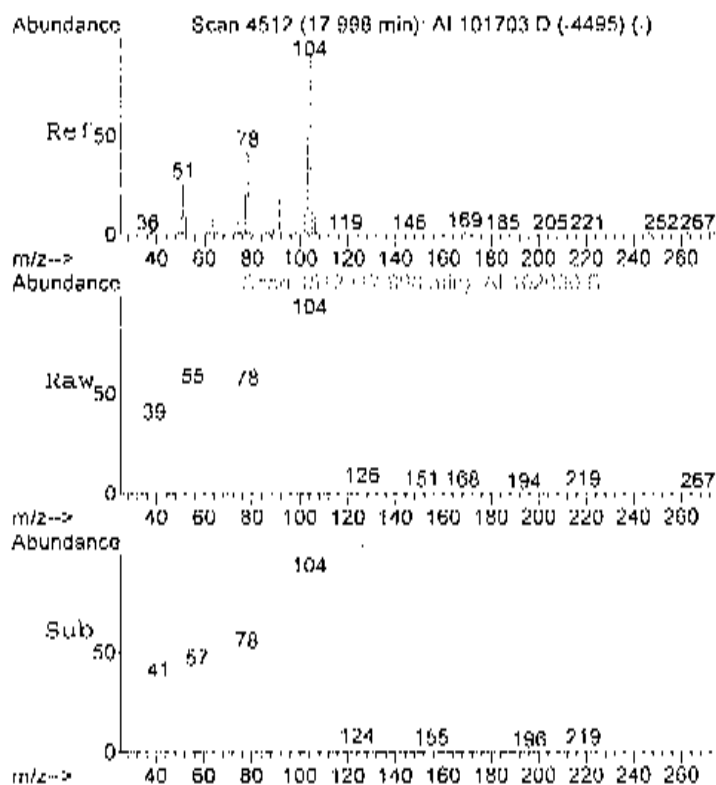
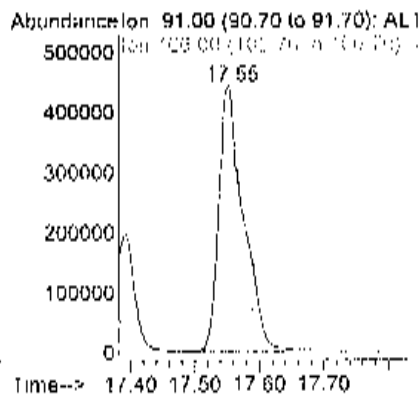
Tgt Ion	Resp	Lower	Upper
91	100		
106	31.2	12.2	52.2





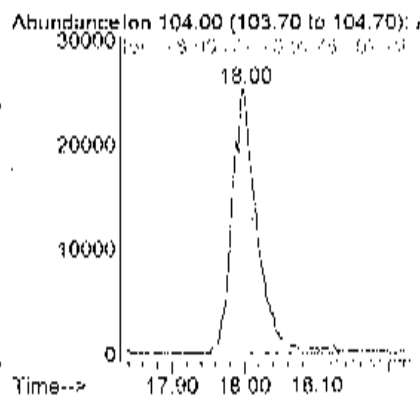
#61
 msp-xylene
 Concent: 4.93 ppb
 RT: 17.55 min Scan# 4364
 Delta R.T. -0.03 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

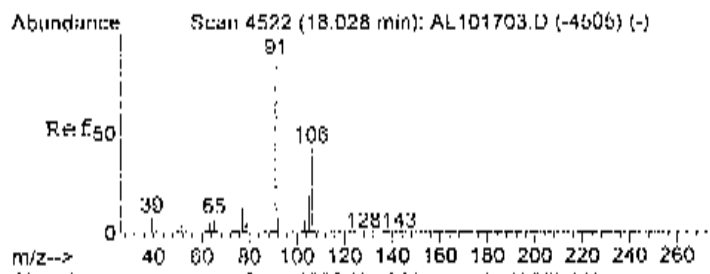
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.8	29.2	69.2



#63
 Styrene
 Concent: 0.37 ppb
 RT: 18.00 min Scan# 4512
 Delta R.T. -0.00 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

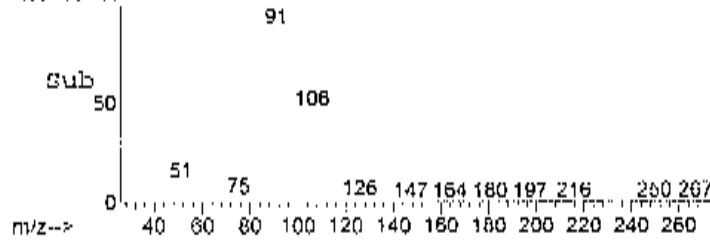
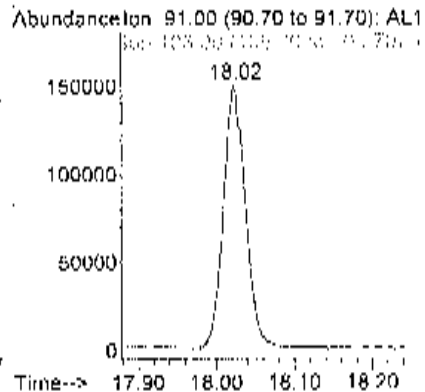
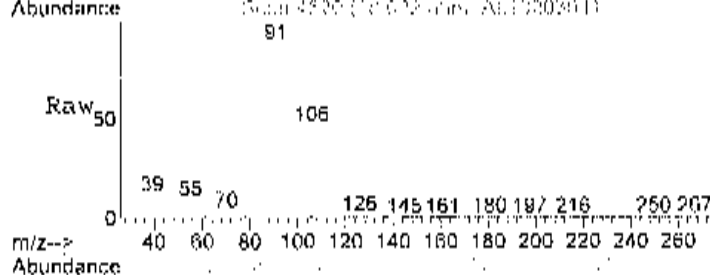
Tgt Ion	Ratio	Lower	Upper
104	100		
78	73.5	31.2	71.2#





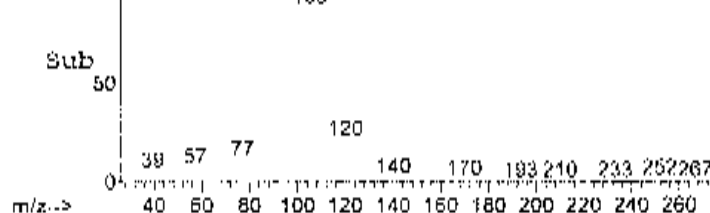
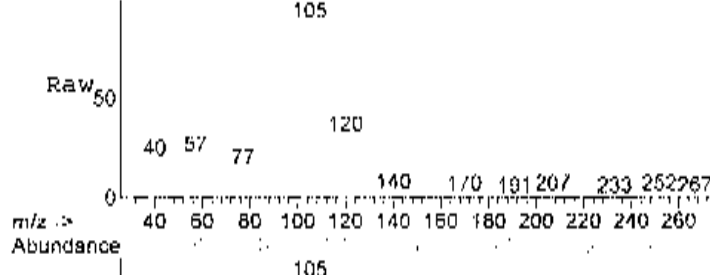
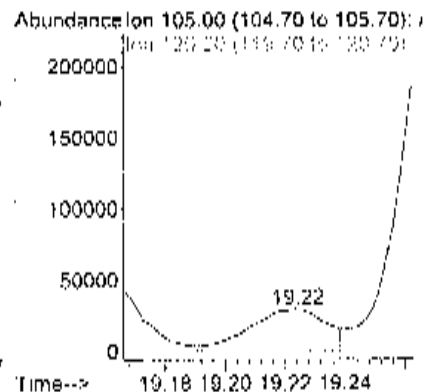
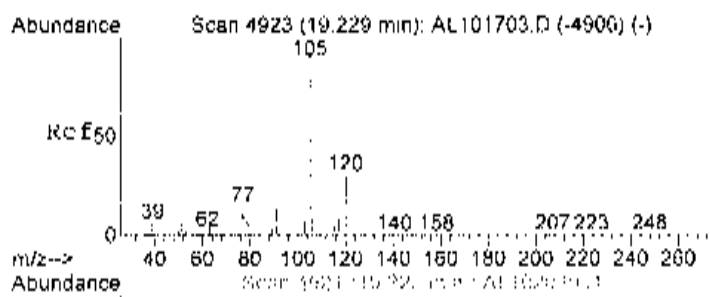
#65
 o-xylene
 Concn: 0.96 ppb
 RT: 18.02 min Scan# 4520
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

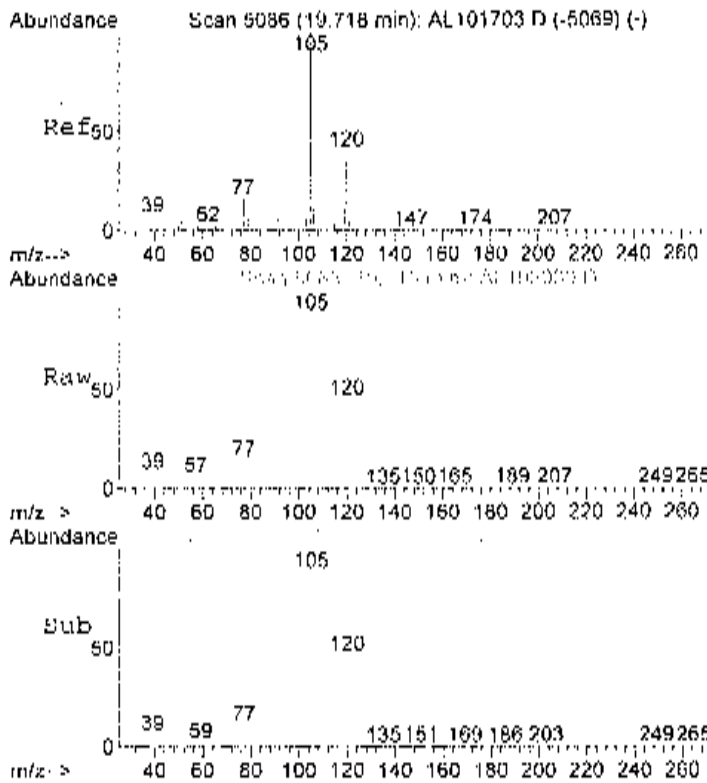
Tgt Ion	Resp	Lower	Upper
91	100		
106	46.2	26.7	66.7



#71
 4-ethyltoluene
 Concn: 0.19 ppb m
 RT: 19.22 min Scan# 4921
 Delta R.T. 0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

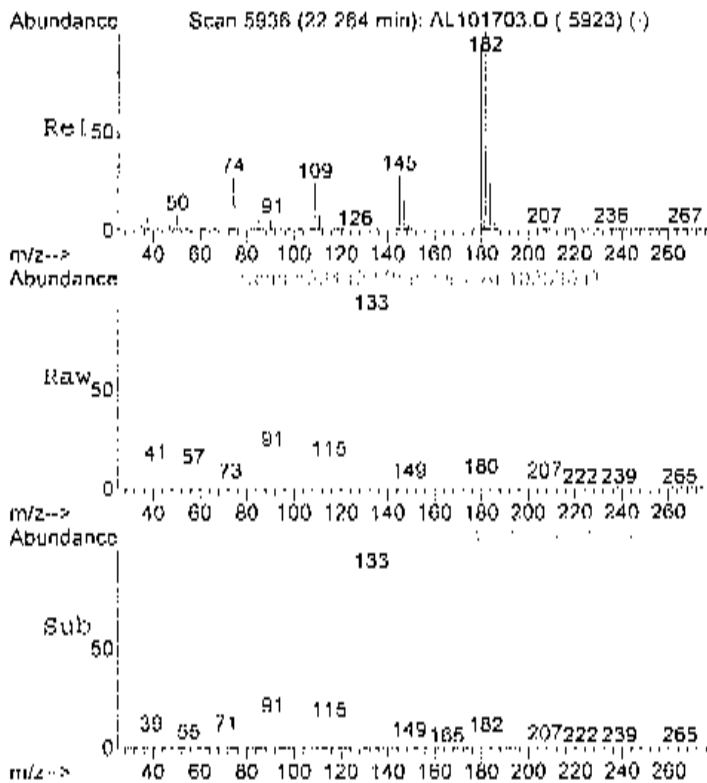
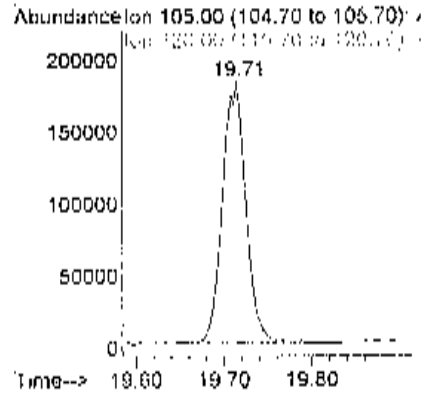
Tgt Ion	Resp	Lower	Upper
105	100		
120	120.8	0.0	20.0#





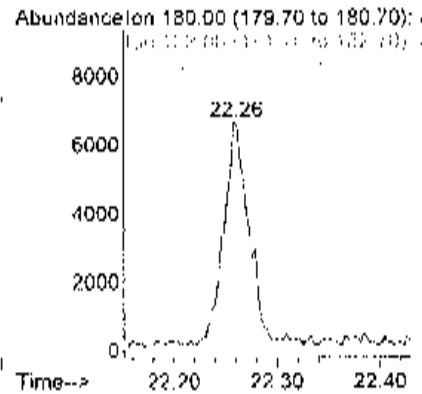
#73
 1,2,4-trimethylbenzene
 Concen: 1.36 ppb
 RT: 19.71 min Scan# 5085
 Delta R.T. -0.00 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

Tgt. Ion	Ratio	Lower	Upper
105	100		
120	44.5	25.3	65.3



#79
 1,2,4-trichlorobenzene
 Concen: 0.15 ppb
 RT: 22.26 min Scan# 5934
 Delta R.T. -0.01 min
 Lab File: AL102030.D
 Acq: 21 Oct 2014 3:34 am

Tgt. Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.2	115.2
184	33.0	10.7	50.7



Data File : C:\HPCHEM\1\DATA\AL102035.D Vial: 32
 Acq On : 21 Oct 2014 6:37 am Operator: RJP
 Sample : C1410057-002A 10X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 10:50:24 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	30940	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	126373	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	94130	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	51261	0.77	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	*	77.00%	

Target Compounds

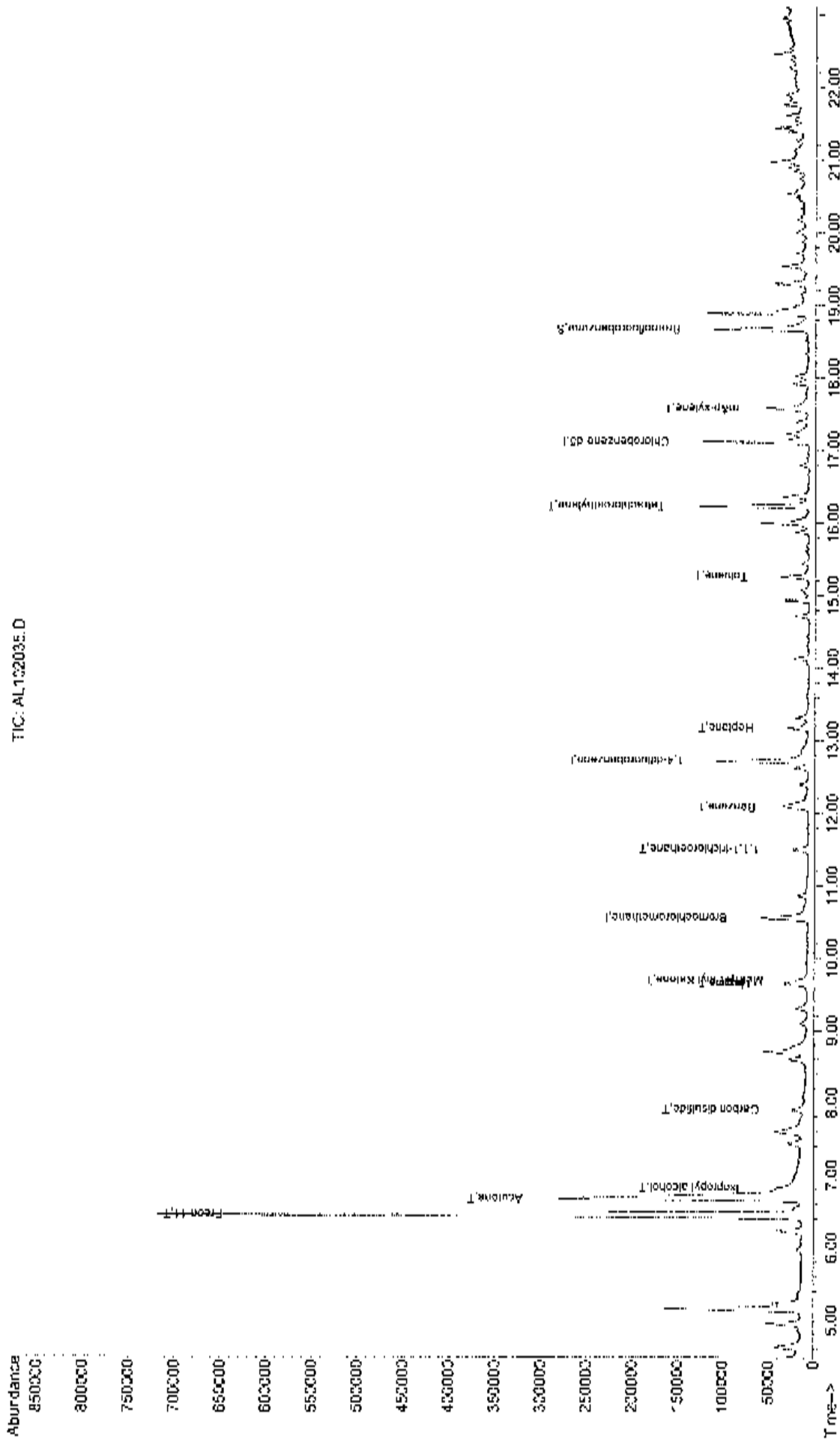
						Qvalue
15) Freon 11	6.44	101	959004	6.65	ppb	99
16) Acetone	6.67	58	187487	18.26	ppb	# 49
18) Isopropyl alcohol	6.82	45	19164	0.55	ppb	# 100
24) Carbon disulfide	7.90	76	35442	0.36	ppb	98
29) Methyl Ethyl Ketone	9.69	72	3605m	0.25	ppb	
31) Hexane	9.64	57	15942	0.27	ppb	# 65
37) 1,1,1-trichloroethane	11.49	97	15522	0.15	ppb	99
40) Benzene	12.07	78	13572	0.11	ppb	83
44) Heptane	13.17	43	9616	0.19	ppb	89
52) Toluene	15.26	92	17812	0.27	ppb	98
57) Tetrachloroethylene	16.23	164	37834	0.66	ppb	99
61) m&p-xylene	17.56	91	30503	0.28	ppb	97

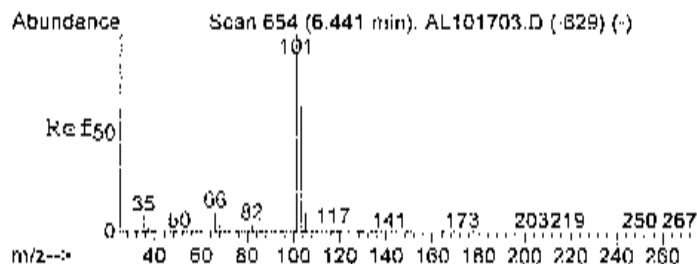
Data File : C:\HPCHEM\1\DATA\AL102035.D
Acq On : 21 Oct 2014 6:37 am
Sample : C1410057-002A 1CX
Misc : A910_103
MS Integration Params: RIEINT.P
Quant Time: Oct 21 10:59 2014

Vial: 32
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A910_103.RES

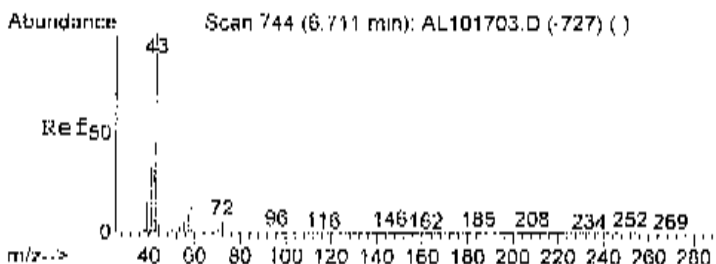
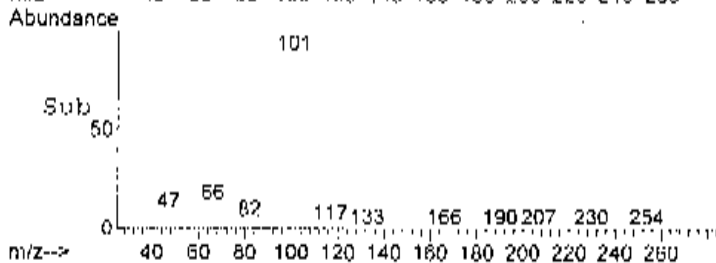
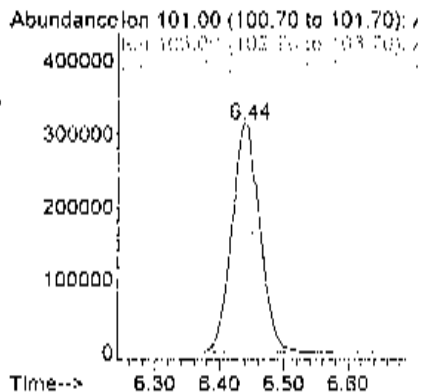
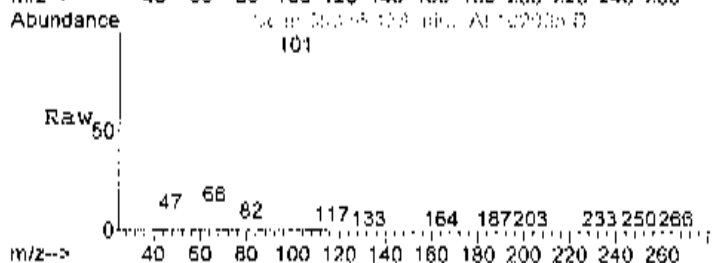
Method : C:\HPCHEM\1\METHODS\A910_103.M (FIE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibrator.





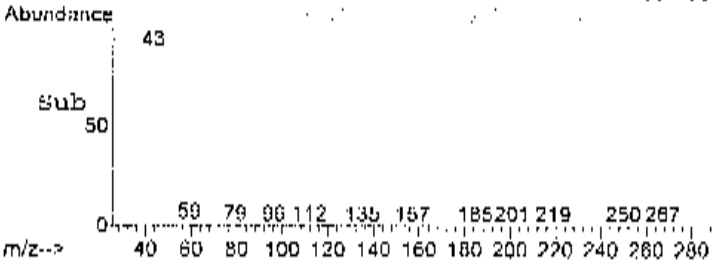
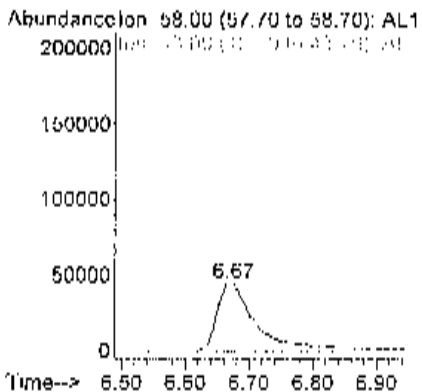
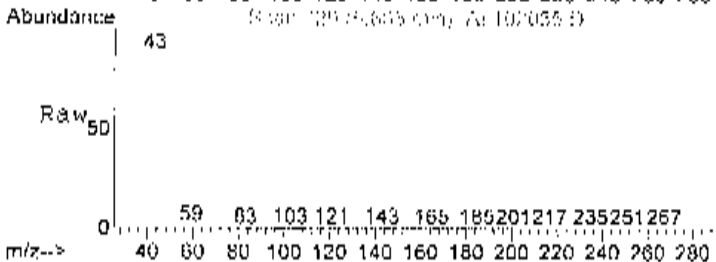
#15
 Freon 11
 Concen: 6.65 ppb
 RT: 6.44 min Scan# 653
 Delta R.T. -0.00 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

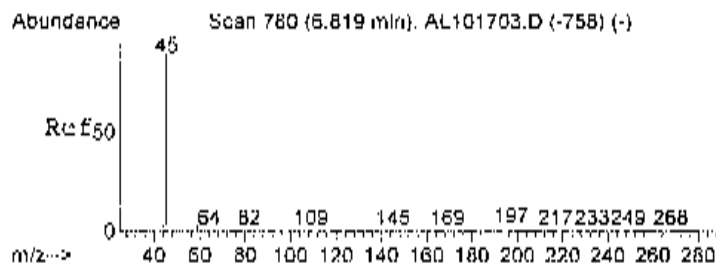
Tgt Ion	Resp	Lower	Upper
101	959004		
103	64.8	45.8	85.8
105	10.6	0.0	31.2



#16
 Acetone
 Concen: 18.26 ppb
 RT: 6.67 min Scan# 729
 Delta R.T. -0.02 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

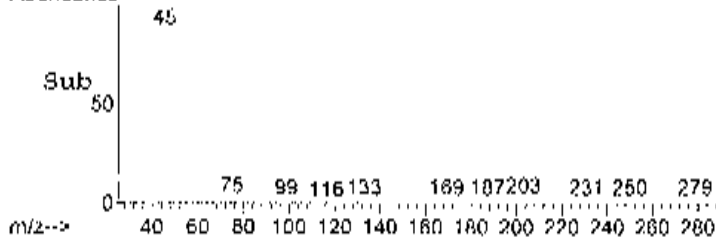
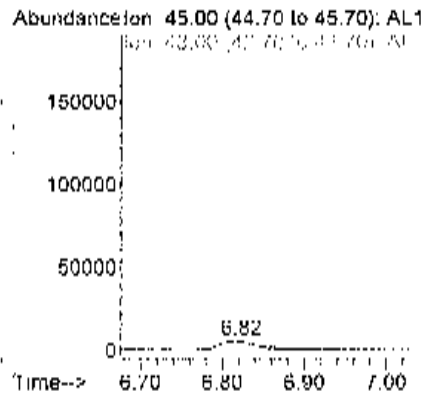
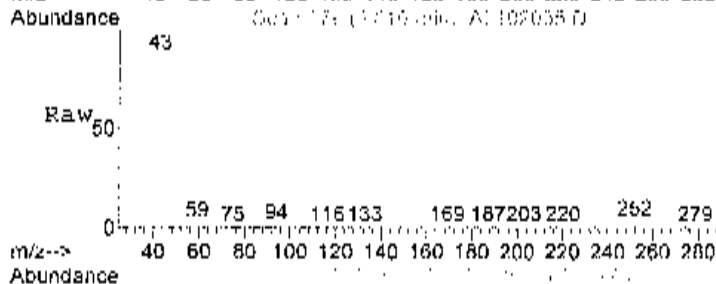
Tgt Ion	Resp	Lower	Upper
58	187487		
43	396.4	514.7	574.7#





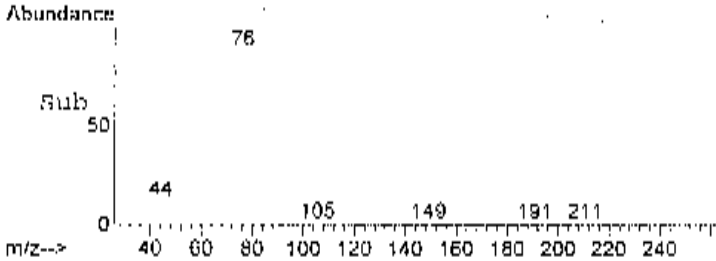
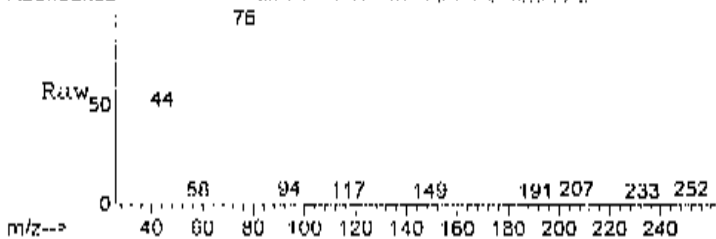
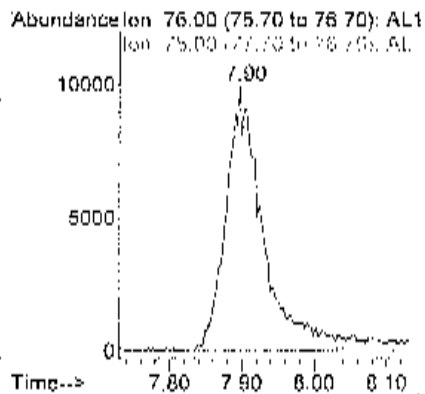
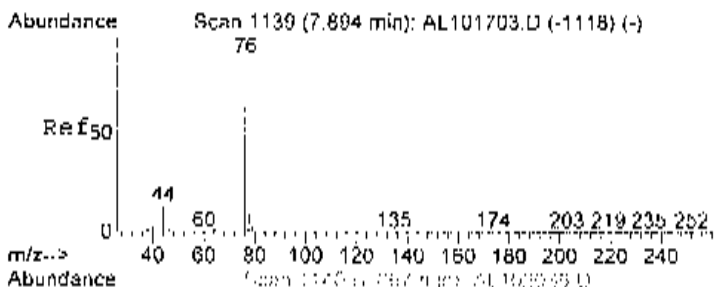
#18
 Isopropyl alcohol
 Concen: 0.55 ppb
 RT: 6.82 min Scan# 779
 Delta R.T. 0.01 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

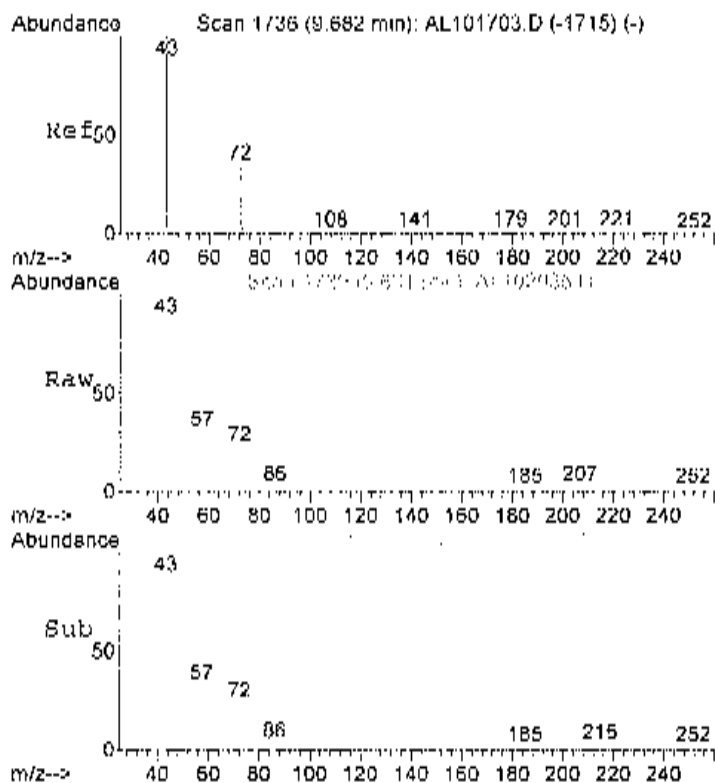
Tgt Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



#24
 Carbon disulfide
 Concen: 0.36 ppb
 RT: 7.90 min Scan# 1140
 Delta R.T. 0.00 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

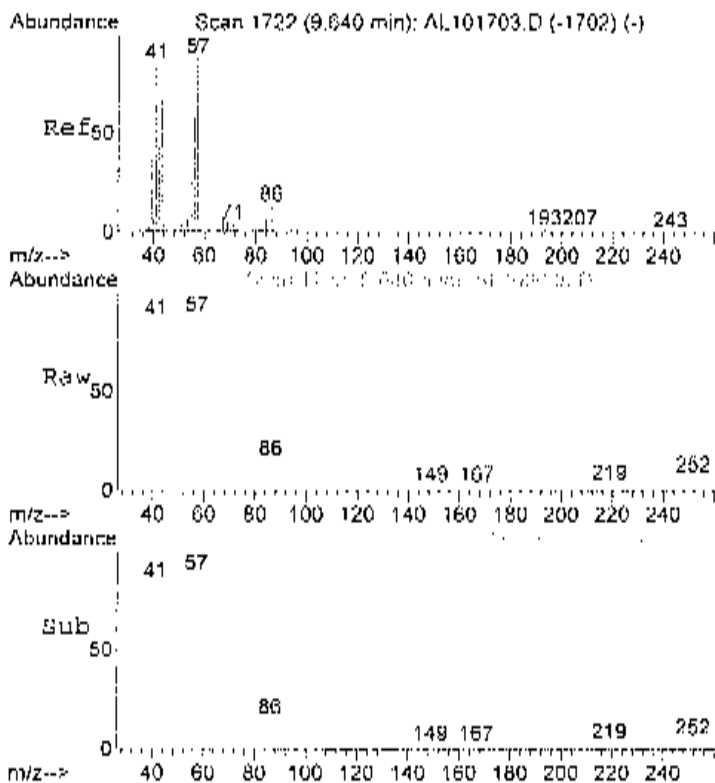
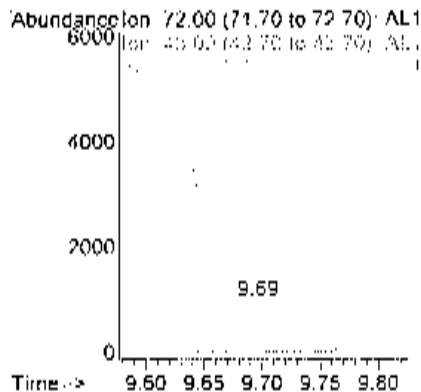
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.8	0.0	29.1





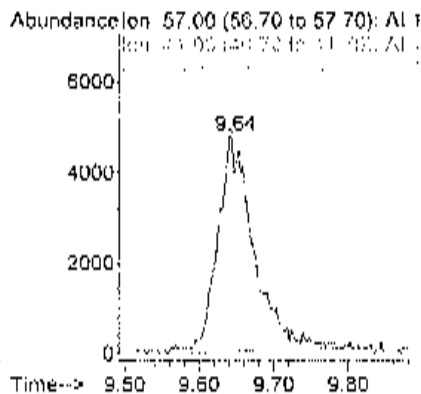
#29
Methyl Ethyl Ketone
Concen: 0.25 ppb m
RT: 9.69 min Scan# 1739
Delta R.T. 0.03 min
Lab File: AL102035.D
Acq: 21 Oct 2014 6:37 am

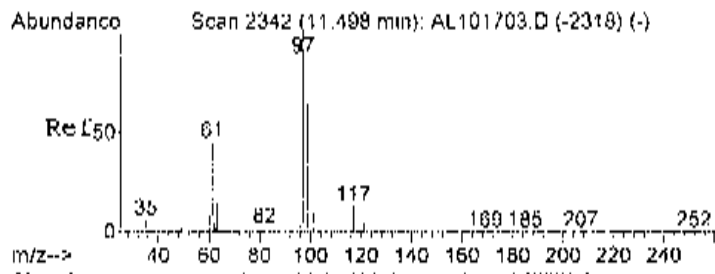
Tgt Ion	Resp	Lower	Upper
72	3605		
72	100		
43	0.0	530.5	570.5#
72	6.7	80.0	120.0#



#31
Hexane
Concen: 0.27 ppb
RT: 9.64 min Scan# 1722
Delta R.T. -0.01 min
Lab File: AL102035.D
Acq: 21 Oct 2014 6:37 am

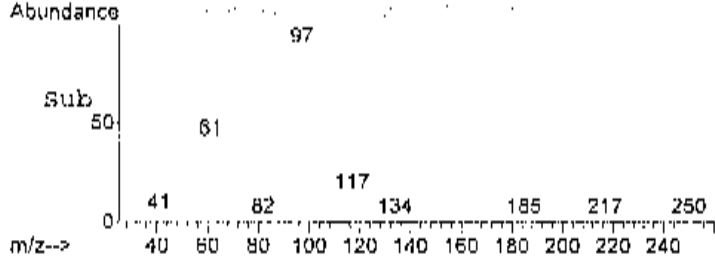
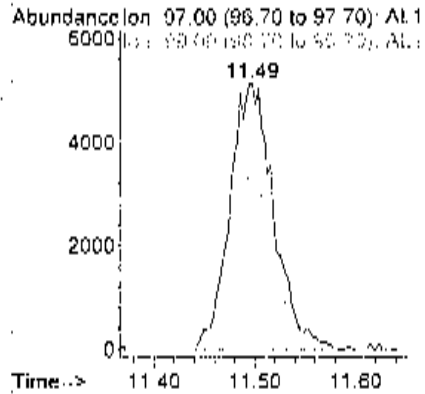
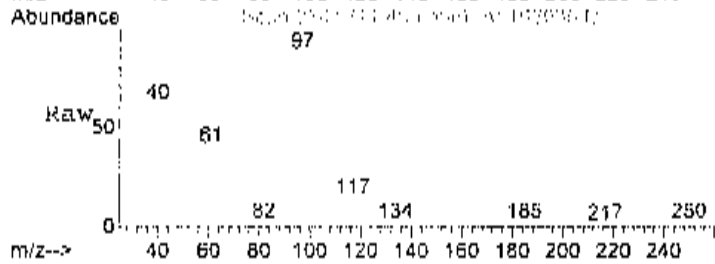
Tgt Ion	Resp	Lower	Upper
57	15942		
57	100		
41	99.7	45.2	85.2#
56	64.5	29.0	69.0





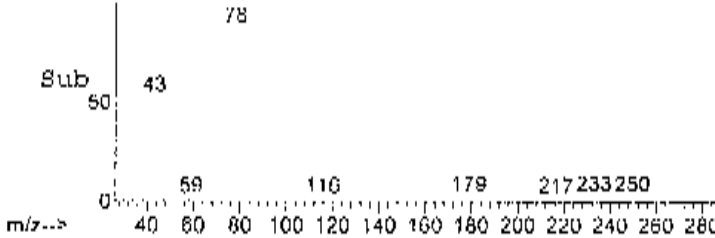
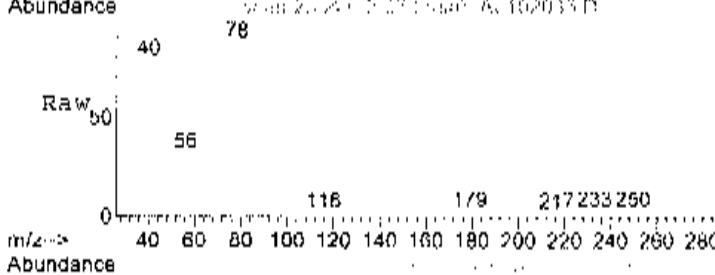
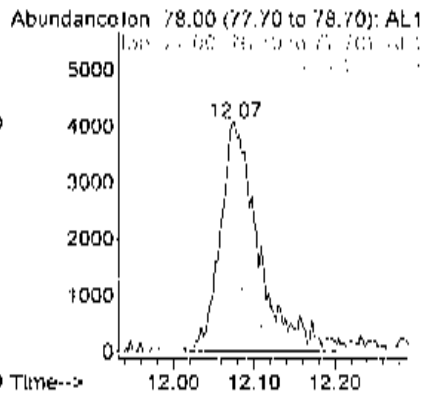
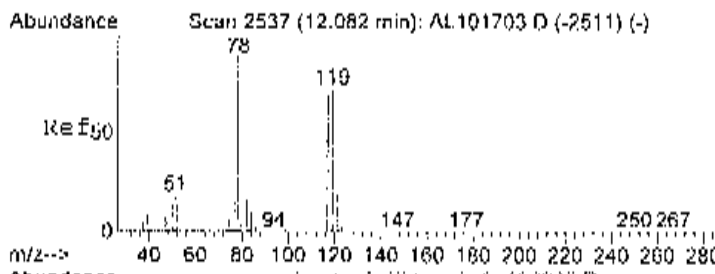
#37
 1,1,1-trichloroethane
 Concen: 0.15 ppb
 RT: 11.49 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

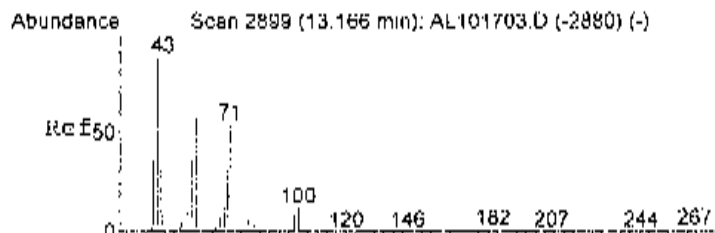
Tgt Ion	Resp	Lower	Upper
97	15522		
97	100		
99	64.7	43.6	83.6



#40
 Benzene
 Concen: 0.11 ppb
 RT: 12.07 min Scan# 2534
 Delta R.T. -0.00 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

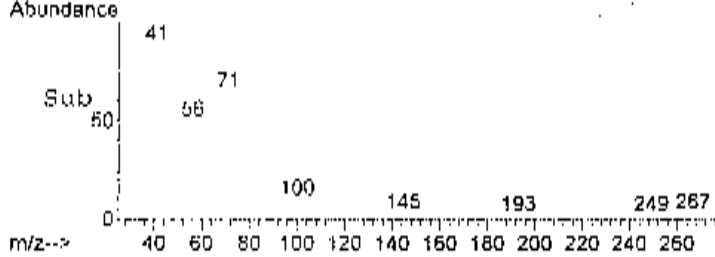
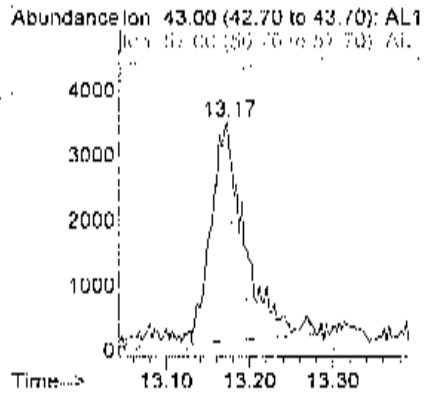
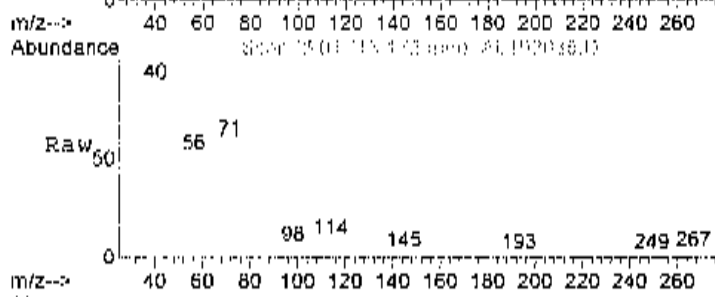
Tgt Ion	Resp	Lower	Upper
78	13572		
78	100		
77	29.1	3.6	43.6
51	27.1	0.0	36.3





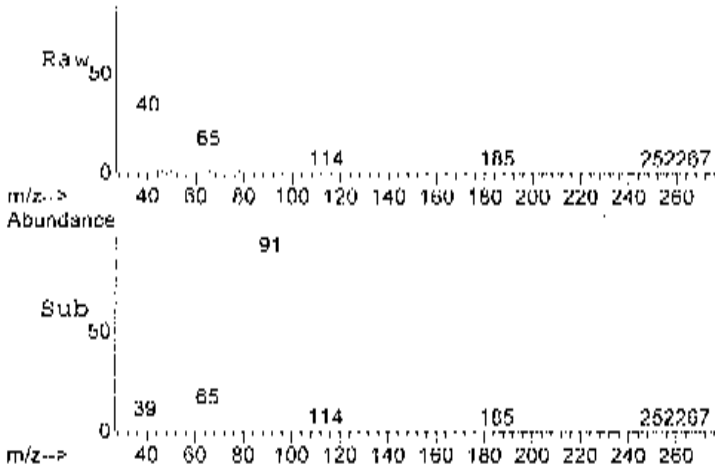
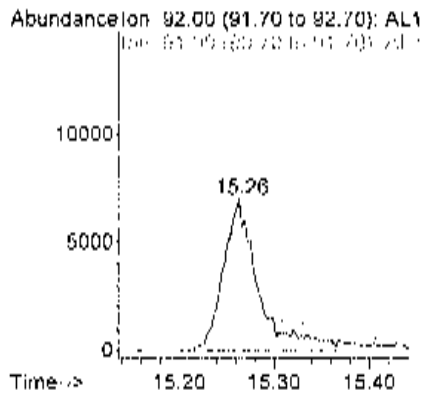
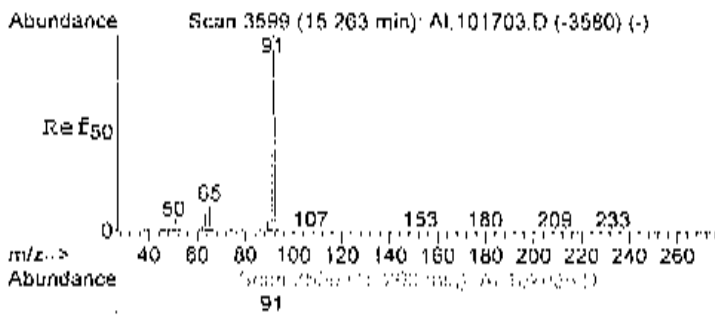
#44
 Heptane
 Concen: 0.19 ppb
 RT: 13.17 min Scan# 2901
 Delta R.T. -0.00 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

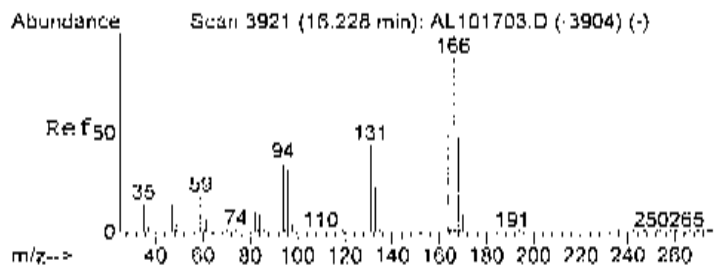
Tgt Ion	Resp	Lower	Upper
43	100		
57	63.0	34.7	74.7
71	50.5	39.1	79.1



#52
 Toluene
 Concen: 0.27 ppb
 RT: 15.26 min Scan# 3599
 Delta R.T. -0.00 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

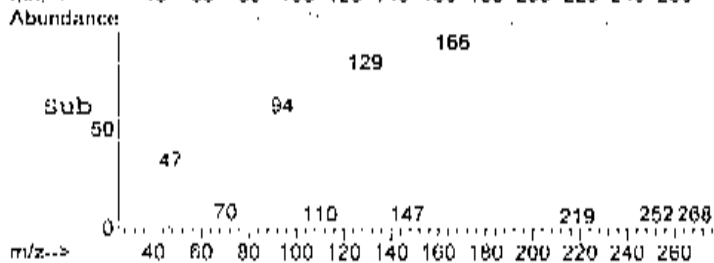
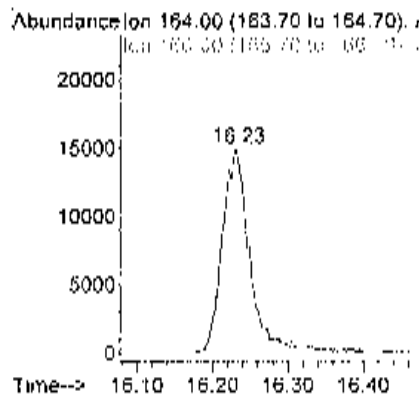
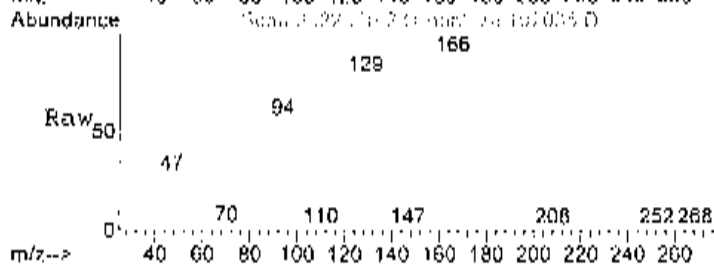
Tgt Ion	Resp	Lower	Upper
92	100		
91	177.1	154.2	194.2





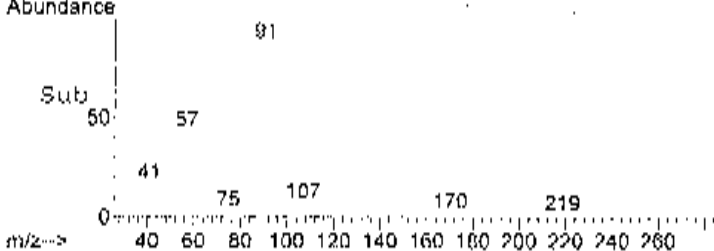
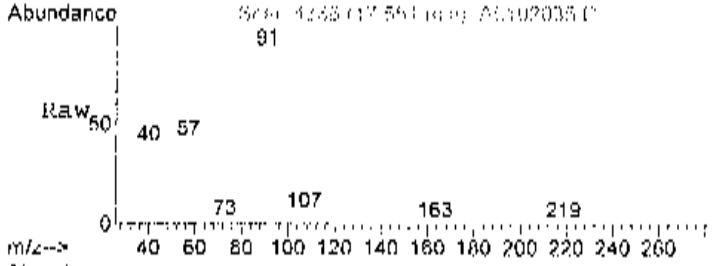
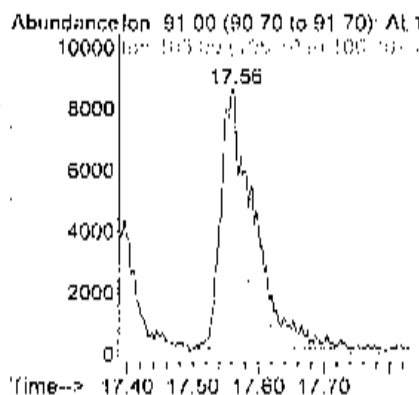
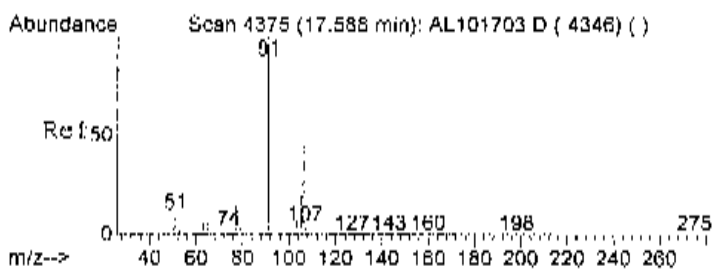
#57
 Tetrachloroethylene
 Concen: 0.66 ppb
 RT: 16.23 min Scan# 3922
 Delta R.T. -0.00 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

Tgt Ion	Resp	Ion Ratio	Lower	Upper
164	37834	100		
166	129.0	108.0	148.0	



#61
 m&p-xylene
 Concen: 0.28 ppb
 RT: 17.56 min Scan# 4366
 Delta R.T. -0.03 min
 Lab File: AL102035.D
 Acq: 21 Oct 2014 6:37 am

Tgt Ion	Resp	Ion Ratio	Lower	Upper
91	30503	100		
106	51.4	29.2	69.2	



Data File : C:\HPCHEM\1\DATA2\AL102119.D Vial: 27
 Acq On : 21 Oct 2014 11:40 pm Operator: RJP
 Sample : C1410057 002A 160X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 22 14:30:09 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UC_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.55	128	37848	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.73	114	158063	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	125869	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	67813	0.76	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds

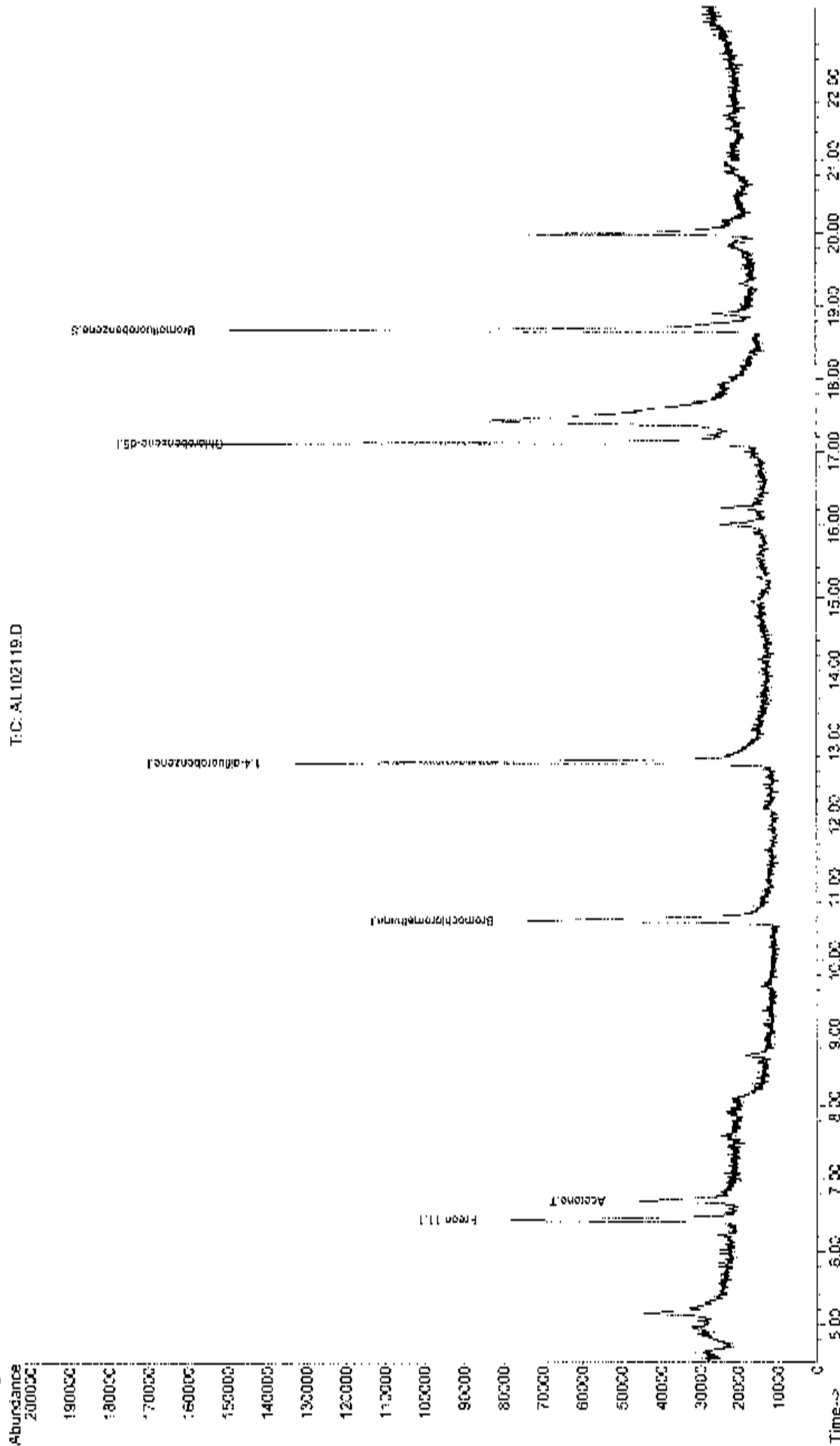
						Qvalue
15) Freon 11	6.44	101	76456	0.43	ppb	99
16) Acetone	6.70	58	15348	1.22	ppb	# 29

Data File : C:\HPCHEM\1\DATA2\ALL102119.D
 Acq Cr : 21 Oct 2014 11:49 PM
 Sample : C1410057-002A 16CX
 Misc : A910_UG
 MS Integration Params: RECEINT.P
 Quant Time: Oct 22 13:40 2014

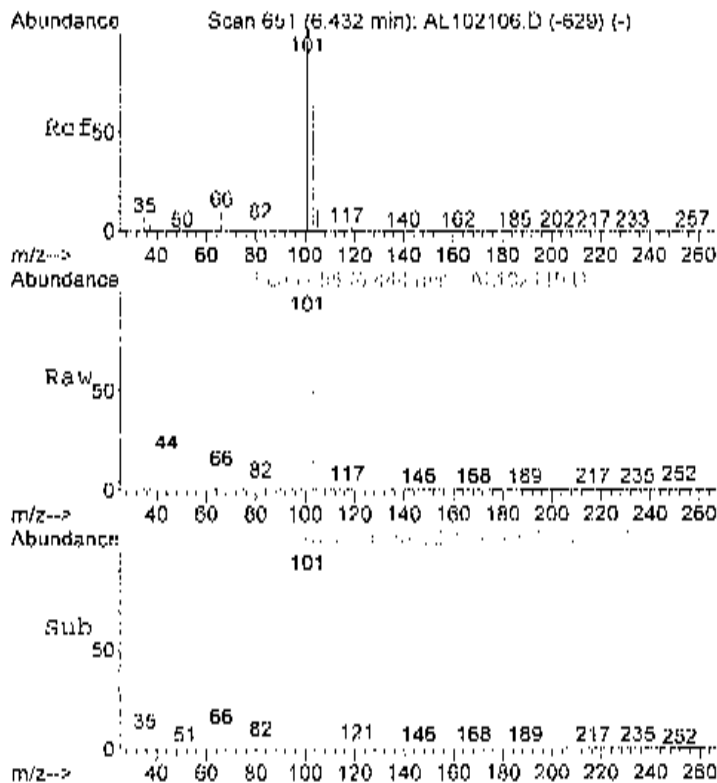
Vial: 27
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_UG.SES

Method : C:\HPCHEM\1\METHODS\A910_UG.M (PTE Integrator)
 Title : 70-15 VOA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Initial Calibration

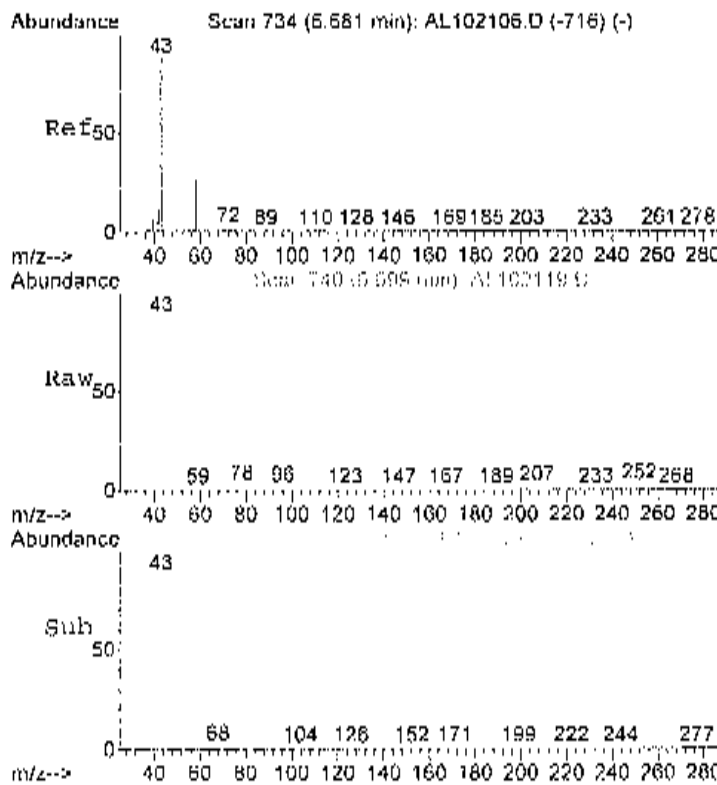
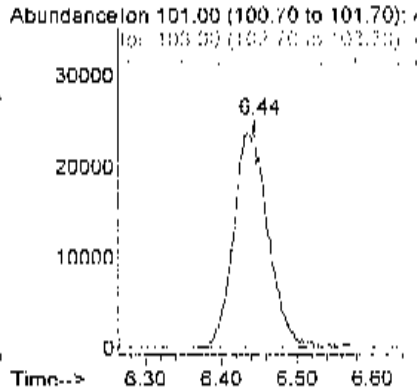


T:C:ALL102119.D



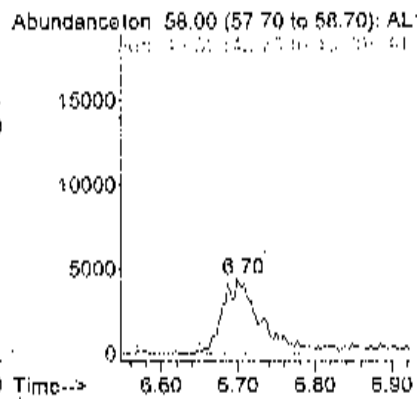
#15
 Freon 11
 Concen: 0.43 ppb
 RT: 6.44 min Scan# 655
 Delta R.T. 0.00 min
 Lab File: AL102119.D
 Acq: 21 Oct 2014 11:40 pm

Tgt Ion	Resp	Lower	Upper
101	76456		
103	65.1	45.8	85.8
105	11.4	0.0	31.2



#16
 Acetone
 Concen: 1.22 ppb
 RT: 6.70 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: AL102119.D
 Acq: 21 Oct 2014 11:40 pm

Tgt Ion	Resp	Lower	Upper
58	15348		
43	336.9	514.7	574.7#



Data File : C:\HPCHEM\1\DATA2\AL102120.D Vial: 27
 Acq On : 22 Oct 2014 12:17 am Operator: RTP
 Sample : C1410057-002A 640X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Param: RTEINT.P
 Quant Time: Oct 22 14:30:41 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	33015	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	132790	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	91137	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.68	95	41933	0.65	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	65.00%#

Target Compounds

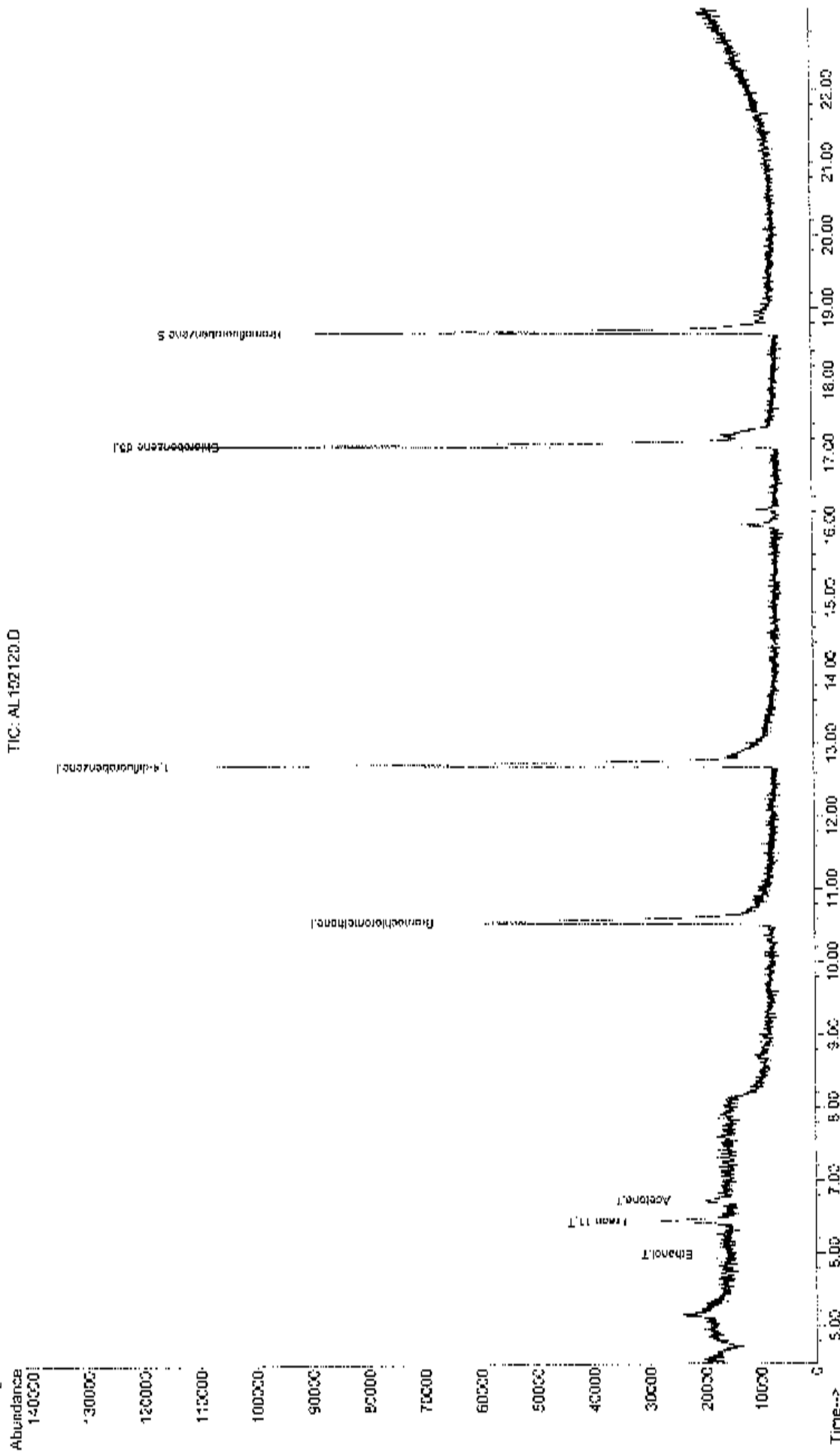
						Qvalue
12) Ethanol	5.99	45	992	0.13	ppb	# 42
15) Freon 11	6.44	101	16984	0.11	ppb	99
16) Acetone	6.72	58	3016	0.28	ppb	# 40

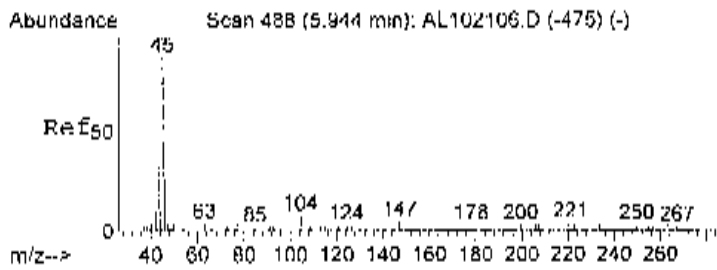
Data File : C:\HPCHEM\1\DATA2\AL102120.D
 Acq Cn : 22 Oct 2014 12:17 am
 Sample : C1410057-002A 640X
 M.sc : A910_133
 MS Integration Params: RIEINT.P
 Quant Time: Oct 22 13:30 2014

Vial: 27
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

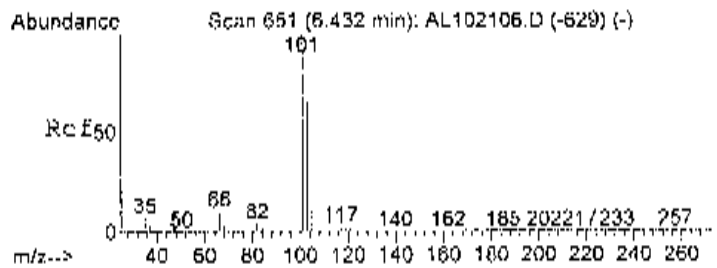
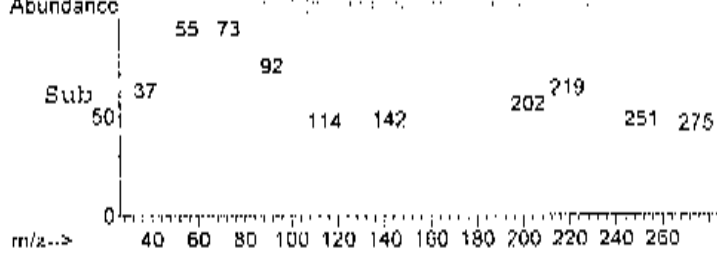
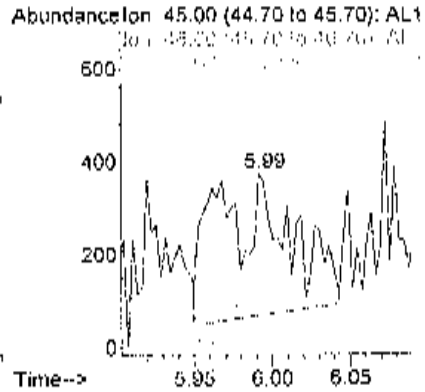
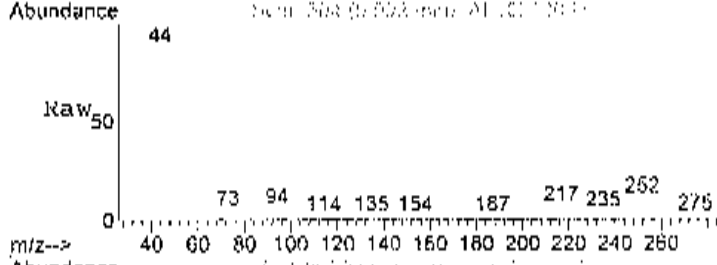
Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RT3 Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Initial Calibration





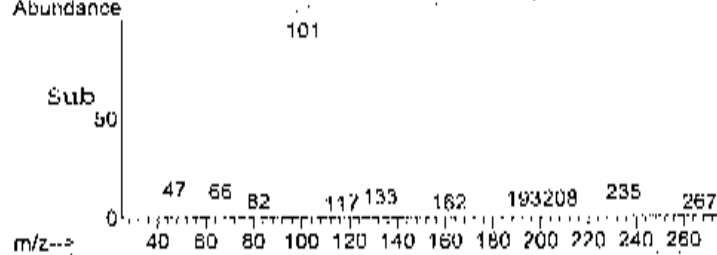
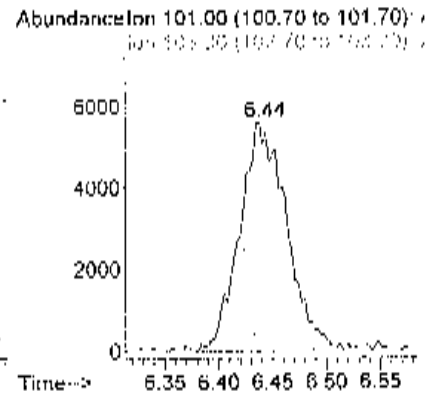
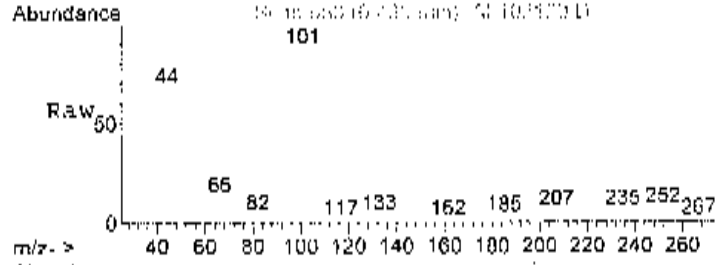
#12
 Ethanol
 Concen: 0.13 ppb
 RT: 5.99 min Scan# 504
 Delta R.T. 0.03 min
 Lab File: AL102120.D
 Acq: 22 Oct 2014 12:17 am

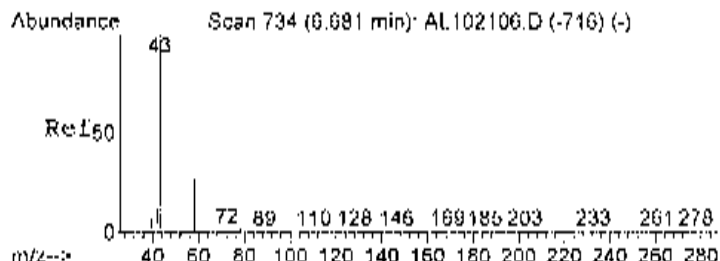
Tgt Ion	Resp	Lower	Upper
45	100		
46	5.0	24.7	64.7#
43	0.0	7.1	47.1#



#15
 Freon 11
 Concen: 0.11 ppb
 RT: 6.44 min Scan# 653
 Delta R.T. -0.00 min
 Lab File: AL102120.D
 Acq: 22 Oct 2014 12:17 am

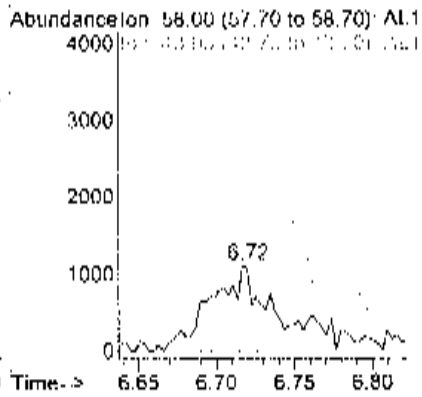
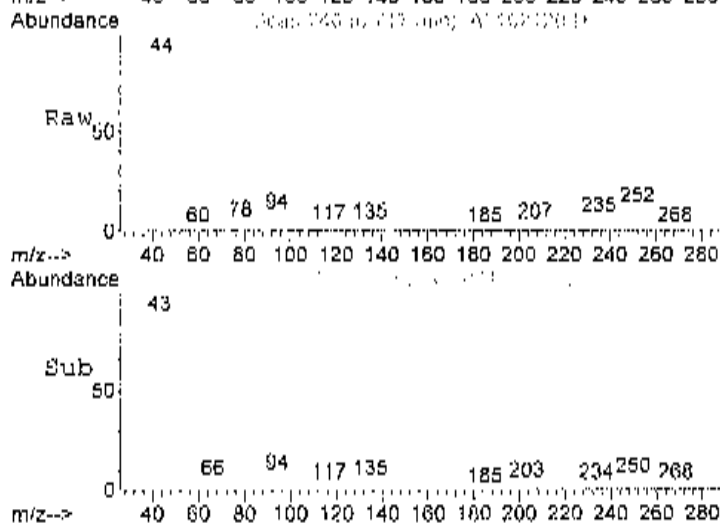
Tgt Ion	Resp	Lower	Upper
101	100		
103	66.9	45.8	85.8
105	11.8	0.0	31.2





#16
 Acetone
 Concen: 0.28 ppb
 RT: 6.72 min Scan# 746
 Delta R.T. 0.03 min
 Lab File: AL102120.D
 Acq: 22 Oct 2014 12:17 am

Tgt Ion	Resp	Lower	Upper
58	3016		
58	100		
43	368.7	514.7	574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-11			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
				FLD		Analyst:
						Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2,4-Trimethylbenzene	0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 5:59:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Acetone	8.4	1.5		ppbV	5	10/18/2014 12:55:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Benzene	0.14	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	10/17/2014 5:59:00 PM
Chlorobenzene	0.10	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Chloromethane	0.49	0.15		ppbV	1	10/17/2014 5:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
cis-1,3-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 11	0.33	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Freon 12	0.57	0.15		ppbV	1	10/17/2014 5:59:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Isopropyl alcohol	1.8	0.15		ppbV	1	10/17/2014 5:59:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl Ethyl Ketone	0.45	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 5:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Methylene chloride	0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
o-Xylene	0.12	0.15	J	ppbV	1	10/17/2014 5:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Toluene	0.42	0.15		ppbV	1	10/17/2014 5:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Trichloroethene	0.050	0.040		ppbV	1	10/17/2014 5:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 5:59:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 5:59:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 5:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:59:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 5:59:00 PM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 5:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 5:59:00 PM
1,3,5-Trimethylbenzene	0.64	0.74	J	ug/m3	1	10/17/2014 5:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 5:59:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 5:59:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 5:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 5:59:00 PM
Acetone	20	3.6		ug/m3	5	10/18/2014 12:55:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 5:59:00 PM
Benzene	0.45	0.48	J	ug/m3	1	10/17/2014 5:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 5:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 5:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 5:59:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 5:59:00 PM
Carbon tetrachloride	< 0.25	0.25		ug/m3	1	10/17/2014 5:59:00 PM
Chlorobenzene	0.46	0.69	J	ug/m3	1	10/17/2014 5:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 5:59:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 5:59:00 PM
Chloromethane	1.0	0.31		ug/m3	1	10/17/2014 5:59:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 5:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 5:59:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 5:59:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 5:59:00 PM
Freon 11	1.9	0.84		ug/m3	1	10/17/2014 5:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 5:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: 1A-03
 Tag Number: 460,262
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TQ-15			Analyst: RJP
Freon 12	2.8	0.74		ug/m3	1	10/17/2014 5:59:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 5:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 5:59:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 5:59:00 PM
Isopropyl alcohol	4.3	0.37		ug/m3	1	10/17/2014 5:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	10/17/2014 5:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:59:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	10/17/2014 5:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 5:59:00 PM
Methyl tert butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 5:59:00 PM
Methylene chloride	0.52	0.52		ug/m3	1	10/17/2014 5:59:00 PM
o-Xylene	0.52	0.65	J	ug/m3	1	10/17/2014 5:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 5:59:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 5:59:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 5:59:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 5:59:00 PM
Toluene	1.6	0.57		ug/m3	1	10/17/2014 5:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 5:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 5:59:00 PM
Trichloroethene	0.27	0.21		ug/m3	1	10/17/2014 5:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 5:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 5:59:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 5:59:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101711.D Vial: 24
 Acq On : 17 Oct 2014 5:59 pm Operator: RJP
 Sample : C1410057-003A Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 21:57:13 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO 15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	31110	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	119965	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	91050	1.00	ppb	0.00

System Monitoring Compounds						
67) Bromofluorobenzene	18.67	95	55472	0.86	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	86.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.68	85	86116	0.57	ppb	96
5) Chloromethane	4.90	50	17918	0.49	ppb	89
15) Freon 11	6.44	101	47752	0.33	ppb	99
16) Acetone	6.67	58	92685	8.98	ppb	# 48
18) Isopropyl alcohol	6.80	45	62202	1.76	ppb	# 100
22) Methylene chloride	7.73	84	4016	0.15	ppb	82
29) Methyl Ethyl Ketone	9.69	72	6469m	0.45	ppb	
39) Carbon tetrachloride	12.10	117	11271	0.10	ppb	96
40) Benzene	12.08	78	16188	0.14	ppb	93
45) Trichloroethane	13.33	130	2984m	0.05	ppb	
52) Toluene	15.26	92	26207	0.42	ppb	100
61) m&p-xylene	17.55	91	33003	0.32	ppb	97
65) o-xylene	18.03	91	15513	0.12	ppb	98
72) 1,3,5-trimethylbenzene	19.30	105	19976m	0.13	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	16368	0.15	ppb	98

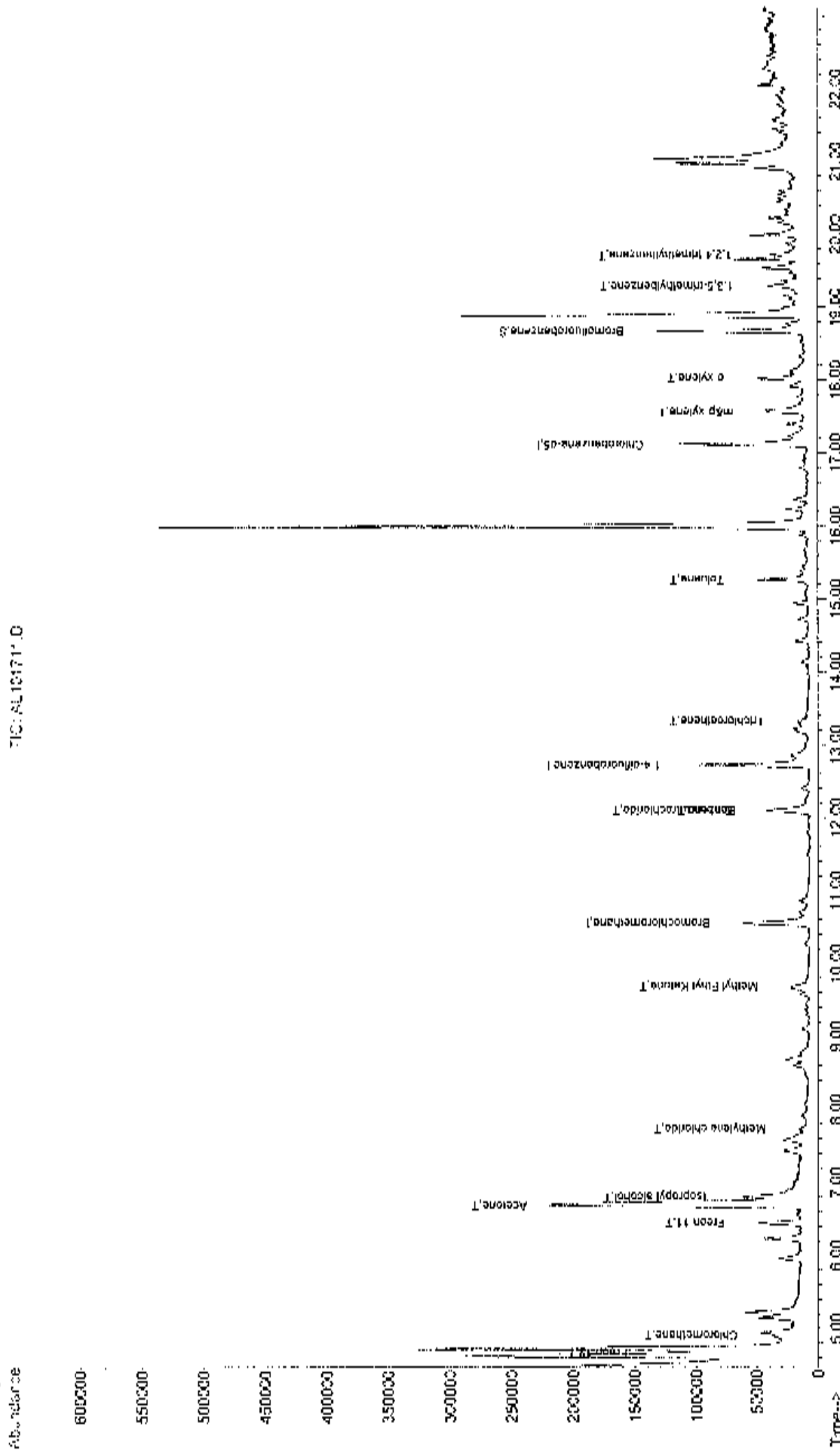
Data File : C:\HPCHEM\1\DATA\AL101711.D
 Acq On : 17 Oct 2014 5:59 PM
 Sample : C1420057-003A
 Misc : A910_10G
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 11:00 2014

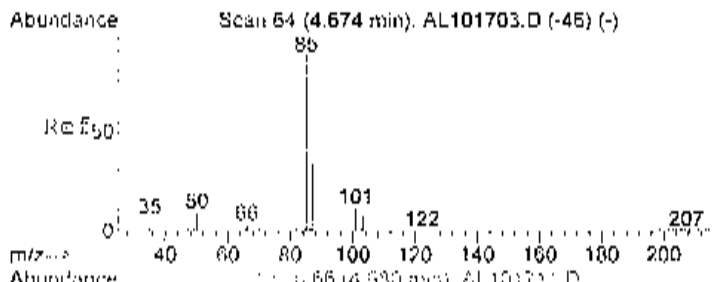
Vial: 24
 Operator: SJP
 Inst : MSD #1
 MultiSirt: 1.00

Quant Results File: A910_10G.RES

Method : C:\HPCHEM\1\METHODS\A910_10G.M (RTE Integrator)
 Title : GC-15 VOA Standards for 5 point calibration
 Last Update : Fri, Oct 31 13:55:29 2014
 Response via : Initial Calibration

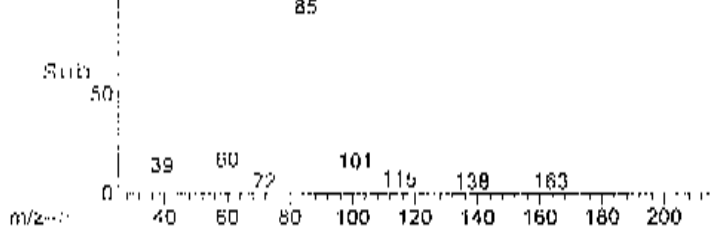
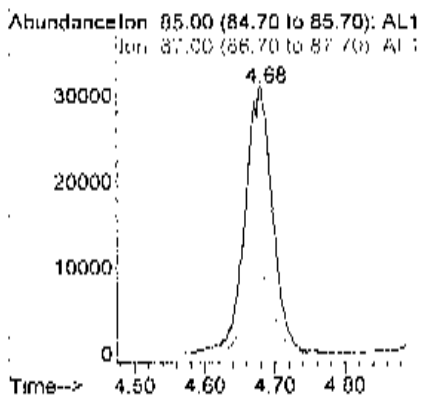
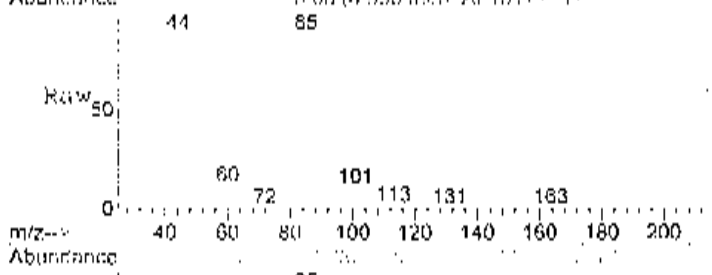
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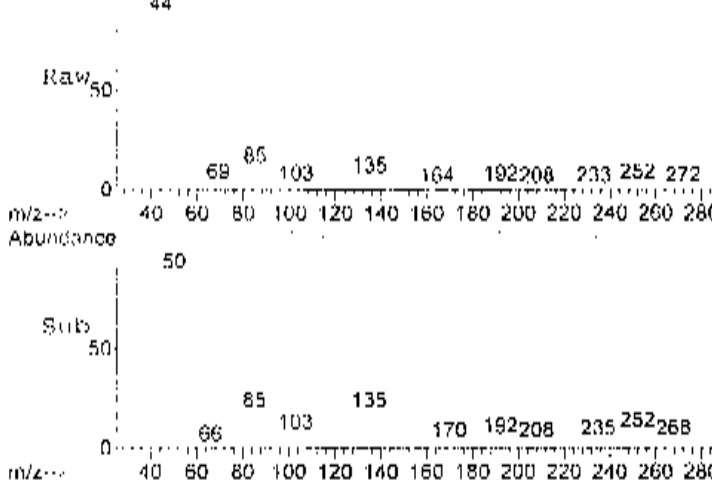
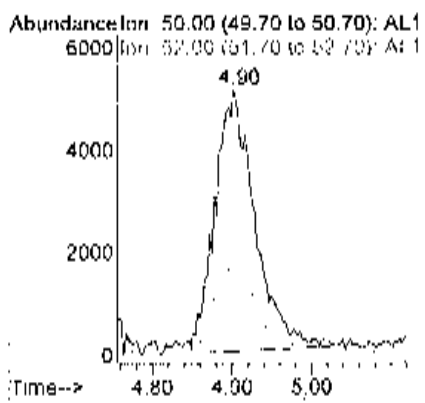
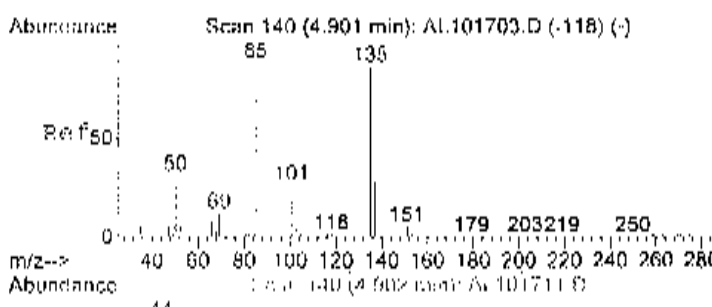
#4
 Freon 12
 Concen: 0.57 ppb
 RT: 4.68 min Scan# 66
 Delta R.T. 0.01 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

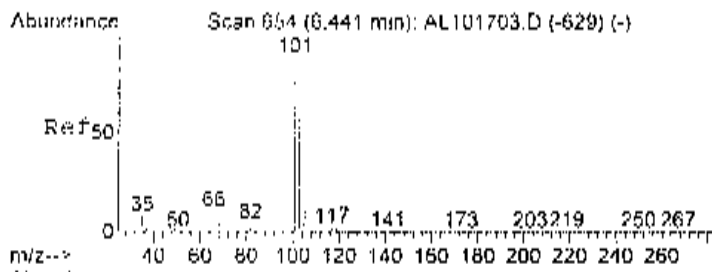
Tgt Ion	Resp	Lower	Upper
85	100		
87	30.0	12.1	52.1



#5
 Chloromethane
 Concen: 0.49 ppb
 RT: 4.90 min Scan# 140
 Delta R.T. 0.01 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

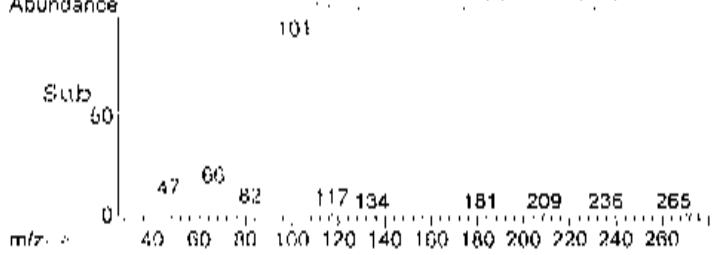
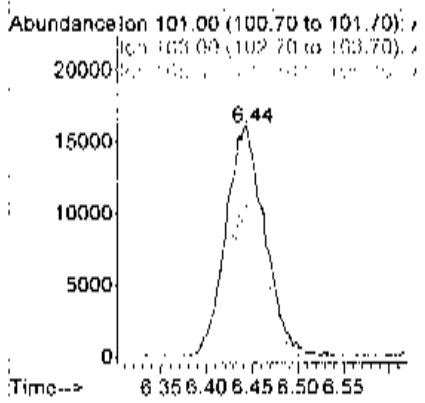
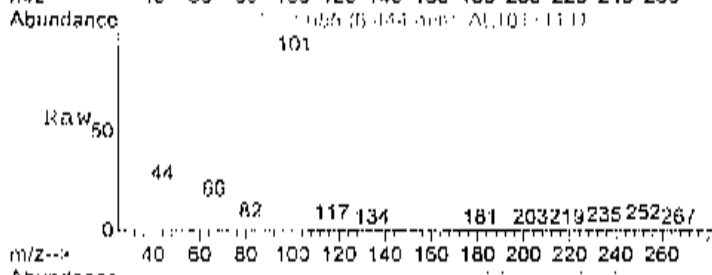
Tgt Ion	Resp	Lower	Upper
50	100		
52	33.3	7.4	47.4





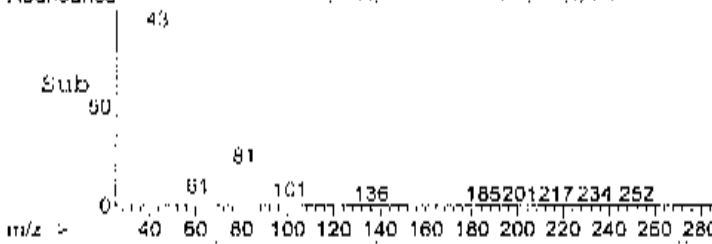
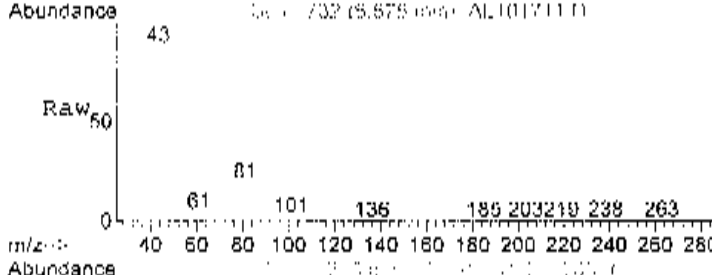
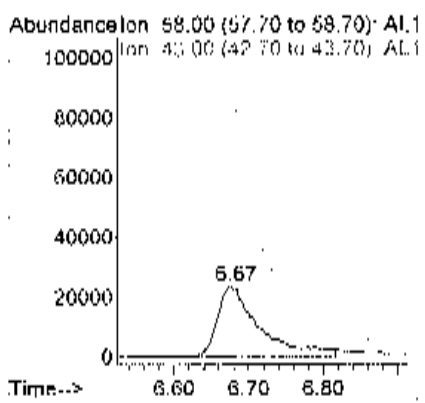
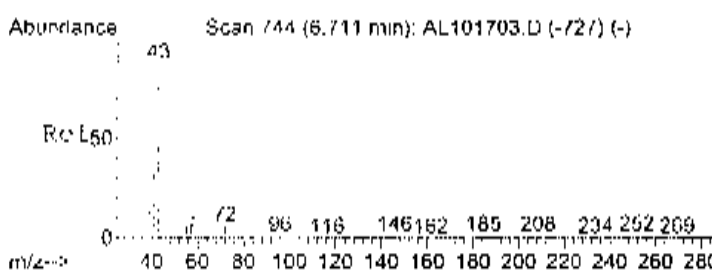
#15
 Freon 11
 Concen: 0.33 ppb
 RT: 6.44 min Scan# 655
 Delta R.T. 0.01 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

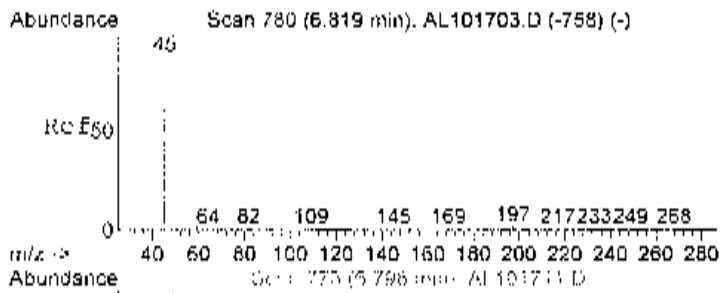
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.3	45.8	85.8
105	11.3	0.0	31.2



#16
 Acetone
 Concen: 8.98 ppb
 RT: 6.67 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

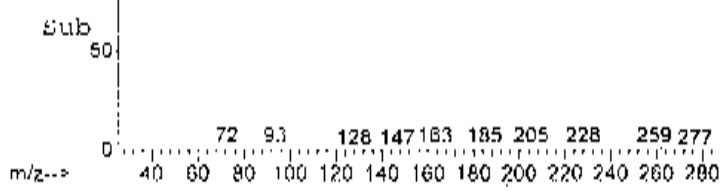
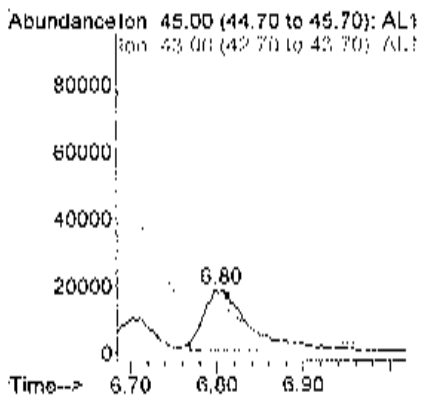
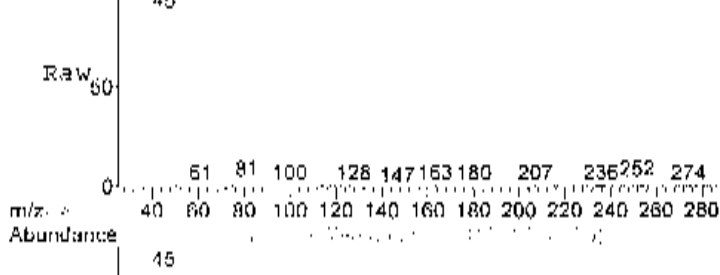
Tgt Ion	Ratio	Lower	Upper
58	100		
43	391.8	514.7	574.7#





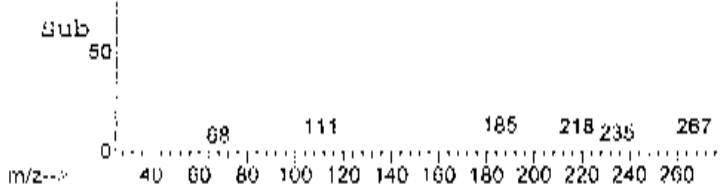
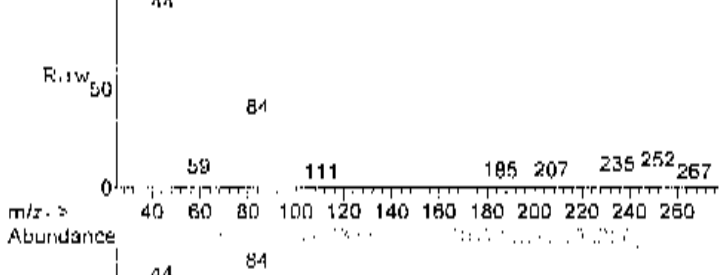
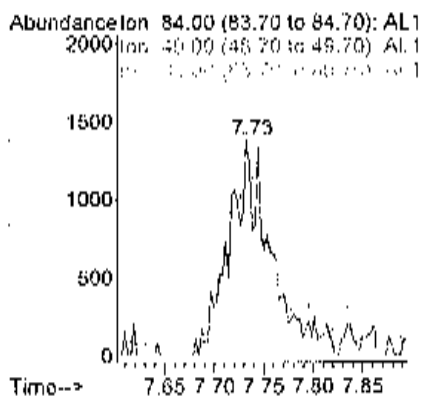
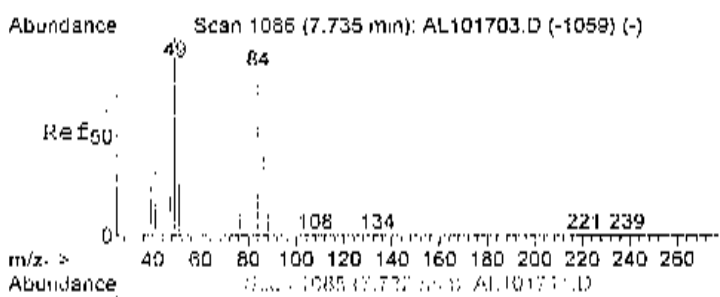
#18
 Isopropyl alcohol
 Concen: 1.76 ppb
 RT: 6.80 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

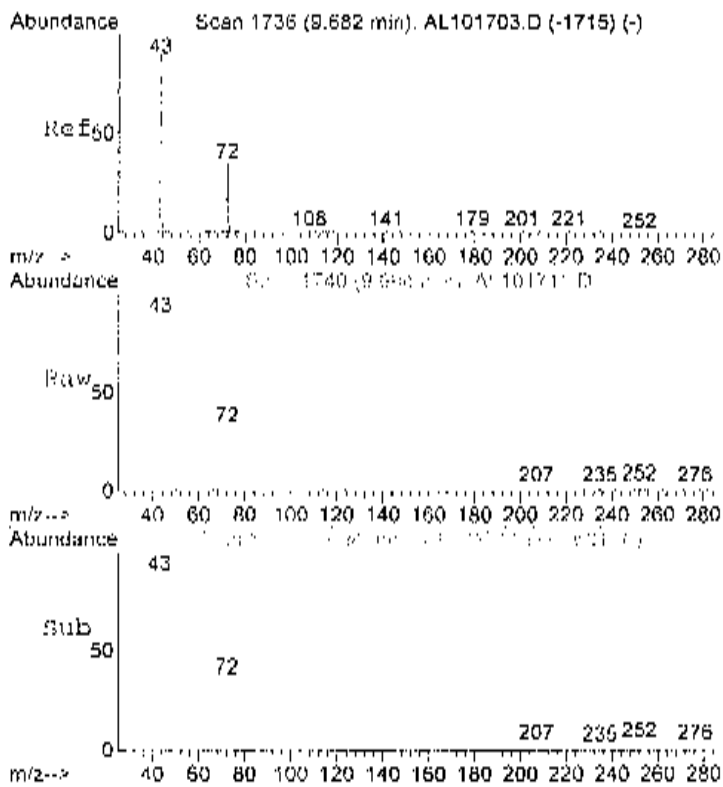
Tgt Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



#22
 Methylene chloride
 Concen: 0.15 ppb
 RT: 7.73 min Scan# 1085
 Delta R.T. 0.01 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

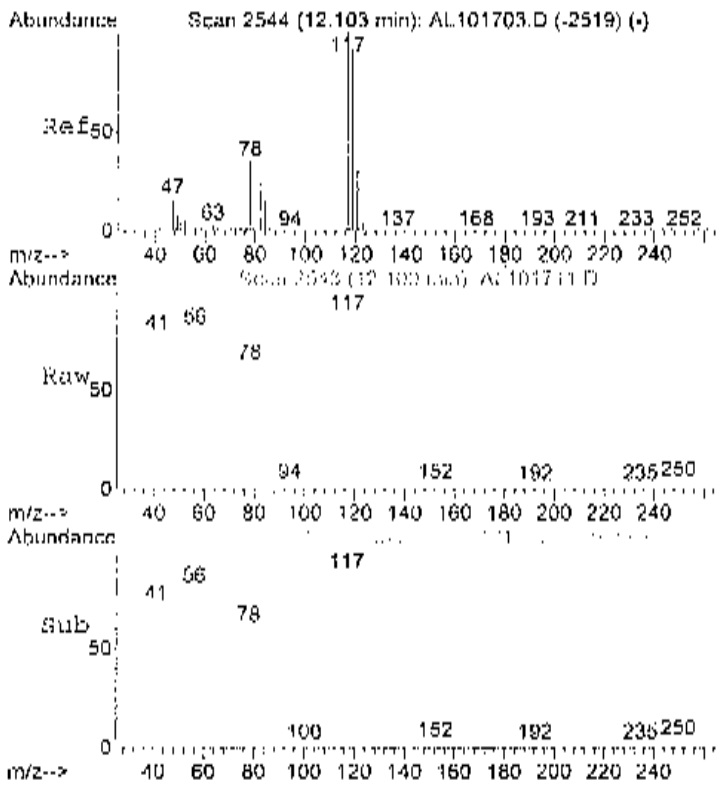
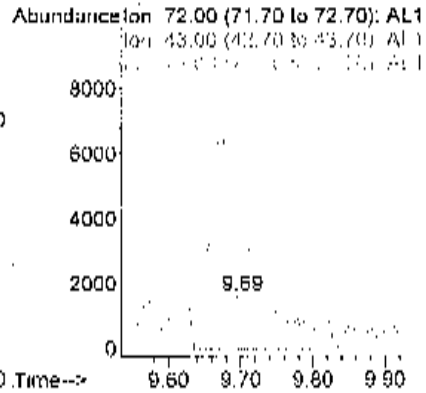
Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.7	118.1	158.1
86	57.2	56.4	96.4





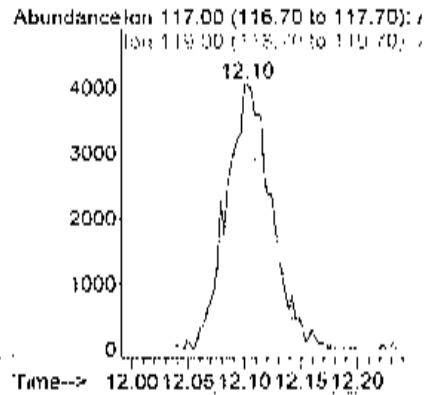
#29
 Methyl Ethyl Ketone
 Concen: 0.45 ppb m
 RT: 9.69 min Scan# 1740
 Delta R.T. 0.03 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

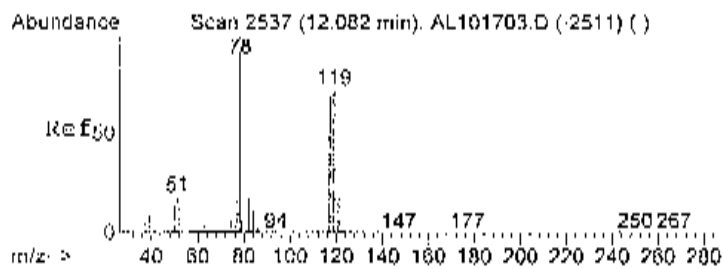
Tgt Ion	Resp	Lower	Upper
72	6469		
72	100		
43	375.6	530.5	570.5#
72	120.3	80.0	120.0#



#39
 Carbon tetrachloride
 Concen: 0.10 ppb
 RT: 12.10 min Scan# 2543
 Delta R.T. 0.00 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

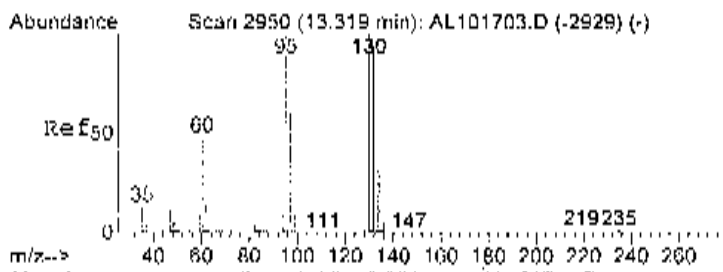
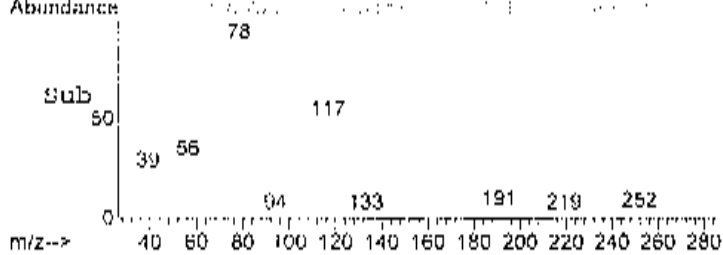
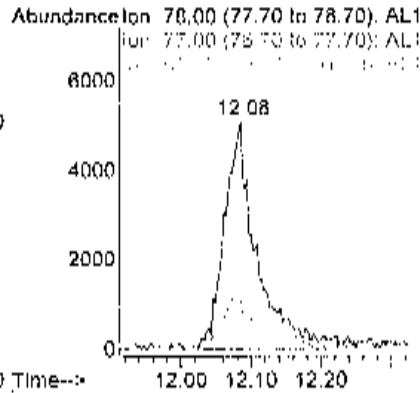
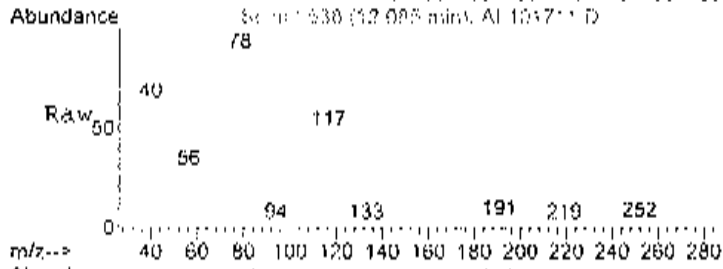
Tgt Ion	Resp	Lower	Upper
117	11271		
117	100		
119	93.0	77.3	117.3





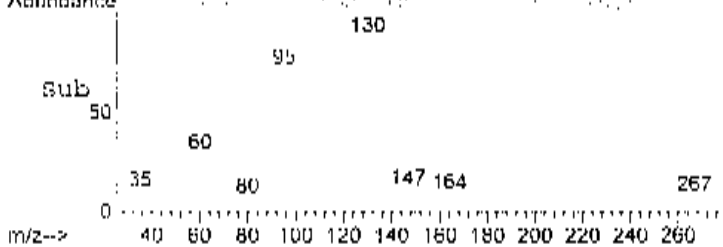
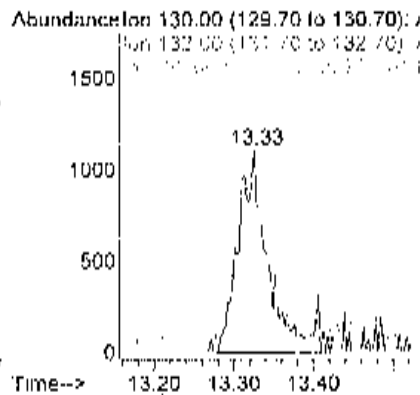
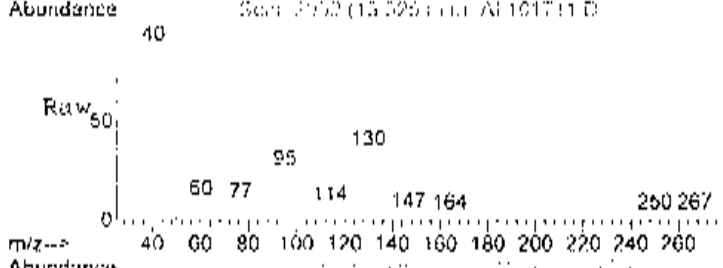
#40
Benzene
Concen: 0.14 ppb
RT: 12.08 min Scan# 2538
Delta R.T. 0.01 min
Lab File: AL101711.D
Acq: 17 Oct 2014 5:59 pm

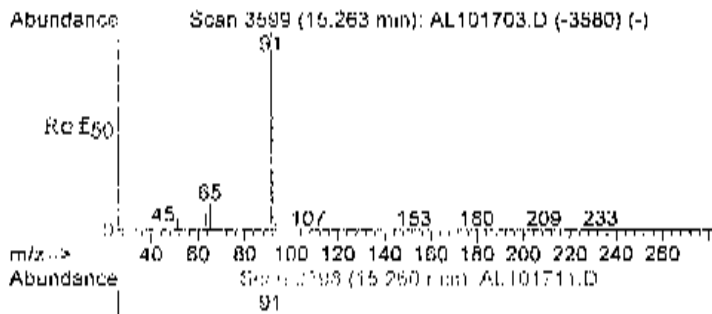
Tgt Ion	Resp	Lower	Upper
78	16188		
77	24.4	3.6	43.6
51	22.6	0.0	36.3



#45
Trichloroethene
Concen: 0.05 ppb m
RT: 13.33 min Scan# 2952
Delta R.T. 0.02 min
Lab File: AL101711.D
Acq: 17 Oct 2014 5:59 pm

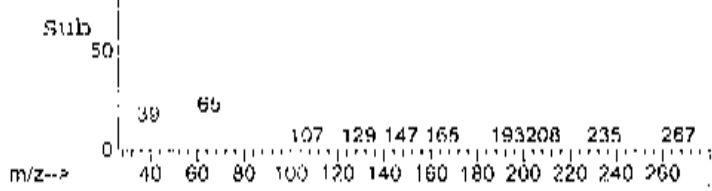
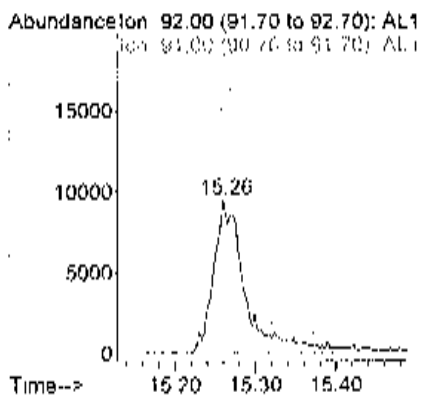
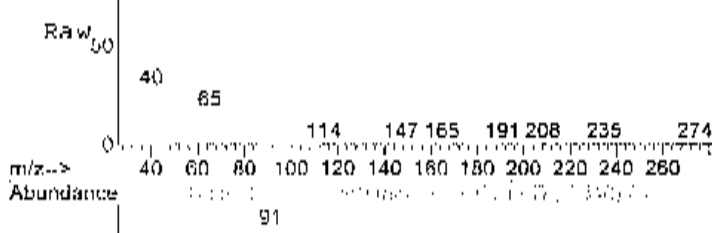
Tgt Ion	Resp	Lower	Upper
130	2984		
132	0.0	78.0	118.0#
95	0.0	82.4	122.4#





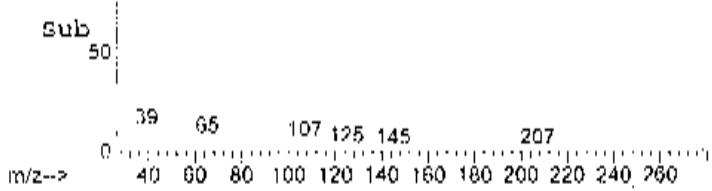
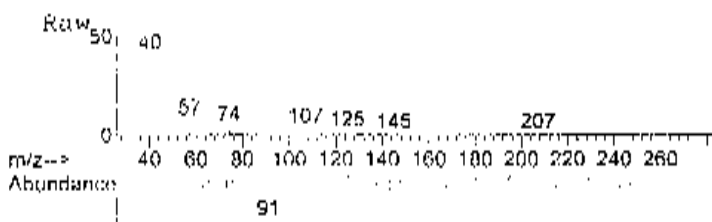
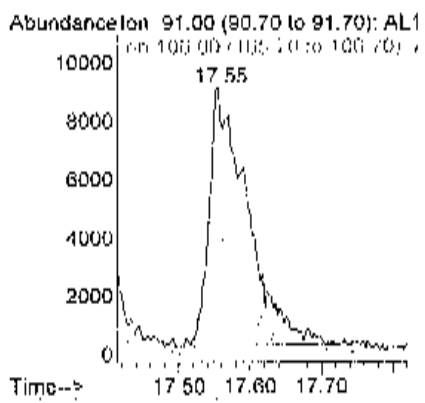
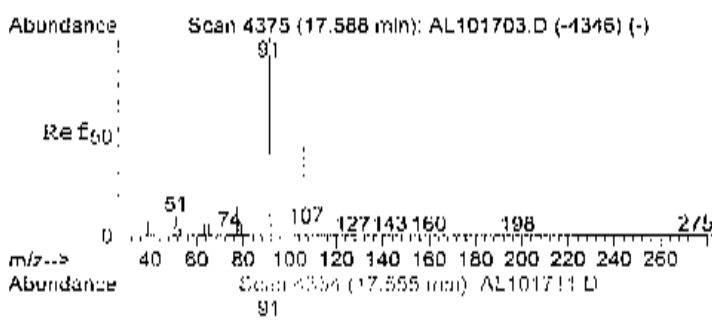
#52
Toluene
Concen: 0.42 ppb
RT: 15.26 min Scan# 3598
Delta R.T. 0.00 min
Lab File: AL101711.D
Acq: 17 Oct 2014 5:59 pm

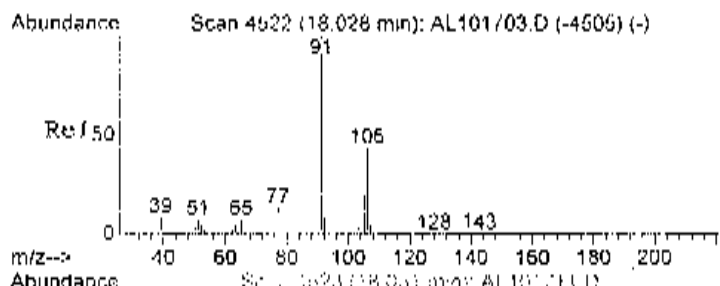
Tgt Ion	Resp	Lower	Upper
92	100		
91	174.5	154.2	194.2



#61
m&p-xylene
Concen: 0.32 ppb
RT: 17.55 min Scan# 4364
Delta R.T. -0.03 min
Lab File: AL101711.D
Acq: 17 Oct 2014 5:59 pm

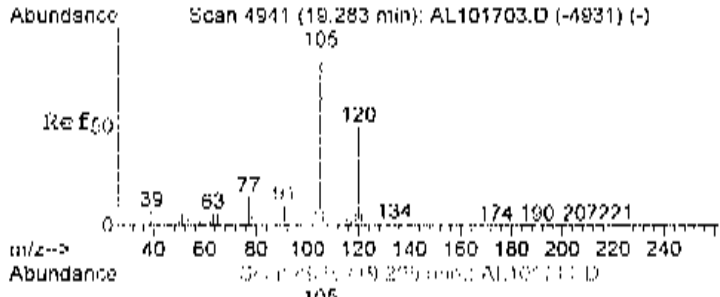
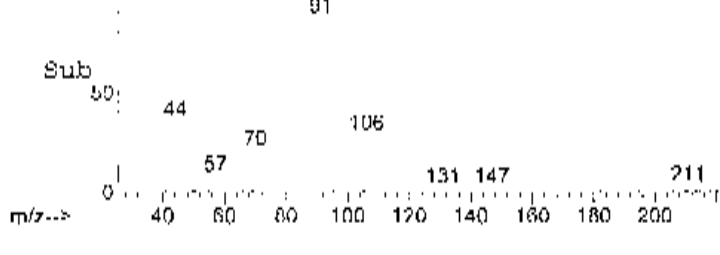
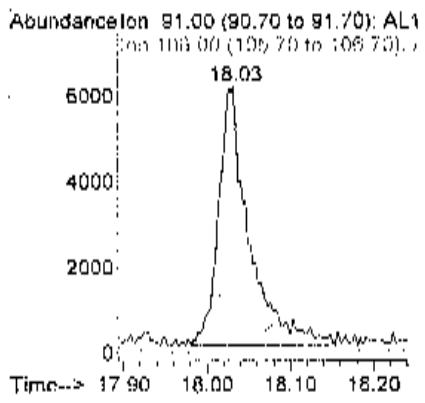
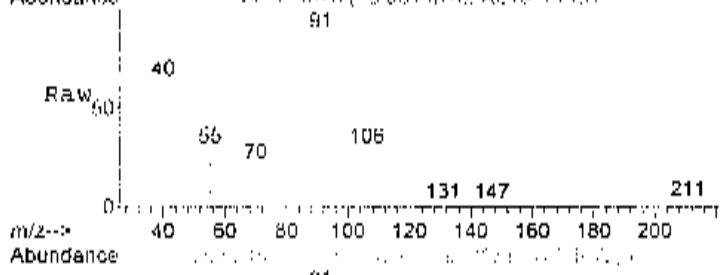
Tgt Ion	Resp	Lower	Upper
91	100		
106	51.3	29.2	69.2





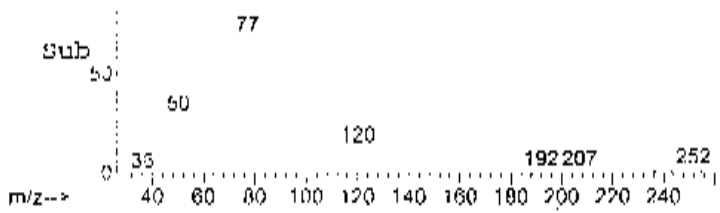
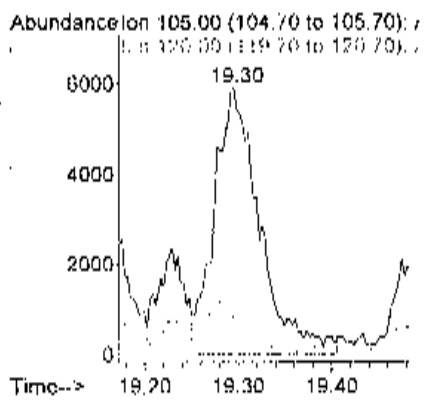
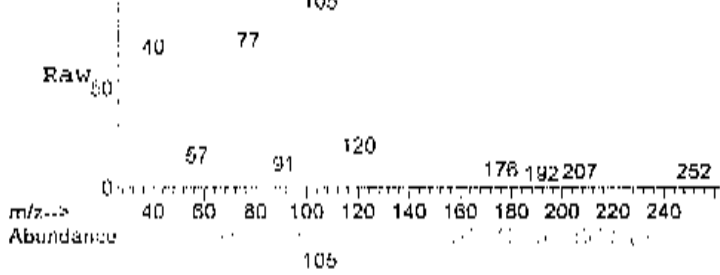
#65
 o-xylene
 Concen: 0.12 ppb
 RT: 18.03 min Scan# 4523
 Delta R.T. 0.00 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

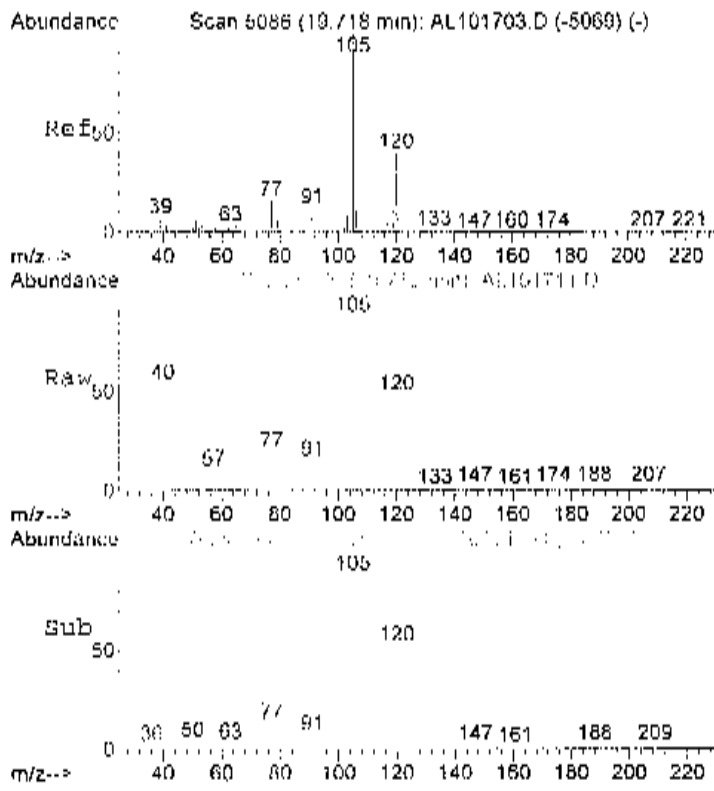
Tgt Ion	Resp	Lower	Upper
91	15513		
106	45.3	26.7	66.7



#72
 1,3,5-trimethylbenzene
 Concen: 0.13 ppb m
 RT: 19.30 min Scan# 4945
 Delta R.T. 0.02 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

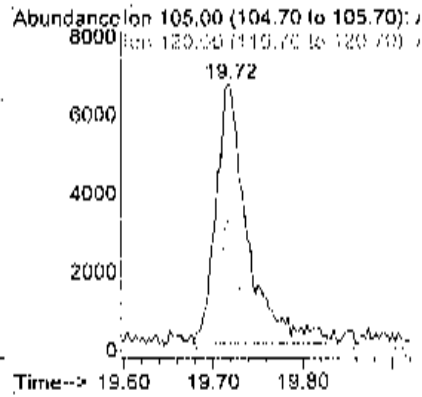
Tgt Ion	Resp	Lower	Upper
105	19976		
120	12.1	0.0	20.0





#73
 1,2,4-trimethylbenzene
 Concen: 0.15 ppb
 RT: 19.72 min Scan# 5086
 Delta R.T. 0.00 min
 Lab File: AL101711.D
 Acq: 17 Oct 2014 5:59 pm

Tgt Ion	Resp	Lower	Upper
105	16368		
120	44.3	25.3	65.3



Data File : C:\HPCHEM\1\DATA\AL101722.D Vial: 6
 Acq On : 18 Oct 2014 12:55 am Operator: RJP
 Sample : C1410057-003A 5X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEJNT.P
 Quant Time: Oct 18 07:21:56 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	27620	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.73	114	97304	1.00	ppb	0.02
51) Chlorobenzene-d5	17.13	117	64946	1.00	ppb	0.00
System Monitoring Compounds						
67) Bromofluorobenzene	18.68	95	35108	0.76	ppb	0.02
Spiked Amount	1.000	Range 70 - 130	Recovery	-	76.00%	
Target Compounds						
16) Acetone	6.71	58	15261m	1.67	ppb	Qvalue

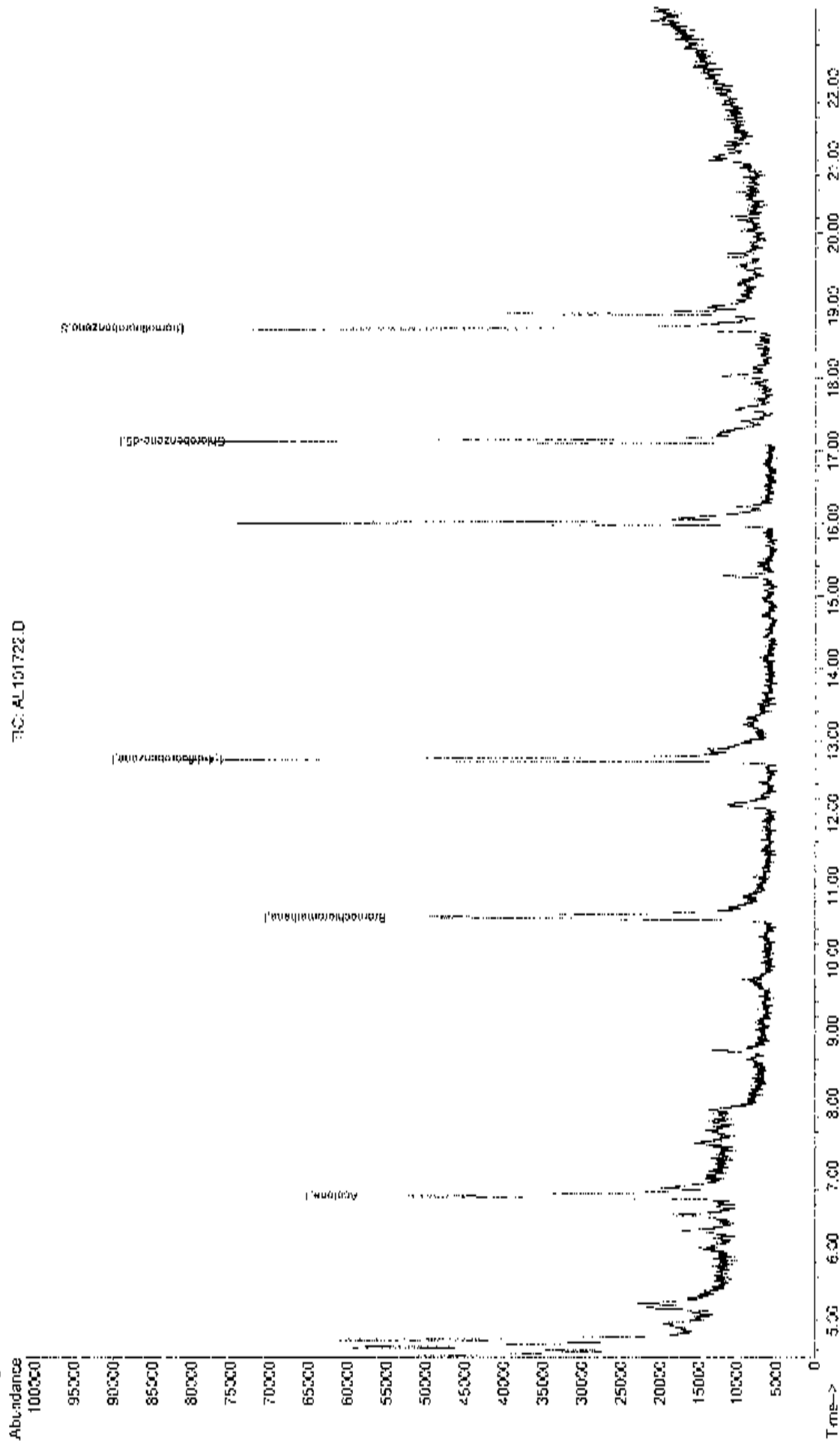
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL101722.D A910_1UG.M Fri Oct 31 14:22:51 2014 MSD1

Data File : C:\HPCHEM\1\DATA\AL101722.D
Acq On : 18 Oct 2014 12:55 am
Sample : C1410057-003A 5X
Misc : A910 1UG
MS Integration Params: RTEINT.F
Quant Time: Oct 20 14:14 2014

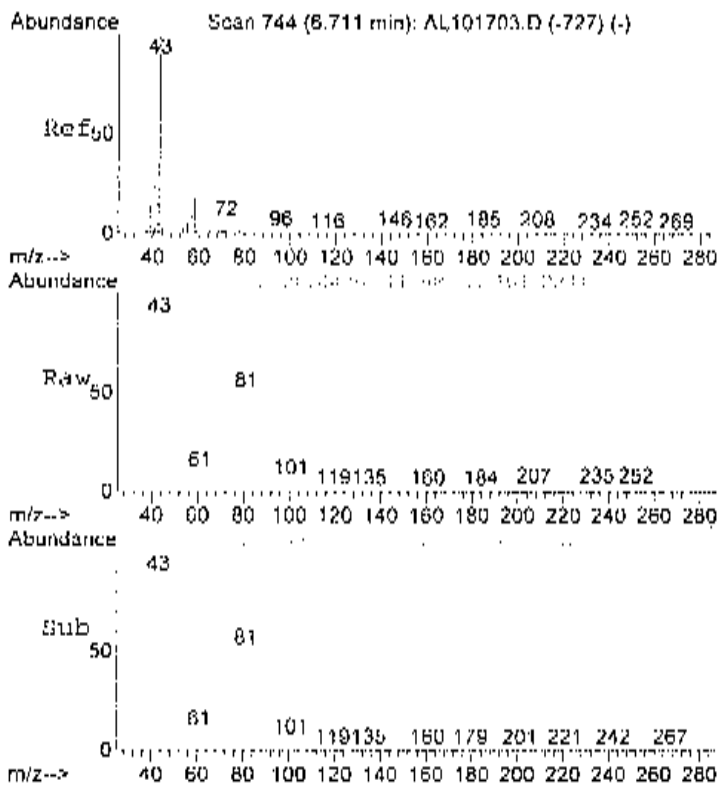
Vial: 6
Operator: RJP
Inst : MSD #1
Multiplier: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (FIE Integrator)
Title : TC-15 WOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

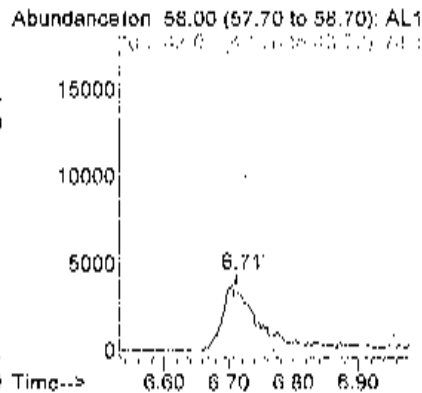


QC: AL101722.D



#16
 Acetone
 Concen: 1.67 ppb m
 RT: 6.71 min Scan# 744
 Delta R.T. 0.03 min
 Lab File: AL101722.D
 Acq: 18 Oct 2014 12:55 am

Tgt. Ion	Resp	Lower	Upper
58	15261		
58	100		
43	0.0	514.7	574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-004A

Client Sample ID: SS-02
 Tag Number: 158,265
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2,4-Trichlorobenzene	0.85	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2,4-Trimethylbenzene	2.6	1.5		ppbV	10	10/21/2014 7:12:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,4-Dichlorobenzene	0.29	0.15		ppbV	1	10/21/2014 4:12:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2014 4:12:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
4-ethyltoluene	0.34	0.15		ppbV	1	10/21/2014 4:12:00 AM
Acetone	200	190		ppbV	640	10/22/2014 12:53:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Benzene	1.1	0.15		ppbV	1	10/21/2014 4:12:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Carbon disulfide	6.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Chloromethane	0.27	0.15		ppbV	1	10/21/2014 4:12:00 AM
cis-1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Ethyl acetate	0.17	0.25	J	ppbV	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-004A

Client Sample ID: SS-02
Tag Number: 158,265
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Ethylbenzene	4.3	1.5		ppbV	10	10/21/2014 7:12:00 AM
Freon 11	7.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
Freon 113	0.13	0.15	J	ppbV	1	10/21/2014 4:12:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Freon 12	1.3	0.15		ppbV	1	10/21/2014 4:12:00 AM
Heptane	1.5	1.5		ppbV	10	10/21/2014 7:12:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Hexane	1.9	1.5		ppbV	10	10/21/2014 7:12:00 AM
Isopropyl alcohol	7.4	1.5		ppbV	10	10/21/2014 7:12:00 AM
m&p-Xylene	14	3.0		ppbV	10	10/21/2014 7:12:00 AM
Methyl Butyl Ketone	1.1	3.0	J	ppbV	10	10/21/2014 7:12:00 AM
Methyl Ethyl Ketone	3.7	3.0		ppbV	10	10/21/2014 7:12:00 AM
Methyl Isobutyl Ketone	0.89	0.30		ppbV	1	10/21/2014 4:12:00 AM
Methyl tert-butyl ether	1.2	0.15		ppbV	1	10/21/2014 4:12:00 AM
Methylene chloride	0.12	0.15	J	ppbV	1	10/21/2014 4:12:00 AM
o-Xylene	2.6	1.5		ppbV	10	10/21/2014 7:12:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Styrene	0.64	0.15		ppbV	1	10/21/2014 4:12:00 AM
Tetrachloroethylene	1.2	0.15		ppbV	1	10/21/2014 4:12:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Toluene	2.1	1.5		ppbV	10	10/21/2014 7:12:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
trans-1,3-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Trichloroethene	0.10	0.15		ppbV	1	10/21/2014 4:12:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:12:00 AM
Surr: Bromofluorobenzene	123	70-130		%REC	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-004A

Client Sample ID: SS-02
 Tag Number: 158,265
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
1,1,1-Trichloroethane	1.8	0.82		ug/m3	1	10/21/2014 4:12:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:12:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/21/2014 4:12:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:12:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:12:00 AM
1,2,4-Trichlorobenzene	6.3	1.1		ug/m3	1	10/21/2014 4:12:00 AM
1,2,4-Trimethylbenzene	13	7.4		ug/m3	10	10/21/2014 7:12:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2014 4:12:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:12:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:12:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/21/2014 4:12:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/21/2014 4:12:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/21/2014 4:12:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:12:00 AM
1,4-Dichlorobenzene	1.7	0.90		ug/m3	1	10/21/2014 4:12:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2014 4:12:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/21/2014 4:12:00 AM
4 ethyltoluene	1.7	0.74		ug/m3	1	10/21/2014 4:12:00 AM
Acetone	470	450		ug/m3	640	10/22/2014 12:53:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/21/2014 4:12:00 AM
Benzene	3.6	0.48		ug/m3	1	10/21/2014 4:12:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/21/2014 4:12:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:12:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2014 4:12:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	10/21/2014 4:12:00 AM
Carbon disulfide	20	4.7		ug/m3	10	10/21/2014 7:12:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/21/2014 4:12:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/21/2014 4:12:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2014 4:12:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	10/21/2014 4:12:00 AM
Chloromethane	0.58	0.31		ug/m3	1	10/21/2014 4:12:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:12:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:12:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2014 4:12:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2014 4:12:00 AM
Ethyl acetate	0.61	0.90	J	ug/m3	1	10/21/2014 4:12:00 AM
Ethylbenzene	19	6.5		ug/m3	10	10/21/2014 7:12:00 AM
Freon 11	42	8.4		ug/m3	10	10/21/2014 7:12:00 AM
Freon 113	1.0	1.1	J	ug/m3	1	10/21/2014 4:12:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non-routine analyte Quantitation estimated ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Page 7 of 22

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-004A

Client Sample ID: SS-02
Tag Number: 158,265
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Freon 12	6.4	0.74		ug/m3	1	10/21/2014 4:12:00 AM
Heptane	6.1	6.1		ug/m3	10	10/21/2014 7:12:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2014 4:12:00 AM
Hexane	6.7	5.3		ug/m3	10	10/21/2014 7:12:00 AM
Isopropyl alcohol	18	3.7		ug/m3	10	10/21/2014 7:12:00 AM
m&p-Xylene	62	13		ug/m3	10	10/21/2014 7:12:00 AM
Methyl Butyl Ketone	5.7	12	J	ug/m3	10	10/21/2014 7:12:00 AM
Methyl Ethyl Ketone	11	8.8		ug/m3	10	10/21/2014 7:12:00 AM
Methyl Isobutyl Ketone	3.6	1.2		ug/m3	1	10/21/2014 4:12:00 AM
Methyl tert-butyl ether	4.5	0.54		ug/m3	1	10/21/2014 4:12:00 AM
Methylene chloride	0.42	0.52	J	ug/m3	1	10/21/2014 4:12:00 AM
o-Xylene	11	6.5		ug/m3	10	10/21/2014 7:12:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2014 4:12:00 AM
Styrene	2.7	0.64		ug/m3	1	10/21/2014 4:12:00 AM
Tetrachloroethylene	6.3	1.0		ug/m3	1	10/21/2014 4:12:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/21/2014 4:12:00 AM
Toluene	9.0	5.7		ug/m3	10	10/21/2014 7:12:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:12:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:12:00 AM
Trichloroethene	0.97	0.81		ug/m3	1	10/21/2014 4:12:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/21/2014 4:12:00 AM
Vinyl Bromide	< 0.86	0.86		ug/m3	1	10/21/2014 4:12:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/21/2014 4:12:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL102031.D
 Acq On : 21 Oct 2014 4:12 am
 Sample : C1410057-004A
 Misc : A910_1UG

Vial: 28
 Operator: RJP
 Inst : MSD #1
 Multiplx: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Oct 21 10:14:06 2014

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Oct 06 11:33:09 2014

Response via : Initial Calibration

DataAcq Meth : 1UG RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.53	128	46572	1.00	ppb	-0.01
36) 1,4-difluorobenzene	12.71	114	216342	1.00	ppb	0.01
51) Chlorobenzene-d5	17.11	117	223738	1.00	ppb	0.00

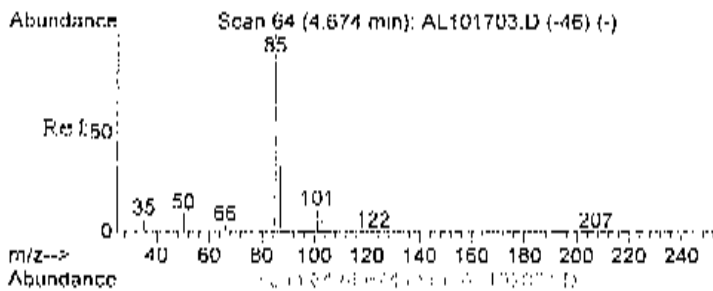
System Monitoring Compounds

67) Bromofluorobenzene	18.66	95	194235	1.23	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	123.00%

Target Compounds

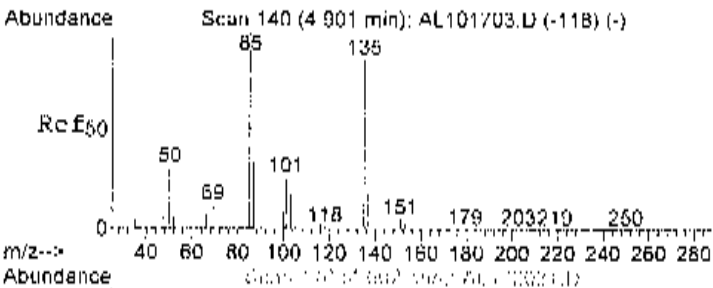
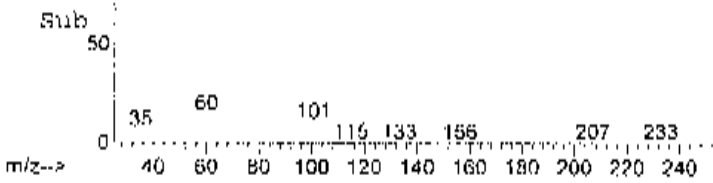
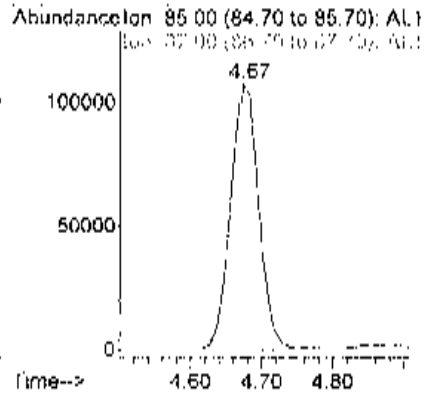
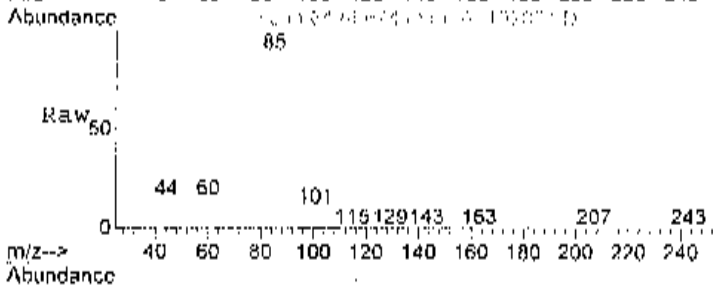
	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.67	85	295041	1.30	ppb	99
5) Chloromethane	4.90	50	15038	0.27	ppb	83
15) Freon 11	6.44	101	874019	4.03	ppb	99
16) Acetone	6.62	58	3029863	196.06	ppb	# 38
18) Isopropyl alcohol	6.75	45	365352	6.90	ppb	# 100
20) Freon 113	7.42	101	18228	0.13	ppb	96
22) Methylene chloride	7.73	84	4675	0.12	ppb	# 76
24) Carbon disulfide	7.89	76	941658	6.34	ppb	99
26) methyl tert-butyl ether	8.71	73	179578m	1.24	ppb	
29) Methyl Ethyl Ketone	9.62	72	154059m	7.10	ppb	
31) Hexane	9.64	57	286415m	3.21	ppb	
32) Ethyl acetate	10.22	43	13856	0.17	ppb	# 75
37) 1,1,1-trichloroethane	11.49	97	58409	0.33	ppb	99
40) Benzene	12.07	78	238345	1.13	ppb	# 77
44) Heptane	13.17	43	224086	2.52	ppb	# 72
45) Trichloroethene	13.31	130	17970	0.18	ppb	98
52) Toluene	15.25	92	500207	3.23	ppb	100
53) Methyl isobutyl Ketone	14.40	43	104819	0.89	ppb	84
55) Methyl Butyl Ketone	15.64	43	183186	2.25	ppb	93
57) Tetrachloroethylene	16.22	164	167324	1.23	ppb	100
60) Ethylbenzene	17.39	91	2195381	6.74	ppb	98
61) m&p-xylene	17.55	91	4691910	18.25	ppb	99
63) Styrene	17.99	104	114360	0.64	ppb	# 25
65) o-xylene	18.02	91	1087184	3.30	ppb	99
71) 4-ethyltoluene	19.22	105	104263m	0.34	ppb	
73) 1,2,4-trimethylbenzene	19.71	105	1157949	4.32	ppb	100
76) 1,4-dichlorobenzene	20.15	146	53725	0.29	ppb	# 75
79) 1,2,4-trichlorobenzene	22.26	180	68349	0.85	ppb	99

(#) = qualifier out of range (m) - manual integration (+) = signals summed
 AL102031.D A910_1UG.M Fri Oct 31 14:23:49 2014 MSD1



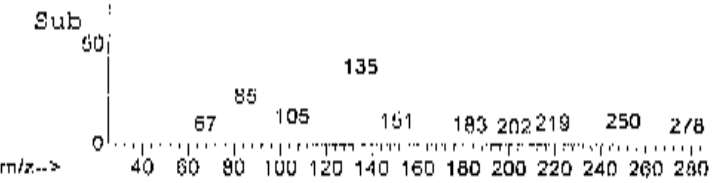
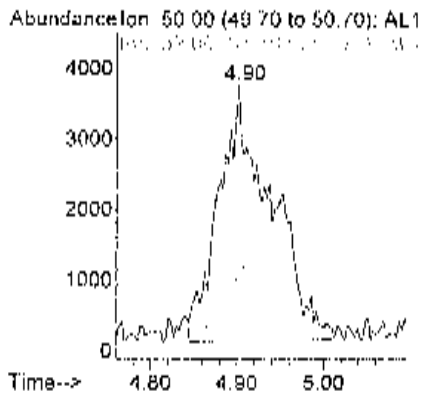
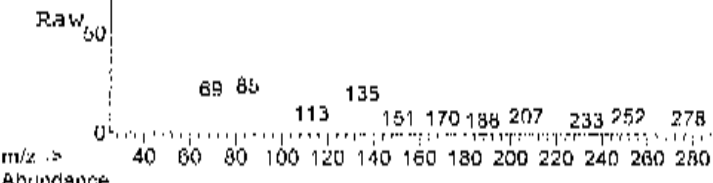
#4
 Freon 12
 Concent: 1.30 ppb
 RT: 4.67 min Scan# 64
 Delta R.T. -0.00 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

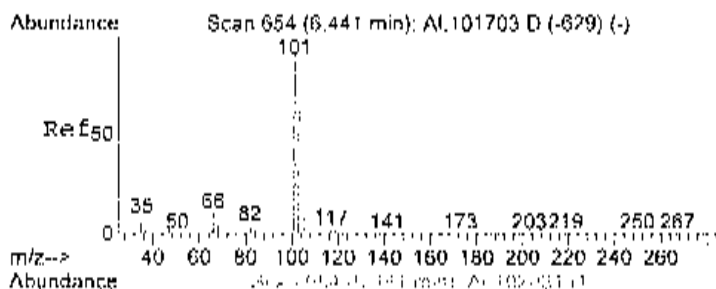
Tgt Ion:	85	Resp:	295041
Ion Ratio	Lower	Upper	
85	100		
87	32.5	12.1	52.1



#5
 Chloromethane
 Concent: 0.27 ppb
 RT: 4.90 min Scan# 140
 Delta R.T. -0.00 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

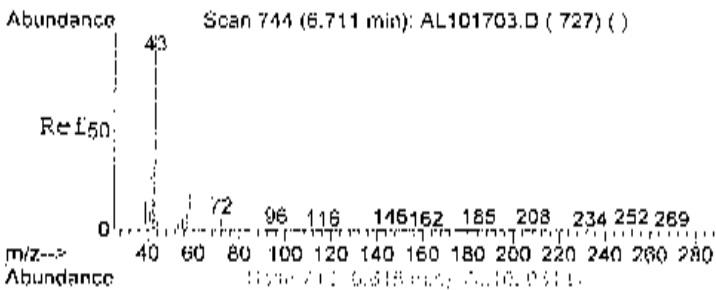
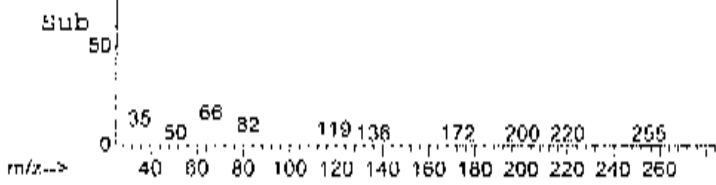
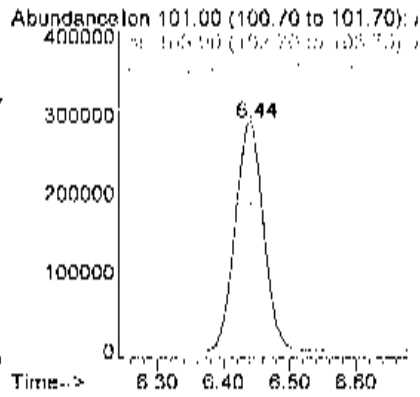
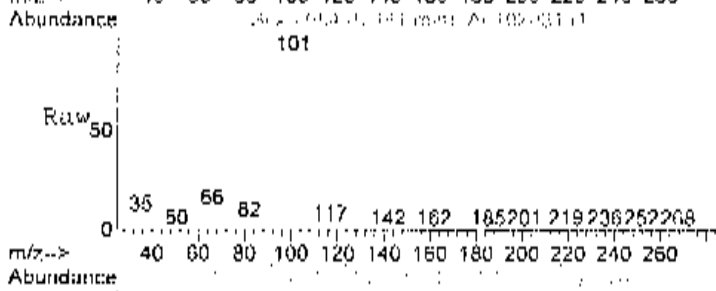
Tgt Ion:	50	Resp:	15038
Ion Ratio	Lower	Upper	
50	100		
52	36.1	7.4	47.4





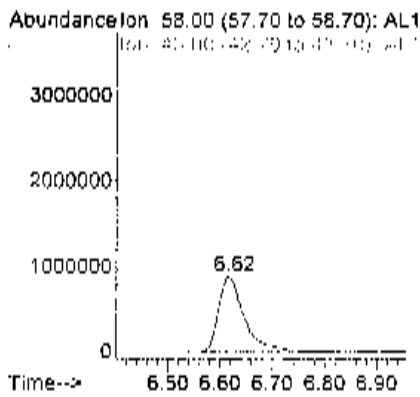
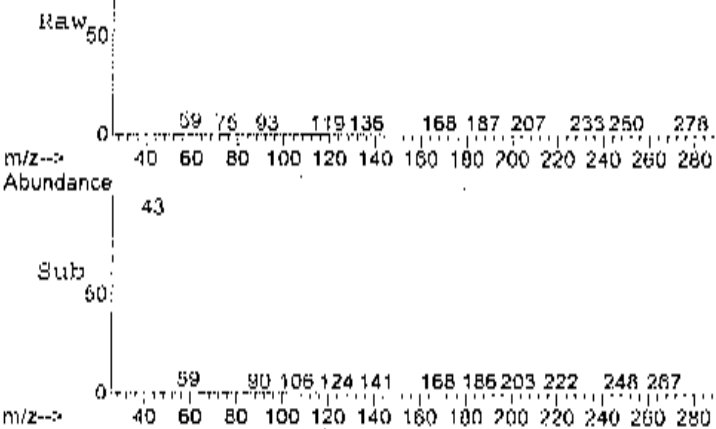
#15
 Freon 11
 Concen: 4.03 ppb
 RT: 6.44 min Scan# 654
 Delta R.T. -0.00 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

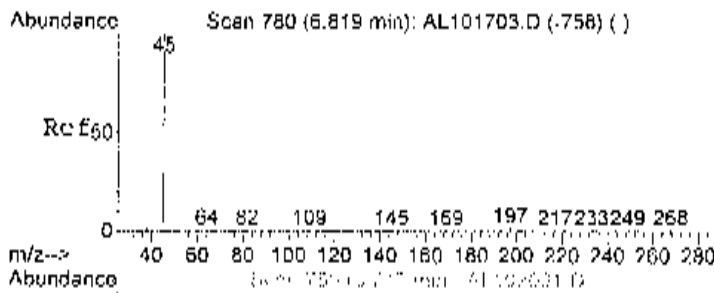
Tgt Ion	Resp	Lower	Upper
101	874019		
101	100		
103	64.7	45.8	85.8
105	10.7	0.0	31.2



#16
 Acetone
 Concen: 196.06 ppb
 RT: 6.62 min Scan# 712
 Delta R.T. -0.07 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

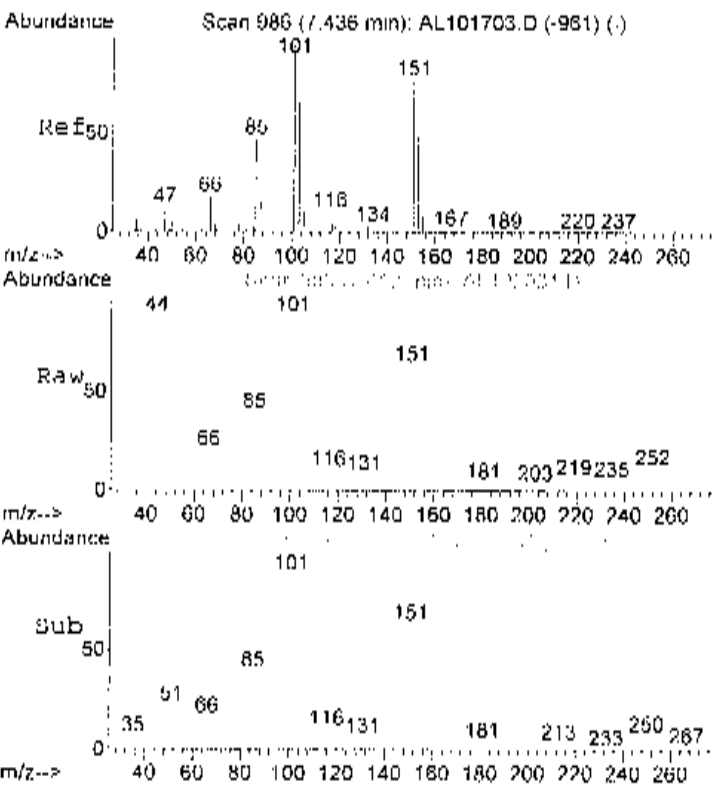
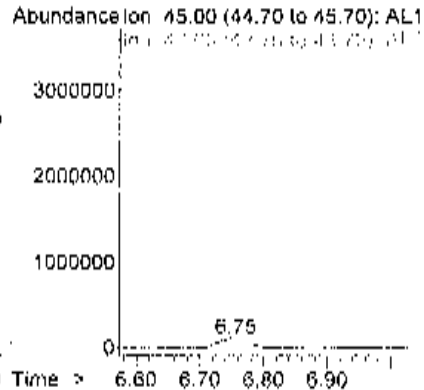
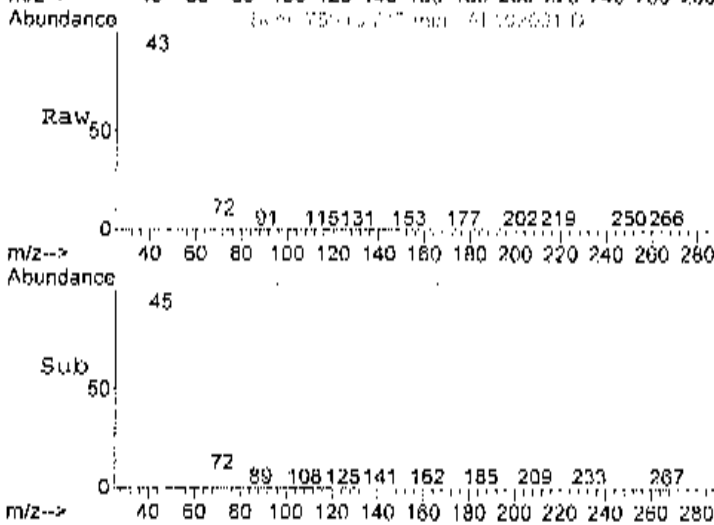
Tgt Ion	Resp	Lower	Upper
58	3029863		
58	100		
43	364.0	514.7	574.7#





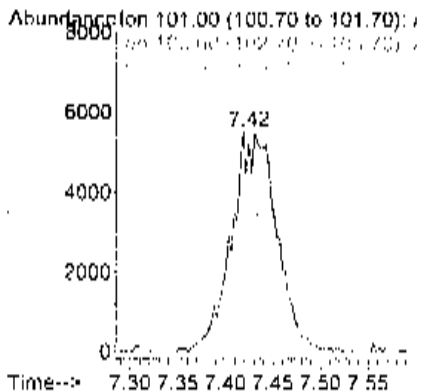
#18
 Isopropyl alcohol
 Concen: 6.90 ppb
 RT: 6.75 min Scan# 756
 Delta R.T. -0.06 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

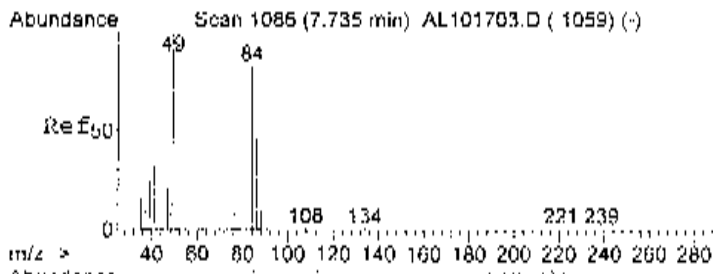
Tgt Ion	Resp	Lower	Upper
45	365352	0.0	20.0
43	100	0.0	0.0



#20
 Freon 113
 Concen: 0.13 ppb
 RT: 7.42 min Scan# 980
 Delta R.T. -0.02 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

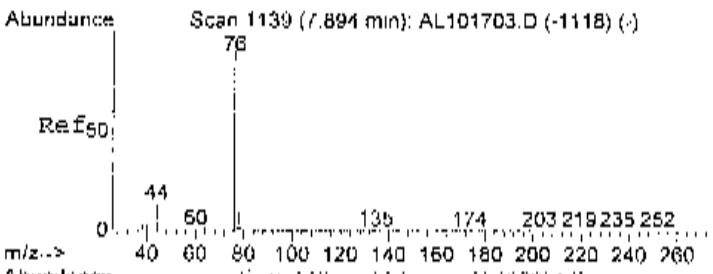
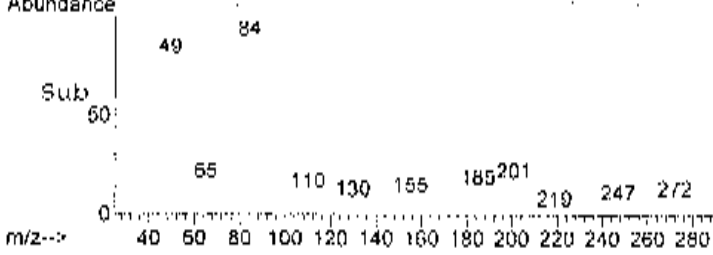
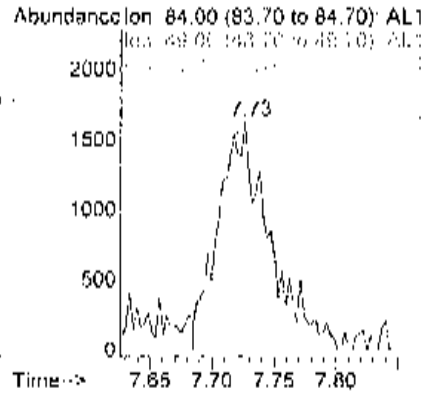
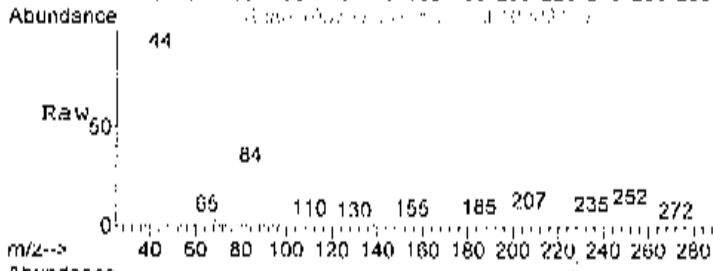
Tgt Ion	Resp	Lower	Upper
101	18228	45.4	85.4
103	61.2	0.0	0.0
151	91.4	0.0	0.0





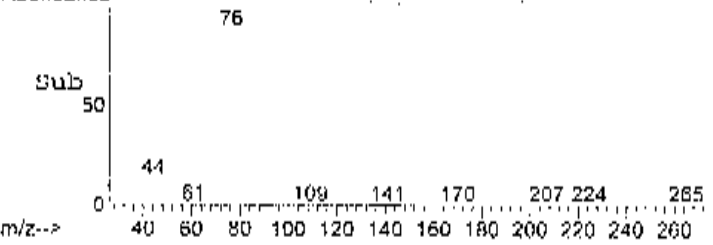
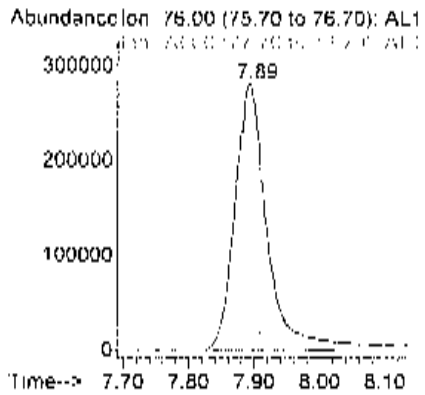
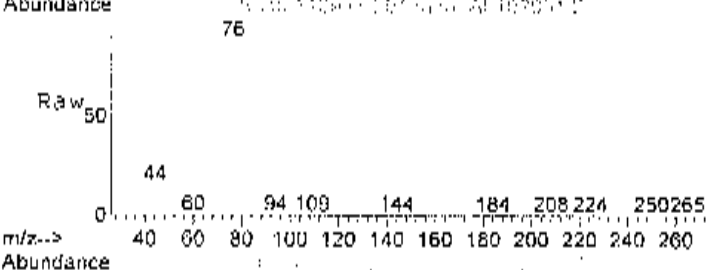
#22
Methylene chloride
Concen: 0.12 ppb
RT: 7.73 min Scan# 1083
Delta R.T. -0.00 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

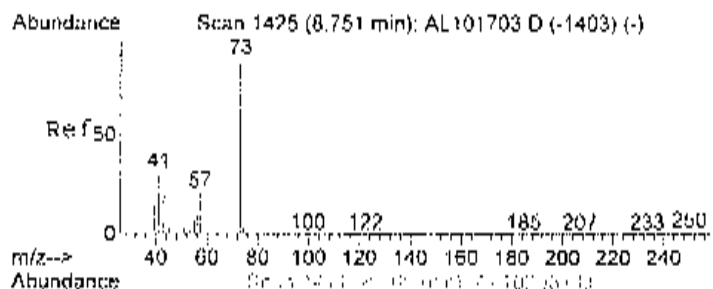
Tgt Ion	Resp	Lower	Upper
84	4675		
49	101.1	118.1	158.1#
86	65.8	56.4	96.4



#24
Carbon disulfide
Concen: 6.34 ppb
RT: 7.89 min Scan# 1139
Delta R.T. -0.00 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

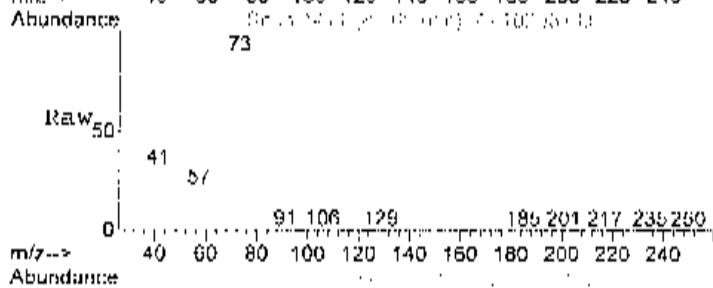
Tgt Ion	Resp	Lower	Upper
76	941658		
78	8.9	0.0	29.1



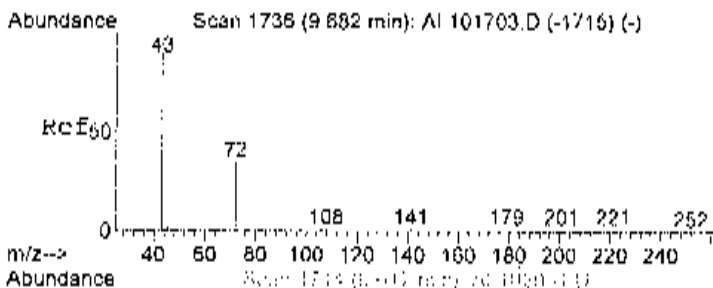
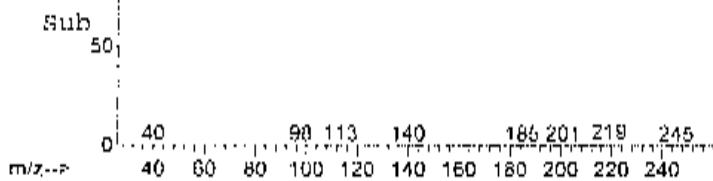
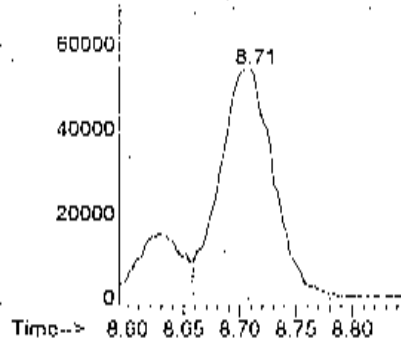


#26
 methyl tert butyl ether
 Concen: 1.24 ppb m
 RT: 8.71 min Scan# 1411
 Delta R.T. -0.04 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

Tgt. Ion	Ratio	Lower	Upper
73	100		
41	0.0	1.5	41.5#
53	0.0	0.0	21.6

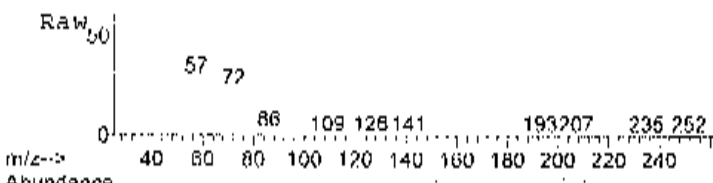


Abundance Ion 73.00 (72.70 to 73.70). AL1
 Scan 1425 (8.751 min): AL101703.D (-1403) (-)

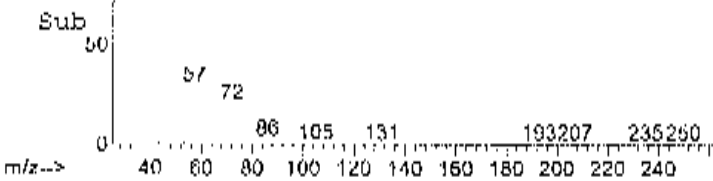
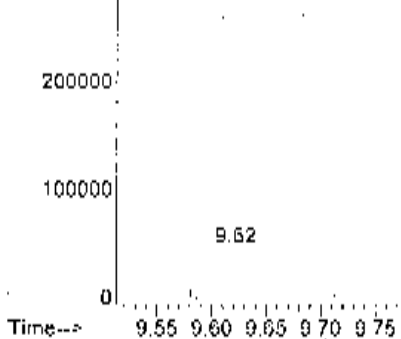


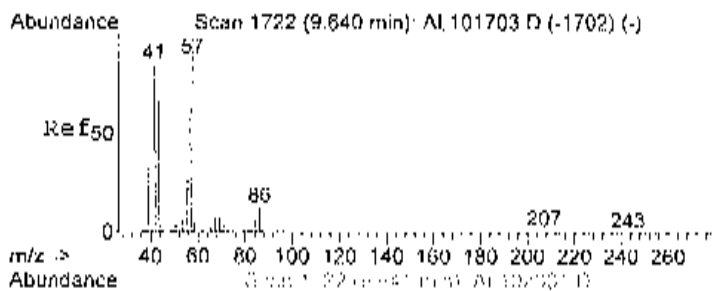
#29
 Methyl Ethyl Ketone
 Concen: 7.10 ppb m
 RT: 9.62 min Scan# 1714
 Delta R.T. -0.05 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

Tgt. Ion	Ratio	Lower	Upper
72	100		
43	520.2	530.5	570.5#
72	144.5	80.0	120.0#



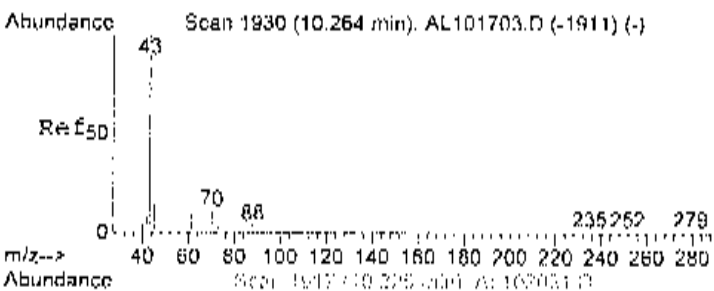
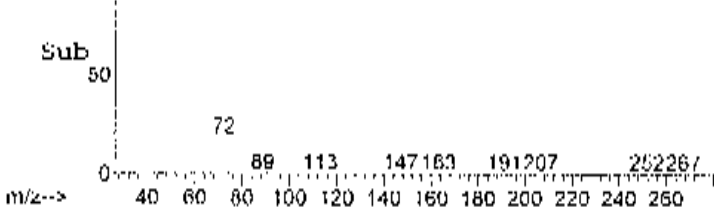
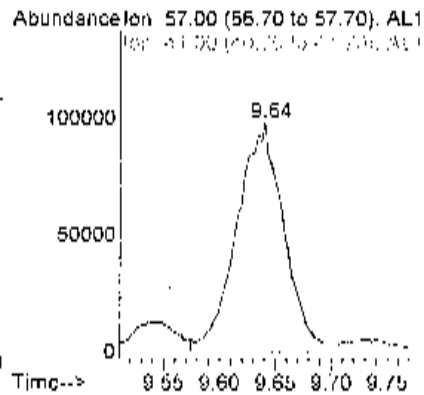
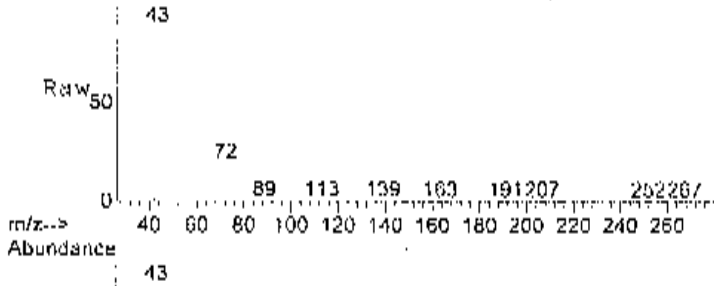
Abundance Ion 72.00 (71.70 to 72.70). AL1
 Scan 1738 (9.632 min): AL101703.D (-1715) (-)





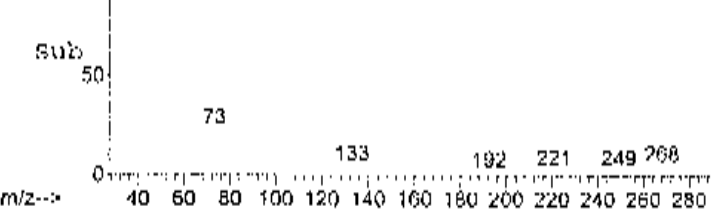
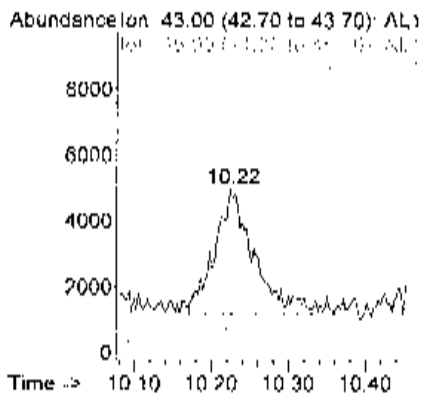
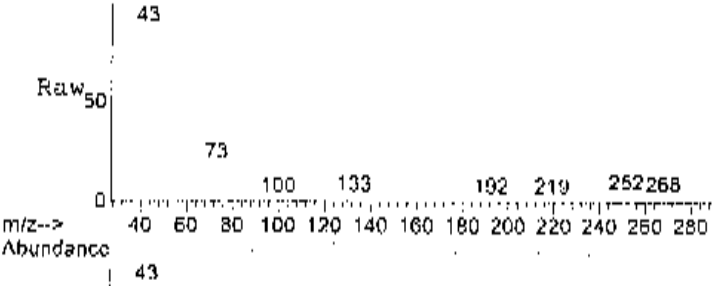
#31
 Hexane
 Concen: 3.21 ppb m
 RT: 9.64 min Scan# 1722
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

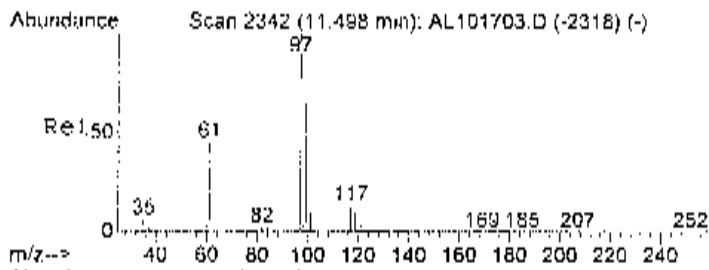
Tgt Ion	Resp	Lower	Upper
57	286415		
57	100		
41	111.5	45.2	85.2#
56	45.9	29.0	69.0



#32
 Ethyl acetate
 Concen: 0.17 ppb
 RT: 10.22 min Scan# 1917
 Delta R.T. -0.03 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

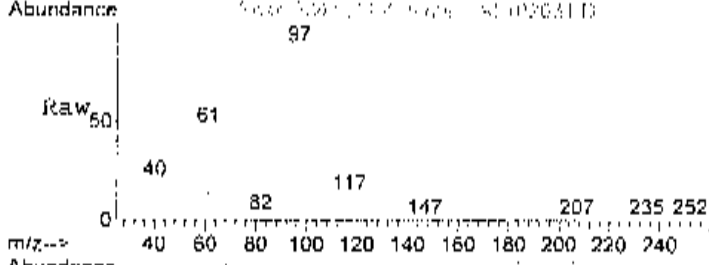
Tgt Ion	Resp	Lower	Upper
43	13856		
43	100		
45	0.0	0.0	33.8
61	9.5	0.0	36.9



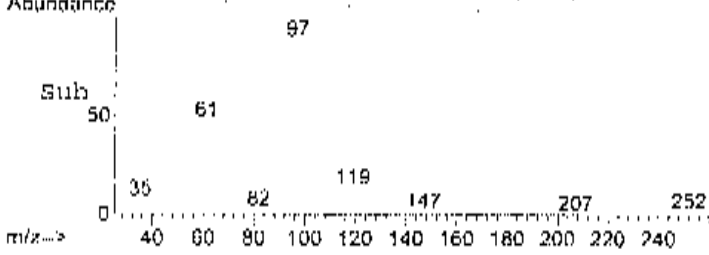
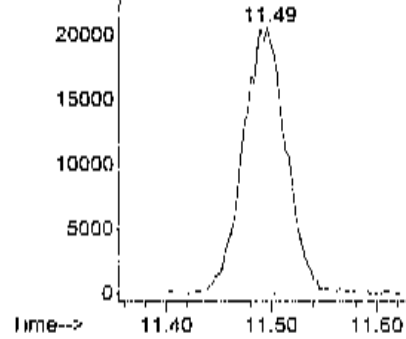


#37
 1,1,1-trichloroethane
 Concn: 0.33 ppb
 RT: 11.49 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

Tgt Ion:	Resp:	Lower	Upper
97	58409		
99	64.3	43.6	83.6

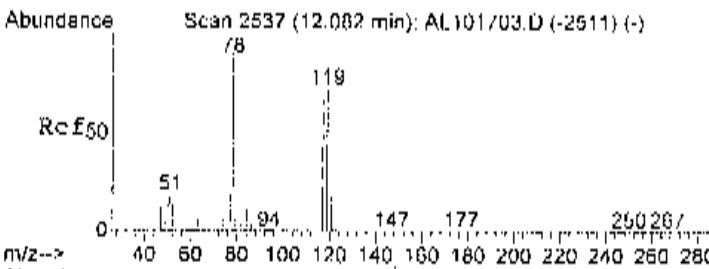


Abundance Ion 97.00 (96.70 to 97.70): AL102031.D

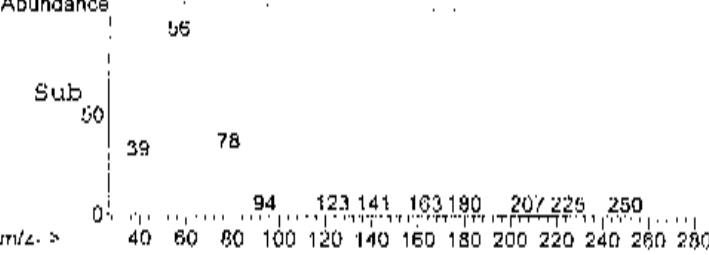
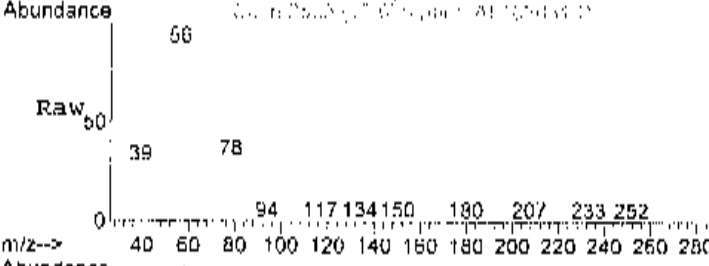
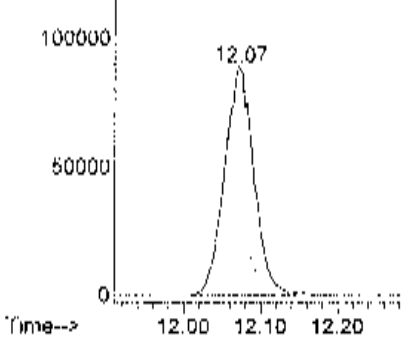


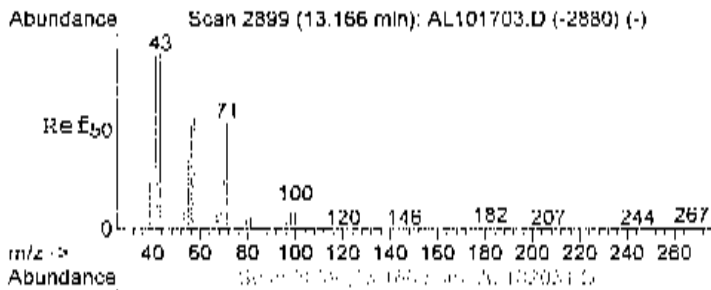
#40
 Benzene
 Concn: 1.13 ppb
 RT: 12.07 min Scan# 2533
 Delta R.T. -0.00 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

Tgt Ion:	Resp:	Lower	Upper
78	238345		
77	24.7	3.6	43.6
51	39.4	0.0	36.3#



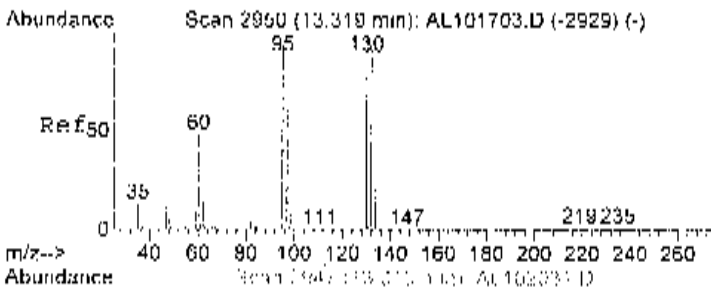
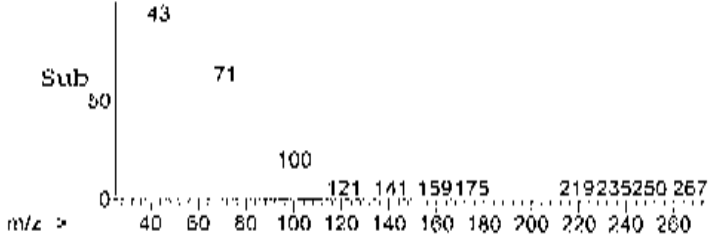
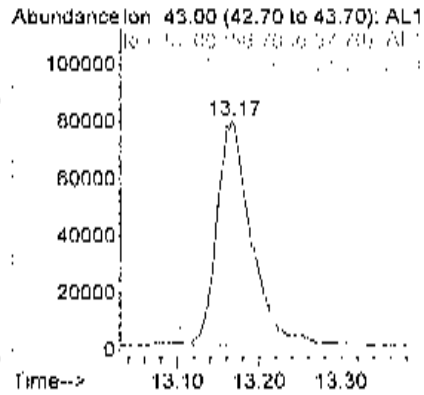
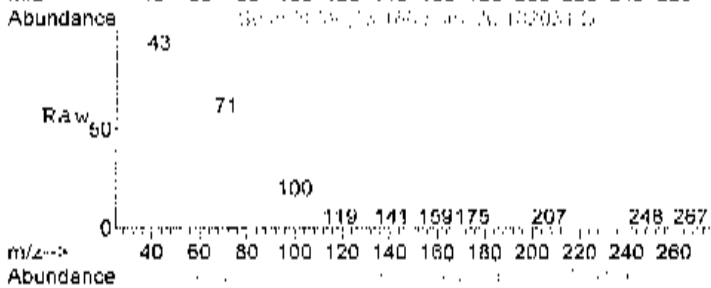
Abundance Ion 78.00 (77.70 to 78.70): AL101703.D





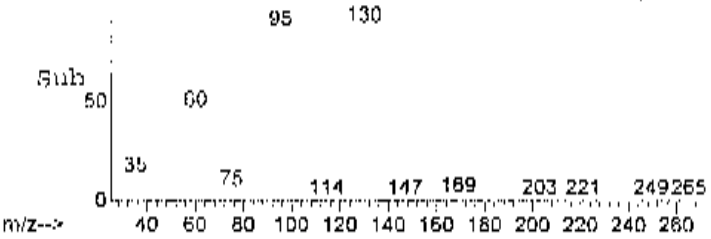
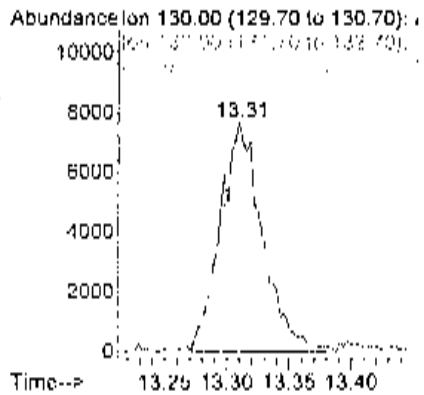
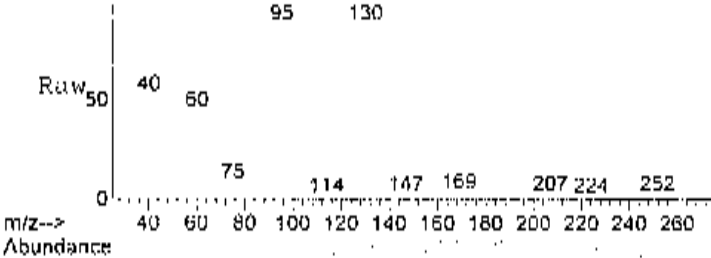
#44
 Heptane
 Concen: 2.52 ppb
 RT: 13.17 min Scan# 2899
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

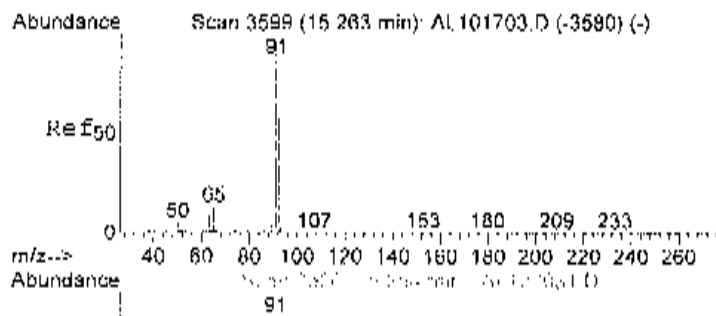
Tgt	Ion	Resp	Lower	Upper
	43	100		
	57	85.3	34.7	74.7#
	71	47.9	39.1	79.1



#45
 Trichloroethene
 Concen: 0.18 ppb
 RT: 13.31 min Scan# 2947
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

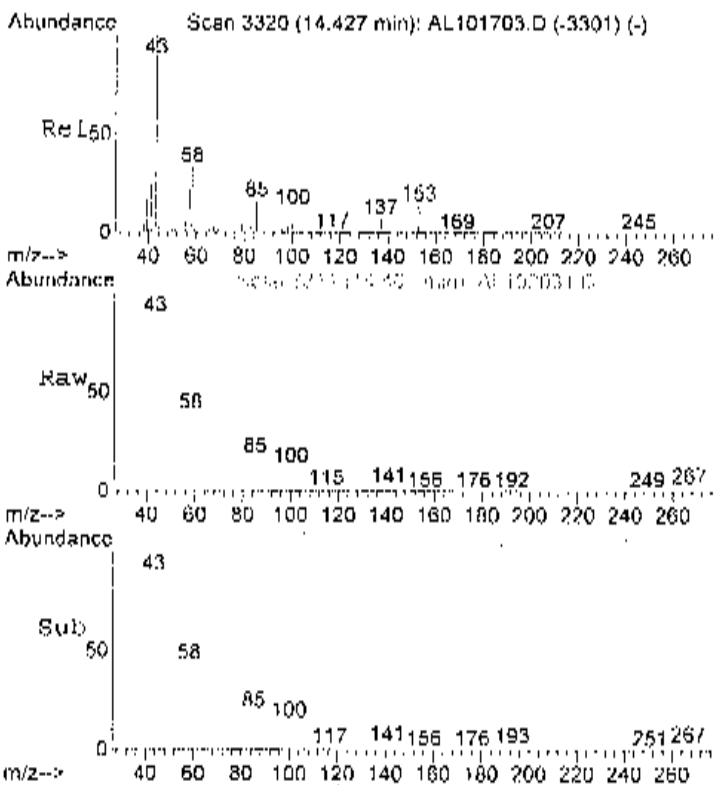
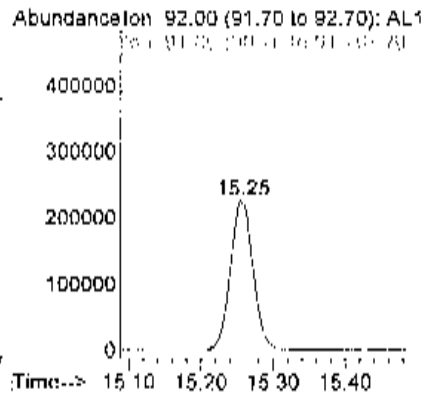
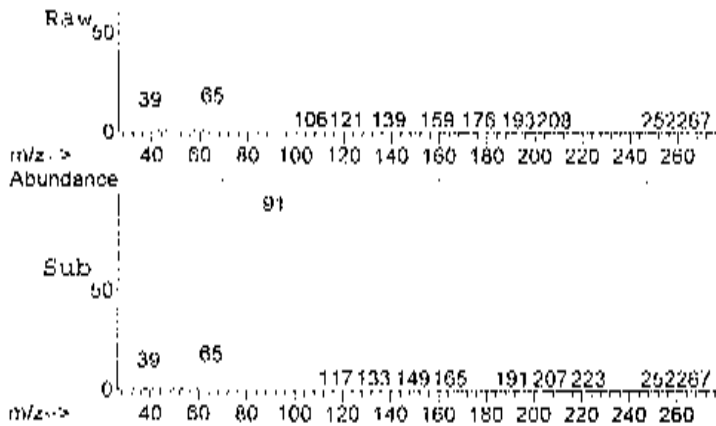
Tgt	Ion	Resp	Lower	Upper
	130	100		
	132	94.3	78.0	118.0
	95	103.6	82.4	122.4





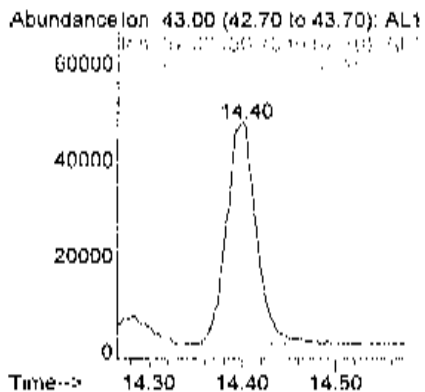
#52
Toluene
Concen: 3.23 ppb
RT: 15.25 min Scan# 3596
Delta R.T. -0.01 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

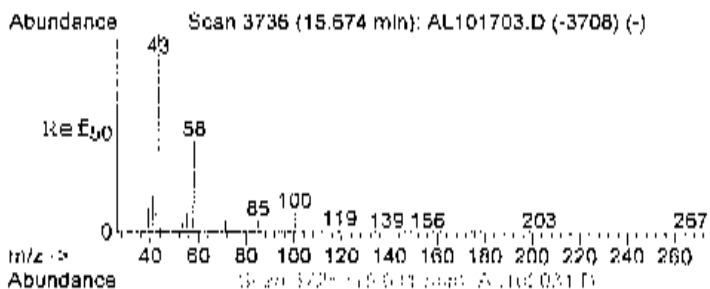
Tgt Ion	Resp	Lower	Upper
92	500207		
92	100		
91	174.9	154.2	194.2



#53
Methyl Isobutyl Ketone
Concen: 0.89 ppb
RT: 14.40 min Scan# 3311
Delta R.T. -0.03 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

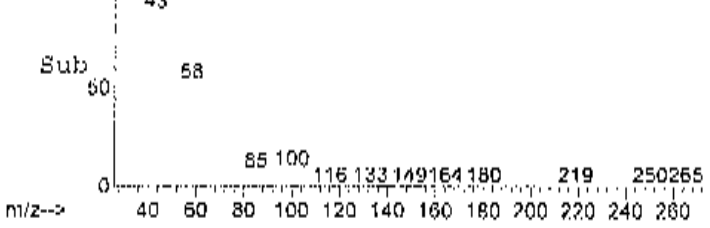
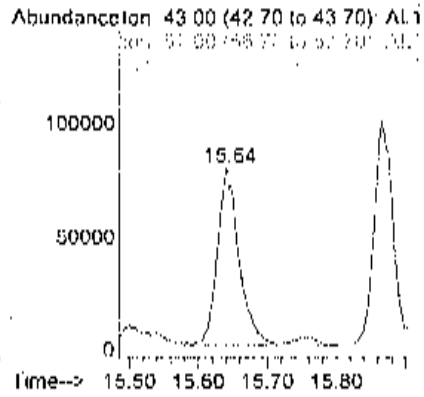
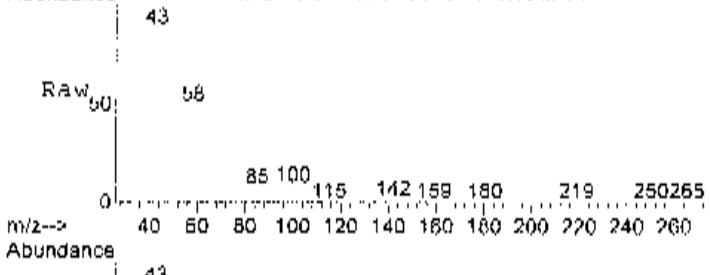
Tgt Ion	Resp	Lower	Upper
43	104819		
43	100		
57	39.6	3.4	43.4
58	37.3	20.9	60.9





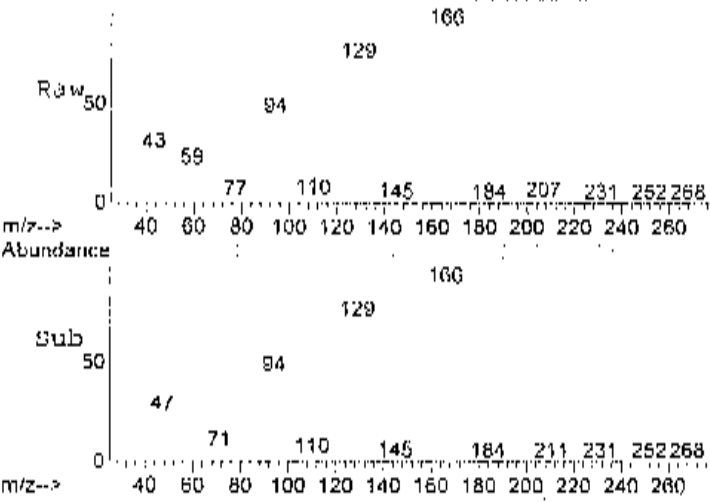
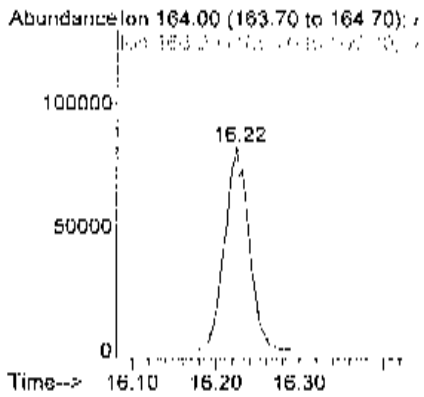
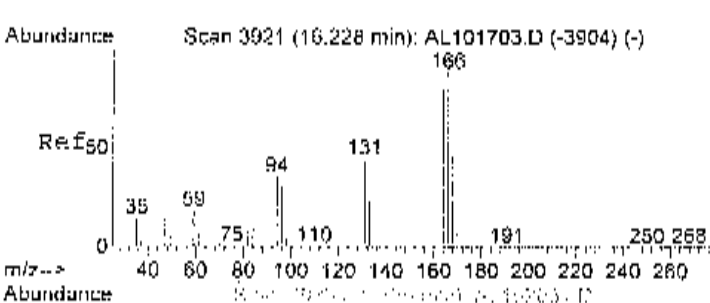
#55
Methyl Butyl Ketone
Concn: 2.25 ppb
RT: 15.64 min Scan# 3725
Delta R.T. -0.04 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

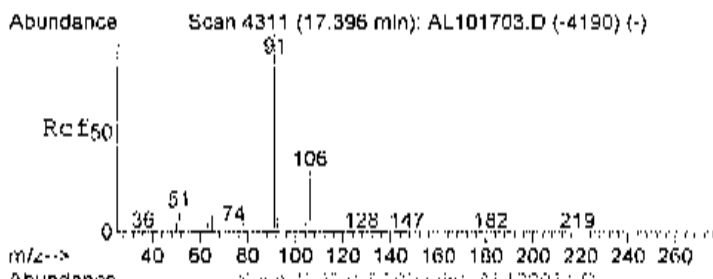
Tgt Ion	Resp	Lower	Upper
43	183186		
43	100		
57	18.2	0.0	37.4
58	42.3	28.3	68.3



#57
Tetrachloroethylene
Concn: 1.23 ppb
RT: 16.22 min Scan# 3920
Delta R.T. -0.01 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

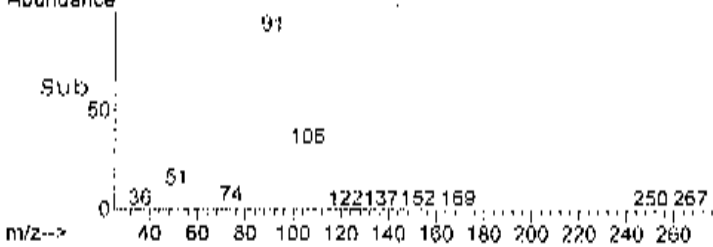
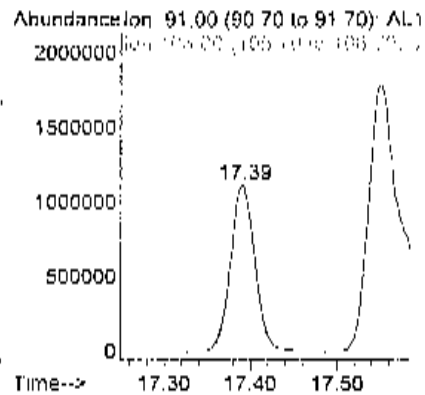
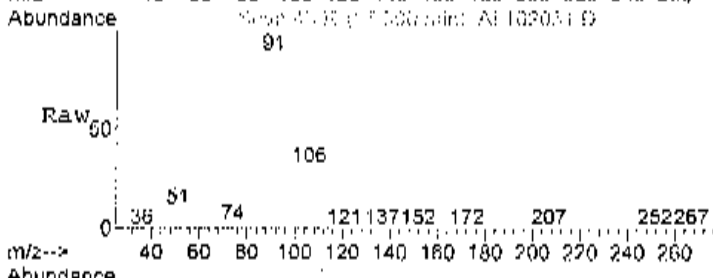
Tgt Ion	Resp	Lower	Upper
164	167324		
164	100		
166	128.2	108.0	148.0





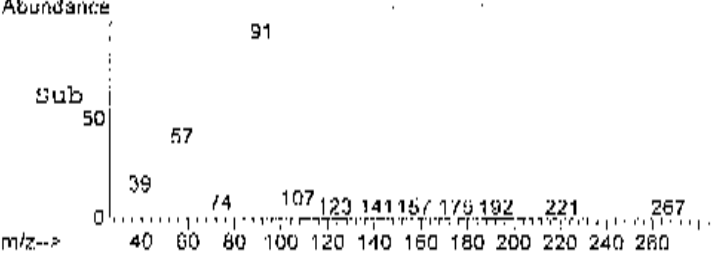
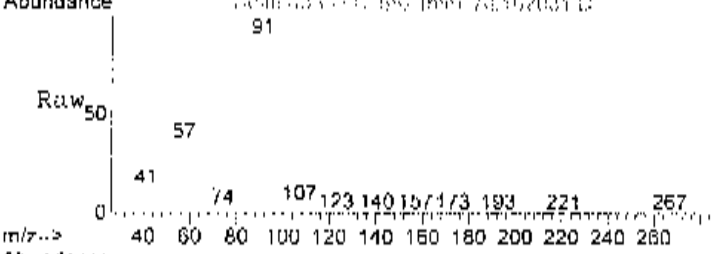
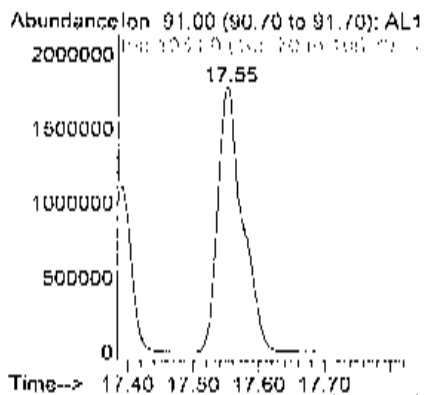
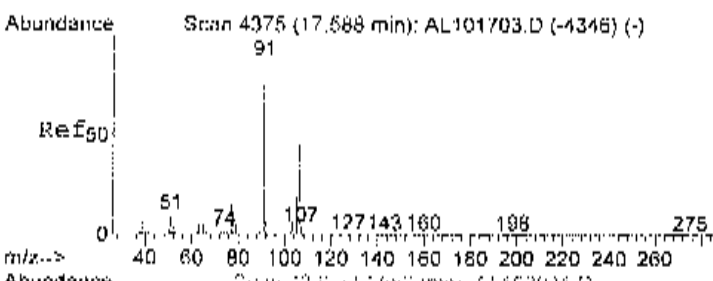
#60
Ethylbenzene
Concen: 6.74 ppb
RT: 17.39 min Scan# 4309
Delta R.T. 0.01 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

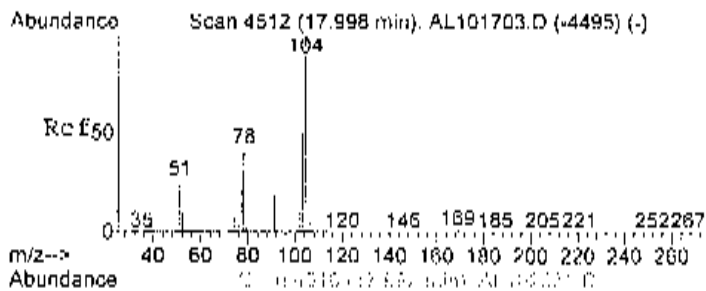
Tgt Ion	Resp	Lower	Upper
91	2195381		
106	31.3	12.2	52.2



#61
m,p-xylene
Concen: 18.25 ppb
RT: 17.55 min Scan# 4363
Delta R.T. -0.04 min
Lab File: AL102031.D
Acq: 21 Oct 2014 4:12 am

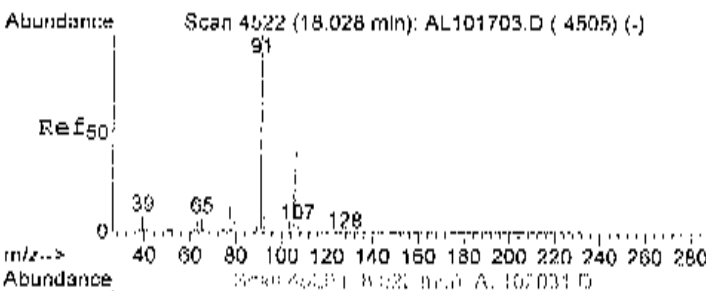
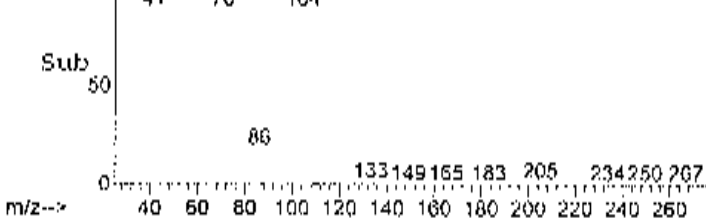
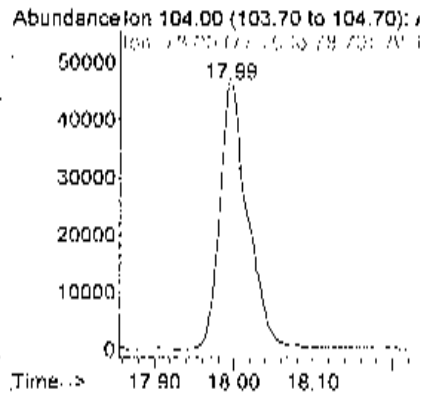
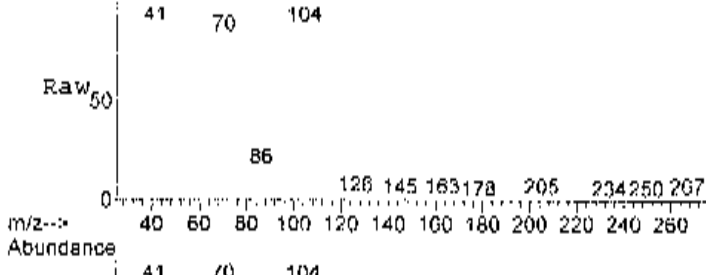
Tgt Ion	Resp	Lower	Upper
91	4691910		
106	48.6	29.2	69.2





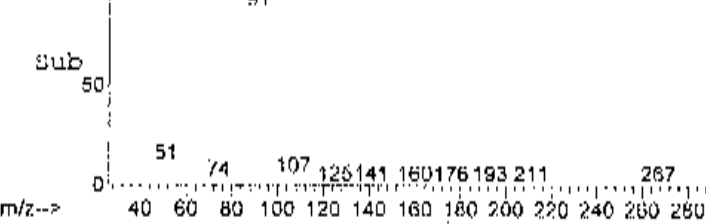
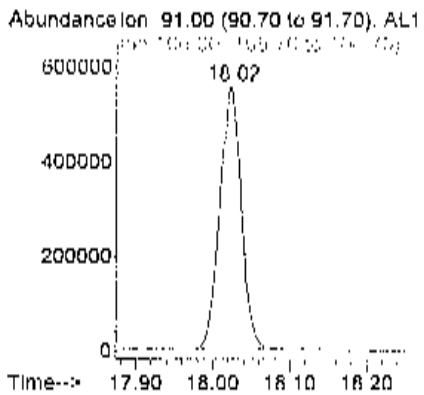
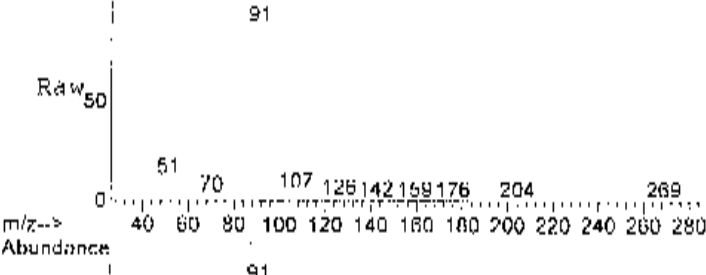
#63
 Styrene
 Concen: 0.64 ppb
 RT: 17.99 min Scan# 4510
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

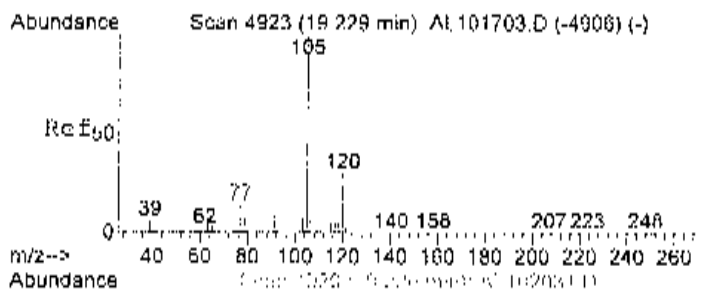
Tgt Ion	Resp	Lower	Upper
104	114360		
104	100		
78	103.5	31.2	71.2#



#65
 o xylene
 Concen: 3.30 ppb
 RT: 18.02 min Scan# 4520
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

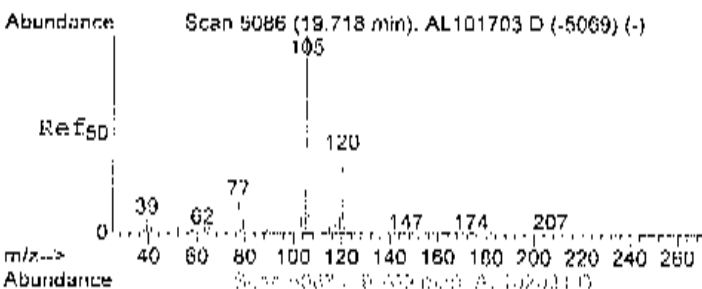
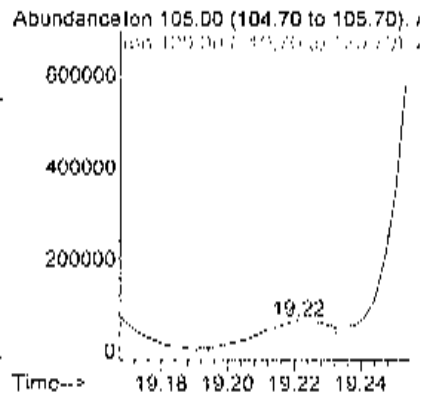
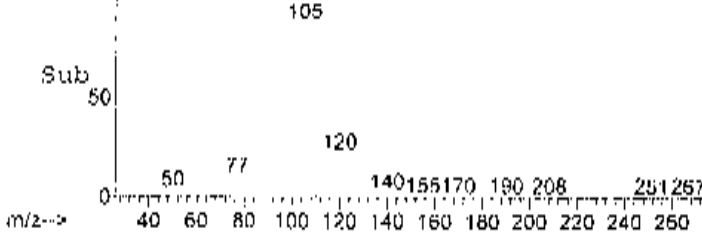
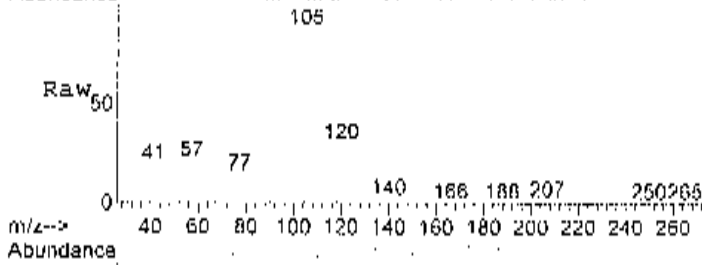
Tgt Ion	Resp	Lower	Upper
91	1087184		
91	100		
106	46.1	26.7	66.7





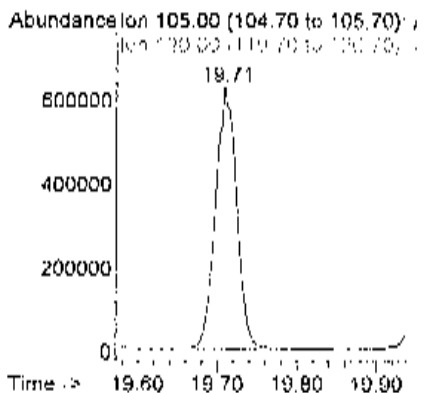
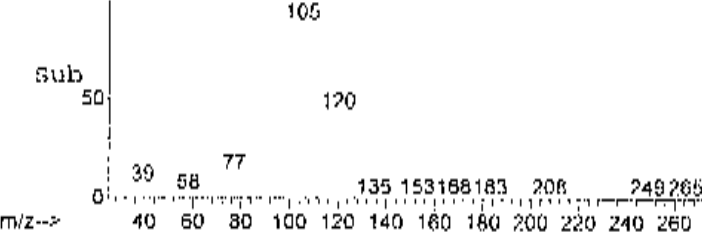
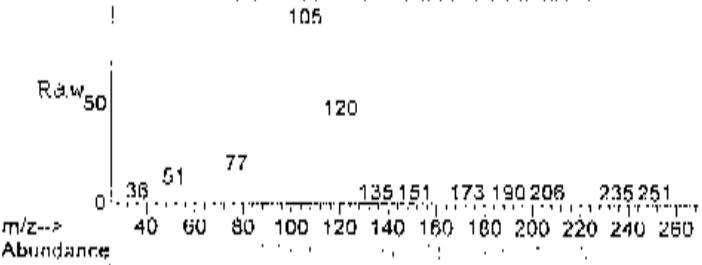
#71
 4-ethyltoluene
 Concen: 0.34 ppb m
 RT: 19.22 min Scan# 4920
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

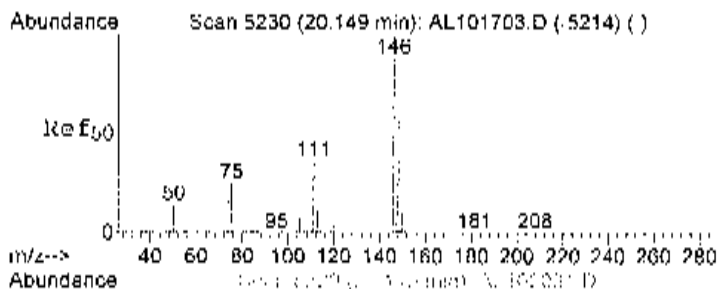
Tgt Ion	Resp	Lower	Upper
105	104263		
105	100		
120	103.7	0.0	20.0ff



#73
 1,2,4-trimethylbenzene
 Concen: 4.32 ppb
 RT: 19.71 min Scan# 5083
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

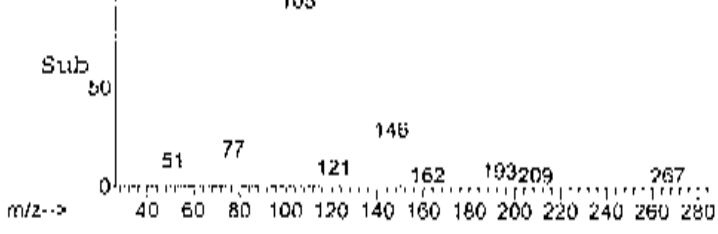
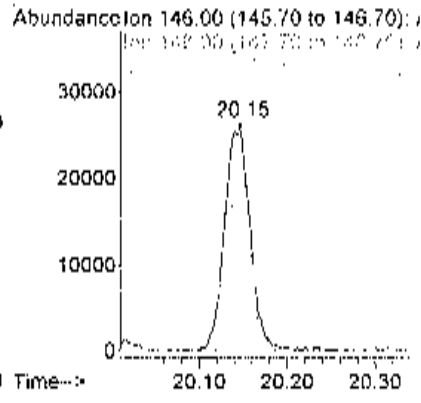
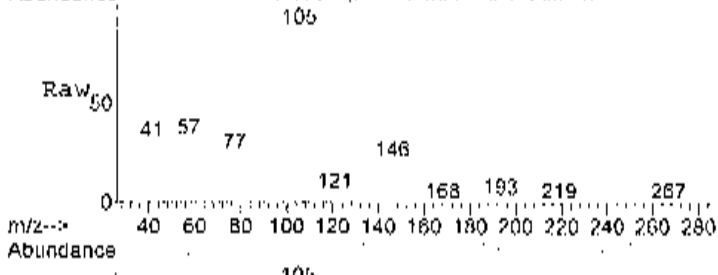
Tgt Ion	Resp	Lower	Upper
105	1157949		
105	100		
120	45.3	25.3	65.3





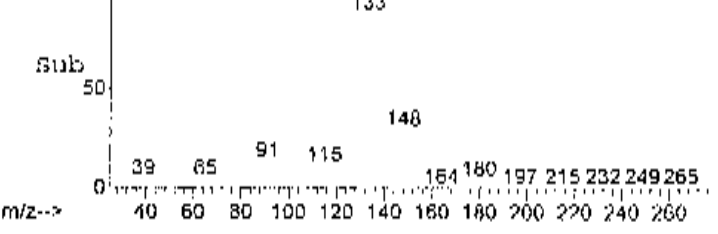
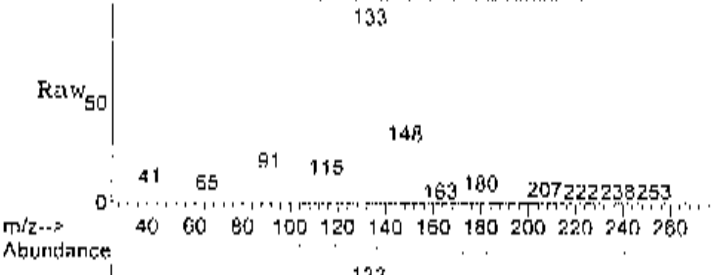
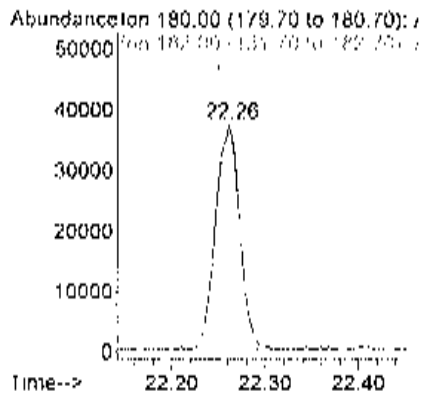
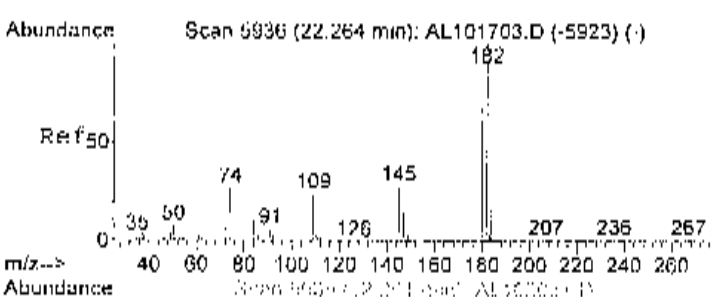
#76
 1,4-dichlorobenzene
 Concen: 0.29 ppb
 RT: 20.15 min Scan# 5229
 Delta R.T. -0.00 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

Tgt Ion	Resp	Lower	Upper
146	53725		
146	100		
148	66.4	44.3	84.3
111	0.0	17.9	57.9#



#79
 1,2,4-trichlorobenzene
 Concen: 0.85 ppb
 RT: 22.26 min Scan# 5935
 Delta R.T. -0.01 min
 Lab File: AL102031.D
 Acq: 21 Oct 2014 4:12 am

Tgt Ion	Resp	Lower	Upper
180	68349		
180	100		
182	94.6	75.2	115.2
184	32.6	10.7	50.7



Data File : C:\HPCHEM\1\DATA\AL102036.D
 Acq On : 21 Oct 2014 7:12 am
 Sample : C1410057-004A 10X
 Misc : A910_LUG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 11:01:27 2014

Vial: 33
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_LUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_LUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : LUG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	27702	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	107339	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	92306	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	58547	0.90	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%

Target Compounds

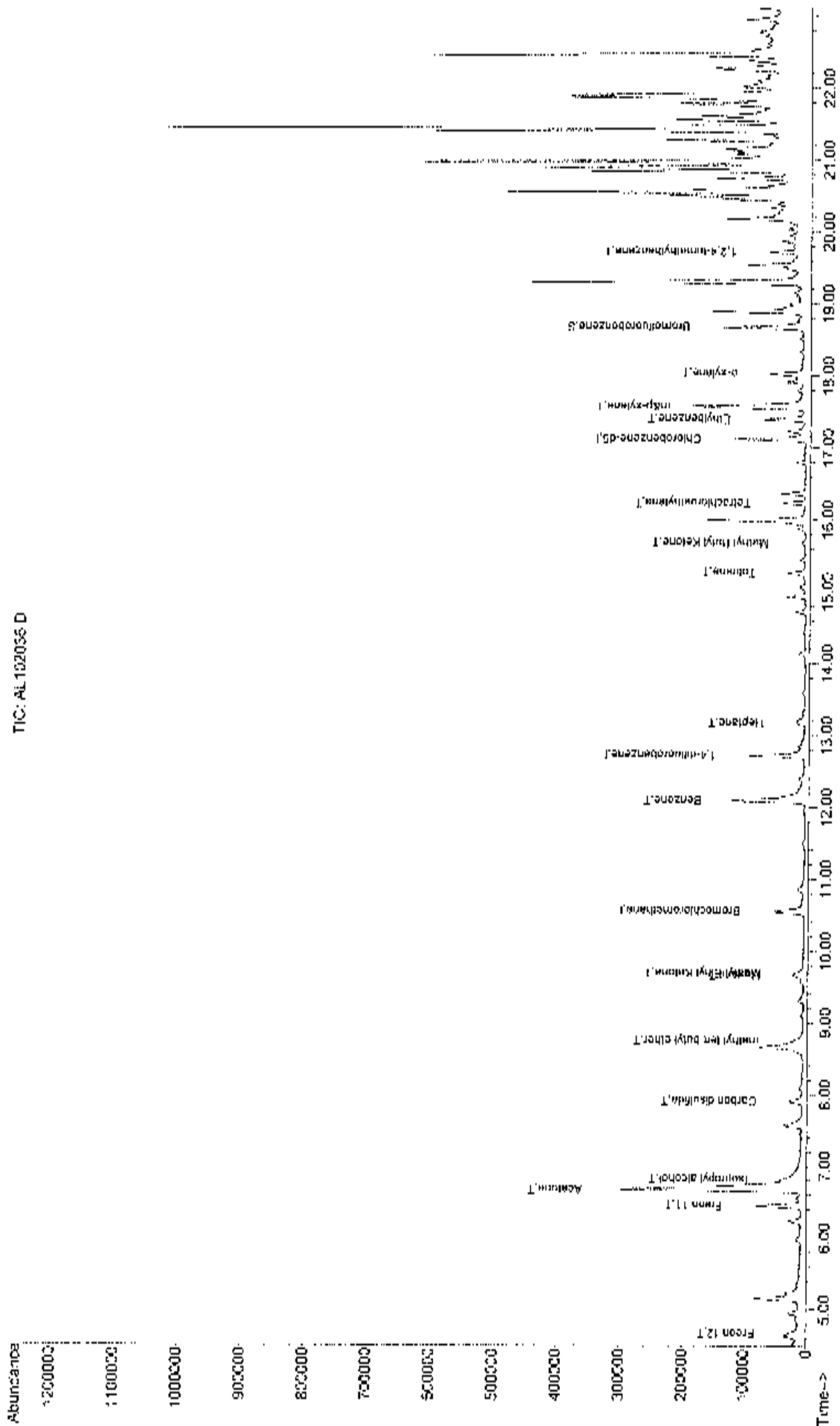
	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.67	85	17415	0.13	ppb	98
15) Freon 11	6.44	101	96020	0.74	ppb	99
16) Acetone	6.67	58	218881	23.81	ppb	# 42
18) Isopropyl alcohol	6.82	45	23172	0.74	ppb	# 100
24) Carbon disulfide	7.91	76	56063	0.64	ppb	98
26) methyl tert-butyl ether	8.75	73	9545	0.11	ppb	65
29) Methyl Ethyl Ketone	9.68	72	4763	0.37	ppb	# 1
31) Hexane	9.65	57	10062	0.19	ppb	# 37
40) Benzene	12.07	78	13066	0.12	ppb	# 70
44) Heptane	13.18	43	6553	0.15	ppb	# 69
52) Toluene	15.26	92	15631	0.24	ppb	94
55) Methyl Butyl Ketone	15.68	43	4858m/l	0.14	ppb	
57) Tetrachloroethylene	16.23	164	9775	0.17	ppb	97
60) Ethylbenzene	17.40	91	58405	0.43	ppb	99
61) m&p-xylene	17.55	91	151620	1.43	ppb	100
65) o-xylene	18.03	91	34671	0.26	ppb	97
73) 1,2,4-trimethylbenzene	19.72	105	29125	0.26	ppb	99

Data File : C:\HPCHEM\1\DATA\AL102036.D
Acq Cr : 21 Oct 2014 7:12 am
Sample : C1410057-004A 10X
Misc : A910_10G
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:20 2014

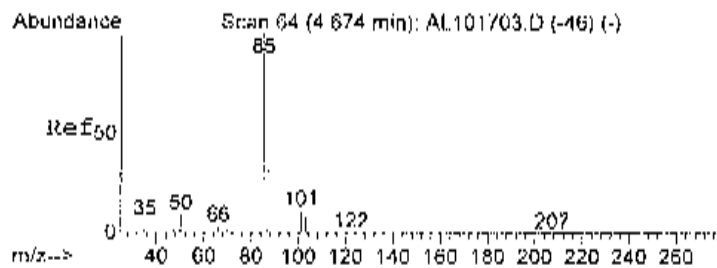
Vial: 33
Operator: RCP
Inst : MSD F1
Multiplr: 1.00

Quant Results File: A910_10G.RES

Method : C:\HPCHEM\1\METHODS\A910_10G.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

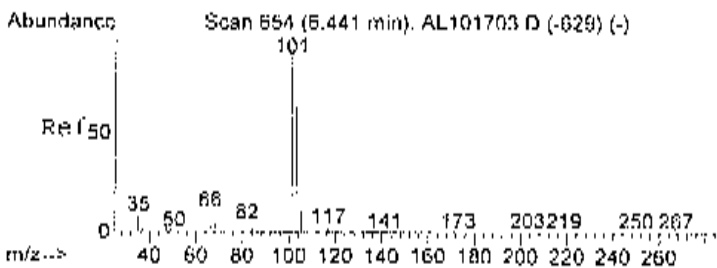
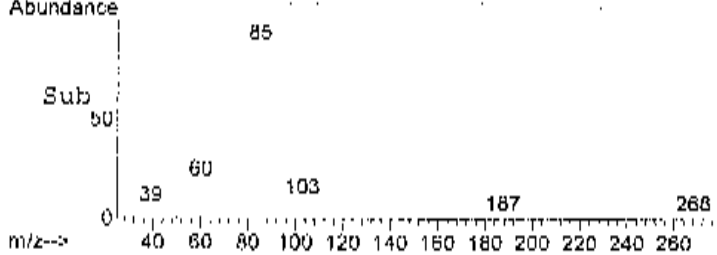
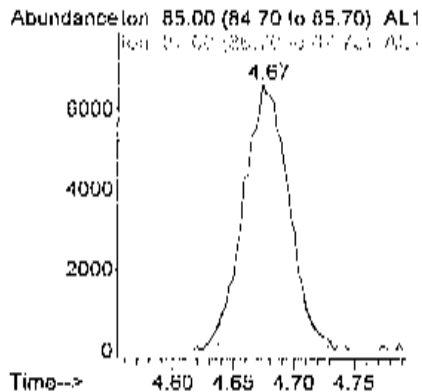
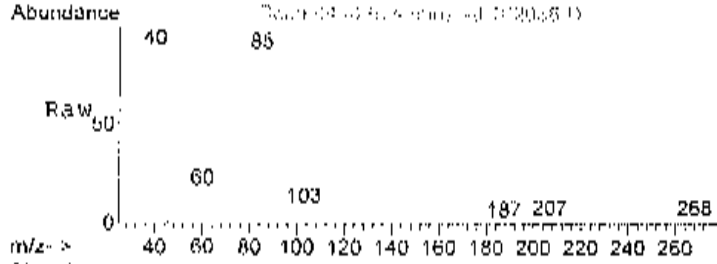


TIC: AL102036.D



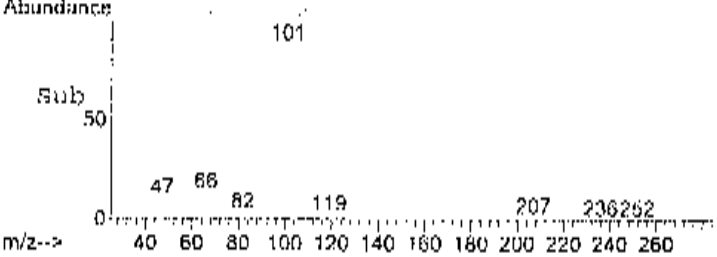
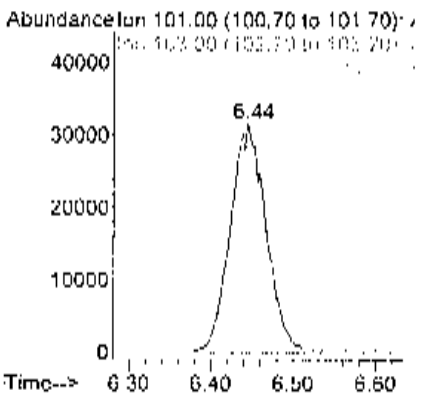
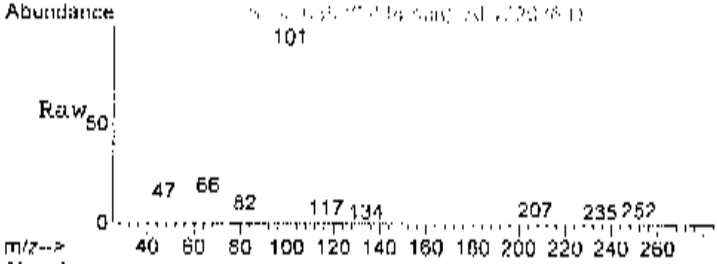
#4
 Freon 12
 Concen: 0.13 ppb
 RT: 4.67 min Scan# 64
 Delta R.T. -0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

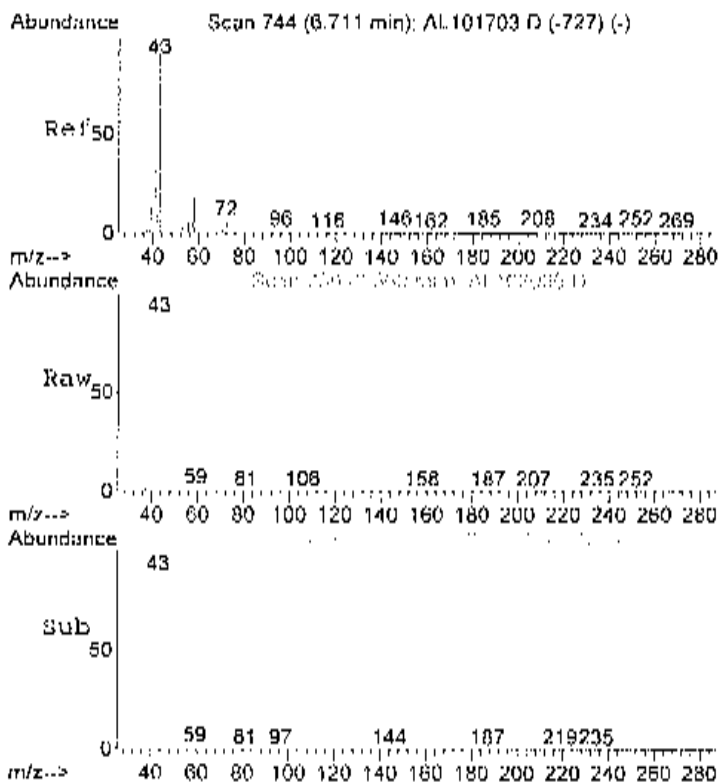
Tgt Ion	85	Resp	17415
Ion Ratio	Lower	Upper	
85	100		
87	33.4	12.1	52.1



#15
 Freon 11
 Concen: 0.74 ppb
 RT: 6.44 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

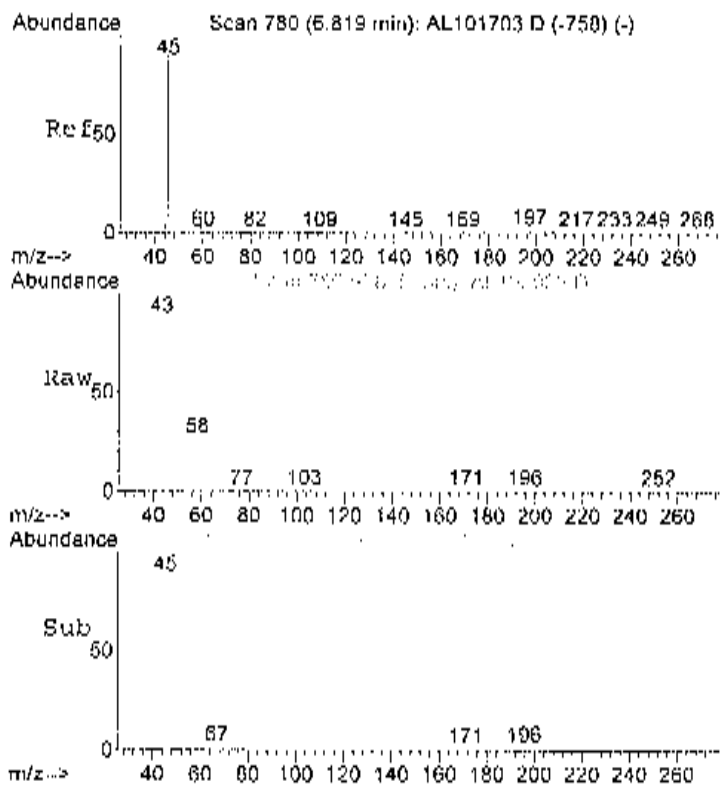
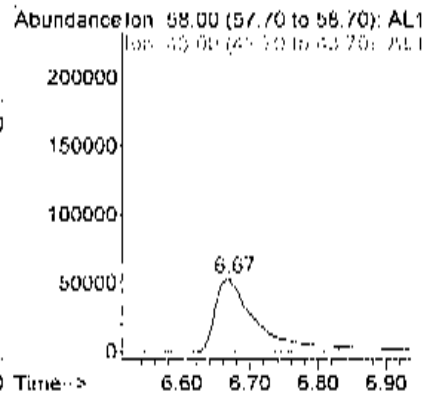
Tgt Ion	101	Resp	96020
Ion Ratio	Lower	Upper	
101	100		
103	66.6	45.8	85.8
105	10.6	0.0	31.2





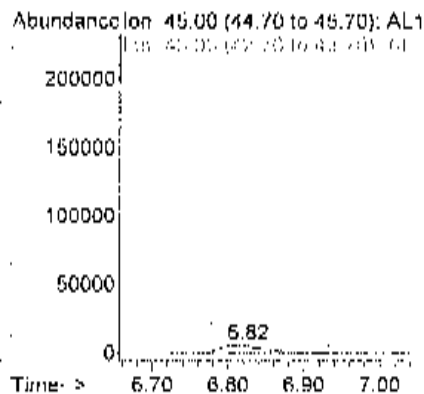
#16
 Acetone
 Concen: 23.81 ppb
 RT: 6.67 min Scan# 730
 Delta R.T. -0.02 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

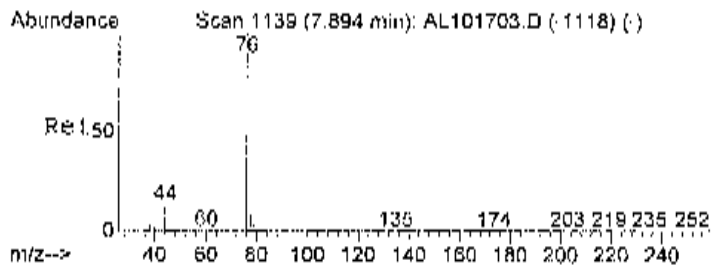
Tgt Ion	Resp	Lower	Upper
58	218881		
58	100		
43	375.3	514.7	574.74



#18
 Isopropyl alcohol
 Concen: 0.74 ppb
 RT: 6.82 min Scan# 780
 Delta R.T. 0.01 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

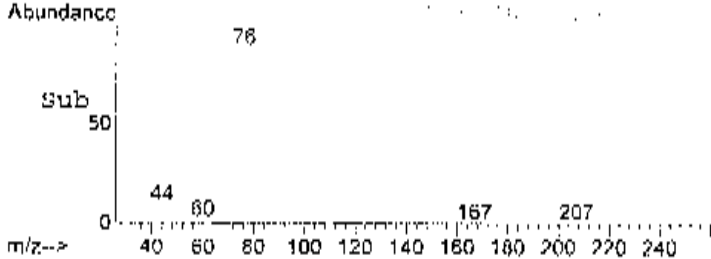
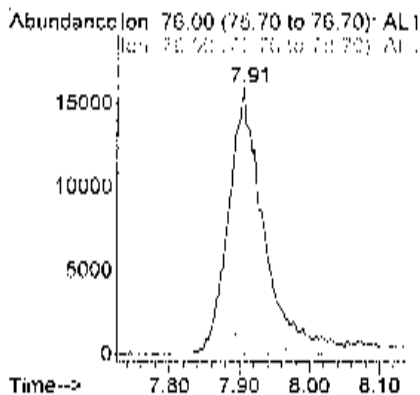
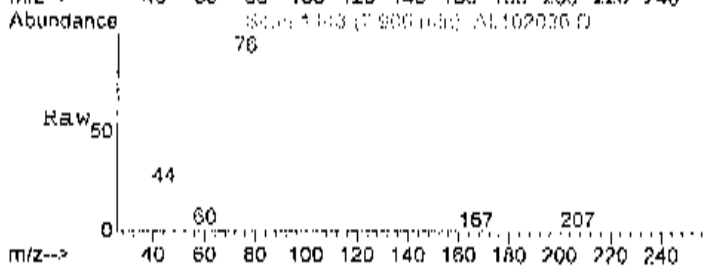
Tgt Ion	Resp	Lower	Upper
45	23172		
45	100		
43	0.0	0.0	20.0





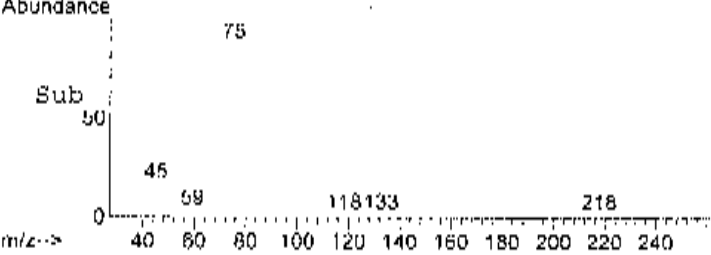
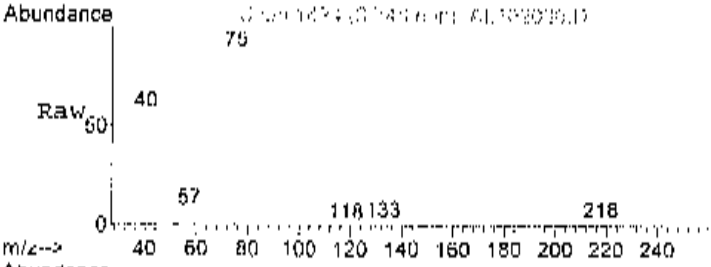
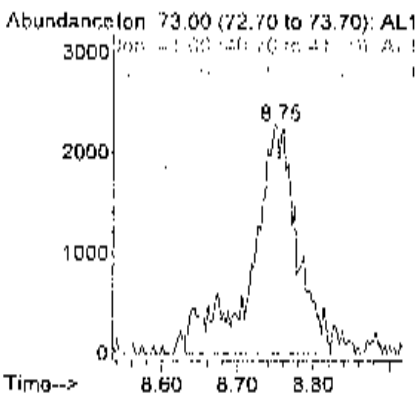
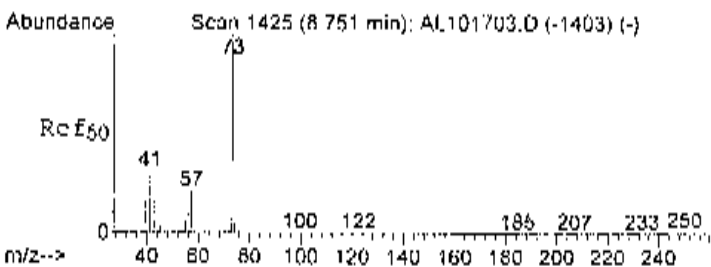
#24
Carbon disulfide
Concn: 0.64 ppb
RT: 7.91 min Scan# 1143
Delta R.T. 0.01 min
Lab File: AL102036.D
Acq: 21 Oct 2014 7:12 am

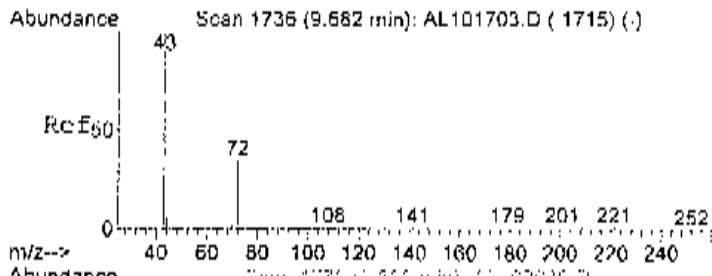
Tgt Ion	Resp	Lower	Upper
76	56063		
78	9.7	0.0	29.1



#26
methyl tert-butyl ether
Concn: 0.11 ppb
RT: 8.75 min Scan# 1424
Delta R.T. -0.00 min
Lab File: AL102036.D
Acq: 21 Oct 2014 7:12 am

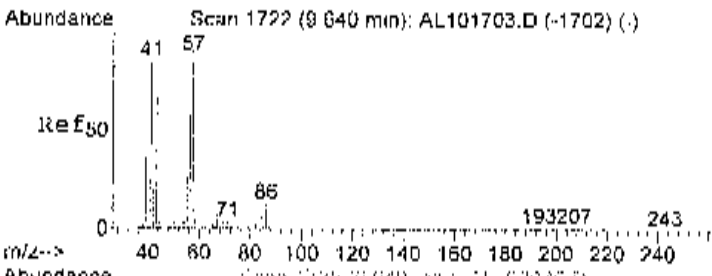
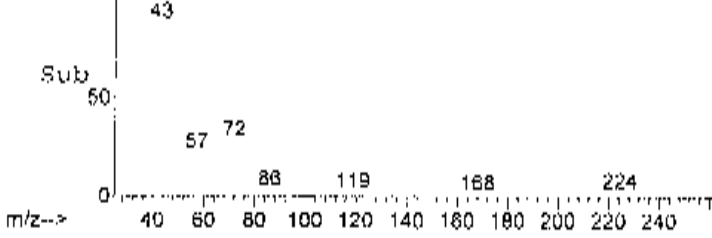
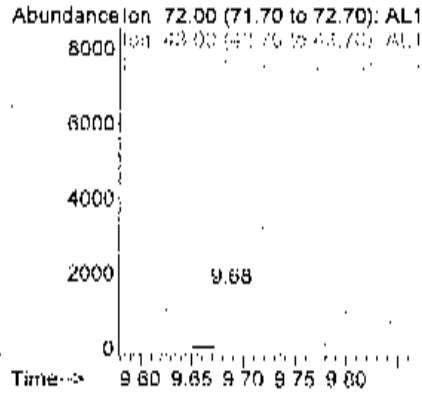
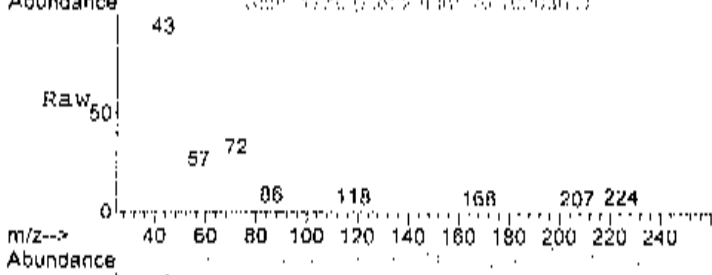
Tgt Ion	Resp	Lower	Upper
73	9545		
41	39.0	1.5	41.5
53	2.8	0.0	21.6





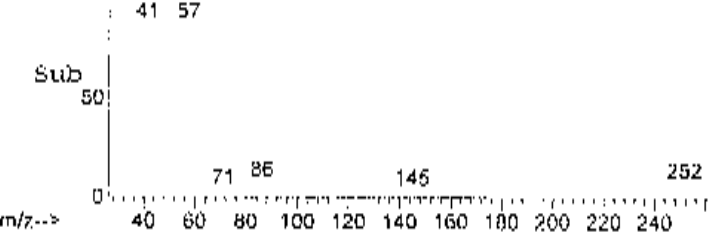
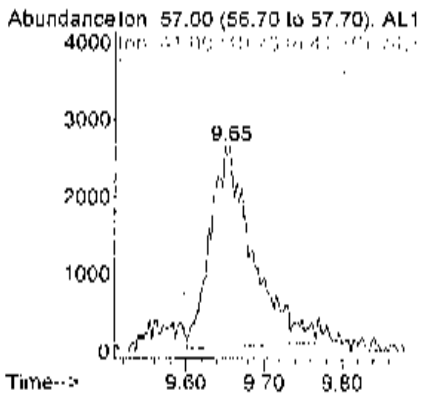
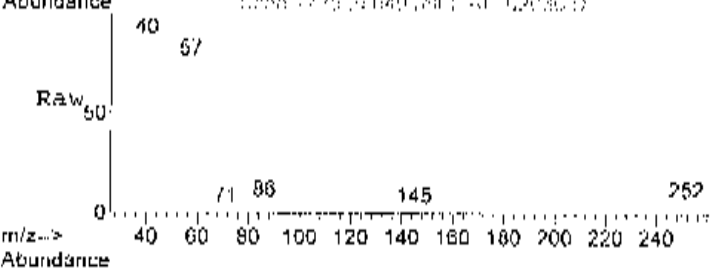
#29
Methyl Ethyl Ketone
Concen: 0.37 ppb
RT: 9.68 min Scan# 1736
Delta R.T. 0.02 min
Lab File: AL102036.D
Acq: 21 Oct 2014 7:12 am

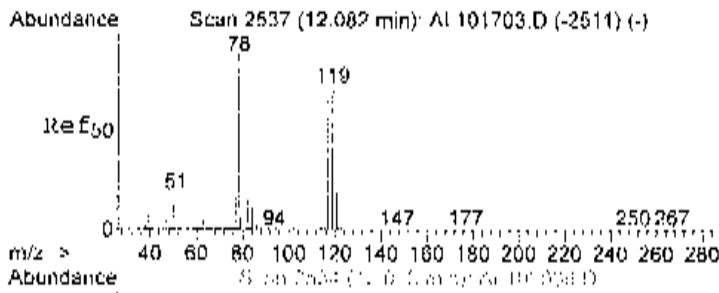
Tgt Ion	Resp	Lower	Upper
72	4763		
43	0.0	530.5	570.5#
72	100.0	80.0	120.0



#31
Hexane
Concen: 0.19 ppb
RT: 9.65 min Scan# 1725
Delta R.T. 0.00 min
Lab File: AL102036.D
Acq: 21 Oct 2014 7:12 am

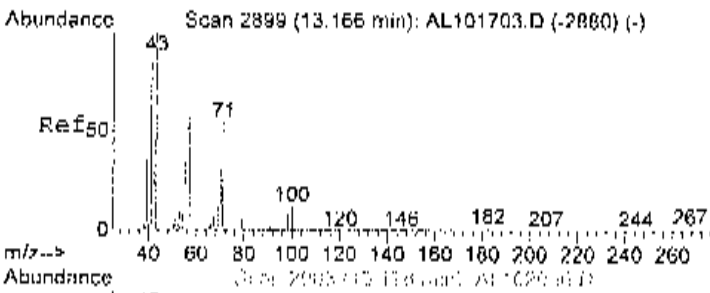
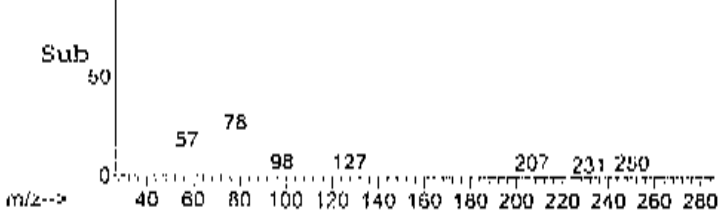
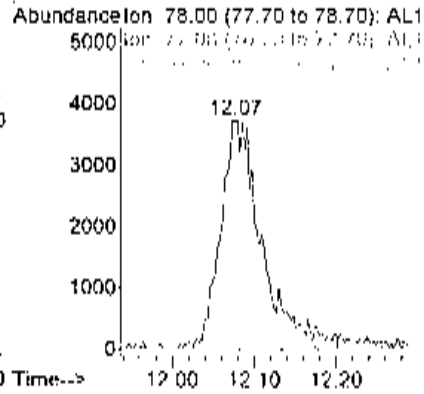
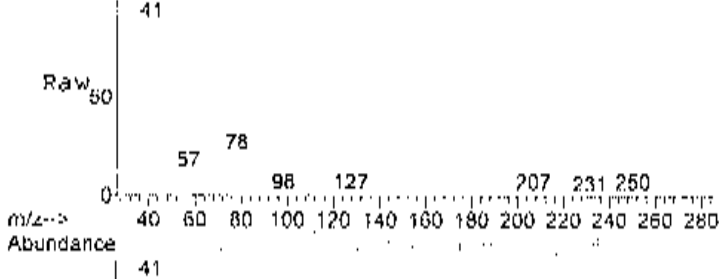
Tgt Ion	Resp	Lower	Upper
57	10062		
41	142.5	45.2	85.2#
56	61.0	29.0	69.0





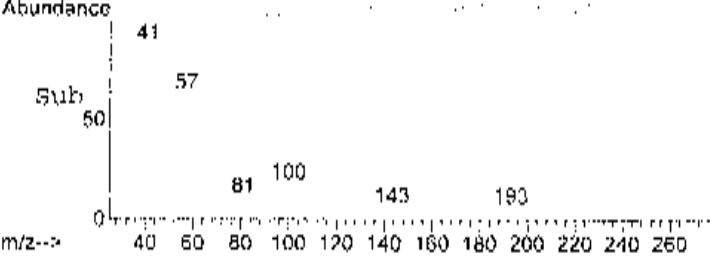
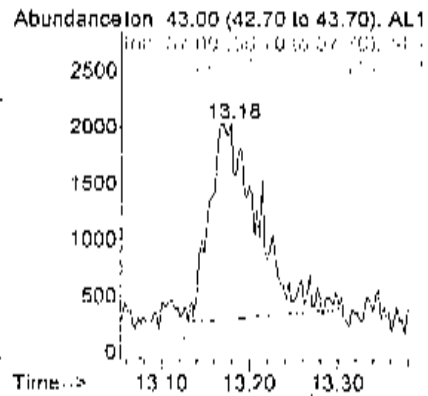
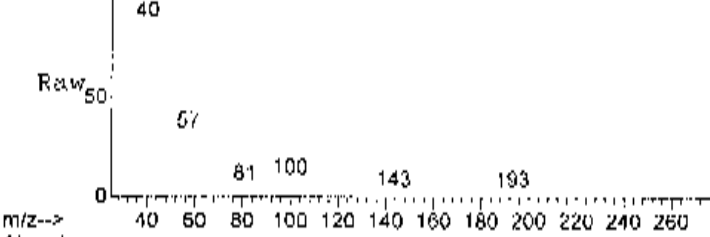
#40
Benzene
Concen: 0.12 ppb
RT: 12.07 min Scan# 2534
Delta R.T. -0.00 min
Lab File: AL102036.D
Acq: 21 Oct 2014 7:12 am

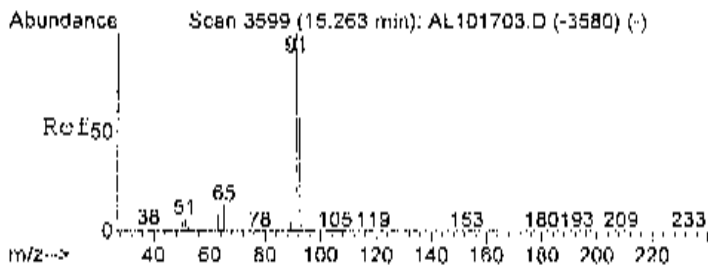
Tgt Ion	Resp	Lower	Upper
78	13066		
77	25.5	3.6	43.6
51	44.8	0.0	36.3#



#44
Heptane
Concen: 0.15 ppb
RT: 13.18 min Scan# 2903
Delta R.T. 0.01 min
Lab File: AL102036.D
Acq: 21 Oct 2014 7:12 am

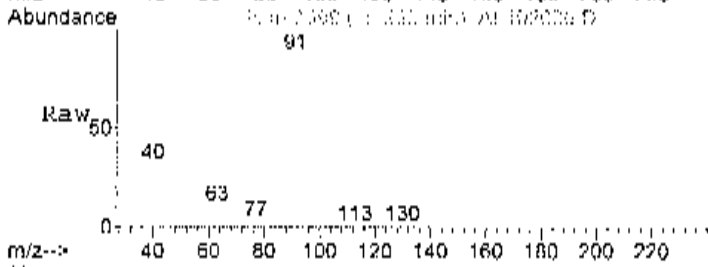
Tgt Ion	Resp	Lower	Upper
43	6553		
57	89.8	34.7	74.7#
71	48.5	39.1	79.1



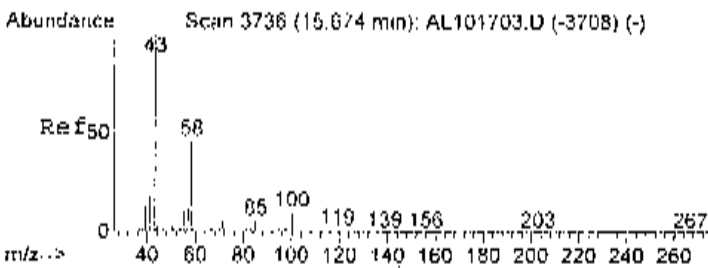
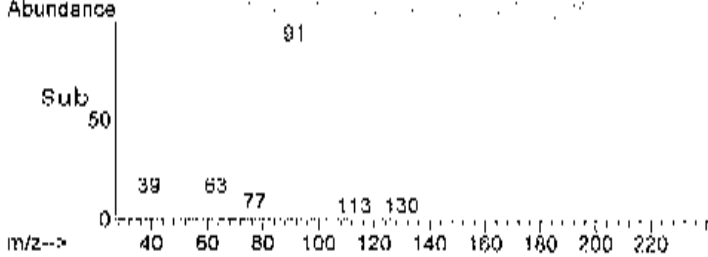
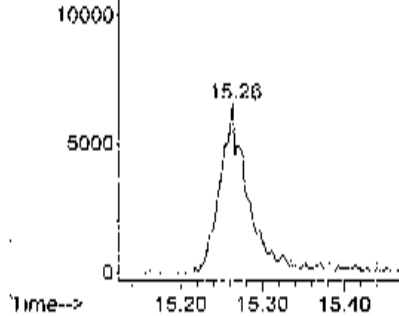


#52
 Toluene
 Concen: 0.24 ppb
 RT: 15.26 min Scan# 3599
 Delta R.T. -0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

Tgt Ion	Resp	Lower	Upper
92	15631		
92	100		
91	182.6	154.2	194.2

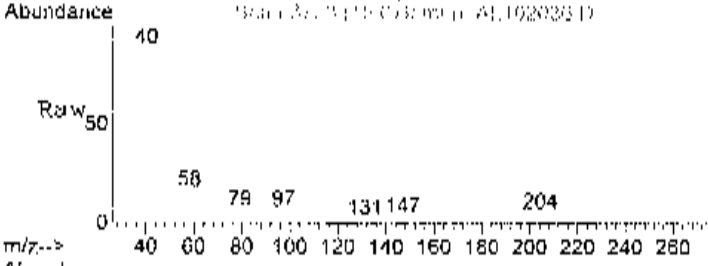


Abundance Ion 92.00 (91.70 to 92.70): AL1
 Ion 91.00 (90.70 to 91.70): AL1

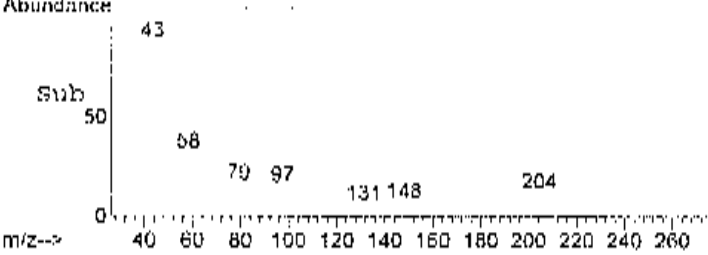
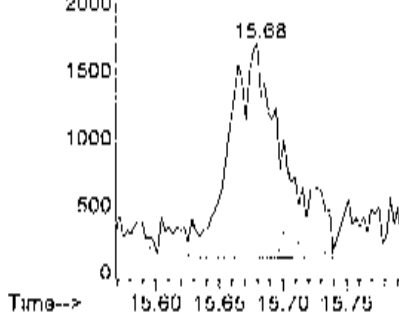


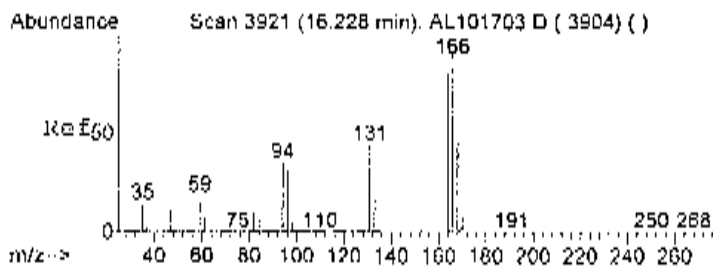
#55
 Methyl Butyl Ketone
 Concen: 0.14 ppb m
 RT: 15.68 min Scan# 3738
 Delta R.T. -0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

Tgt Ion	Resp	Lower	Upper
43	4858		
43	100		
57	27.9	0.0	37.4
58	37.8	28.3	68.3



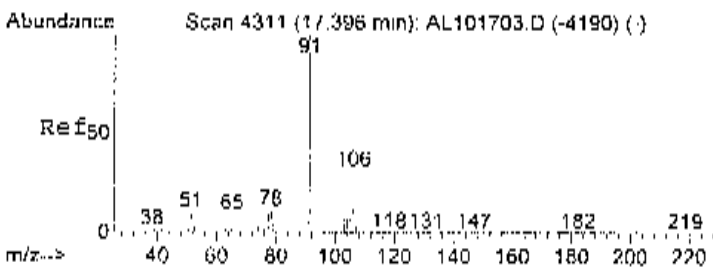
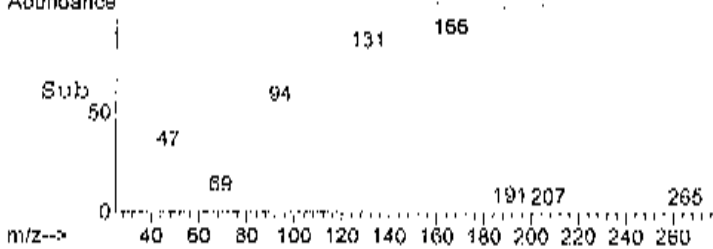
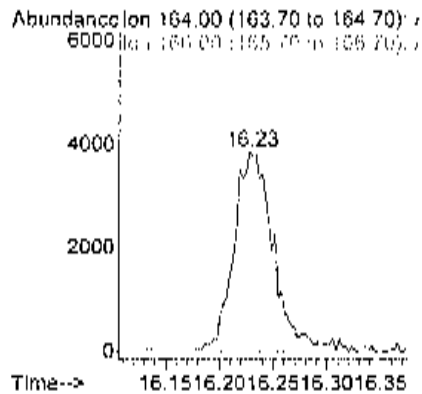
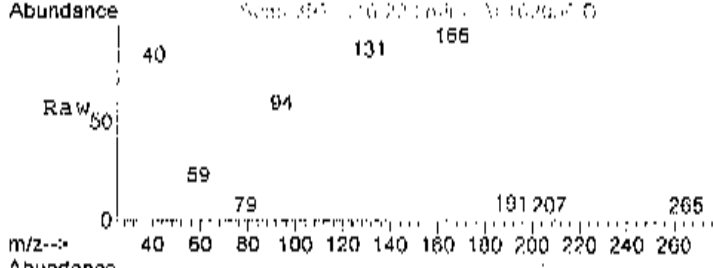
Abundance Ion 43.00 (42.70 to 43.70): AL1
 Ion 41.00 (40.70 to 41.70): AL1





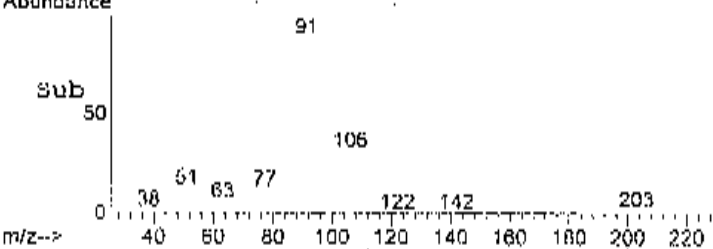
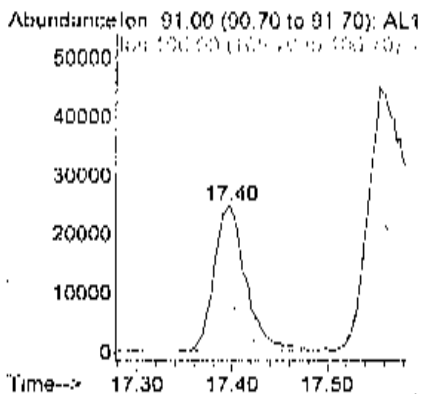
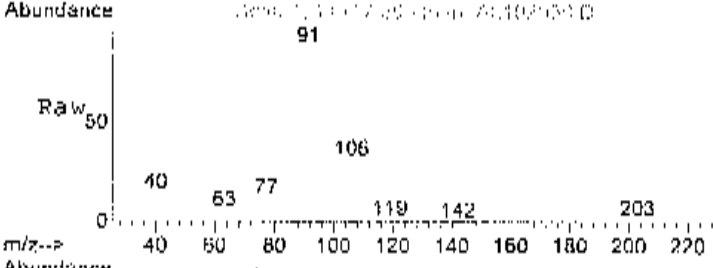
#57
 Tetrachloroethylene
 Concen: 0.17 ppb
 RT: 16.23 min Scan# 3921
 Delta R.T. -0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

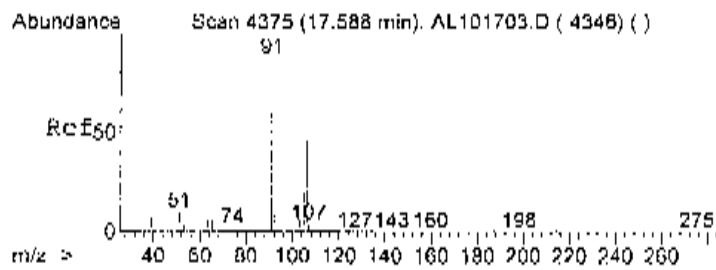
Tgt Ion	Resp	Lower	Upper
164	9775		
166	124.4	109.0	148.0



#60
 Ethylbenzene
 Concen: 0.43 ppb
 RT: 17.40 min Scan# 4311
 Delta R.T. -0.01 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

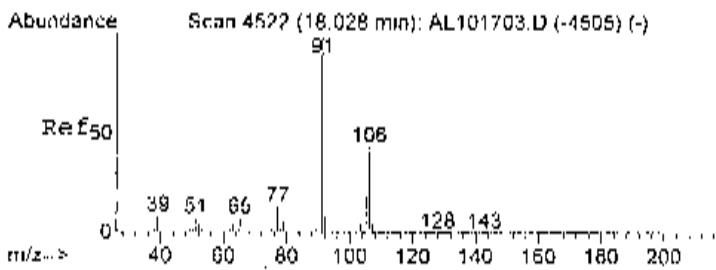
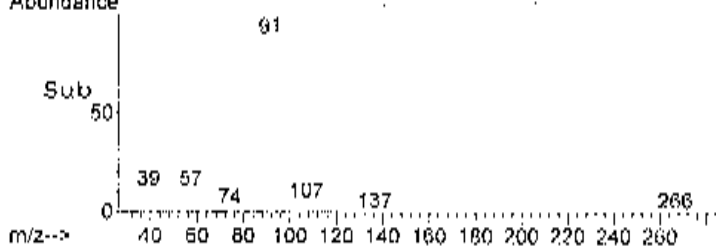
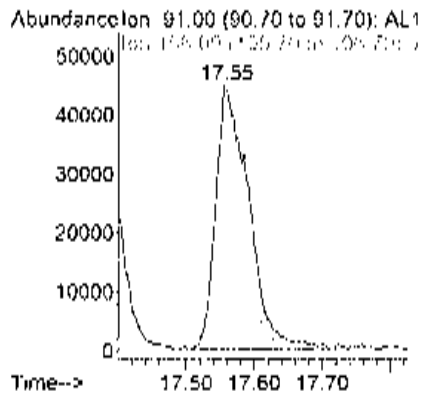
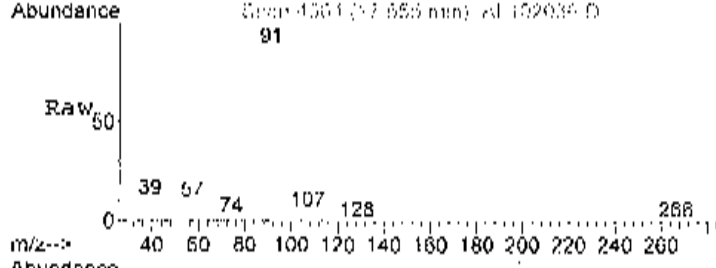
Tgt Ion	Resp	Lower	Upper
91	58405		
106	31.5	12.2	52.2





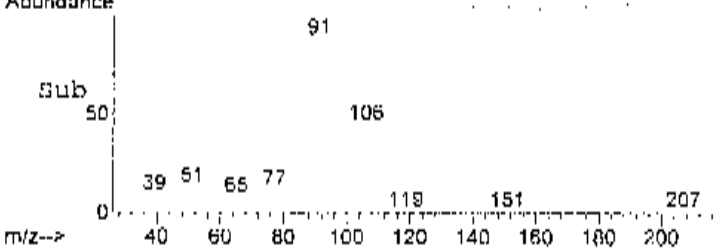
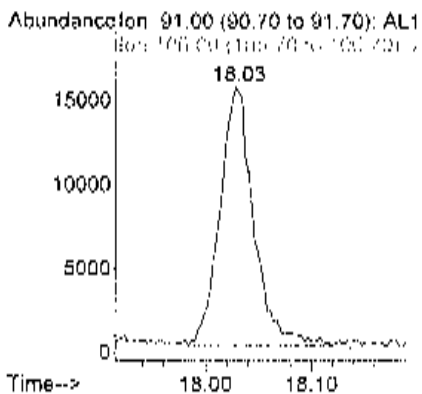
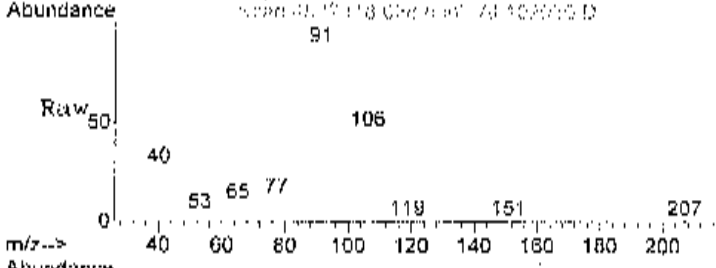
#61
 m&p-xylene
 Concn: 1.43 ppb
 RT: 17.55 min Scan# 4364
 Delta R.T. 0.03 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

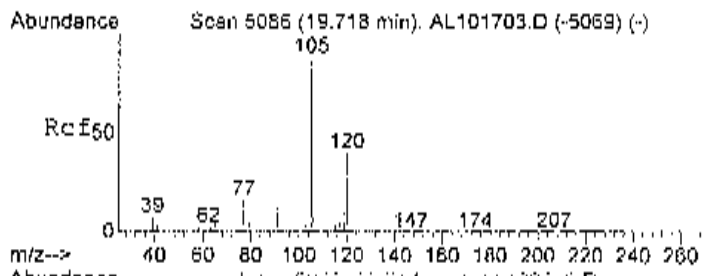
Tgt Ion	Resp	Lower	Upper
91	151620		
106	49.3	29.2	69.2



#65
 o-xylene
 Concn: 0.26 ppb
 RT: 18.03 min Scan# 4522
 Delta R.T. -0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

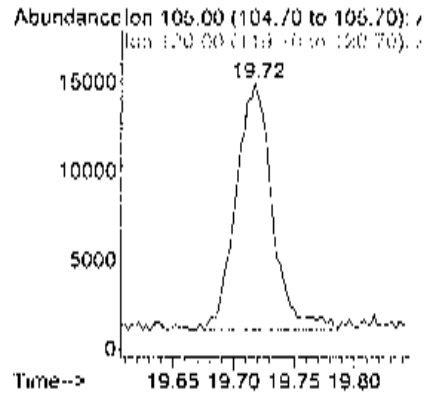
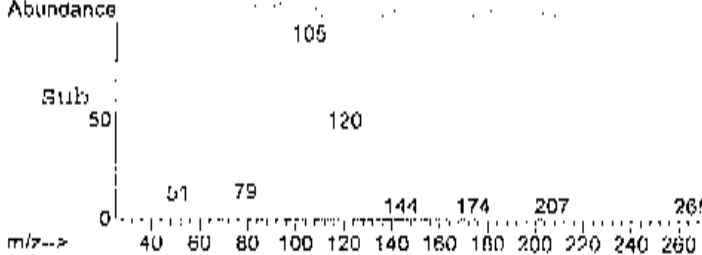
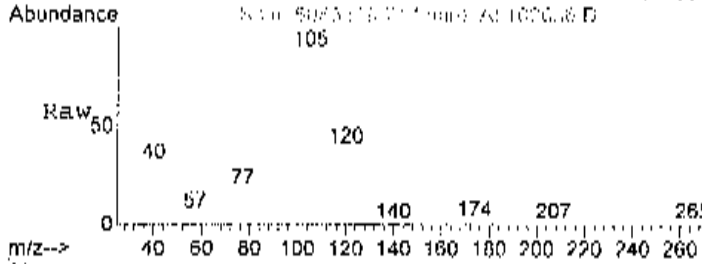
Tgt Ion	Resp	Lower	Upper
91	34671		
106	48.4	26.7	66.7





#73
 1,2,4-Trimethylbenzene
 Concen: 0.26 ppb
 RT: 19.72 min Scan# 5086
 Delta R.T. -0.00 min
 Lab File: AL102036.D
 Acq: 21 Oct 2014 7:12 am

Tgt Ion	Resp	Lower	Upper
105	29125		
120	45.0	25.3	65.3



Data File : C:\HPCHEM\1\DATA2\AL102121.D Vial: 28
 Acq On : 22 Oct 2014 12:53 am Operator: RJP
 Sample : C1410057-004A 640X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 22 14:31:03 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	30831	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.73	114	118878	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	85772	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene 18.68 95 43582m 0.72 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 72.00%

Target Compounds

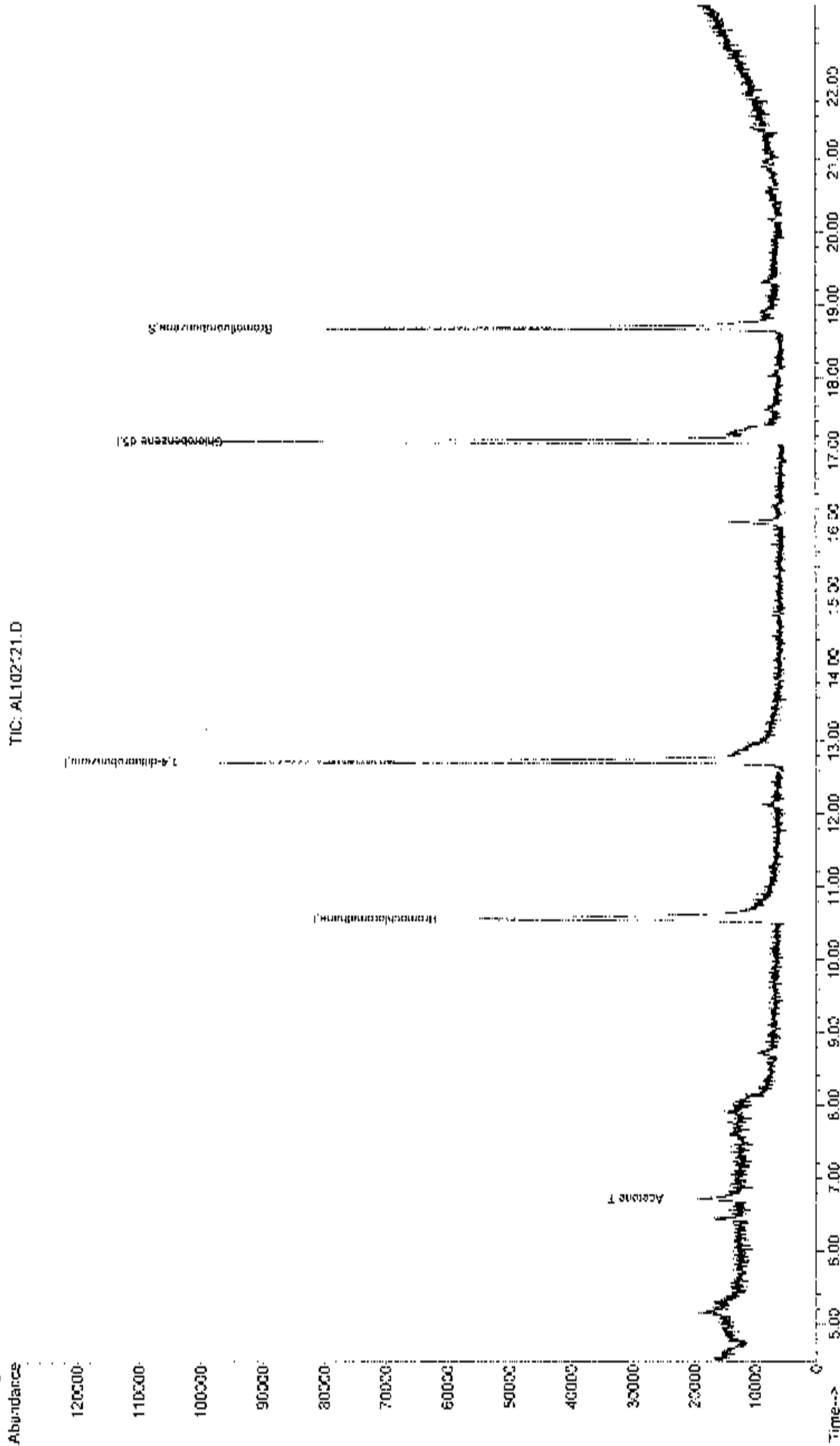
16) Acetone 6.71 58 3207 0.31 ppb # 60

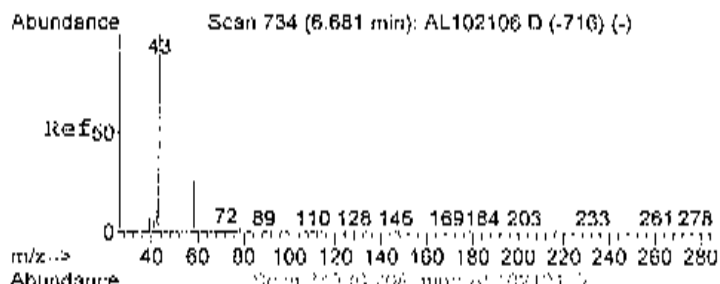
Data File : C:\HPCHEM\1\CATA2\AL102121.D
 Acq On : 22 Oct 2014 12:53 AM
 Sample : C1410057-004A 640X
 Misc : A910_LUG
 MS Integration Params: RIBINT.P
 Quant Time: Nov 17 15:14 2014

Vial: 28
 Operator: RJP
 Inst : MSD #1
 Multipl: 1.00

Quant Results File: A910_LUG.RES

Method : C:\HPCHEM\1\METHODS\A910_LUG.M (RTS Integrator)
 Title : 10-15 VCA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Initial Calibration

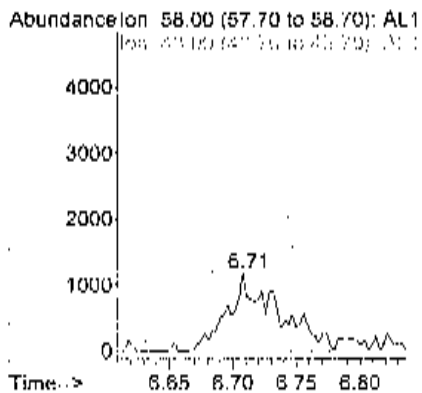
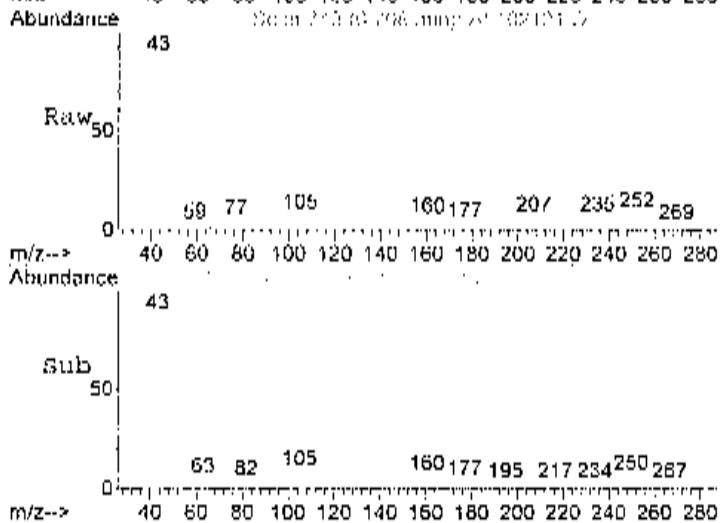




#16
 Acetone
 Concen: 0.31 ppb
 RT: 6.71 min Scan# 743
 Delta R.T. 0.02 min
 Lab File: AL102121.D
 Acq: 22 Oct 2014 12:53 am

Tgt Ion	Resp
58	3207

Ion	Ratio	Lower	Upper
58	100		
43	428.9	514.7	574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-005A

Client Sample ID: 1A-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-8			"Hg		Analyst: 10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
						Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1,2 Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2,4-Trimethylbenzene	0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 6:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Acetone	10	1.5		ppbV	5	10/18/2014 1:32:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Benzene	0.13	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Carbon tetrachloride	0.10	0.040		ppbV	1	10/17/2014 6:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Chloromethane	0.57	0.15		ppbV	1	10/17/2014 6:36:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-003A

Client Sample ID: IA-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TQ-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 11	0.33	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Freon 12	0.58	0.15		ppbV	1	10/17/2014 6:36:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Isopropyl alcohol	0.85	0.15		ppbV	1	10/17/2014 6:36:00 PM
m&p-Xylene	0.29	0.30	J	ppbV	1	10/17/2014 6:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 6:36:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	10/17/2014 6:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 6:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	10/17/2014 6:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Toluene	0.23	0.15		ppbV	1	10/17/2014 6:36:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 6:36:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 6:36:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 6:36:00 PM
Surr: Bromofluorobenzene	85.0	70-130		%REC	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-005A

Client Sample ID: 1A-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 6:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 6:36:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 6:36:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 6:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 6:36:00 PM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 6:36:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 6:36:00 PM
1,3,5-Trimethylbenzene	0.59	0.74	J	ug/m3	1	10/17/2014 6:36:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 6:36:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 6:36:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 6:36:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 6:36:00 PM
Acetone	24	3.6		ug/m3	6	10/18/2014 1:32:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 6:36:00 PM
Benzene	0.42	0.48	J	ug/m3	1	10/17/2014 6:36:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 6:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 6:36:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 6:36:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 6:36:00 PM
Carbon tetrachloride	0.63	0.25		ug/m3	1	10/17/2014 6:36:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 6:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 6:36:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 6:36:00 PM
Chloromethane	1.2	0.31		ug/m3	1	10/17/2014 6:36:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 6:36:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 6:36:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 6:36:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 6:36:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 6:36:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 6:36:00 PM
Freon 11	1.9	0.84		ug/m3	1	10/17/2014 6:36:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 6:36:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 H Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-005A

Client Sample ID: 1A-02
 Tag Number: 205,1154
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DP	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	10/17/2014 6:36:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 6:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 6:36:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 6:36:00 PM
Isopropyl alcohol	2.1	0.37		ug/m3	1	10/17/2014 6:36:00 PM
m&p-Xylene	1.3	1.3	J	ug/m3	1	10/17/2014 6:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 6:36:00 PM
Methyl Ethyl Ketone	1.1	0.98		ug/m3	1	10/17/2014 6:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 6:36:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 6:36:00 PM
Methylene chloride	0.45	0.52	J	ug/m3	1	10/17/2014 6:36:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	10/17/2014 6:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 6:36:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 6:36:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 6:36:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 6:36:00 PM
Toluene	0.87	0.57		ug/m3	1	10/17/2014 6:36:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 6:36:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 6:36:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 6:36:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 6:36:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 6:36:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 6:36:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Data File : C:\HPCHEM\1\DATA\AL101712.D
 Acq On : 17 Oct 2014 6:36 pm
 Sample : C1410057 005A
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 21:57:14 2014

Vial: 25
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UC RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	30085	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.72	114	115607	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	104055	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	62969	0.85	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	85.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.68	85	82235	0.56	ppb	99
5) Chloromethane	4.91	50	20065	0.57	ppb	84
15) Freon 11	6.44	101	45860	0.33	ppb	99
16) Acetone	6.69	58	75207	7.53	ppb	# 44
18) Isopropyl alcohol	6.84	45	29065m	0.85	ppb	
22) Methylene chloride	7.75	84	3366	0.13	ppb	91
29) Methyl Ethyl Ketone	9.71	72	5261	0.38	ppb	# 37
39) Carbon tetrachloride	12.11	117	11172	0.10	ppb	97
40) Benzene	12.08	78	14612	0.13	ppb	89
52) Toluene	15.27	92	16740	0.23	ppb	99
61) m&p xylene	17.56	91	35067	0.29	ppb	96
65) o-xylene	18.03	91	19742	0.13	ppb	92
72) 1,3,5-trimethylbenzene	19.30	105	20743m	0.12	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	18082	0.15	ppb	98

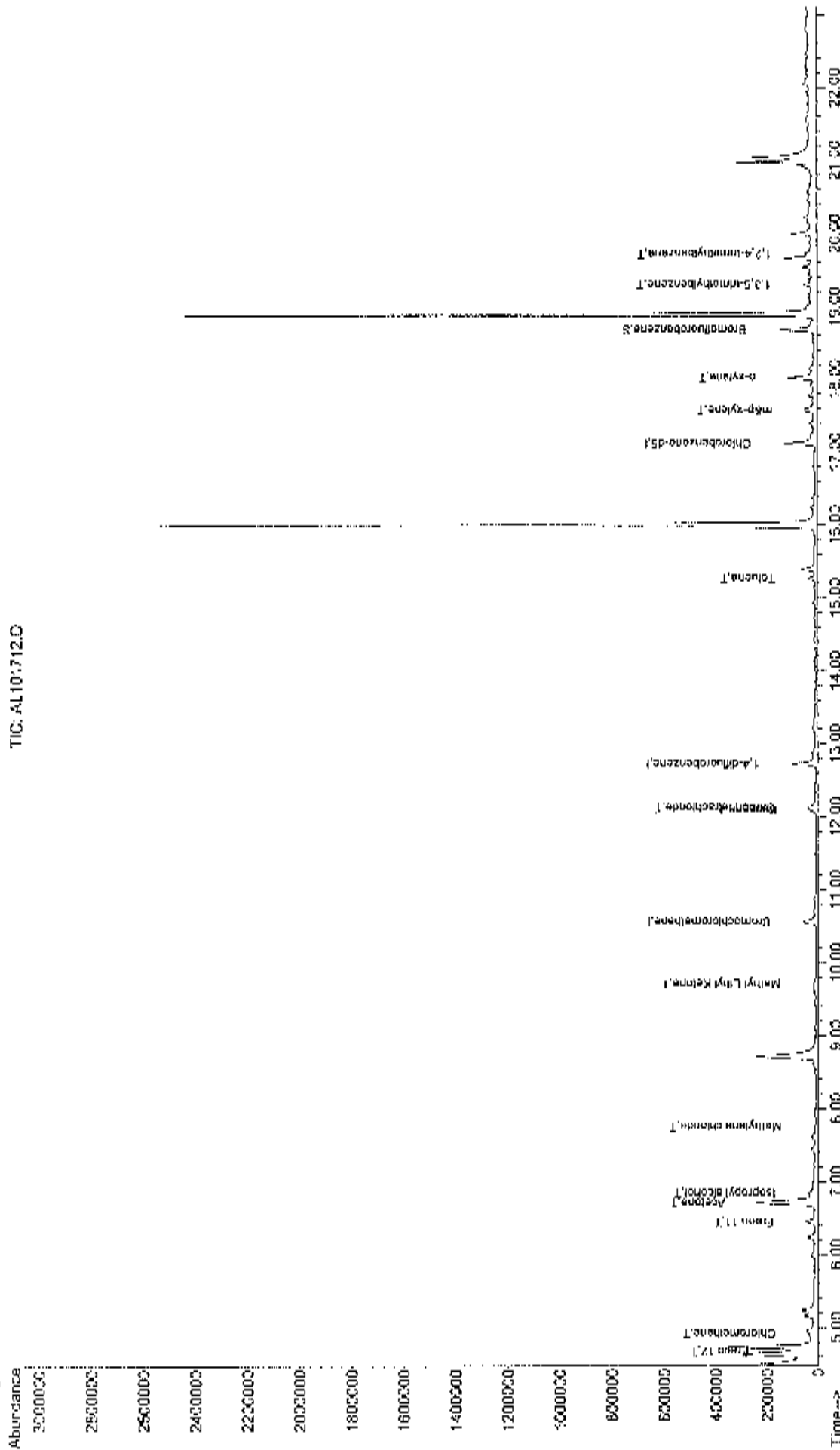
Quantification Report VQT Reviewed

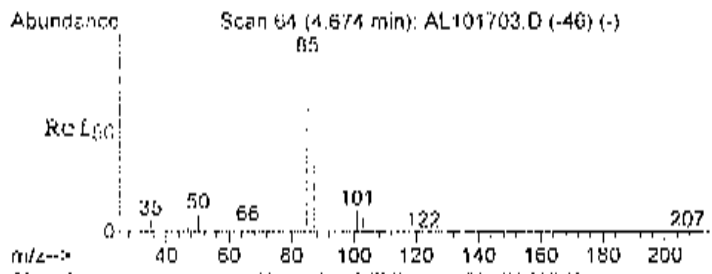
Data File : C:\HPCHEM\1\DATA\AL101712.D
 Acq On : 17 Oct 2014 6:36 pm
 Sample : C1410057-005A
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 31 14:01 2014

Vial: 25
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

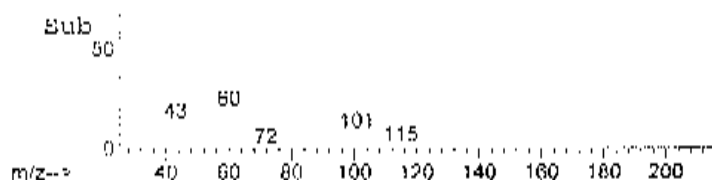
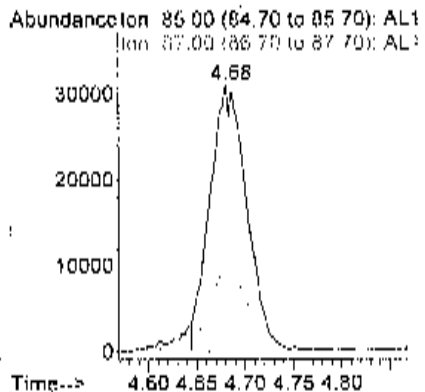
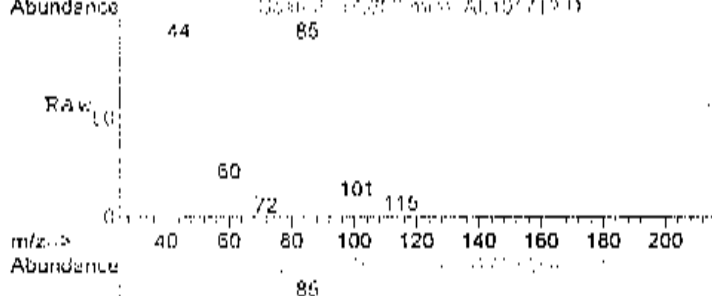
Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:29 2014
 Response via : Initial Calibration





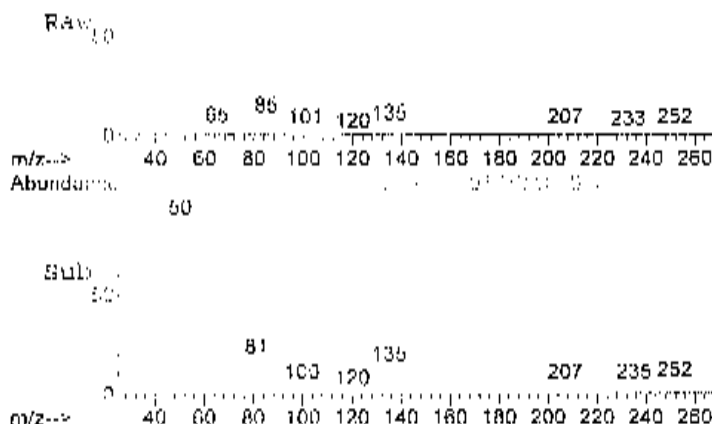
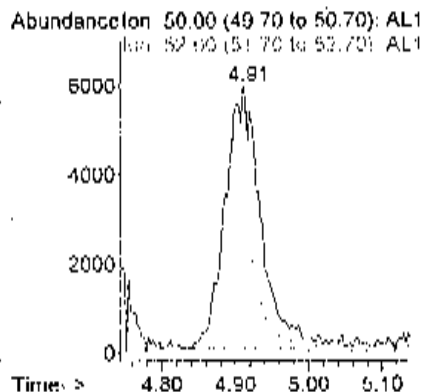
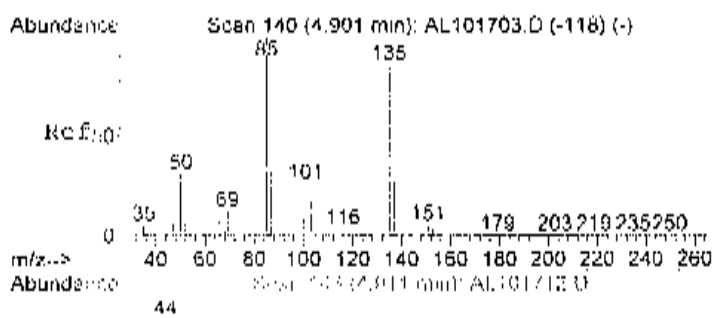
#4
 Freon 12
 Concen: 0.56 ppb
 RT: 4.68 min Scan# 66
 Delta R.T. 0.01 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

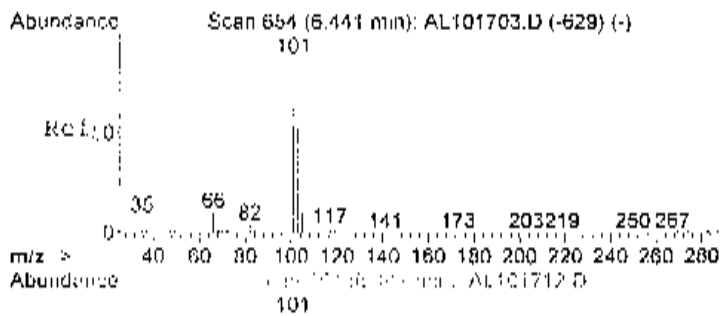
Tgt Ion	Resp	Lower	Upper
85	100		
87	32.8	12.1	52.1



#5
 Chloromethane
 Concen: 0.57 ppb
 RT: 4.91 min Scan# 143
 Delta R.T. 0.02 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

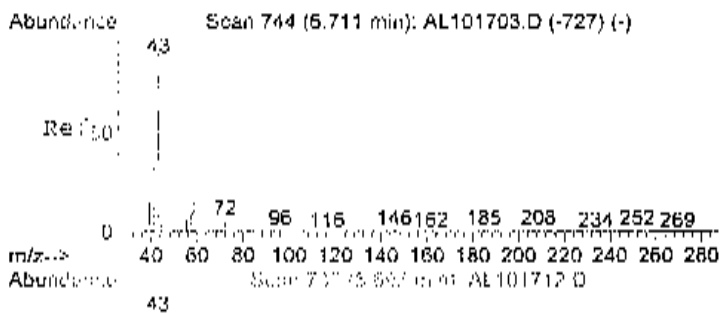
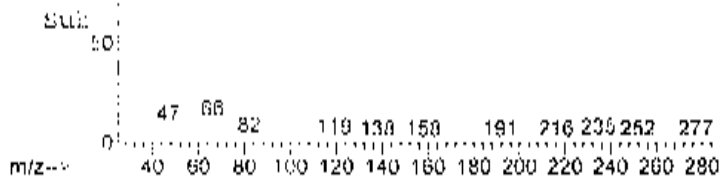
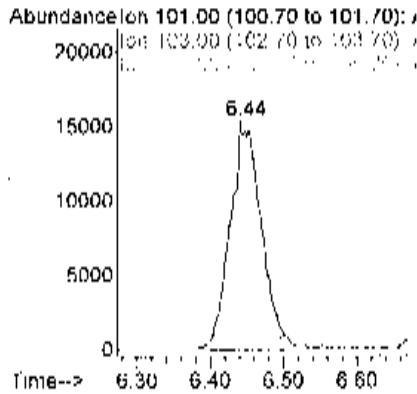
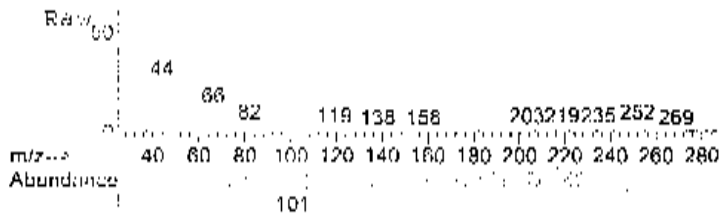
Tgt Ion	Resp	Lower	Upper
50	100		
52	35.7	7.4	47.4





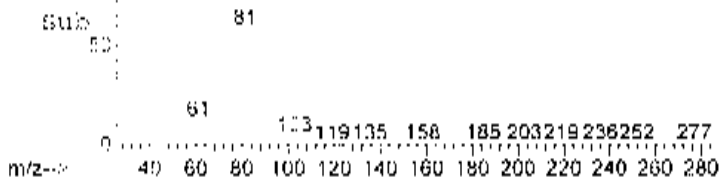
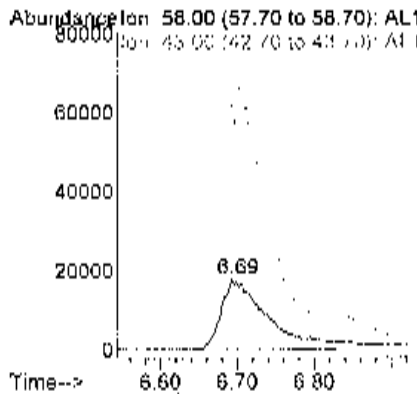
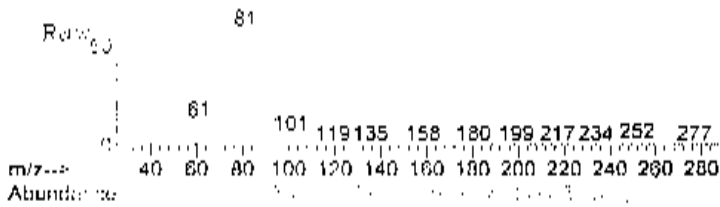
#15
 Freon 11
 Concen: 0.33 ppb
 RT: 6.44 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

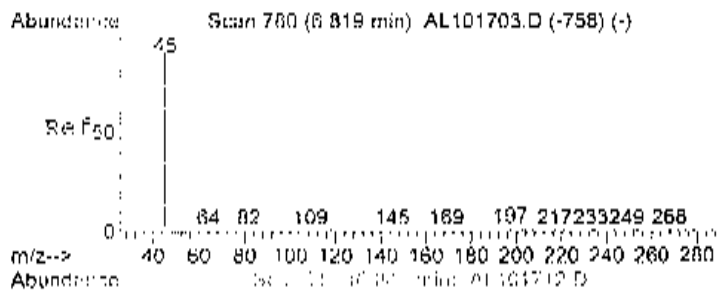
Tgt Ion	Resp	Lower	Upper
101	45860		
103	66.4	45.8	85.8
105	12.0	0.0	31.2



#16
 Acetone
 Concen: 7.53 ppb
 RT: 6.69 min Scan# 738
 Delta R.T. 0.02 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

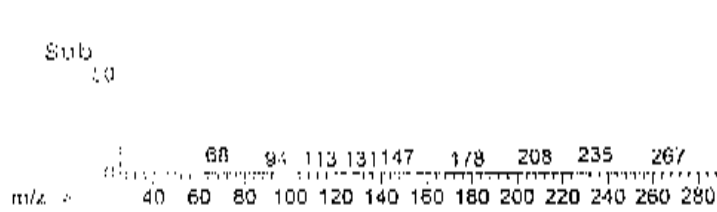
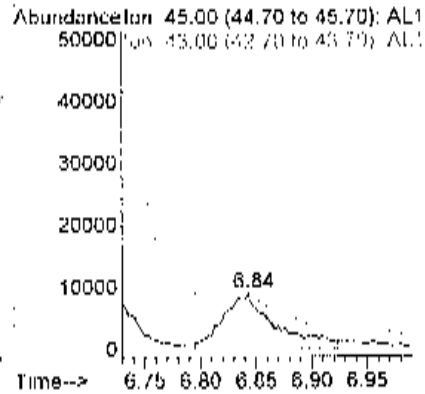
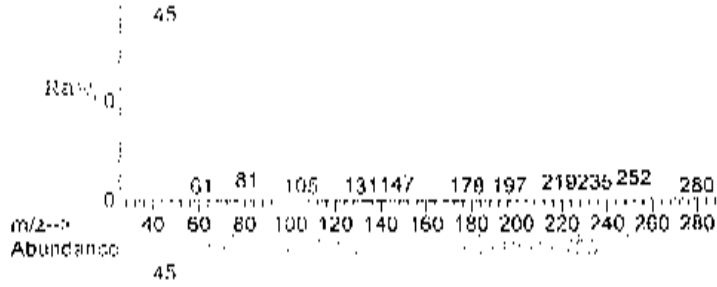
Tgt Ion	Resp	Lower	Upper
58	75207		
43	380.1	514.7	574.7#





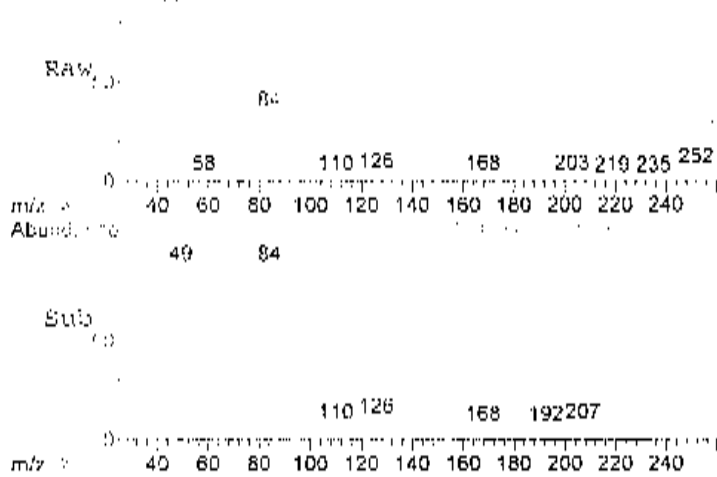
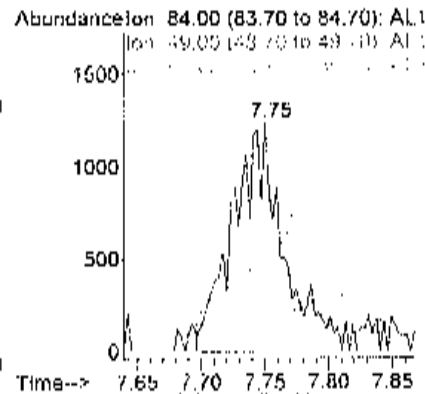
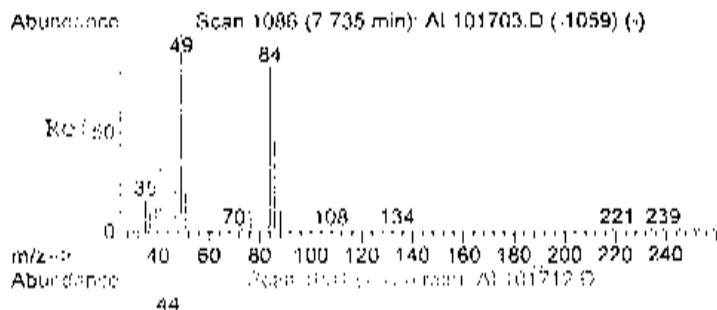
#18
Isopropyl alcohol
Concen: 0.85 ppb m
RT: 6.84 min Scan# 788
Delta R.T. 0.05 min
Lab File: AL101712.D
Acq: 17 Oct 2014 6:36 pm

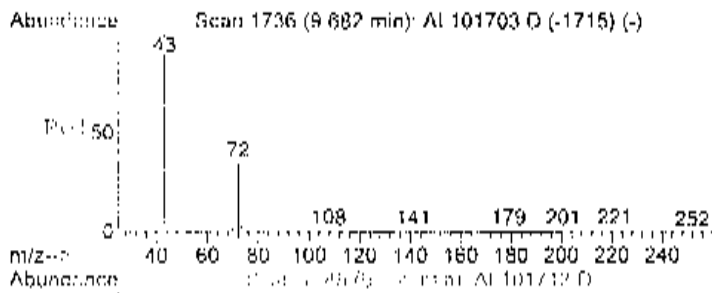
Tgt Ion	Resp	Lower	Upper
45	100		
43	0.0	0.0	20.0



#22
Methylene chloride
Concen: 0.13 ppb
RT: 7.75 min Scan# 1091
Delta R.T. 0.03 min
Lab File: AL101712.D
Acq: 17 Oct 2014 6:36 pm

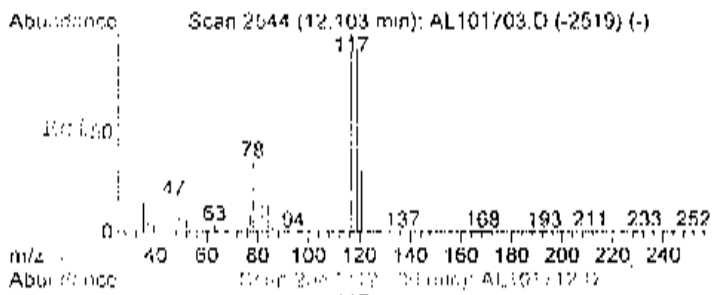
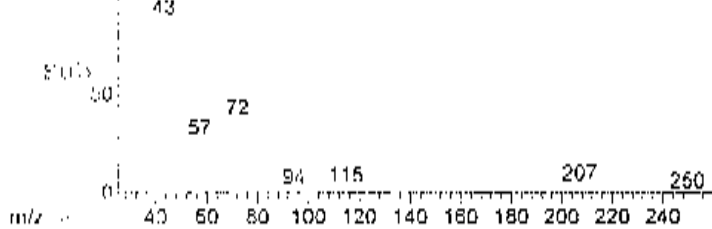
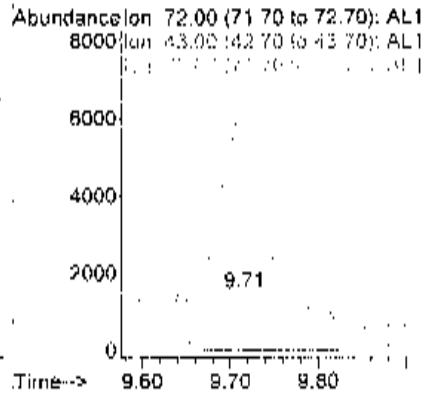
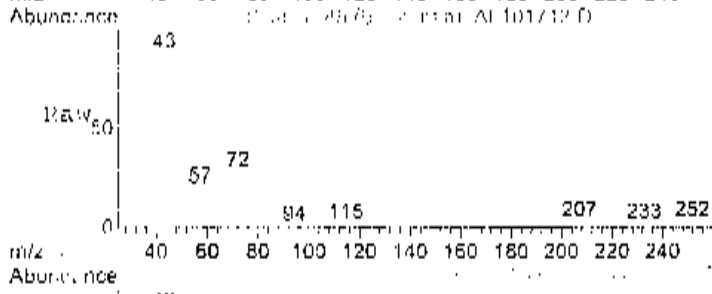
Tgt Ion	Resp	Lower	Upper
84	100		
49	132.1	118.1	158.1
86	61.7	56.4	96.4





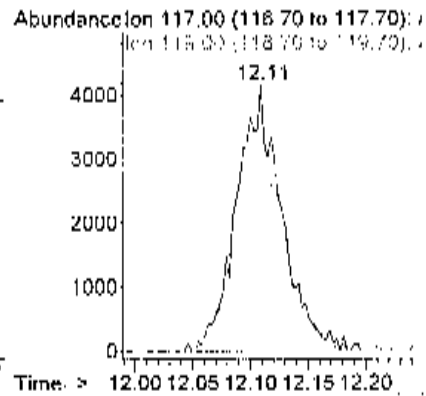
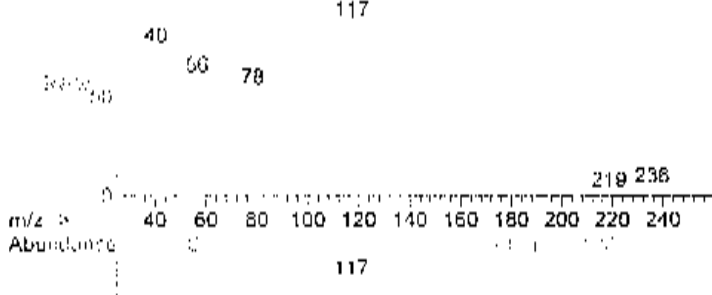
#29
Methyl Ethyl Ketone
Concen: 0.38 ppb
RT: 9.71 min Scan# 1745
Delta R.T. 0.04 min
Lab File: AL101712.D
Acq: 17 Oct 2014 6:36 pm

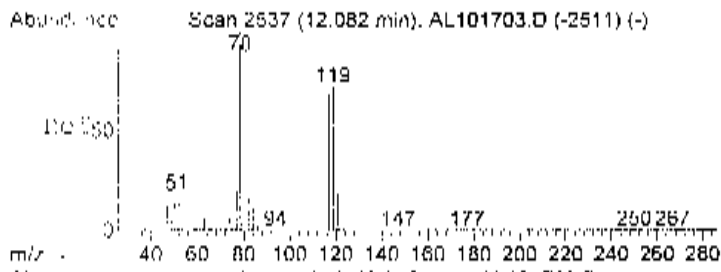
Tgt Ion	Resp	Lower	Upper
72	5261		
72	100		
43	331.6	530.5	570.5#
72	100.0	80.0	120.0



#39
Carbon tetrachloride
Concen: 0.10 ppb
RT: 12.11 min Scan# 2546
Delta R.T. 0.01 min
Lab File: AL101712.D
Acq: 17 Oct 2014 6:36 pm

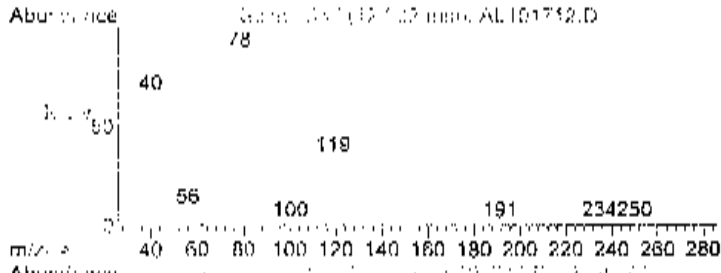
Tgt Ion	Resp	Lower	Upper
117	11172		
117	100		
119	94.2	77.3	117.3



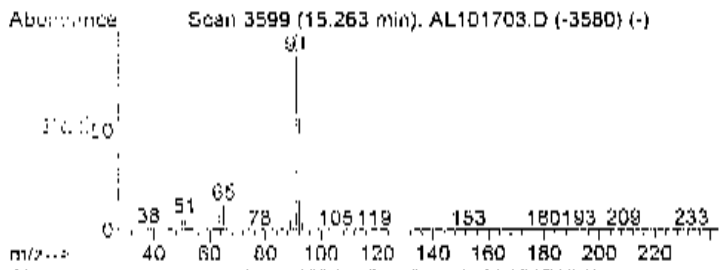
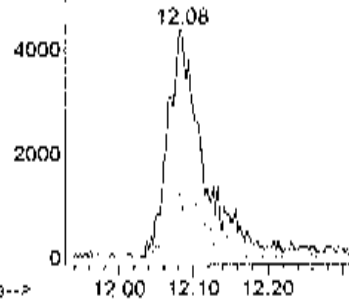


#40
Benzene
Concen: 0.13 ppb
RT: 12.08 min Scan# 2537
Delta R.T. 0.01 min
Lab File: AL101712.D
Acq: 17 Oct 2014 6:36 pm

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.2	3.6	43.6
51	22.2	0.0	36.3

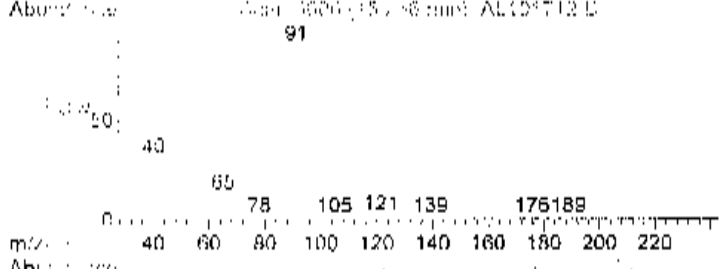


Abundance Ion 78.00 (77.70 to 78.70): AL1
6000 Ion 77.00 (76.70 to 77.70): AL1

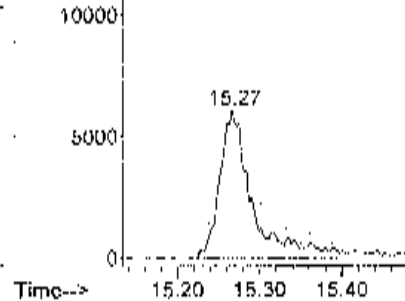


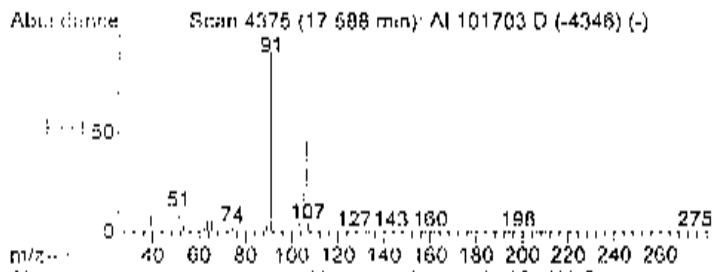
#52
Toluene
Concen: 0.23 ppb
RT: 15.27 min Scan# 3600
Delta R.T. 0.01 min
Lab File: AL101712.D
Acq: 17 Oct 2014 6:36 pm

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.9	154.2	194.2



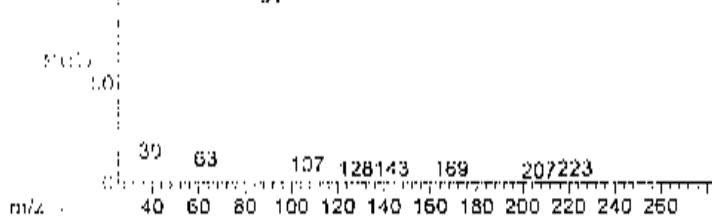
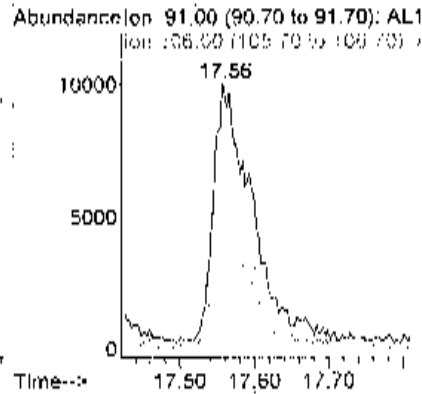
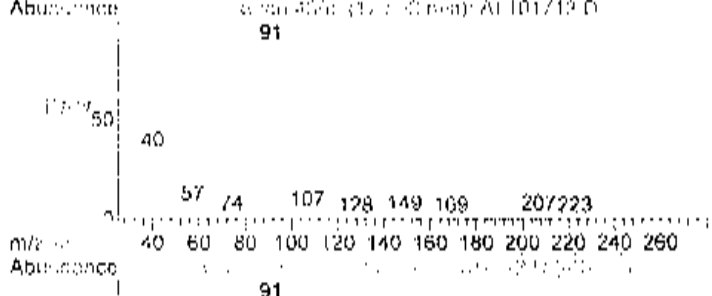
Abundance Ion 92.00 (91.70 to 92.70): AL1
Ion 91.00 (90.70 to 91.70): AL1





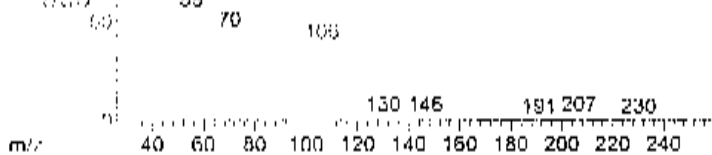
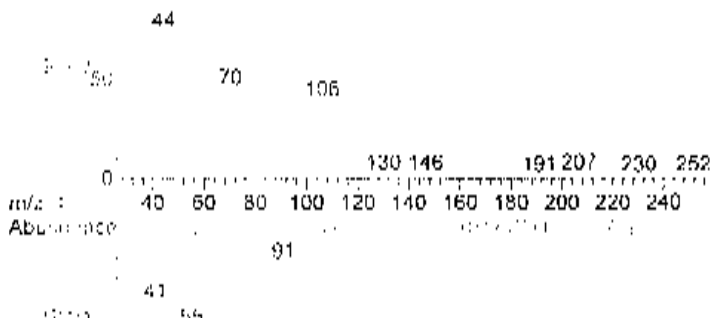
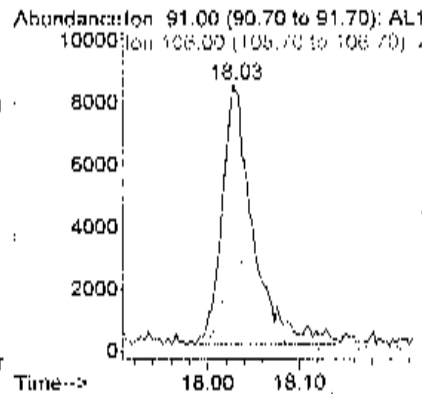
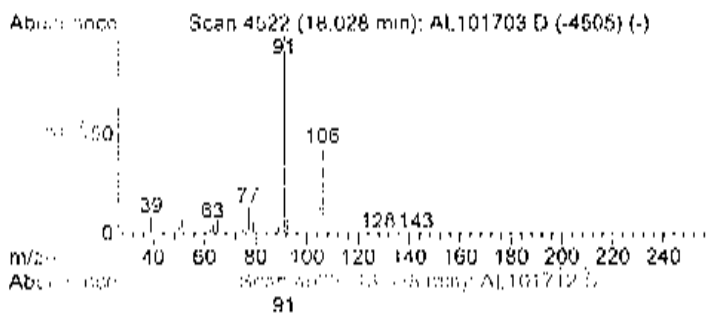
#61
 m&p-xylene
 Concen: 0.29 ppb
 RT: 17.56 min Scan# 4365
 Delta R.T. -0.02 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

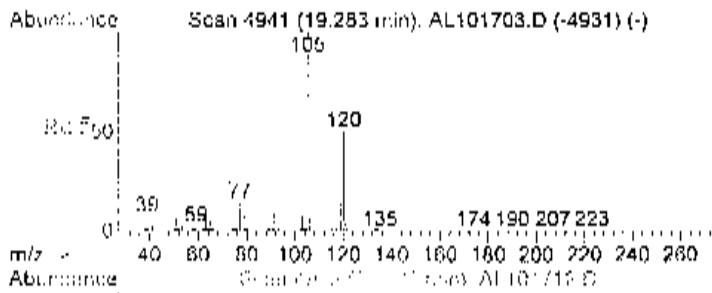
Tgt Ion	Resp	Lower	Upper
91	35067		
106	52.2	29.2	69.2



#65
 o xylene
 Concen: 0.13 ppb
 RT: 18.03 min Scan# 4522
 Delta R.T. 0.00 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

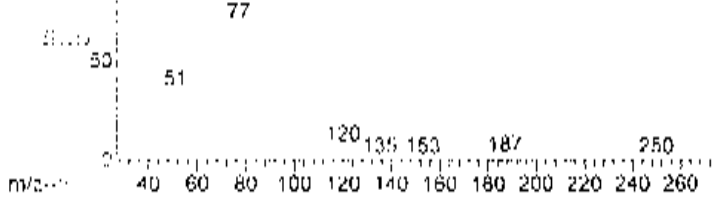
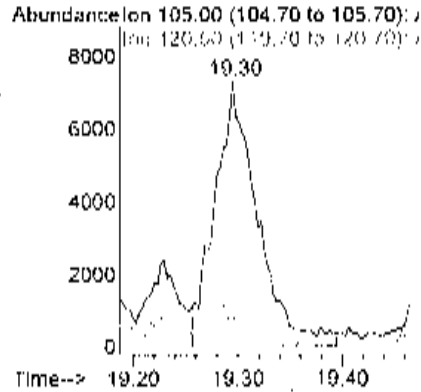
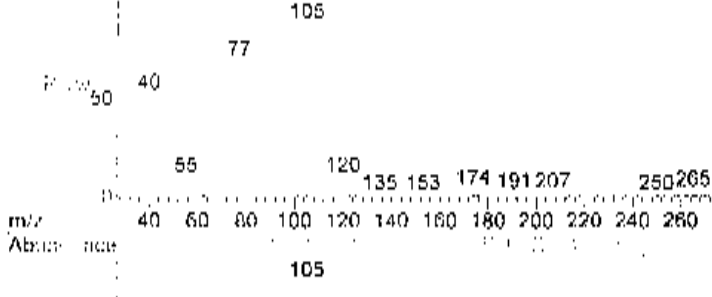
Tgt Ion	Resp	Lower	Upper
91	19742		
106	41.3	26.7	66.7





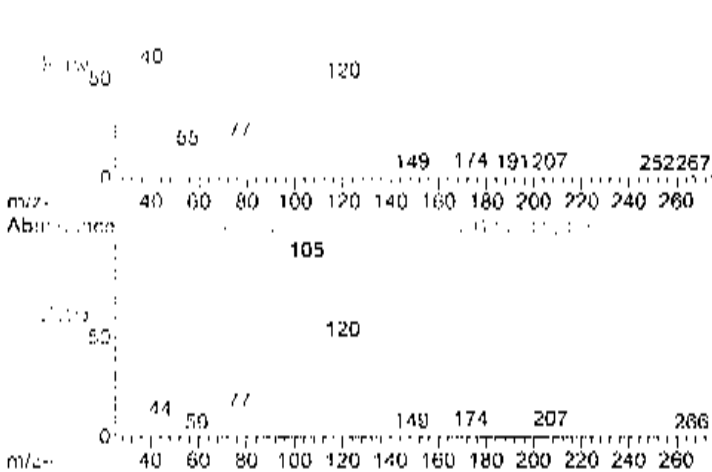
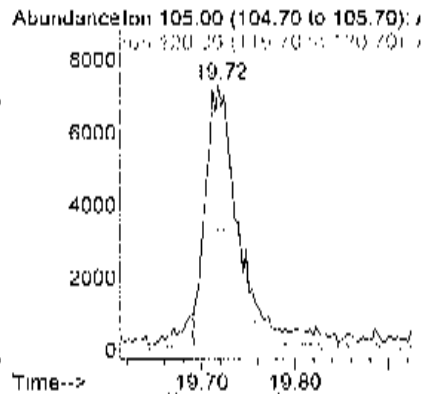
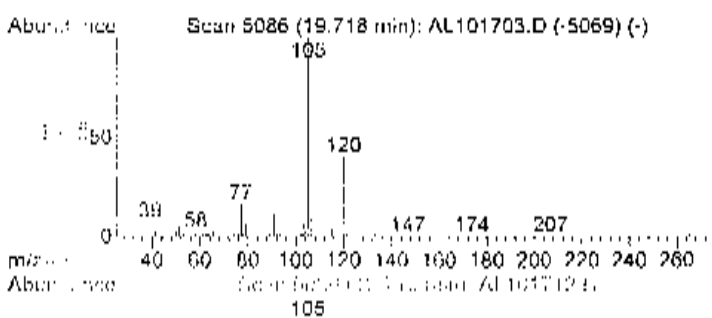
#72
 1,3,5-trimethylbenzene
 Concen: 0.12 ppb m
 RT: 19.30 min Scan# 4945
 Delta R.T. 0.02 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	13.8	0.0	20.0



#73
 1,2,4-trimethylbenzene
 Concen: 0.15 ppb
 RT: 19.72 min Scan# 5086
 Delta R.T. 0.00 min
 Lab File: AL101712.D
 Acq: 17 Oct 2014 6:36 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	44.0	25.3	65.3



Data File : C:\HPCHEM\1\DATA\AL101723.D
 Acq On : 18 Oct 2014 1:32 am
 Sample : C1410057-005A 5X
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:57 2014

Vial: 7
 Operator: RTP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO 15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qlon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	28159	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.73	114	104326	1.00	ppb	0.01
51) Chlorobenzene-d5	17.13	117	78854	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 41739 0.75 ppb 0.01
 Spiked Amount 1.000 Range 70 - 130 Recovery = 75.00%

Target Compounds	R.T.	Q	Response	Conc	Units	Qvalue
16) Acetone	6.70	58	18994	2.03	ppb	# 16

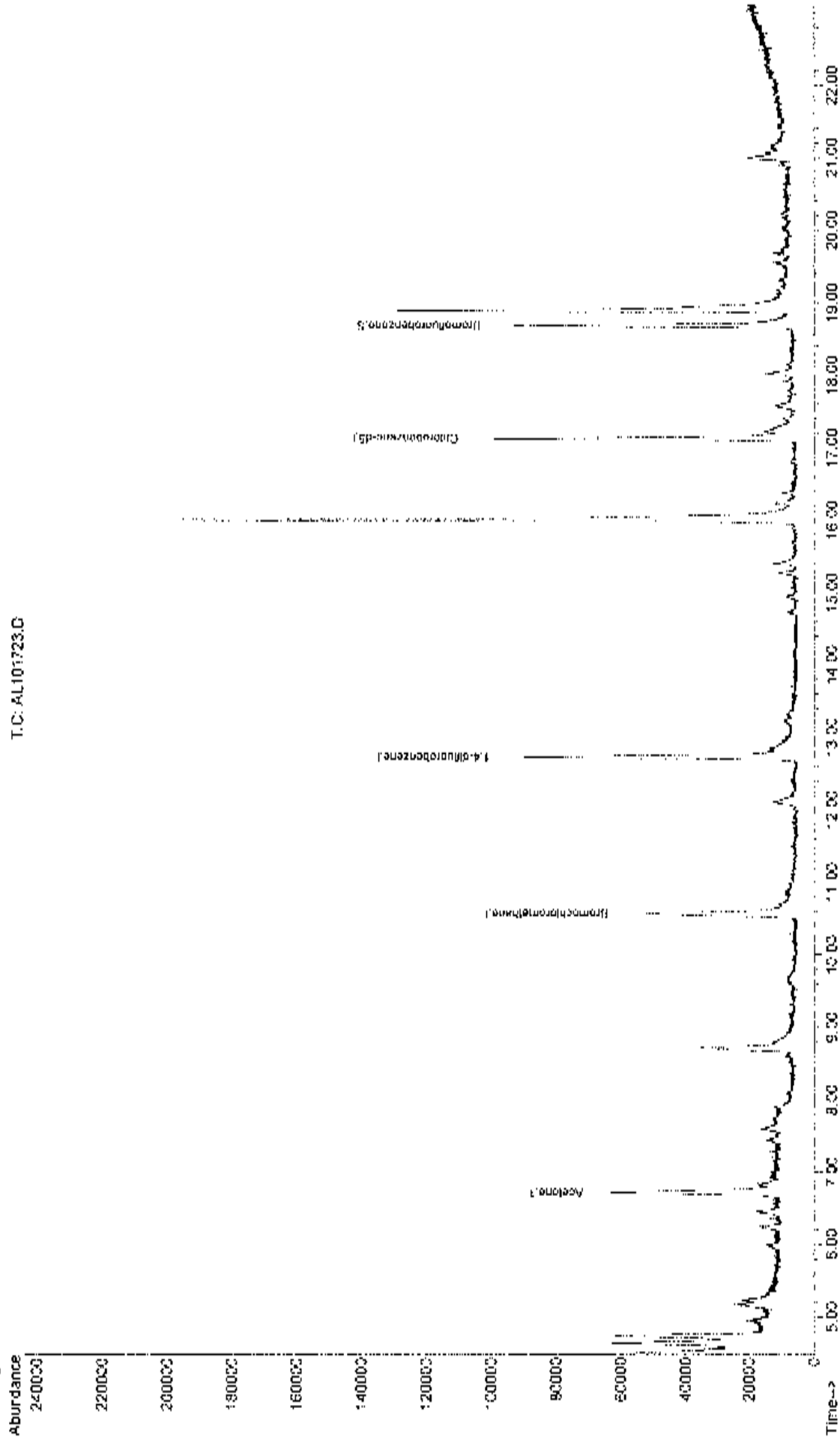
Data File : C:\EPCHEM\1\DATA\AL101723.D
Acq On : 18 Oct 2014 1:32 am
Sample : C1410057-005A 5X
Misc : A910_1UG
MS Integration Params: RTEINT.F
Quant Time: Oct 20 14:14 2014

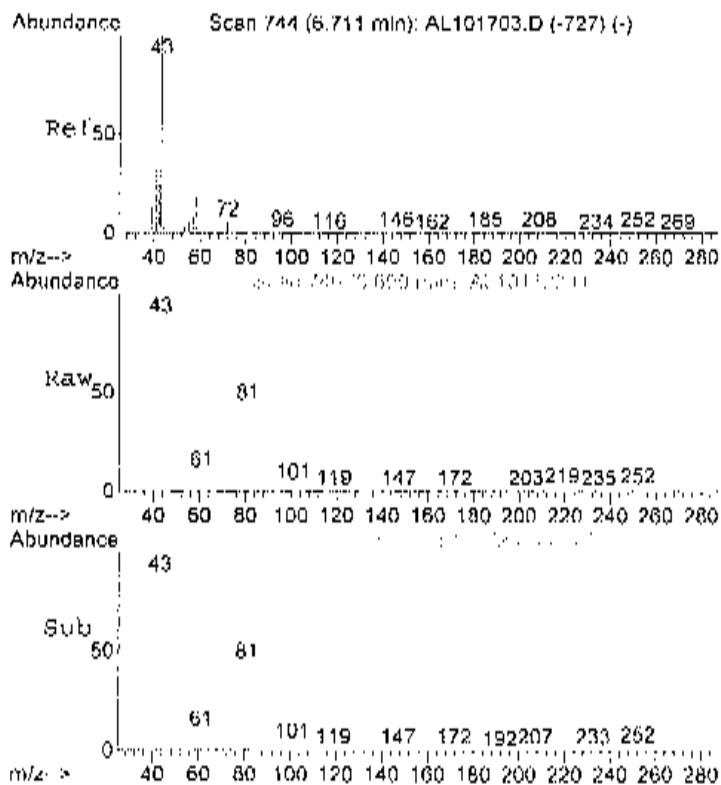
Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\EPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
Title : TO-15 VOR Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

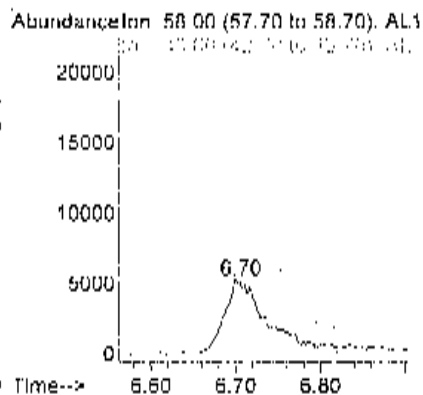
TIC: AL101723.D





#16
 Acetone
 Concen: 2.03 ppb
 RT: 6.70 min Scan# 740
 Delta R.T. 0.02 min
 Lab File: AL101723.D
 Acq: 18 Oct 2014 1:32 am

Tgt Ion	58	Rcsp	18994
Ion	Ratio	Lower	Upper
58	100		
43	387.3	514.7	574.74



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-006A

Client Sample ID: SS-01
Tag Number: 1186,405
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-7			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
				FLD		Analyst:
1,1,1-Trichloroethane	0.10	0.15	J	ppbV	1	10/21/2014 4:50:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2,4-Trimethylbenzene	0.92	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,3,5-Trimethylbenzene	0.40	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,4-Dichlorobenzene	0.16	0.15		ppbV	1	10/21/2014 4:50:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2014 4:50:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
4-ethyltoluene	0.21	0.15		ppbV	1	10/21/2014 4:50:00 AM
Acetone	280	190		ppbV	640	10/22/2014 1:29:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Benzene	0.87	0.15		ppbV	1	10/21/2014 4:50:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Carbon disulfide	3.5	1.5		ppbV	10	10/21/2014 7:48:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chloroform	0.45	0.15		ppbV	1	10/21/2014 4:50:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Cyclohexane	1.1	0.15		ppbV	1	10/21/2014 4:50:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-006A

Client Sample ID: SS-01
 Tag Number: 1186,405
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	0.88	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 11	0.33	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Freon 12	0.69	0.15		ppbV	1	10/21/2014 4:50:00 AM
Heptane	2.1	1.5		ppbV	10	10/21/2014 7:48:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Hexane	4.0	1.5		ppbV	10	10/21/2014 7:48:00 AM
Isopropyl alcohol	4.7	1.5		ppbV	10	10/21/2014 7:48:00 AM
m&p-Xylene	3.0	0.30		ppbV	1	10/21/2014 4:50:00 AM
Methyl Butyl Ketone	0.42	0.30		ppbV	1	10/21/2014 4:50:00 AM
Methyl Ethyl Ketone	2.8	3.0	J	ppbV	10	10/21/2014 7:48:00 AM
Methyl Isobutyl Ketone	0.60	0.30		ppbV	1	10/21/2014 4:50:00 AM
Methyl tert-butyl ether	1.4	0.15		ppbV	1	10/21/2014 4:50:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
o-Xylene	0.66	0.15		ppbV	1	10/21/2014 4:50:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Styrene	0.33	0.15		ppbV	1	10/21/2014 4:50:00 AM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	10/21/2014 4:50:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Toluene	2.8	1.5		ppbV	10	10/21/2014 7:48:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Trichloroethene	0.17	0.15		ppbV	1	10/21/2014 4:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2014 4:50:00 AM
Surr: Bromofluorobenzene	107	70-130		%REC	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 R Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: CI410057
 Project: 5140 Site Yorkville, NY
 Lab ID: CI410057-006A

Client Sample ID: SS-01
 Tag Number: 1186,405
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.55	0.82	J	ug/m3	1	10/21/2014 4:50:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:50:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/21/2014 4:50:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:50:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:50:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2014 4:50:00 AM
1,2,4-Trimethylbenzene	4.5	0.74		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/21/2014 4:50:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/21/2014 4:50:00 AM
1,3,5-Trimethylbenzene	2.0	0.74		ug/m3	1	10/21/2014 4:50:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/21/2014 4:50:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/21/2014 4:50:00 AM
1,4-Dichlorobenzene	0.96	0.90		ug/m3	1	10/21/2014 4:50:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2014 4:50:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/21/2014 4:50:00 AM
4-ethyltoluene	1.0	0.74		ug/m3	1	10/21/2014 4:50:00 AM
Acetone	650	450		ug/m3	640	10/22/2014 1:29:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/21/2014 4:50:00 AM
Benzene	2.8	0.48		ug/m3	1	10/21/2014 4:50:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/21/2014 4:50:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2014 4:50:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2014 4:50:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	10/21/2014 4:50:00 AM
Carbon disulfide	11	4.7		ug/m3	10	10/21/2014 7:48:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/21/2014 4:50:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/21/2014 4:50:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2014 4:50:00 AM
Chloroform	2.2	0.73		ug/m3	1	10/21/2014 4:50:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2014 4:50:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:50:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:50:00 AM
Cyclohexane	3.6	0.52		ug/m3	1	10/21/2014 4:50:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2014 4:50:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/21/2014 4:50:00 AM
Ethylbenzene	3.0	0.65		ug/m3	1	10/21/2014 4:50:00 AM
Freon 11	1.9	0.84		ug/m3	1	10/21/2014 4:50:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	10/21/2014 4:50:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-006A

Client Sample ID: SS-01
Tag Number: 1186,405
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Freon 12	3.4	0.74		ug/m3	1	10/21/2014 4:50:00 AM
Heptane	8.6	6.1		ug/m3	10	10/21/2014 7:48:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2014 4:50:00 AM
Hexane	14	5.3		ug/m3	10	10/21/2014 7:48:00 AM
Isopropyl alcohol	12	3.7		ug/m3	10	10/21/2014 7:48:00 AM
m&p-Xylene	13	1.3		ug/m3	1	10/21/2014 4:50:00 AM
Methyl Butyl Ketone	1.7	1.2		ug/m3	1	10/21/2014 4:50:00 AM
Methyl Ethyl Ketone	8.3	8.8	J	ug/m3	10	10/21/2014 7:48:00 AM
Methyl Isobutyl Ketone	2.5	1.2		ug/m3	1	10/21/2014 4:50:00 AM
Methyl tert-butyl ether	4.9	0.54		ug/m3	1	10/21/2014 4:50:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/21/2014 4:50:00 AM
o-Xylene	2.9	0.65		ug/m3	1	10/21/2014 4:50:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2014 4:50:00 AM
Styrene	1.4	0.64		ug/m3	1	10/21/2014 4:50:00 AM
Tetrachloroethylene	0.81	1.0	J	ug/m3	1	10/21/2014 4:50:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/21/2014 4:50:00 AM
Toluene	11	5.7		ug/m3	10	10/21/2014 7:48:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/21/2014 4:50:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/21/2014 4:50:00 AM
Trichloroethene	0.91	0.81		ug/m3	1	10/21/2014 4:50:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/21/2014 4:50:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/21/2014 4:50:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/21/2014 4:50:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 F Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL102032.D
 Acq On : 21 Oct 2014 4:50 am
 Sample : CI410057-006A
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 10:28:26 2014

Vial: 29
 Operator: RJP
 Insl : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	138	56769	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	249938	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	248098	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	187931	1.07	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

						Qvalue
4) Freon 12	4.67	85	192781	0.69	ppb	99
15) Freon 11	6.45	101	88104	0.33	ppb	100
16) Acetone	6.63	58	3806152	202.05	ppb	# 30
18) Isopropyl alcohol	6.77	45	282691	4.38	ppb	# 100
24) Carbon disulfide	7.90	76	684642	3.78	ppb	100
26) methyl tert-butyl ether	8.72	73	240285	1.36	ppb	# 58
29) Methyl Ethyl Ketone	9.63	72	121775m ^A	4.61	ppb	
31) Hexane	9.64	57	518338	4.77	ppb	# 60
33) Chloroform	10.69	83	95209	0.45	ppb	98
37) 1,1,1-trichloroethane	11.50	97	21418	0.10	ppb	98
38) Cyclohexane	12.15	56	110054m ^B	1.06	ppb	
40) Benzene	12.08	78	212266	0.87	ppb	92
44) Heptane	13.17	43	285551	2.78	ppb	# 85
45) Trichloroethene	13.32	130	20211	0.17	ppb	97
52) Toluene	15.26	92	587191	3.42	ppb	99
53) Methyl Isobutyl Ketone	14.41	43	78023	0.60	ppb	97
55) Methyl Butyl Ketone	15.66	43	37712	0.42	ppb	83
57) Tetrachloroethylene	16.23	164	18562	0.12	ppb	96
60) Ethylbenzene	17.39	91	245561	0.68	ppb	100
61) m&p-xylene	17.55	91	863614	3.03	ppb	99
63) Styrene	18.00	104	65954	0.33	ppb	77
65) o-xylene	18.03	91	240508	0.66	ppb	100
71) 4-ethyltoluene	19.22	105	71191	0.21	ppb	# 100
72) 1,3,5-trimethylbenzene	19.28	105	163360	0.40	ppb	# 100
73) 1,2,4-trimethylbenzene	19.71	105	274687	0.92	ppb	98
76) 1,4-dichlorobenzene	20.15	146	33550	0.16	ppb	90

Quantitation Report (QT Reviewed)

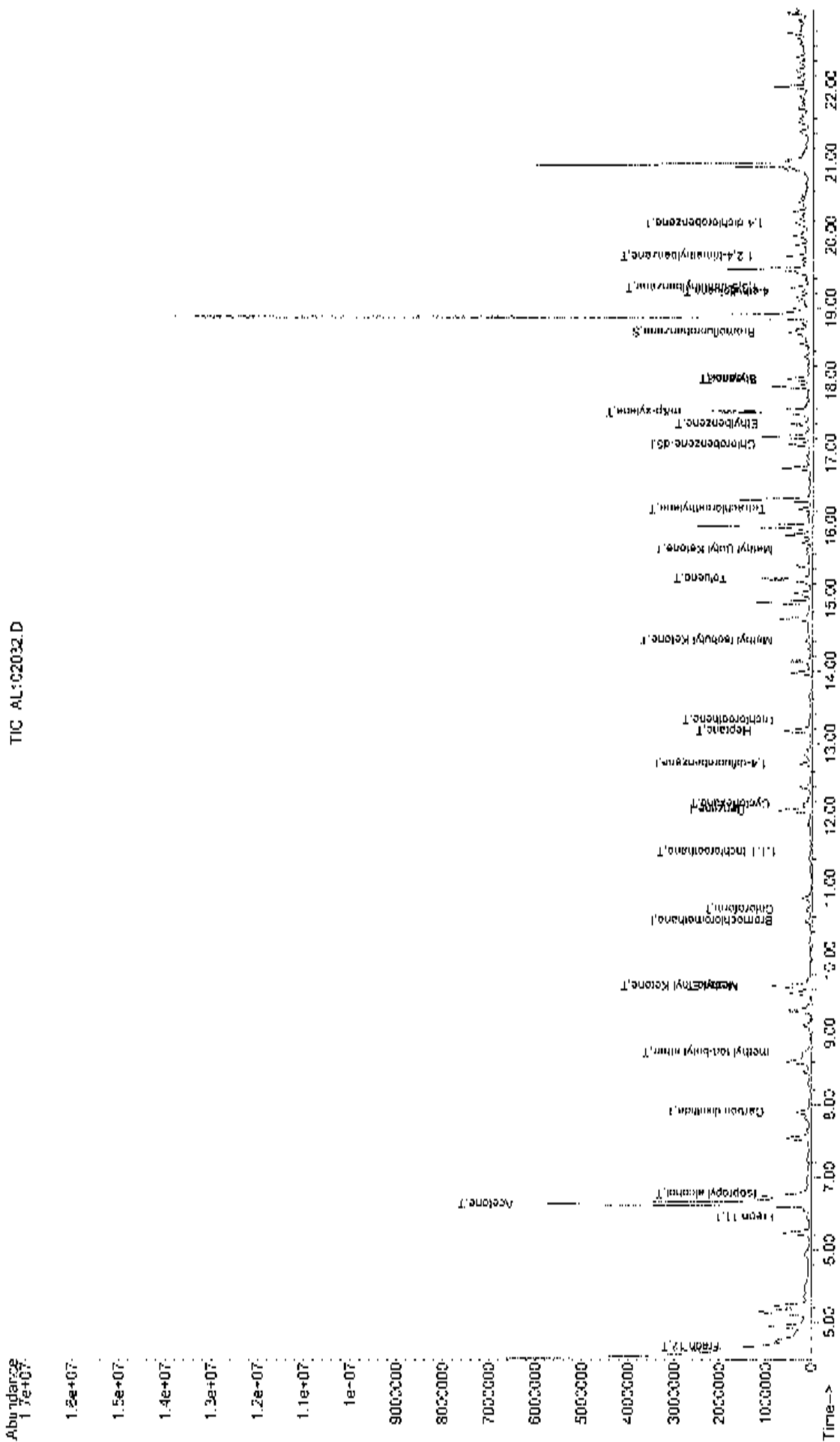
Data File : C:\HPCHEM\1\DATA\AL102032.D
 Acq On : 21 Oct 2014 4:50 am
 Sample : C:\10057-006A
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 10:34 2014

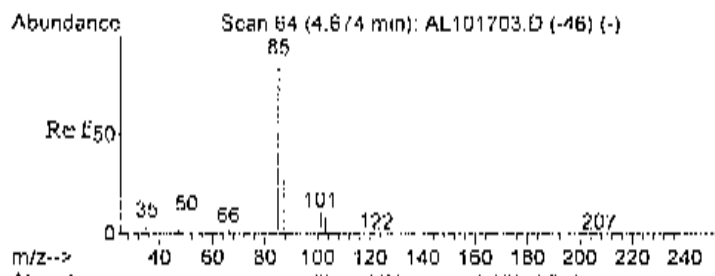
Vial: 29
 Operator: RJF
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : GC-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Initial Calibration

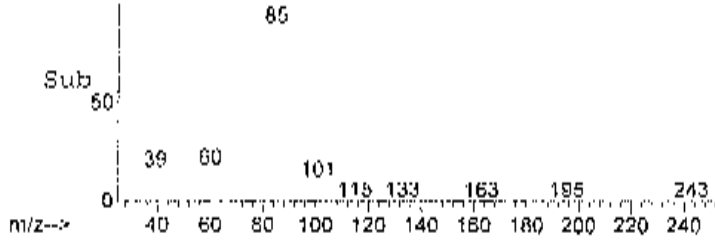
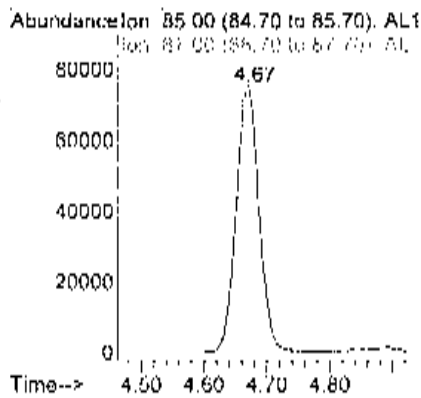
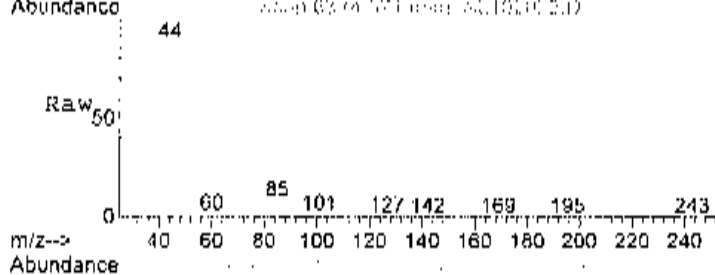
TIC AL102032.D





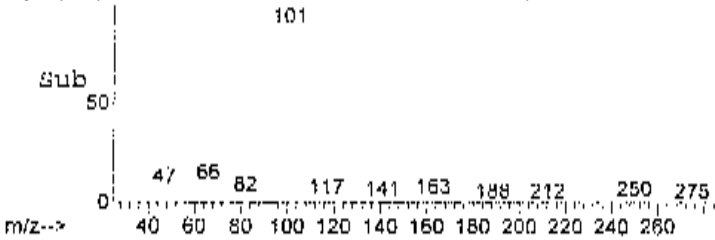
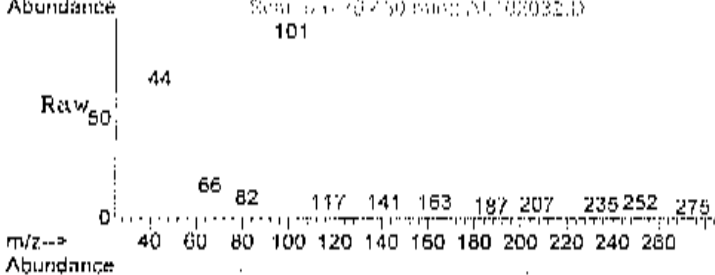
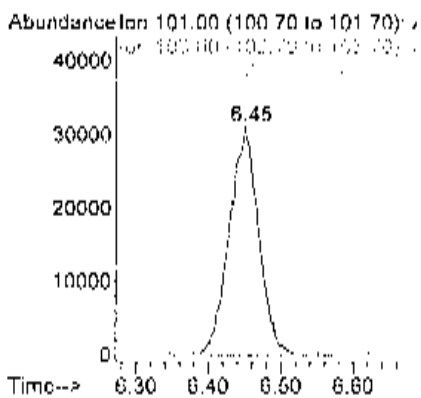
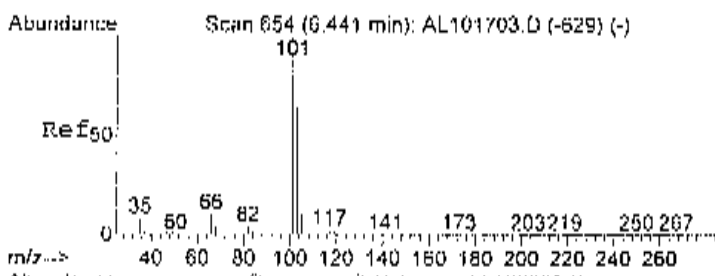
#4
 Freon 12
 Concen: 0.69 ppb
 RT: 4.67 min Scan# 63
 Delta R.T. -0.01 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

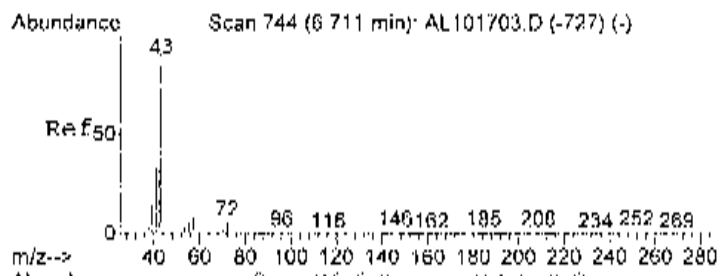
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	12.1	52.1



#15
 Freon 11
 Concen: 0.33 ppb
 RT: 6.45 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

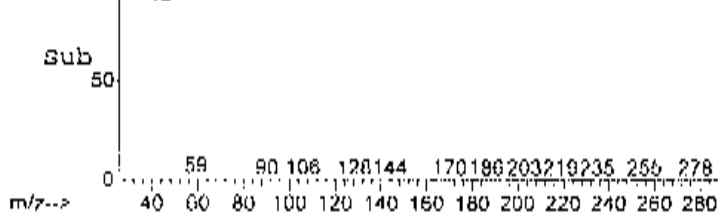
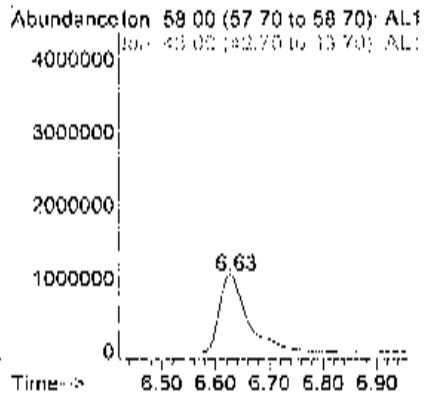
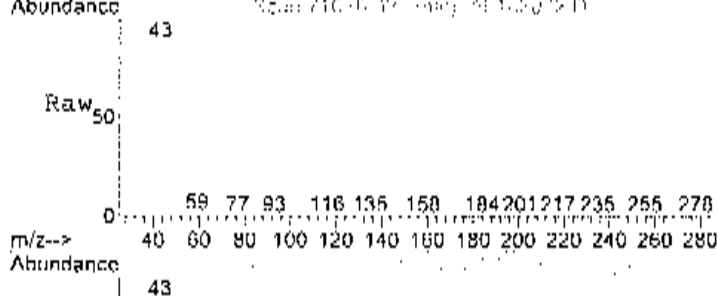
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	45.8	85.8
105	11.2	0.0	31.2





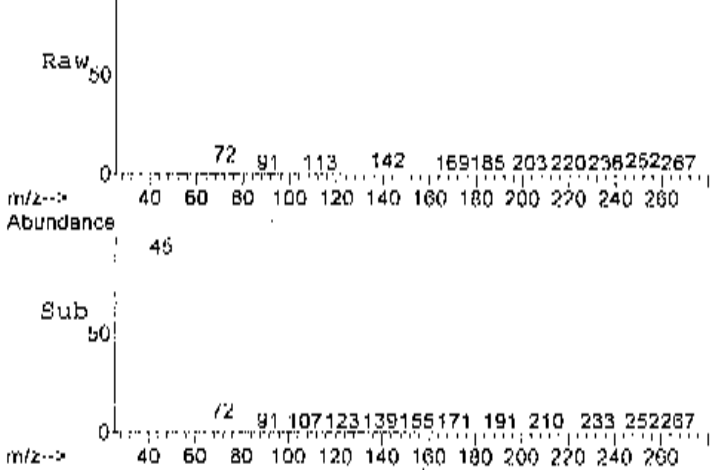
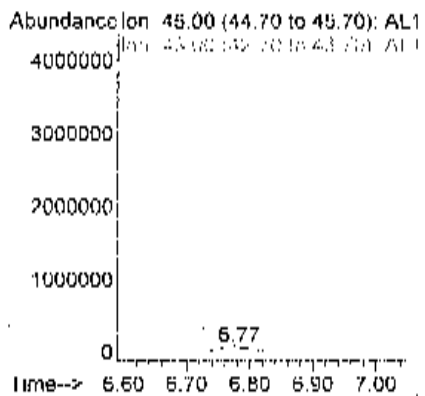
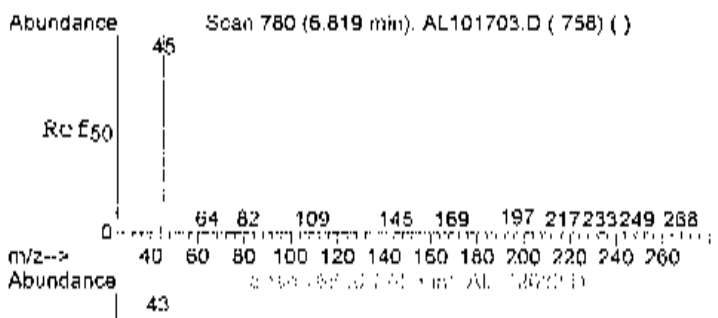
#16
 Acetone
 Concn: 202.05 ppb
 RT: 6.63 min Scan# 716
 Delta R.T. 0.06 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

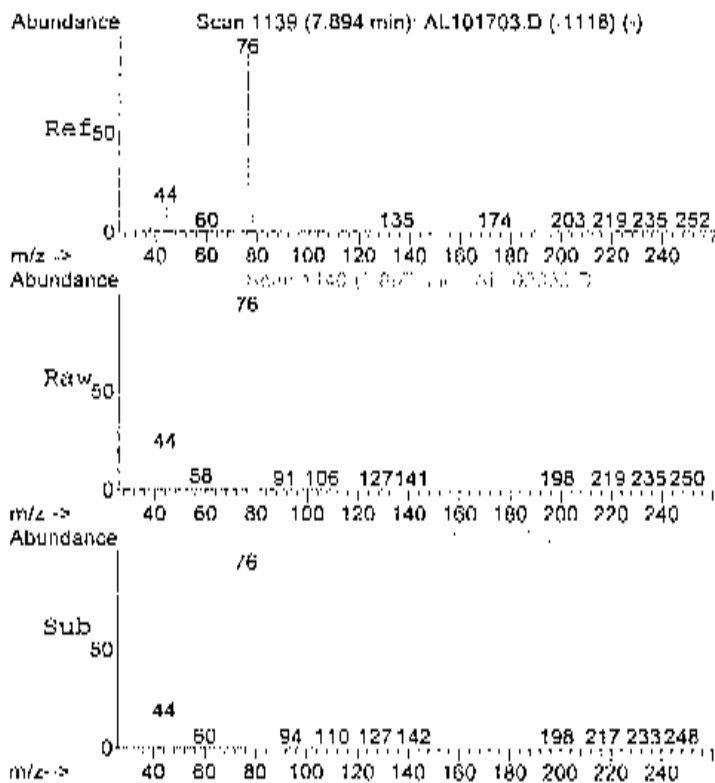
Tgt Ion	Resp	Lower	Upper
58	3806152		
58	100		
43	340.7	514.7	574.7#



#18
 Isopropyl alcohol
 Concn: 4.38 ppb
 RT: 6.77 min Scan# 765
 Delta R.T. -0.03 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

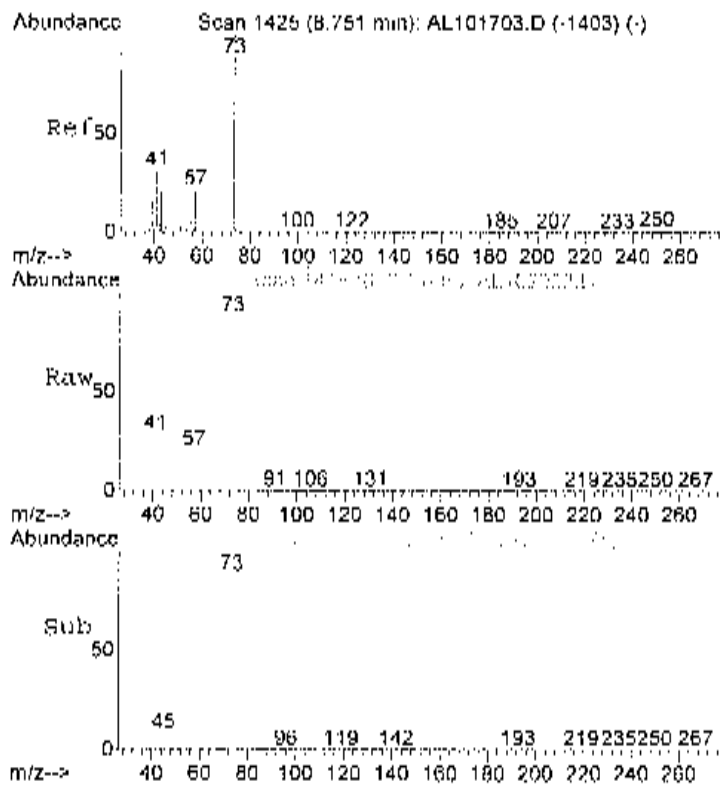
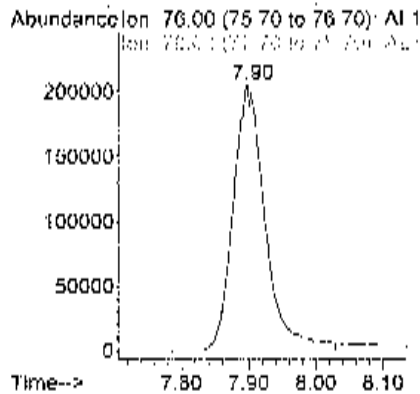
Tgt Ion	Resp	Lower	Upper
45	282691		
45	100		
43	0.0	0.0	20.0





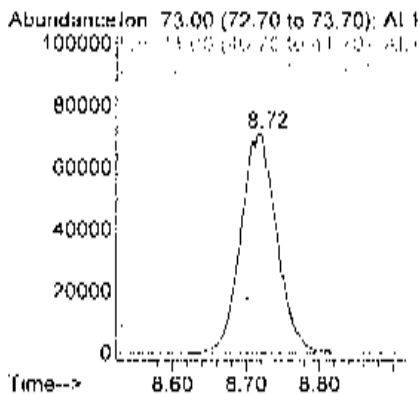
#24
Carbon disulfide
Concn: 3.78 ppb
RT: 7.90 min Scan# 1140
Delta R.T. 0.00 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

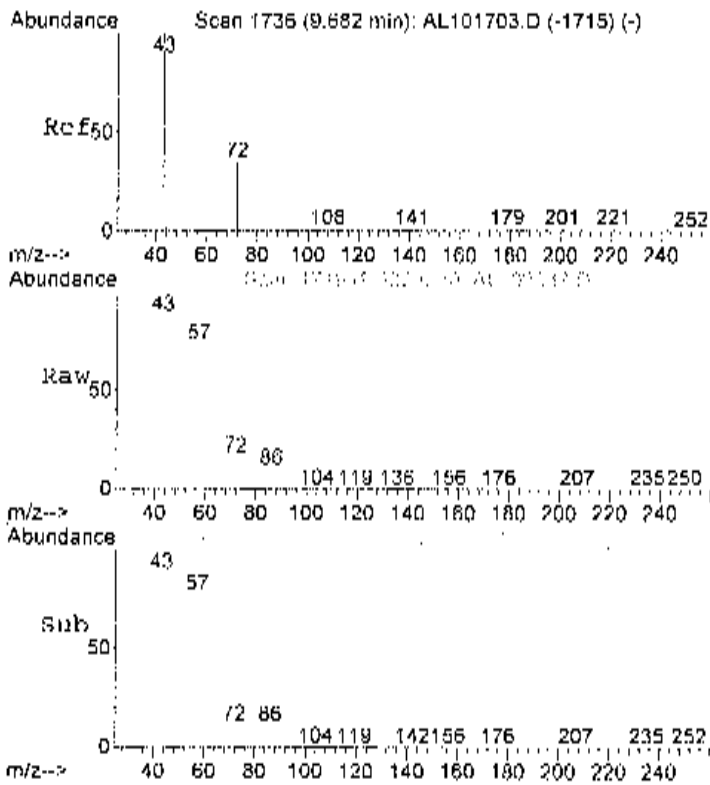
Tgt Ion	Resp	Lower	Upper
76	684642		
76	100		
78	8.9	0.0	29.1



#26
methyl tert-butyl ether
Concn: 1.36 ppb
RT: 8.72 min Scan# 1415
Delta R.T. -0.03 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

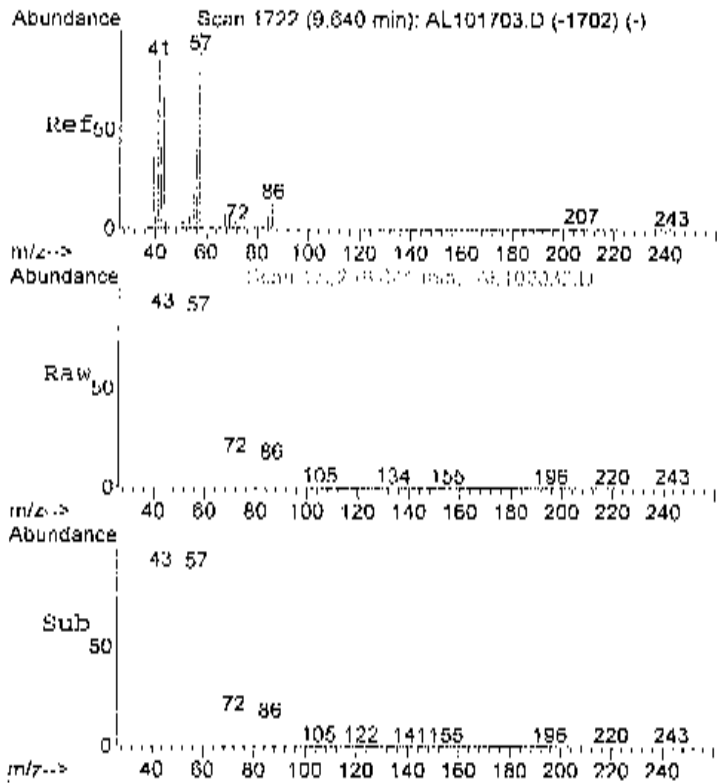
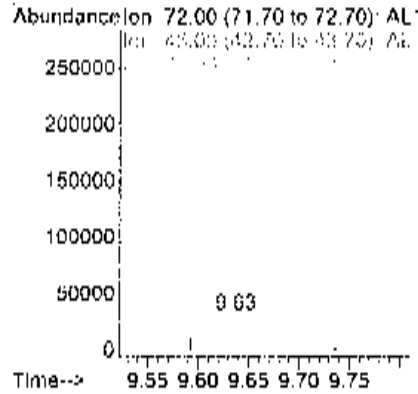
Tgt Ion	Resp	Lower	Upper
73	240285		
73	100		
41	0.0	1.5	41.5#
53	1.3	0.0	21.6





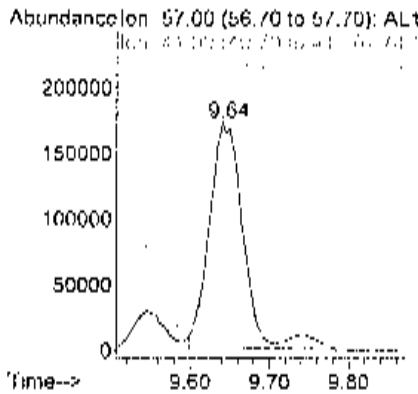
#29
Methyl Ethyl Ketone
Concen: 4.61 ppb
RT: 9.63 min Scan# 1719
Delta R.T. -0.03 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

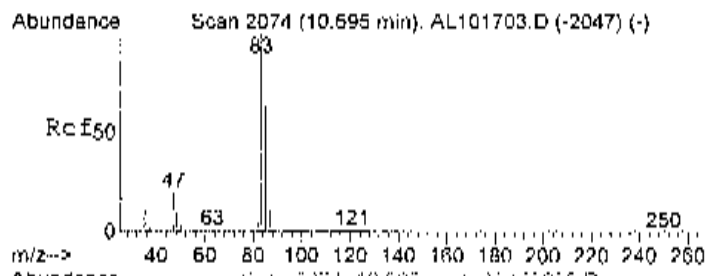
Tgt Ion	Resp	Lower	Upper
72	121775		
72	100		
43	0.0	530.5	570.5#
72	242.6	80.0	120.0#



#31
Hexane
Concen: 4.77 ppb
RT: 9.64 min Scan# 1722
Delta R.T. -0.01 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

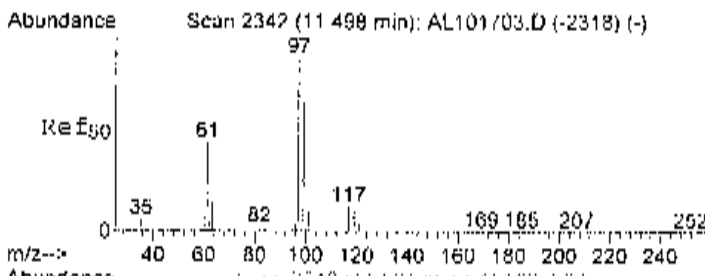
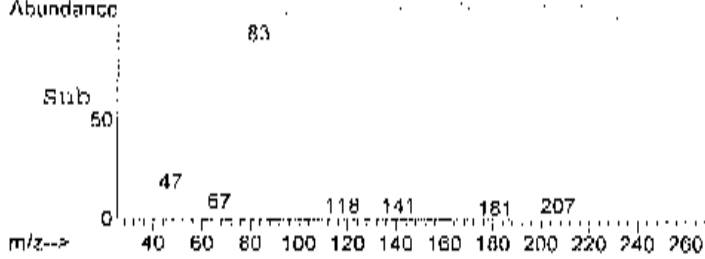
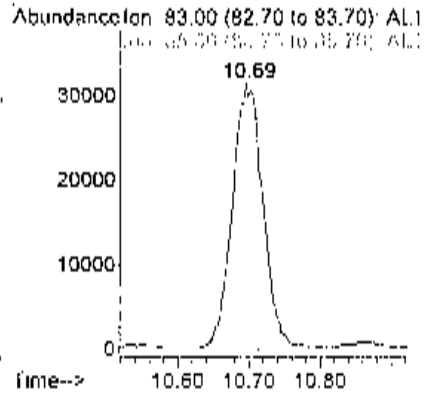
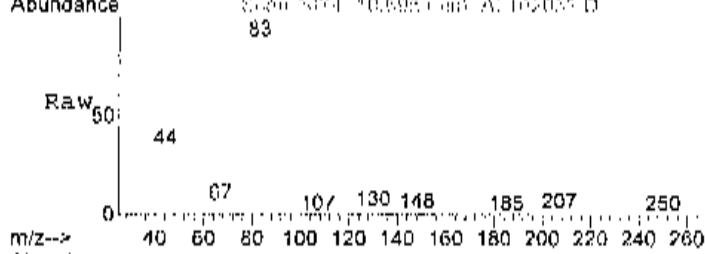
Tgt Ion	Resp	Lower	Upper
57	518338		
57	100		
41	120.8	45.2	85.2#
56	49.0	29.0	69.0





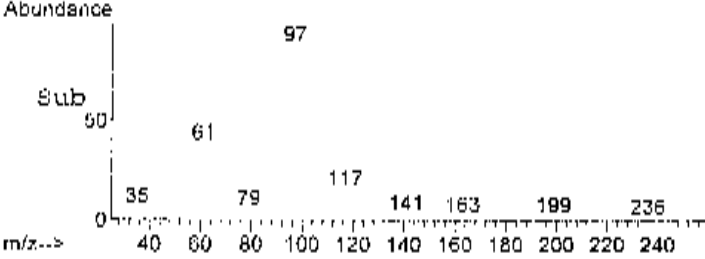
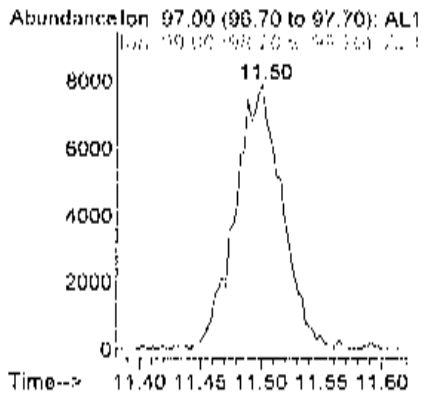
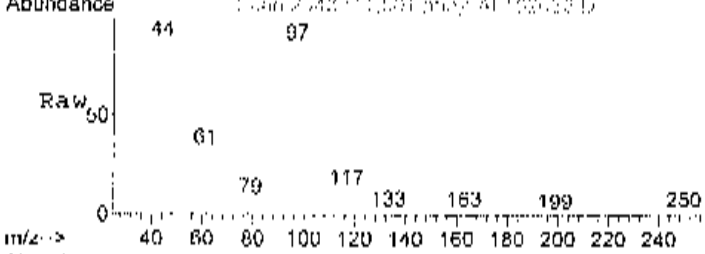
#33
 Chloroform
 Concen: 0.45 ppb
 RT: 10.69 min Scan# 2074
 Delta R.T. 0.01 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

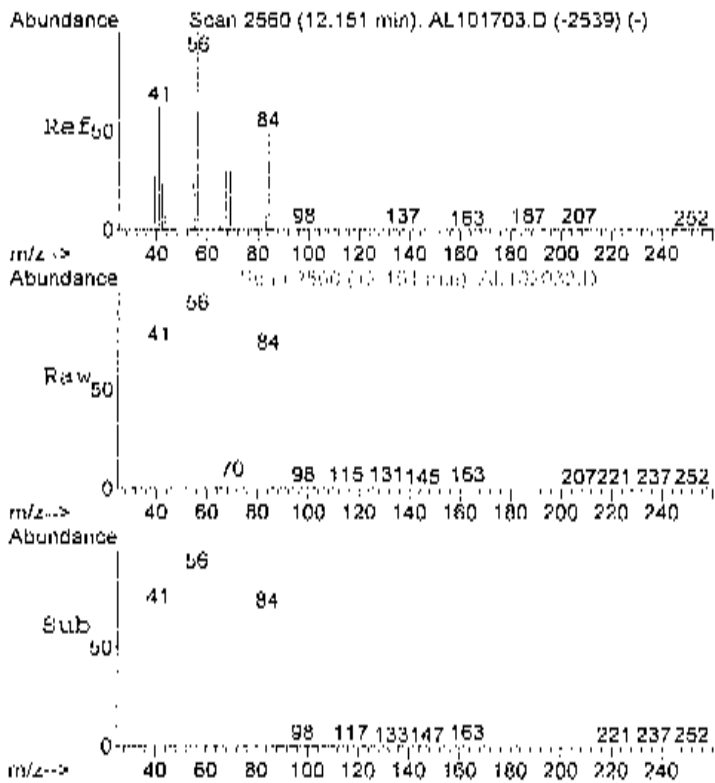
Tgt Ion	Resp	Lower	Upper
83	95209		
85	66.3	44.9	84.9



#37
 1,1,1-trichloroethane
 Concen: 0.10 ppb
 RT: 11.50 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

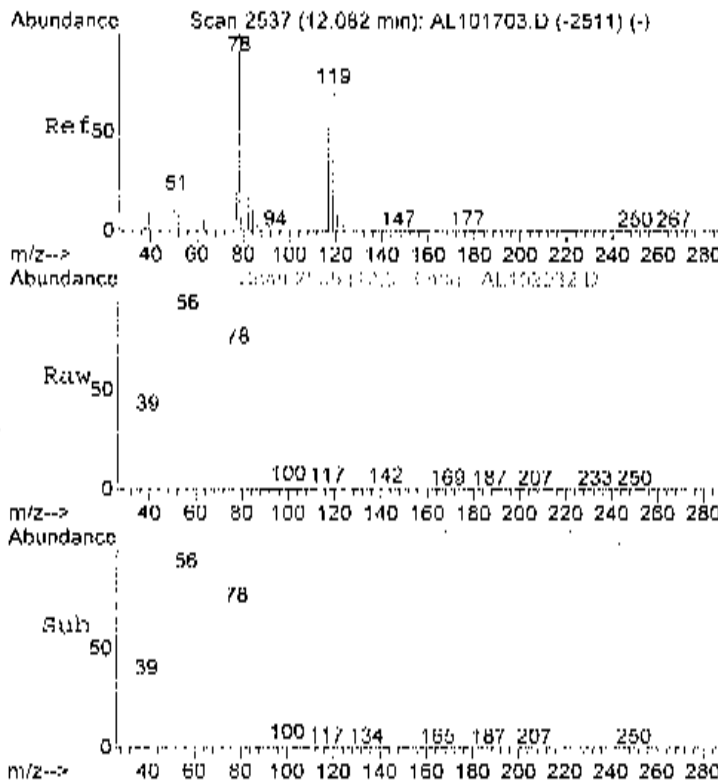
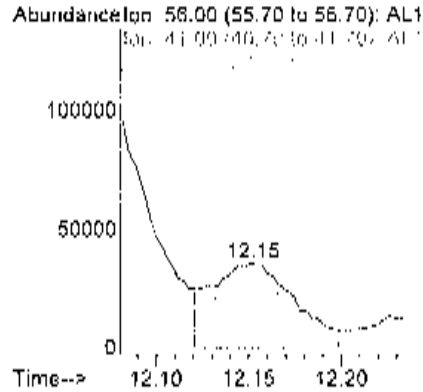
Tgt Ion	Resp	Lower	Upper
97	21418		
99	65.2	43.6	83.6





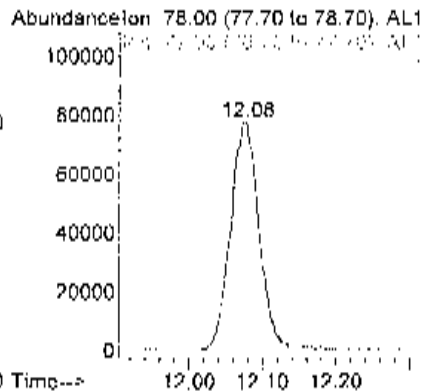
#38
Cyclohexane
Concen: 1.06 ppb m
RT: 12.15 min Scan# 2560
Delta R.T. -0.01 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

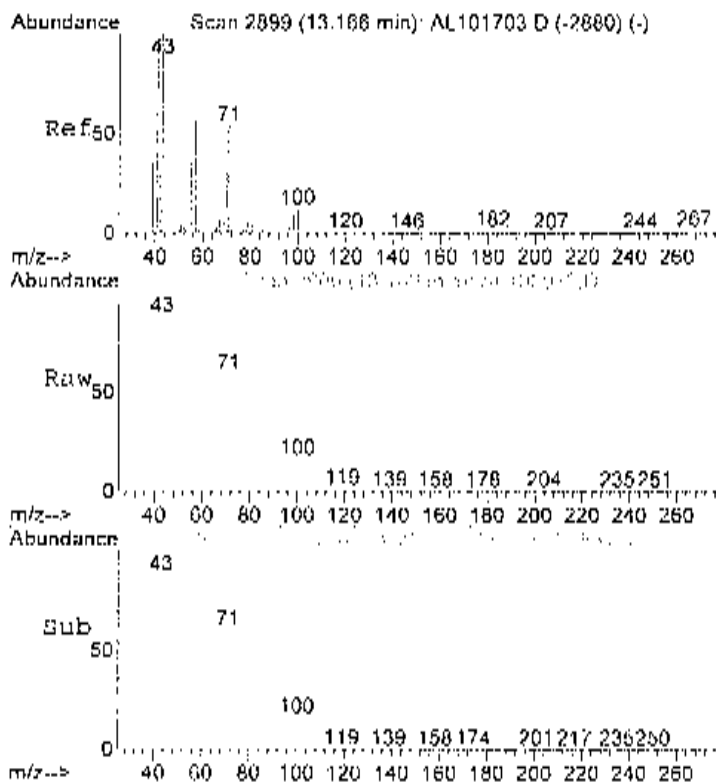
Tgt. Ion	Resp	Lower	Upper
56	110054		
41	401.7	34.6	74.6#
84	0.0	84.9	124.9#



#40
Benzene
Concen: 0.87 ppb
RT: 12.08 min Scan# 2535
Delta R.T. 0.00 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

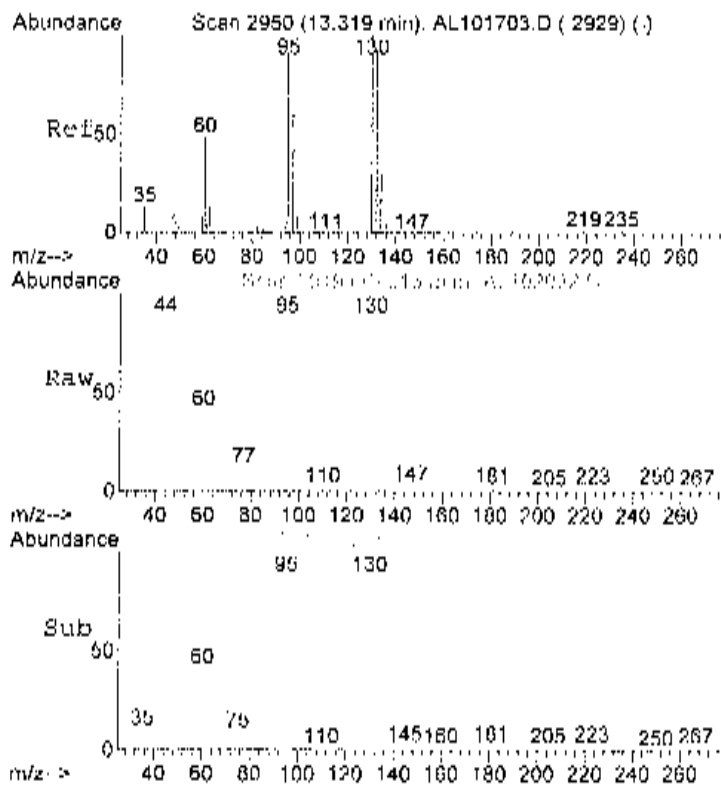
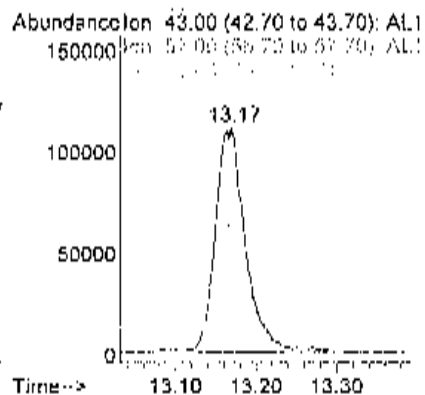
Tgt. Ion	Resp	Lower	Upper
78	212266		
77	25.0	3.6	43.6
51	23.1	0.0	36.3





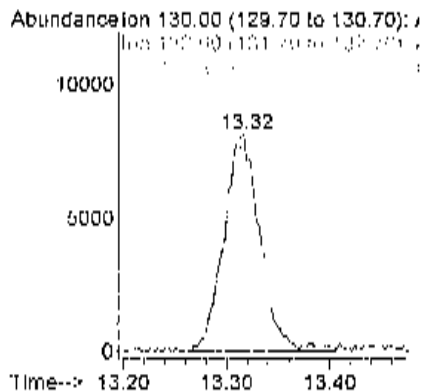
#44
Heptane
Concen: 2.78 ppb
RT: 13.17 min Scan# 2900
Delta R.T. -0.00 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

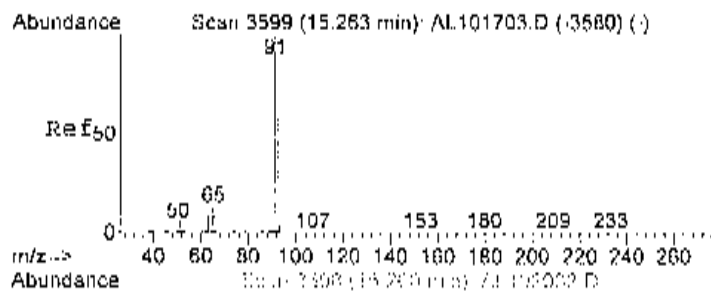
Tgt Ion	Resp	Lower	Upper
43	285551		
57	75.5	34.7	74.7#
71	57.4	39.1	79.1



#45
Trichloroethene
Concen: 0.17 ppb
RT: 13.32 min Scan# 2949
Delta R.T. -0.00 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

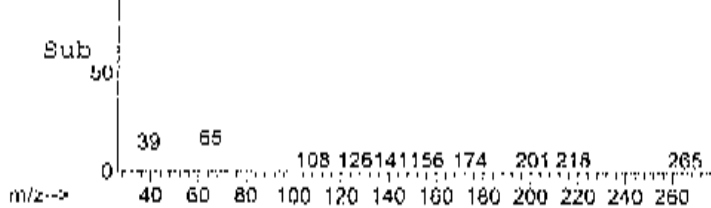
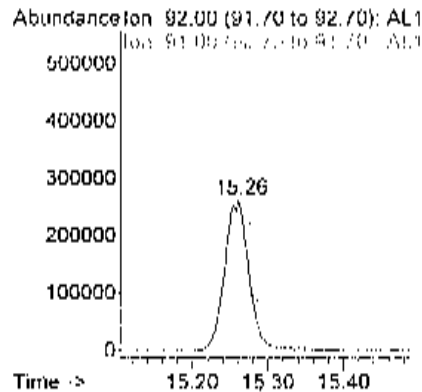
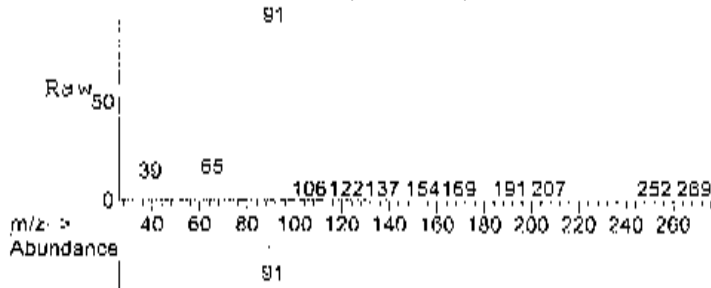
Tgt Ion	Resp	Lower	Upper
130	20211		
132	98.4	78.0	118.0
95	107.5	82.4	122.4





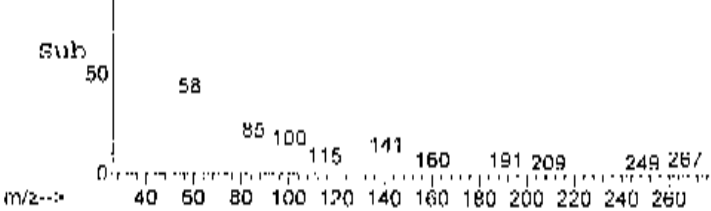
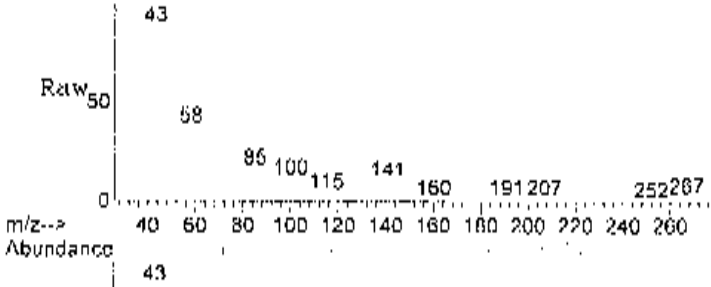
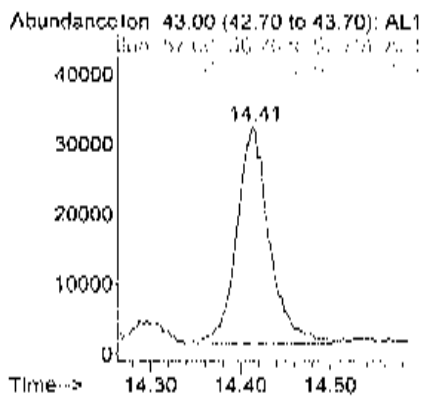
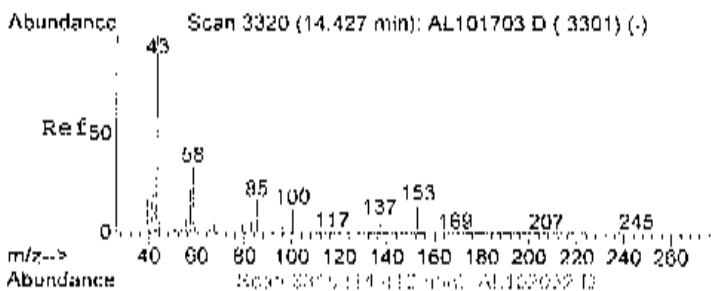
#52
 Toluene
 Concen: 3.42 ppb
 RT: 15.26 min Scan# 3598
 Delta R.T. -0.00 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

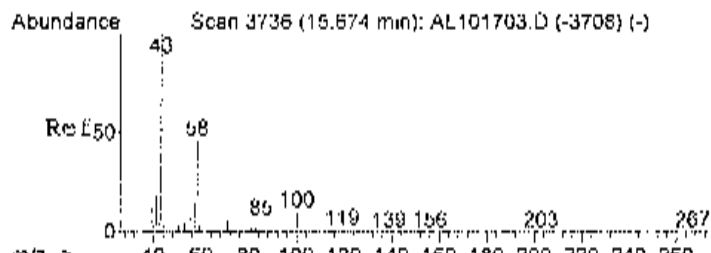
Tgt Ion	Resp	Lower	Upper
92	587191		
91	175.9	154.2	194.2



#53
 Methyl Isobutyl Ketone
 Concen: 0.60 ppb
 RT: 14.41 min Scan# 3315
 Delta R.T. -0.02 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

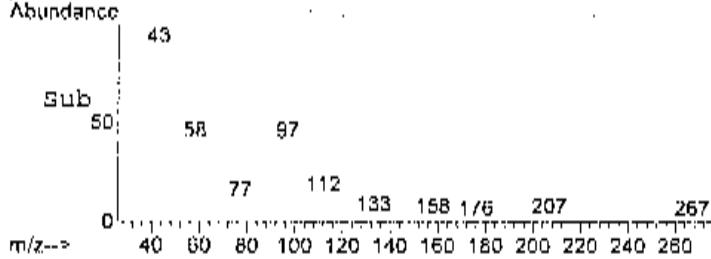
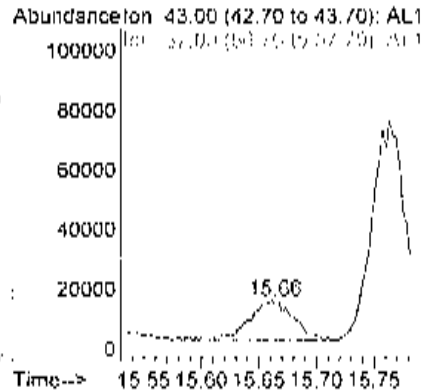
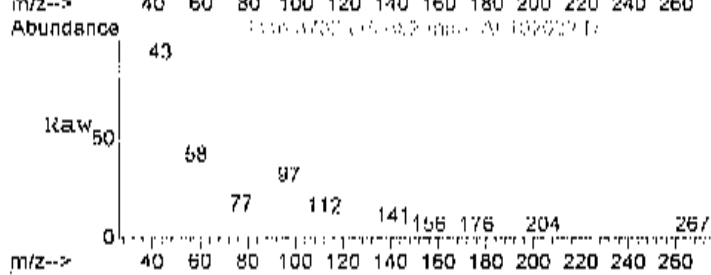
Tgt Ion	Resp	Lower	Upper
43	78023		
57	27.5	3.4	43.4
58	41.0	20.9	60.9





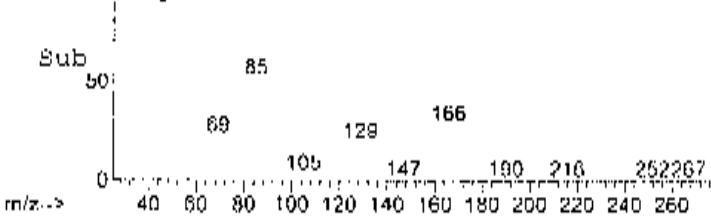
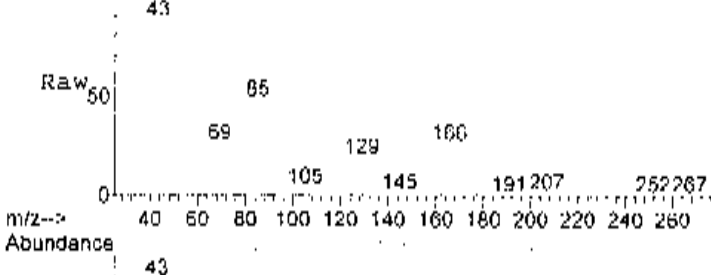
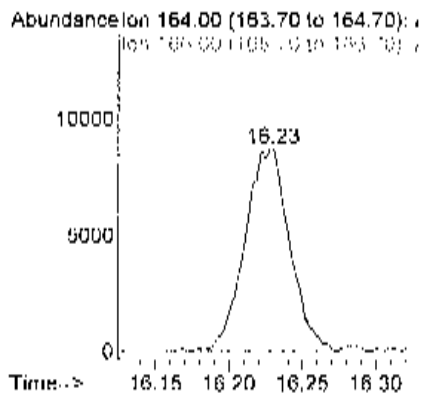
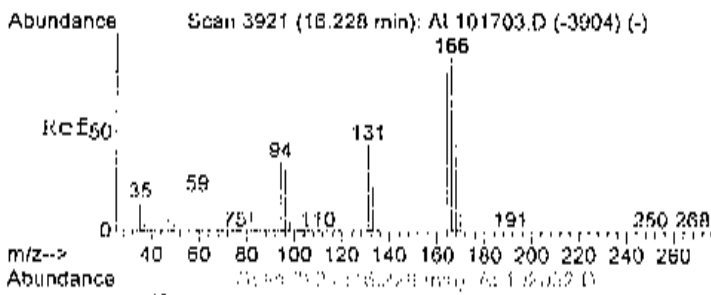
#55
Methyl Butyl Ketone
Concen: 0.42 ppb
RT: 15.66 min Scan# 3732
Delta R.T. -0.02 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

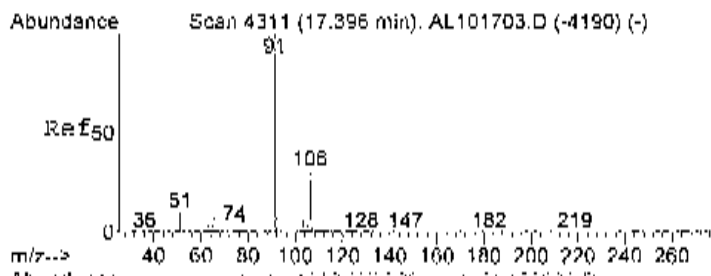
Tgt Ion	Resp	Lower	Upper
43	37712		
57	23.2	0.0	37.4
58	36.3	28.3	68.3



#57
Tetrachloroethylene
Concen: 0.12 ppb
RT: 16.23 min Scan# 3921
Delta R.T. -0.00 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

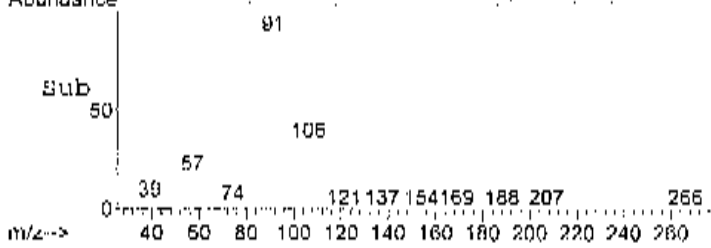
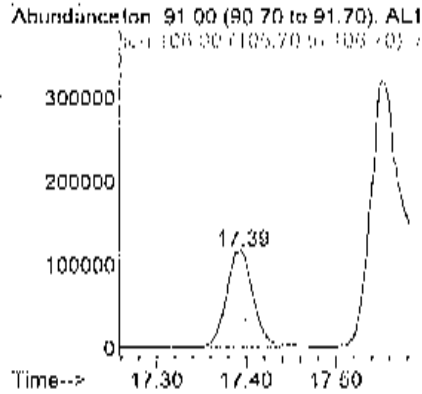
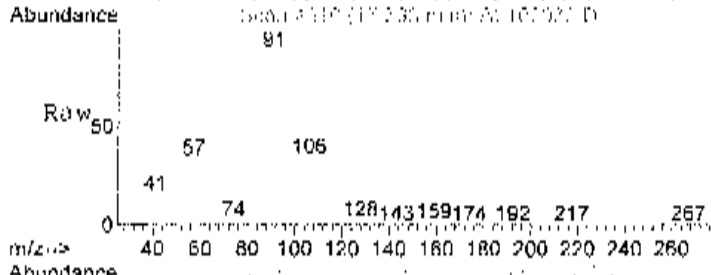
Tgt Ion	Resp	Lower	Upper
164	18562		
166	132.2	108.0	148.0





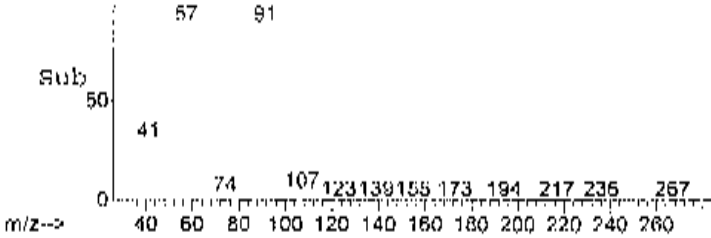
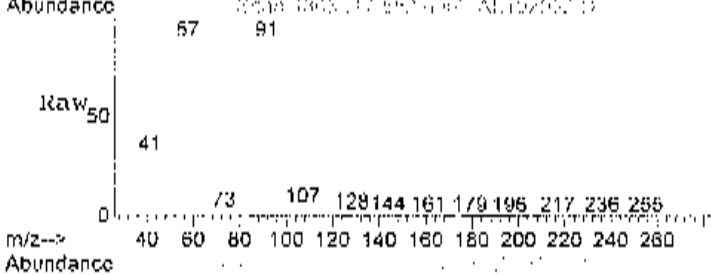
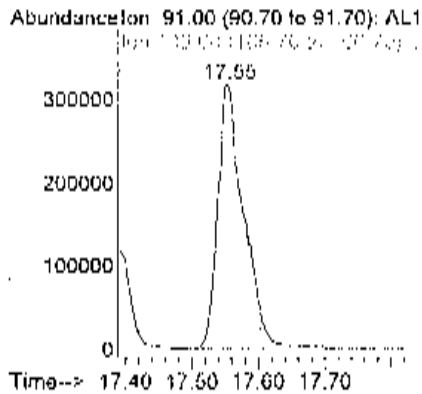
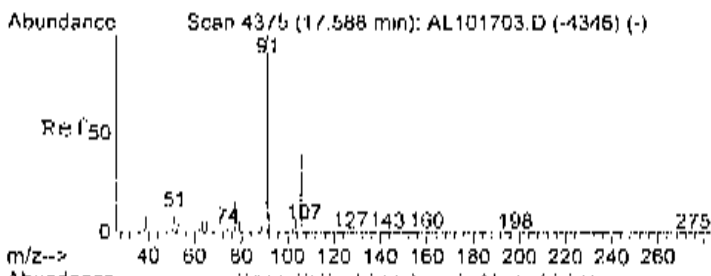
#60
Ethylbenzene
Concen: 0.68 ppb
RT: 17.39 min Scan# 4310
Delta R.T. -0.01 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

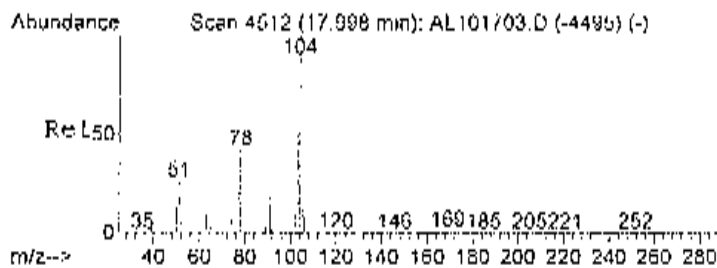
Tgt Ion	Resp	Lower	Upper
91	245561		
106	32.3	12.2	52.2



#61
m,p-xylene
Concen: 3.03 ppb
RT: 17.55 min Scan# 4363
Delta R.T. -0.04 min
Lab File: AL102032.D
Acq: 21 Oct 2014 4:50 am

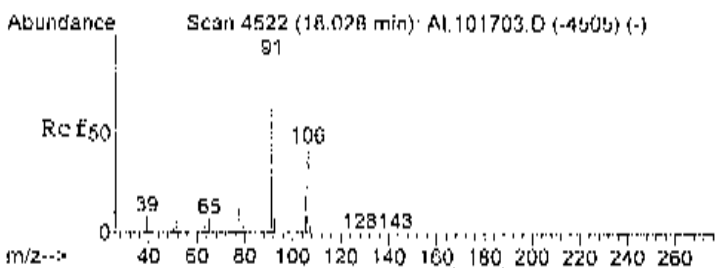
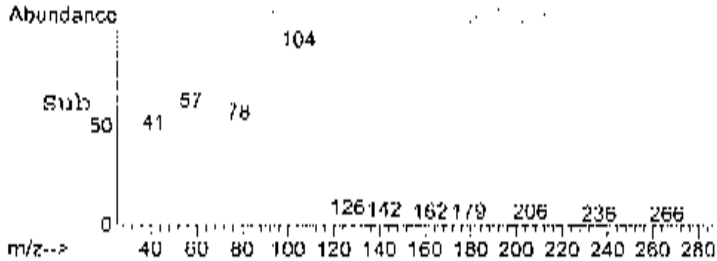
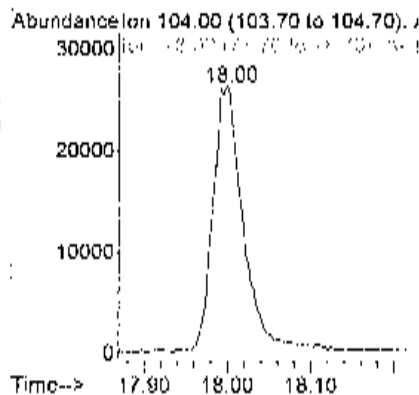
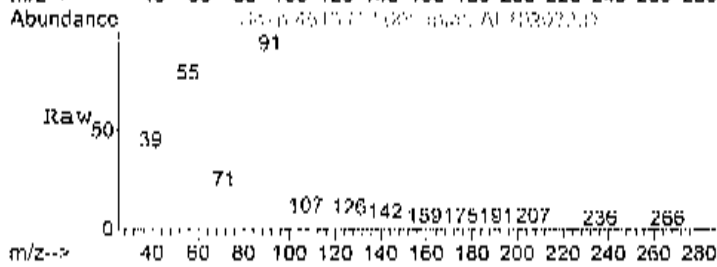
Tgt Ion	Resp	Lower	Upper
91	863614		
106	48.7	29.2	69.2





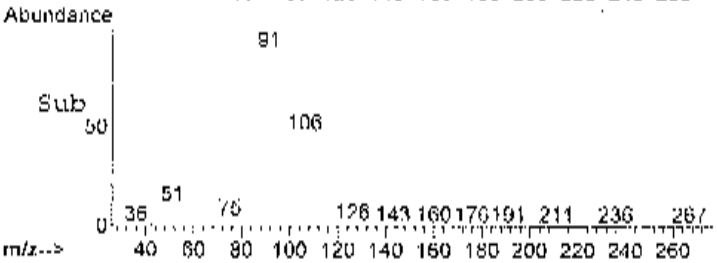
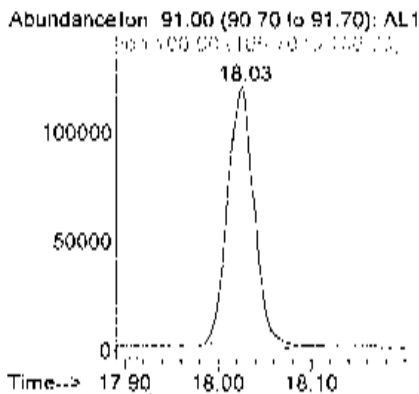
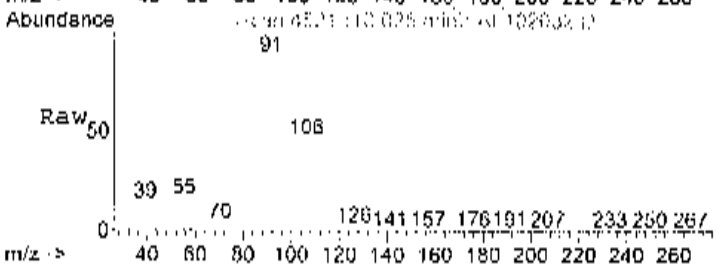
#63
 Styrene
 Concen: 0.33 ppb
 RT: 18.00 min Scan# 4513
 Delta R.T. -0.00 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

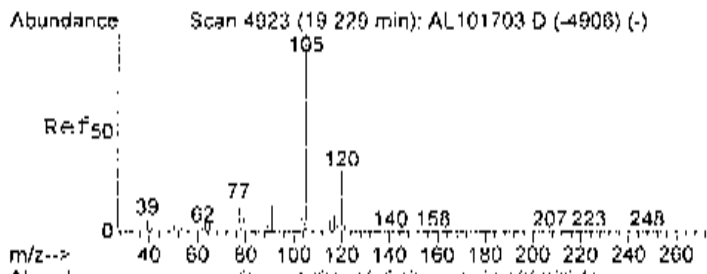
Tgt Ion	Resp	Lower	Upper
104	65954		
78	67.1	31.2	71.2



#65
 o-xylene
 Concen: 0.66 ppb
 RT: 18.03 min Scan# 4521
 Delta R.T. -0.00 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

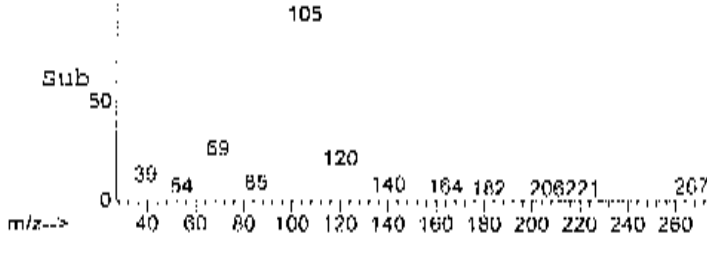
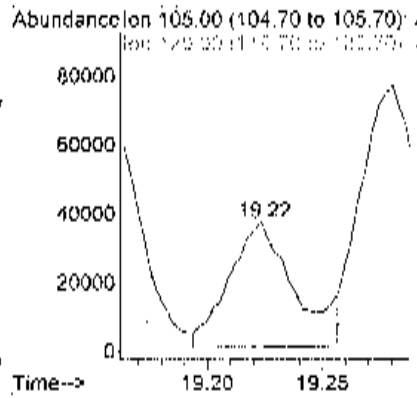
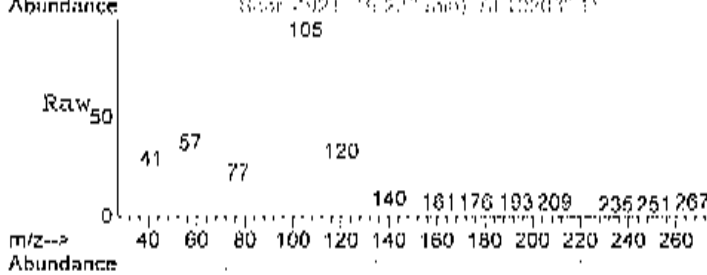
Tgt Ion	Resp	Lower	Upper
91	240508		
106	46.5	26.7	66.7





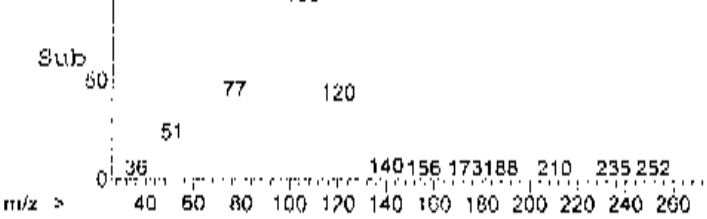
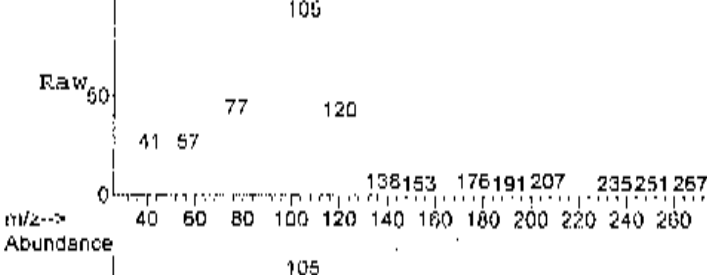
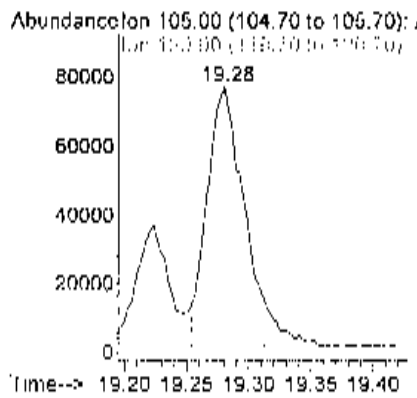
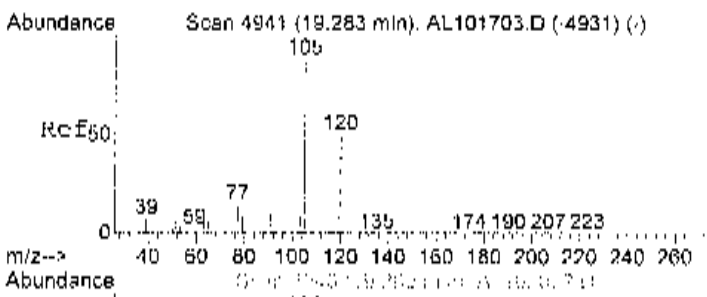
#71
 4-ethyltoluene
 Concen: 0.21 ppb
 RT: 19.22 min Scan# 4921
 Delta R.T. -0.01 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

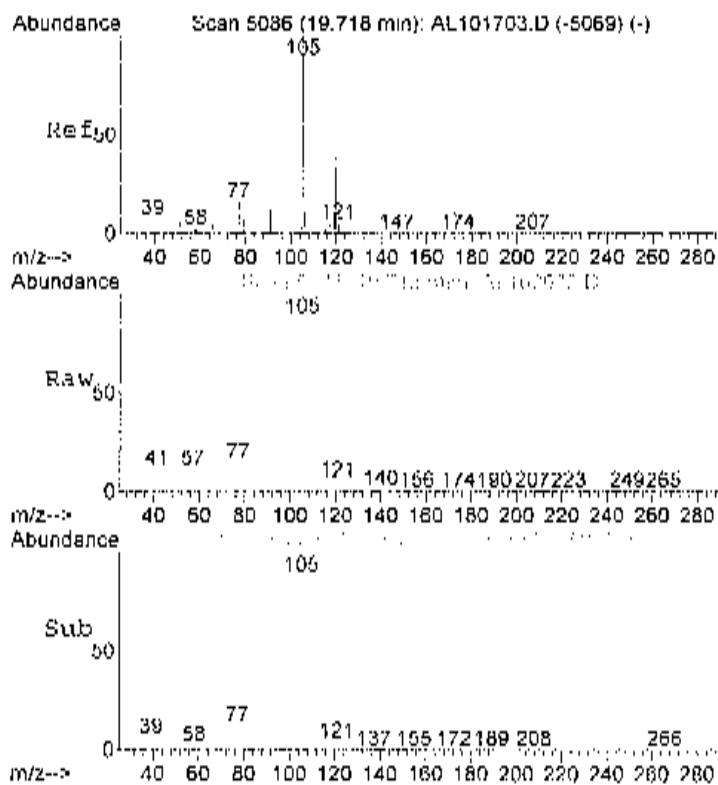
Tgt Ion	Resp	Lower	Upper
105	100		
120	28.1	0.0	20.0#



#72
 1,3,5-trimethylbenzene
 Concen: 0.40 ppb
 RT: 19.28 min Scan# 4940
 Delta R.T. -0.00 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

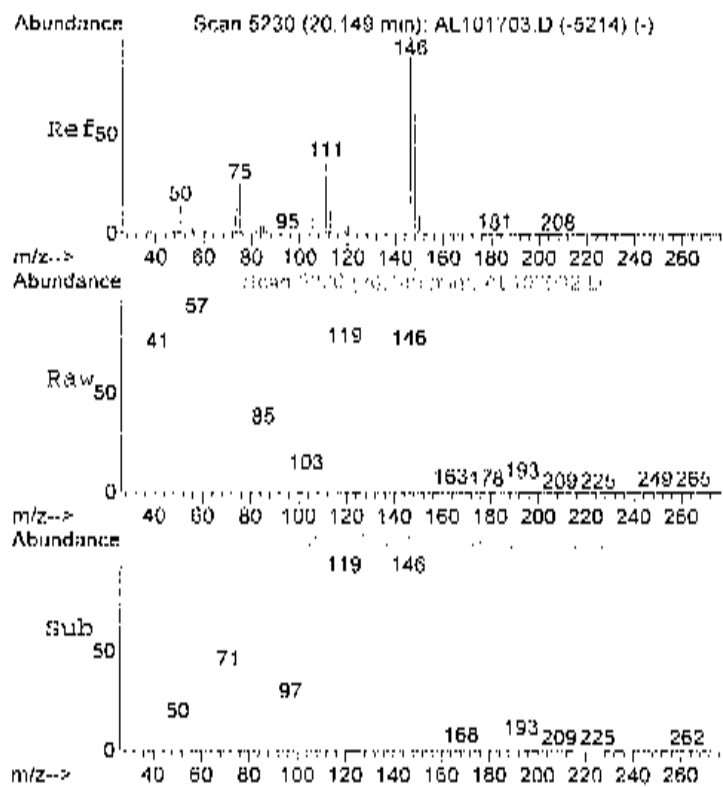
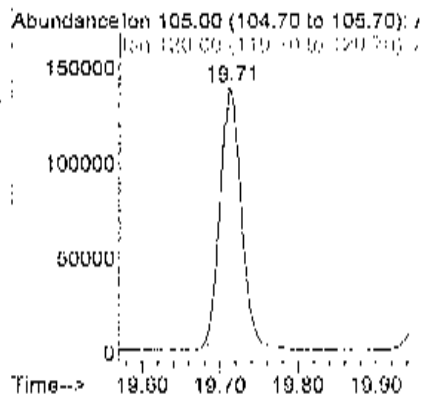
Tgt Ion	Resp	Lower	Upper
105	100		
120	31.5	0.0	20.0#





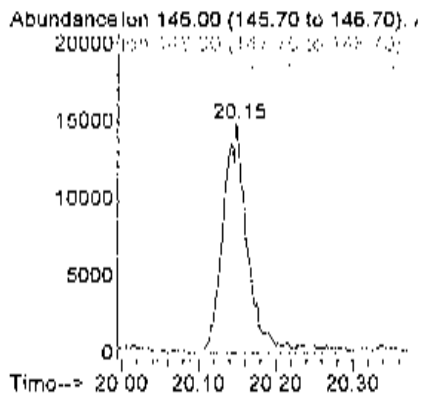
#73
 1,2,4-trimethylbenzene
 Concen: 0.92 ppb
 RT: 19.71 min Scan# 5084
 Delta R.T. -0.01 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

Tgt	Ion	Ratio	Lower	Upper
105	105	100		
120	120	44.3	25.3	65.3



#76
 1,4-dichlorobenzene
 Concen: 0.16 ppb
 RT: 20.15 min Scan# 5230
 Delta R.T. -0.00 min
 Lab File: AL102032.D
 Acq: 21 Oct 2014 4:50 am

Tgt	Ion	Ratio	Lower	Upper
146	146	100		
148	148	66.8	44.3	84.3
111	111	51.3	17.9	57.9



Data File : C:\HPCHEM\1\DATA\AL102037.D
 Acq On : 21 Oct 2014 7:48 am
 Sample : C1410057-006A 10X
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 11:30:05 2014

Vial: 34
 Operator: RJP
 Inst. : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	128	31018	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	127739	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	94990	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	52685	0.78	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	78.00%

Target Compounds

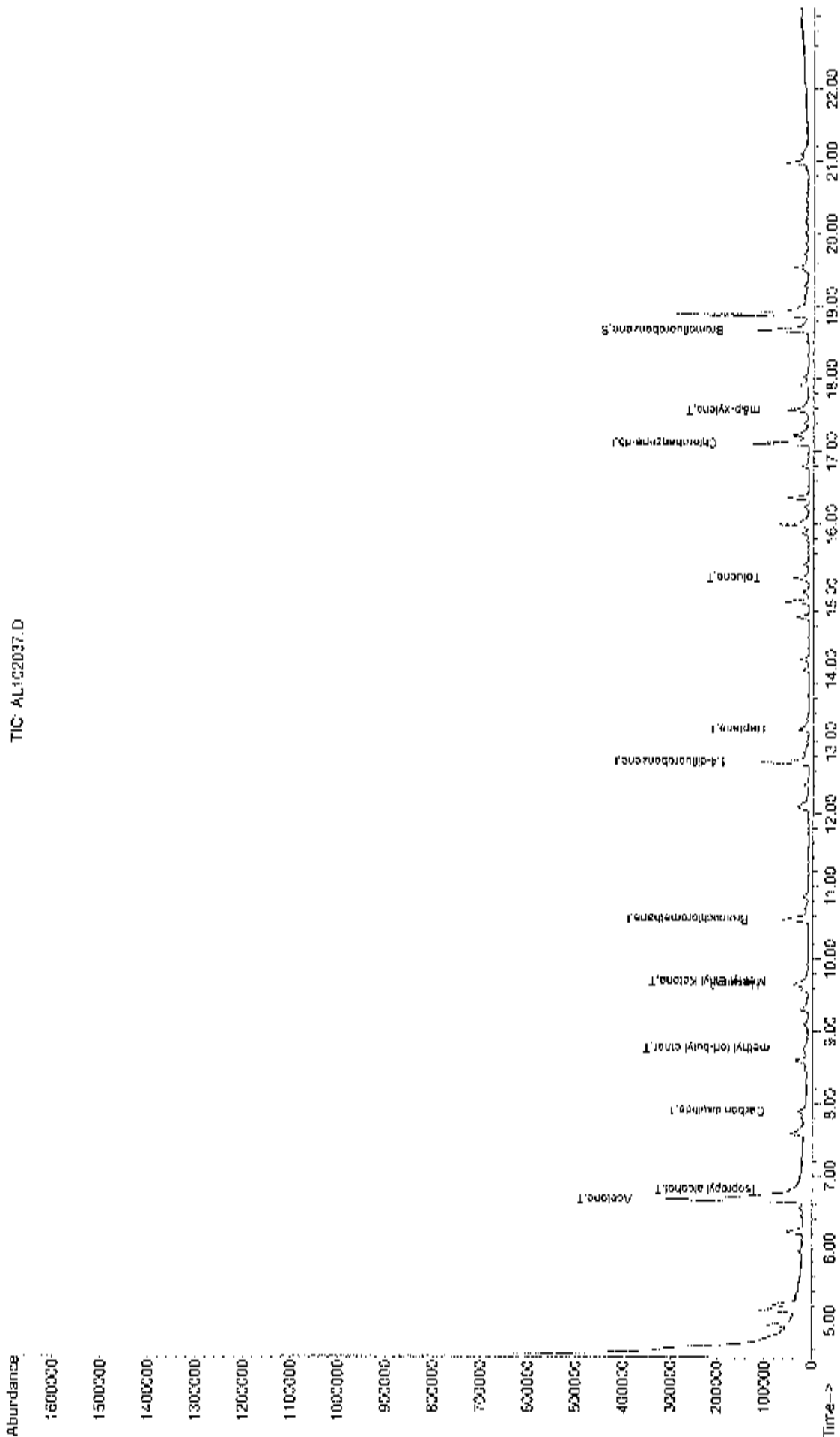
	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	6.67	58	212183	20.61	ppb	# 39
18) Isopropyl alcohol	6.80	45	16711	0.47	ppb	# 100
24) Carbon disulfide	7.90	76	35062	0.35	ppb	# 94
26) methyl tert-butyl ether	8.75	73	11160	0.12	ppb	# 57
29) Methyl Ethyl Ketone	9.69	72	4021	0.28	ppb	# 1
31) Hexane	9.65	57	23760	0.40	ppb	# 55
44) Heptane	13.18	43	11014	0.21	ppb	# 84
52) Toluene	15.26	92	18544	0.28	ppb	# 97
61) m&p-xylene	17.56	91	20011	0.18	ppb	# 96

Data File : C:\HPCHEM\1\DATA\AL102037.D
 Acq On : 21 Oct 2014 7:58 am
 Sample : C1410057-006A 10X
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 11:52 2014

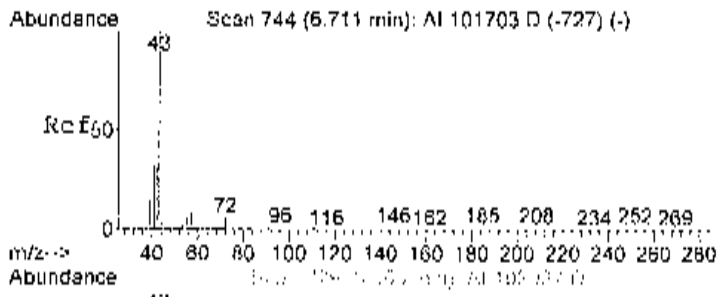
Vial: 34
 Operator: RJP
 Inst : MSD #:
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : GC-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Initial Calibration

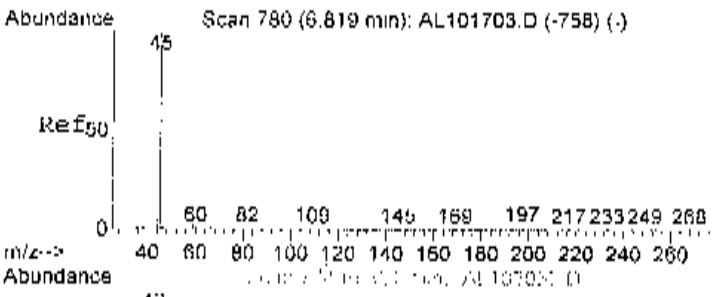
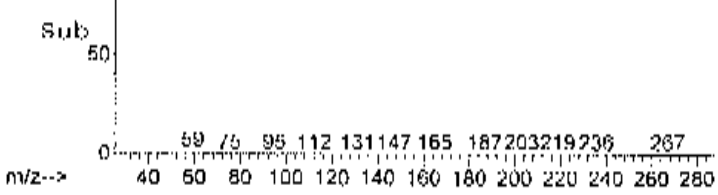
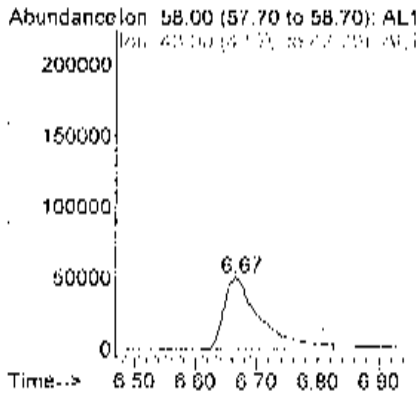
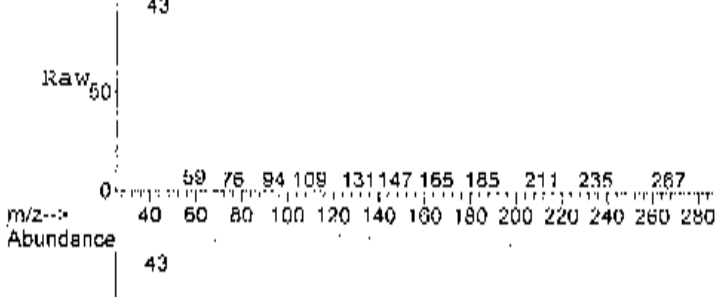


TIC: AL102037.D



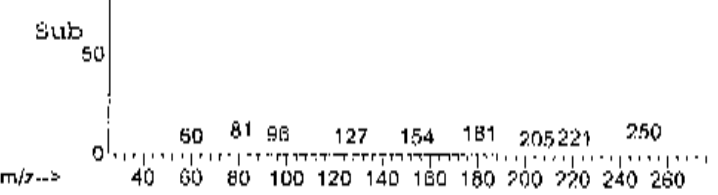
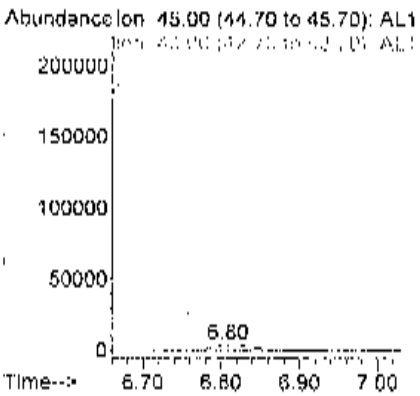
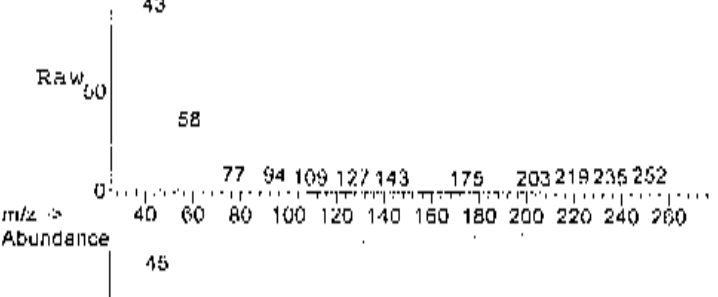
#16
 Acetone
 Concen: 20.61 ppb
 RT: 6.67 min Scan# 729
 Delta R.T. -0.02 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

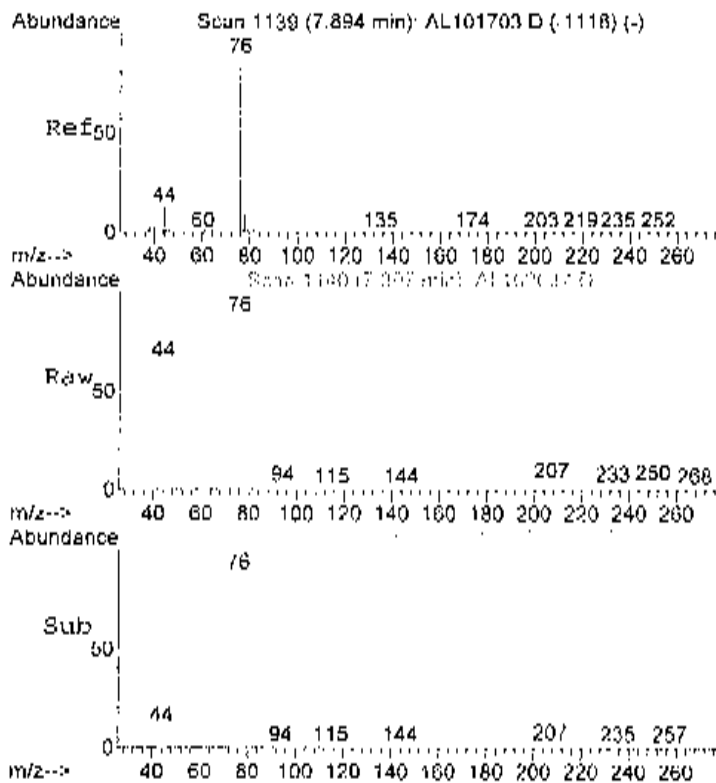
Tgt Ion	Resp	Lower	Upper
58	212183		
43	366.3	514.7	574.7#



#18
 Isopropyl alcohol
 Concen: 0.47 ppb
 RT: 6.80 min Scan# 774
 Delta R.T. -0.00 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

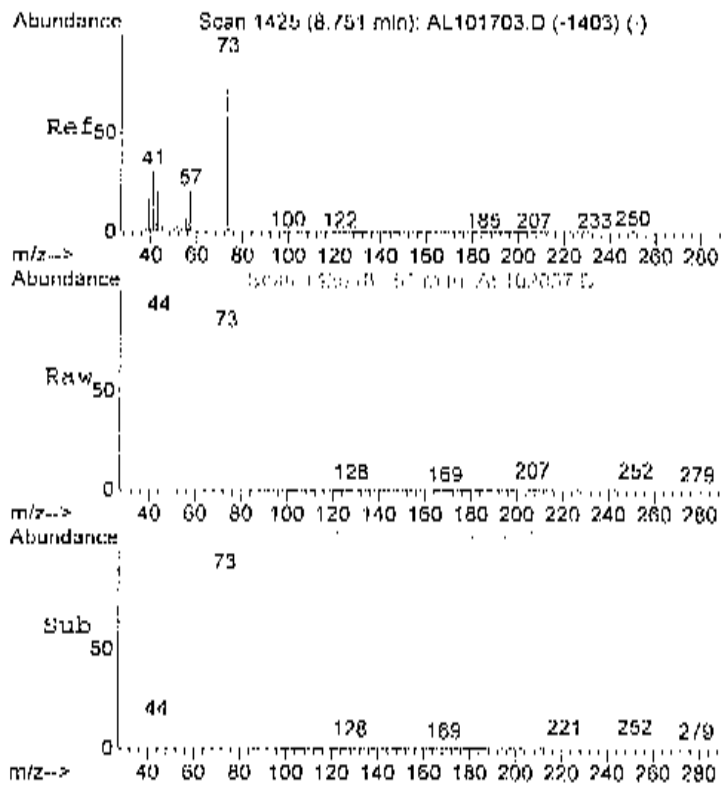
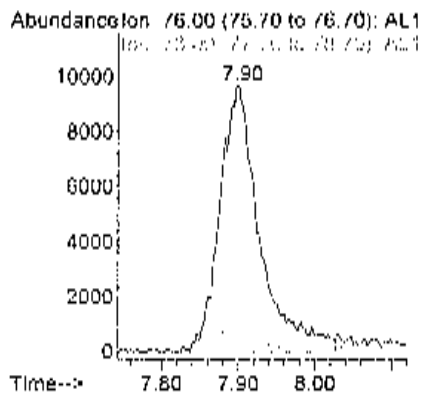
Tgt Ion	Resp	Lower	Upper
45	16711		
43	0.0	0.0	20.0





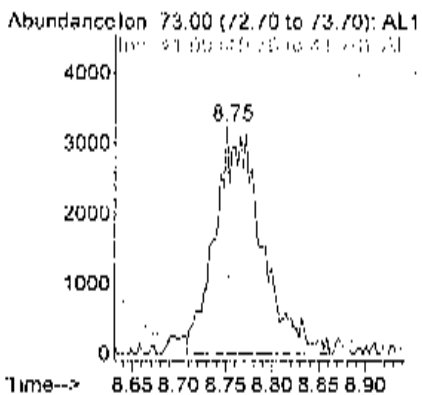
#24
 Carbon disulfide
 Concen: 0.35 ppb
 RT: 7.90 min Scan# 1140
 Delta R.T. 0.00 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

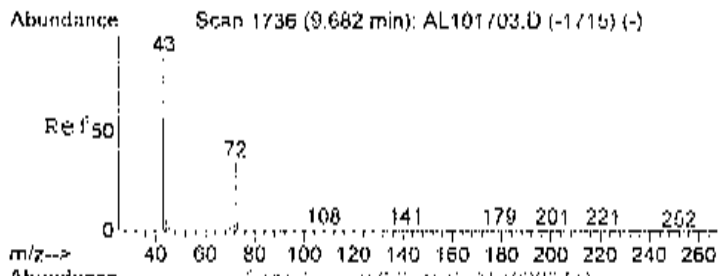
Tgt Ion	Resp	Lower	Upper
76	35062		
75	100		
78	11.2	0.0	29.1



#25
 methyl tert butyl ether
 Concen: 0.12 ppb
 RT: 8.75 min Scan# 1425
 Delta R.T. -0.00 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

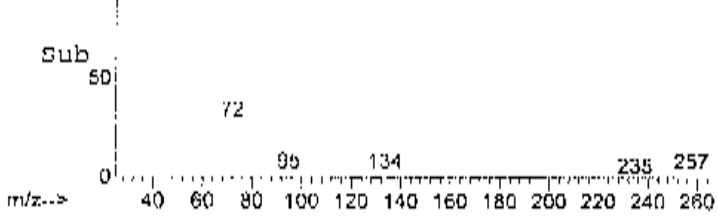
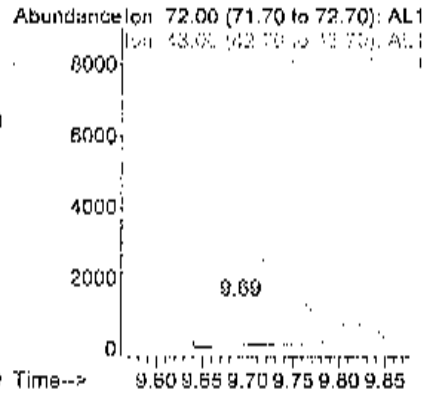
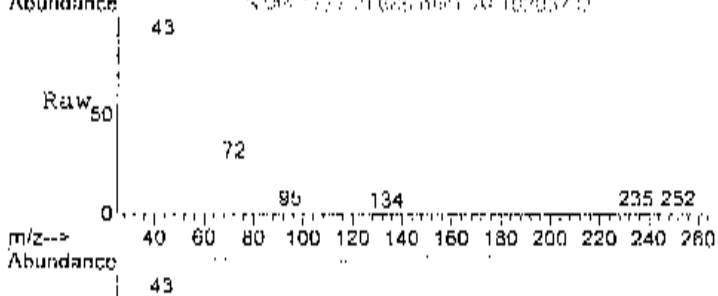
Tgt Ion	Resp	Lower	Upper
73	11160		
73	100		
41	0.0	1.5	41.5#
53	0.4	0.0	21.6





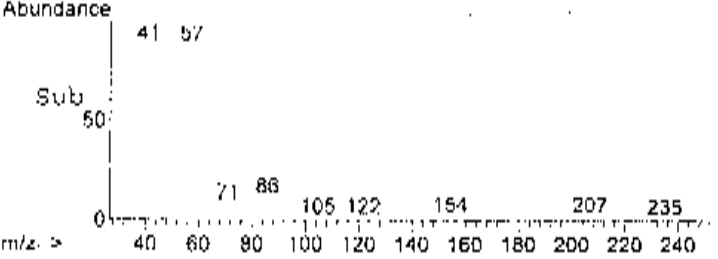
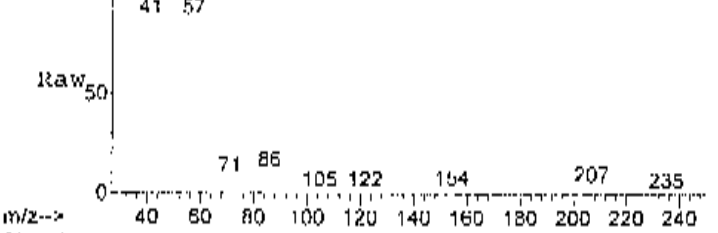
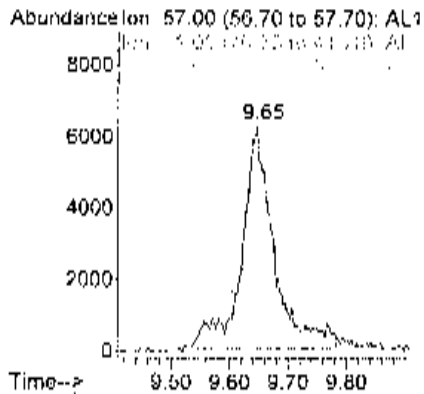
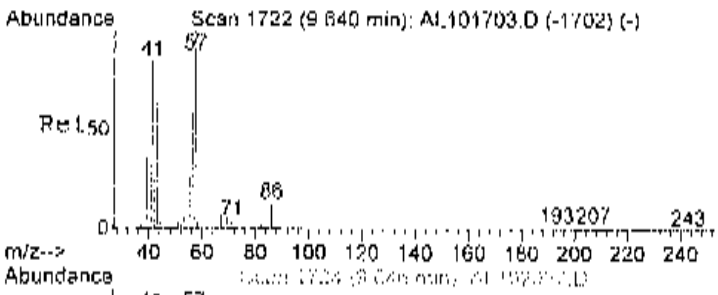
#29
Methyl Ethyl Ketone
Concen: 0.28 ppb
RT: 9.69 min Scan# 1737
Delta R.T. 0.02 min
Lab File: AL102037.D
Acq: 21 Oct 2014 7:48 am

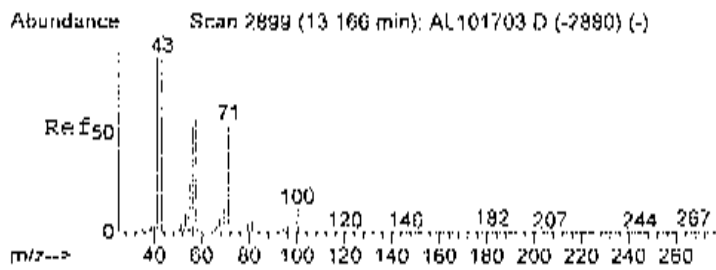
Tgt Ion	Resp	Lower	Upper
72	4021		
72	100		
43	1043.1	530.5	570.5#
72	100.0	80.0	120.0



#31
Hexane
Concen: 0.40 ppb
RT: 9.65 min Scan# 1724
Delta R.T. 0.00 min
Lab File: AL102037.D
Acq: 21 Oct 2014 7:48 am

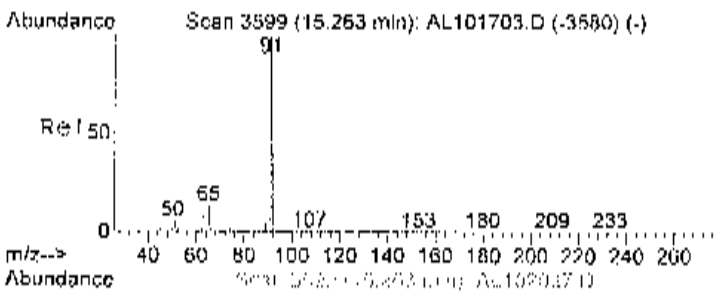
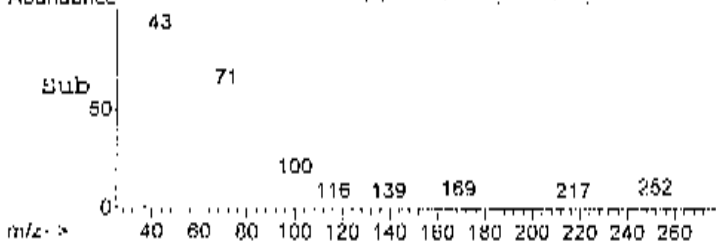
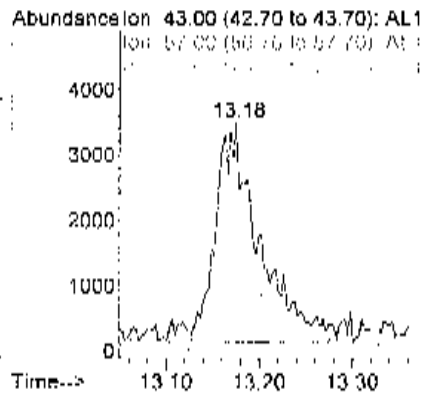
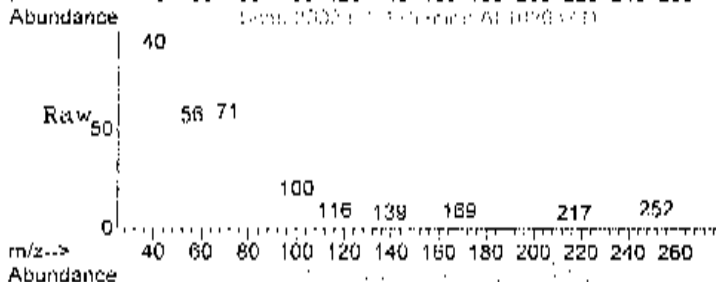
Tgt Ion	Resp	Lower	Upper
57	23760		
57	100		
41	127.3	45.2	85.2#
56	48.0	29.0	69.0





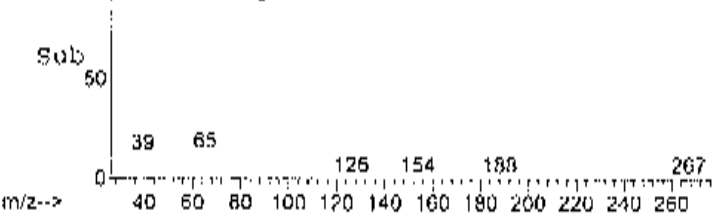
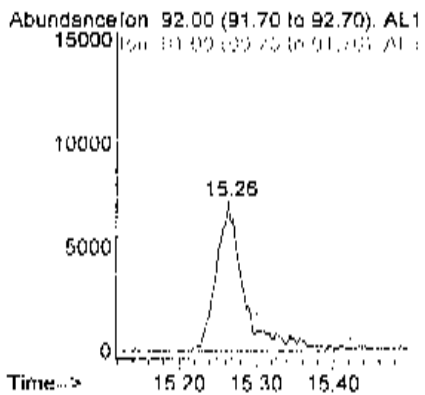
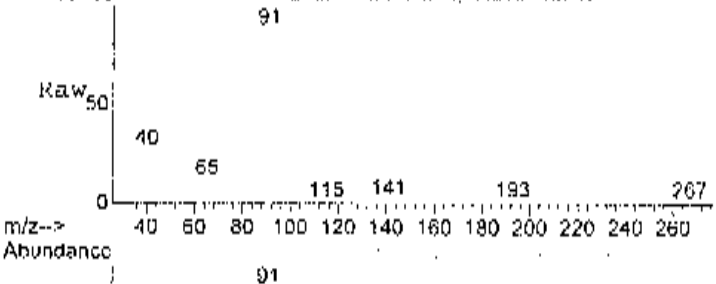
#44
 Heptane
 Concen: 0.21 ppb
 RT: 13.18 min Scan# 2902
 Delta R.T. 0.00 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

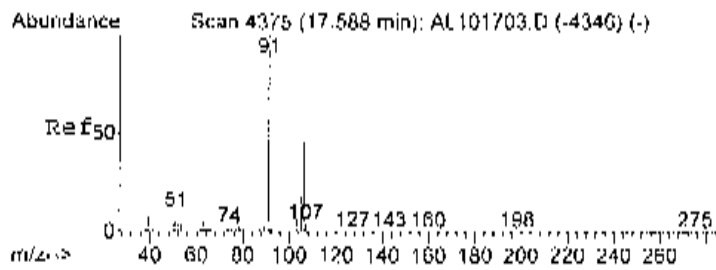
Tgt Ion	Ratio	Lower	Upper
43	100		
57	69.7	34.7	74.7
71	50.7	39.1	79.1



#52
 Toluene
 Concen: 0.28 ppb
 RT: 15.26 min Scan# 3599
 Delta R.T. -0.00 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

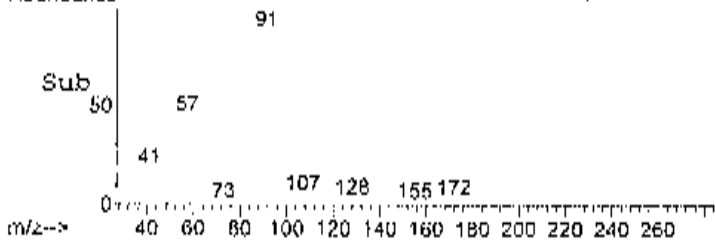
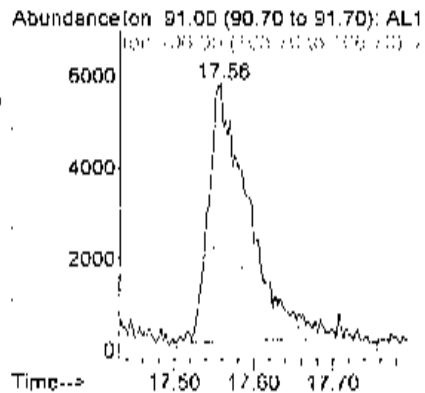
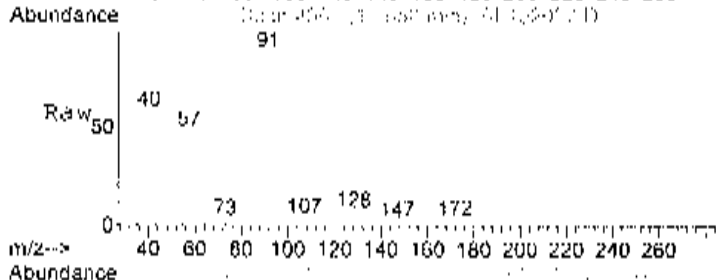
Tgt Ion	Ratio	Lower	Upper
92	100		
91	178.2	154.2	194.2





#61
 m&p-xylene
 Concen: 0.18 ppb
 RT: 17.56 min Scan# 4365
 Delta R.T. -0.03 min
 Lab File: AL102037.D
 Acq: 21 Oct 2014 7:48 am

Tgt. Ion	Resp	Lower	Upper
91	20011		
106	51.6	29.2	69.2



Data File : C:\HPCHEM\1\DATA2\AL102122.D
 Acq On : 22 Oct 2014 1:29 am
 Sample : C1410057-006A 640X
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 22 14:31:23 2014

Vial: 29
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	30013	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.72	114	115866	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	79979	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.68	95	41278m	0.73	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

16) Acetone	6.70	58	4233	0.43	ppb	Qvalue # 28
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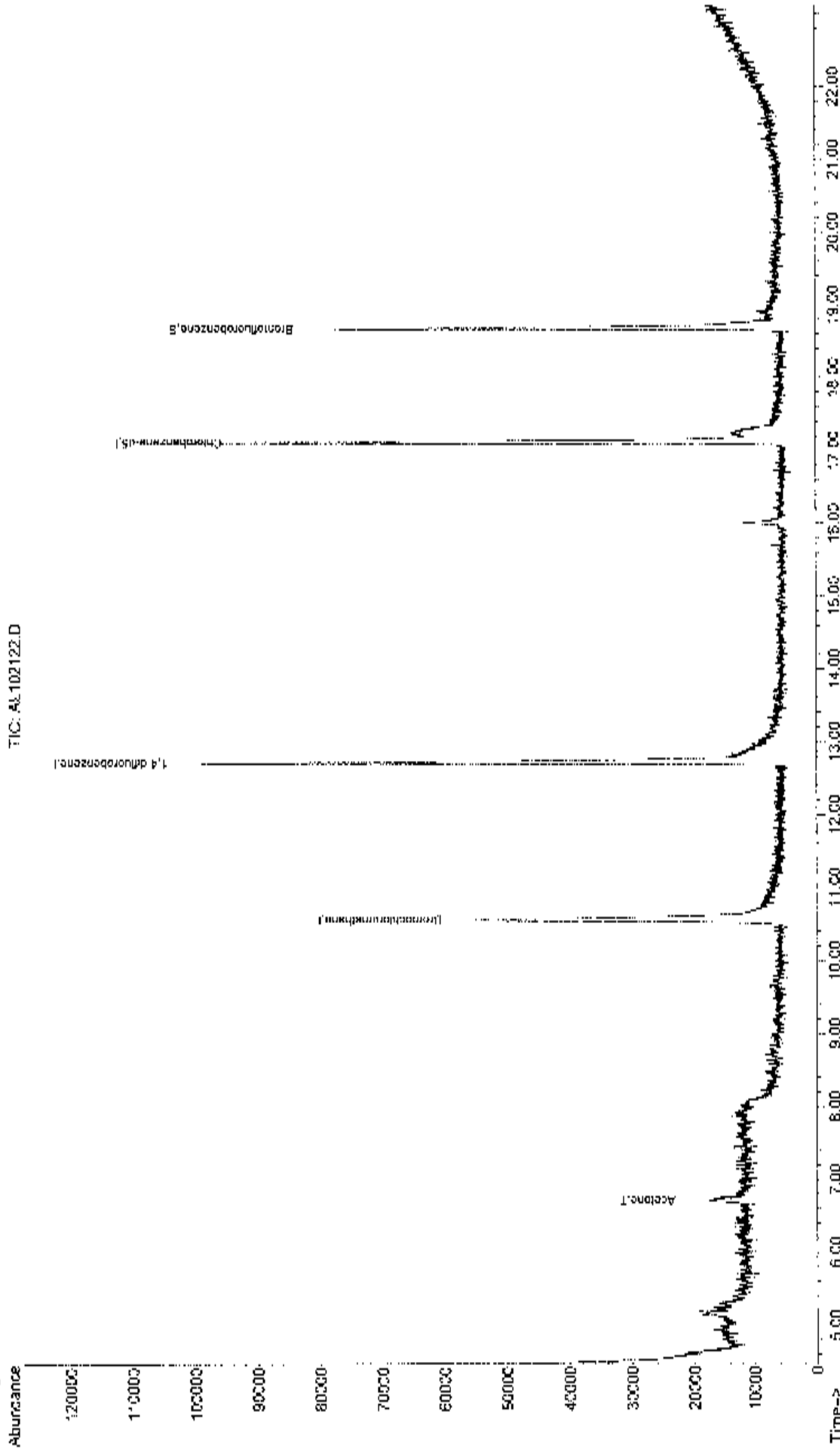
Validation report (K- reviewed)

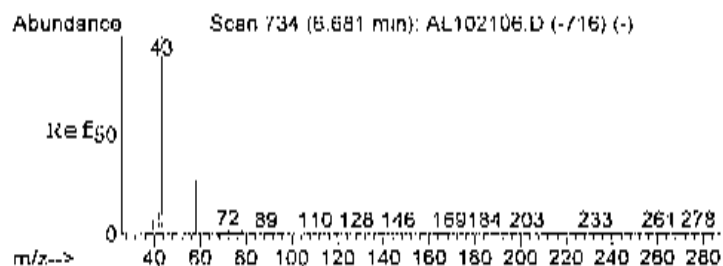
Data File : C:\HPCHEM\1\DATA2\AL102122.D
Acq On : 22 Oct 2014 1:29 am
Sample : C1410957-006A 640X
Misc : A910_1UG
MS Integration Params: RTEINT.P
Quant Time: Nov 17 15:14 2014

Vial: 29
Operator: RJP
Inst : MSD #:
Multiplier: 1.00

Quant Results File: A910_1UG.RES

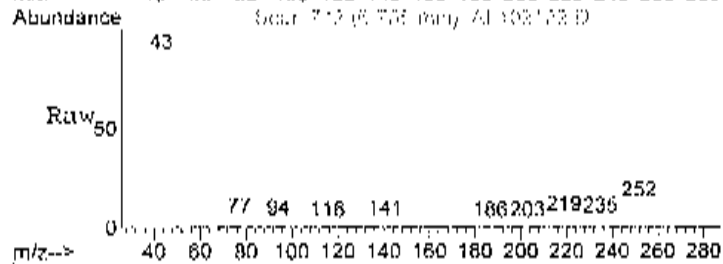
Method : C:\HPCHEM\1\METHODS\A910_1UG.M (FIE Integrator)
Title : 73-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 17 14:54:27 2014
Response via : Initial Calibration



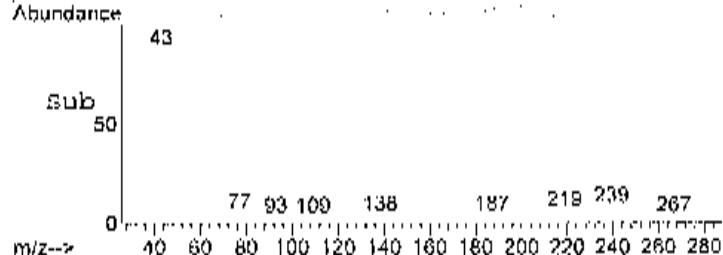
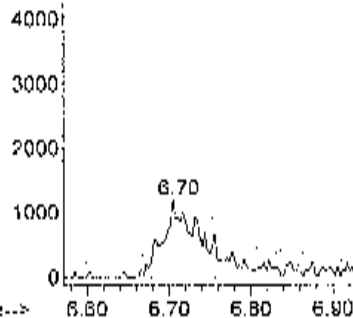


#16
 Acetone
 Concen: 0.43 ppb
 RT: 6.70 min Scan# 742
 Delta R.T. 0.01 min
 Lab File: AL102122.D
 Acq: 22 Oct 2014 1:29 am

Tgt Ion	SB	Resp	4233
Ion	Ratio	Lower	Upper
58	100		
43	335.4	514.7	574.74



Abundance Ion 58.00 (6.70 to 6.70): AL102122.D



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: IA-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 7:13:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Acetone	10	1.5		ppbV	5	10/18/2014 2:08:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Benzene	0.13	0.15	J	ppbV	1	10/17/2014 7:13:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Carbon tetrachloride	0.090	0.040		ppbV	1	10/17/2014 7:13:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Chloromethane	0.54	0.15		ppbV	1	10/17/2014 7:13:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit Results reported are not blank corrected
 B Analyte detected in the associated Method Blank I Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 N Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 31 Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: IA-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 11	0.33	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Freon 12	0.58	0.15		ppbV	1	10/17/2014 7:13:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Isopropyl alcohol	1.0	0.15		ppbV	1	10/17/2014 7:13:00 PM
m&p-Xylene	0.27	0.30	J	ppbV	1	10/17/2014 7:13:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 7:13:00 PM
Methyl Ethyl Ketone	0.34	0.30		ppbV	1	10/17/2014 7:13:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 7:13:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Toluene	0.24	0.15		ppbV	1	10/17/2014 7:13:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 7:13:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 7:13:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 7:13:00 PM
Surr: Bromofluorobenzene	83.0	70-130		%REC	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-007A

Client Sample ID: IA-01
 Tag Number: 324,308
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 7:13:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 7:13:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 7:13:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 7:13:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 7:13:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 7:13:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 7:13:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 7:13:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 7:13:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 7:13:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 7:13:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 7:13:00 PM
Acetone	24	3.6		ug/m3	5	10/18/2014 2:08:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 7:13:00 PM
Benzene	0.42	0.48	J	ug/m3	1	10/17/2014 7:13:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 7:13:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 7:13:00 PM
Bromomethane	< 0.68	0.68		ug/m3	1	10/17/2014 7:13:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 7:13:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	10/17/2014 7:13:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 7:13:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 7:13:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 7:13:00 PM
Chloromethane	1.1	0.31		ug/m3	1	10/17/2014 7:13:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 7:13:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 7:13:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 7:13:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 7:13:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 7:13:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 7:13:00 PM
Freon 11	1.9	0.84		ug/m3	1	10/17/2014 7:13:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 7:13:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-007A

Client Sample ID: IA-01
Tag Number: 324,308
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	2.9	0.74		ug/m3	1	10/17/2014 7:13:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 7:13:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 7:13:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 7:13:00 PM
Isopropyl alcohol	2.5	0.37		ug/m3	1	10/17/2014 7:13:00 PM
m&p Xylene	1.2	1.3	J	ug/m3	1	10/17/2014 7:13:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 7:13:00 PM
Methyl Ethyl Ketone	1.0	0.88		ug/m3	1	10/17/2014 7:13:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 7:13:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 7:13:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/17/2014 7:13:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	10/17/2014 7:13:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 7:13:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 7:13:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 7:13:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 7:13:00 PM
Toluene	0.90	0.57		ug/m3	1	10/17/2014 7:13:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 7:13:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 7:13:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 7:13:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 7:13:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 7:13:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 7:13:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101713.D Vial: 26
 Acq On : 17 Oct 2014 7:13 pm Operator: RJP
 Sample : C1410057-007A Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Date: Oct 17 21:57:15 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	31264	1.00	ppb	0.02
36) 1,1-difluorobenzene	12.72	114	119374	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	98492	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.67	95	58094	0.83	ppb	0.00
Spike Amount	1.000	Range	70 - 130	Recovery	=	83.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Aceton 12	4.68	85	89043	0.58	ppb	100
5) Chloromethane	4.90	50	20020	0.54	ppb	84
15) Ethon 11	6.45	101	47411	0.33	ppb	99
16) Acetone	6.69	58	74071	7.14	ppb	# 50
18) Isopropyl alcohol	6.83	45	35924	1.01	ppb	# 100
29) Ethyl Ethyl Ketone	9.70	72	4932	0.34	ppb	# 78
39) Carbon tetrachloride	12.10	117	10823	0.09	ppb	90
40) Benzene	12.08	78	15372	0.13	ppb	91
52) Toluene	15.27	92	16276	0.24	ppb	97
61) m&o-xylene	17.56	91	30387	0.27	ppb	98

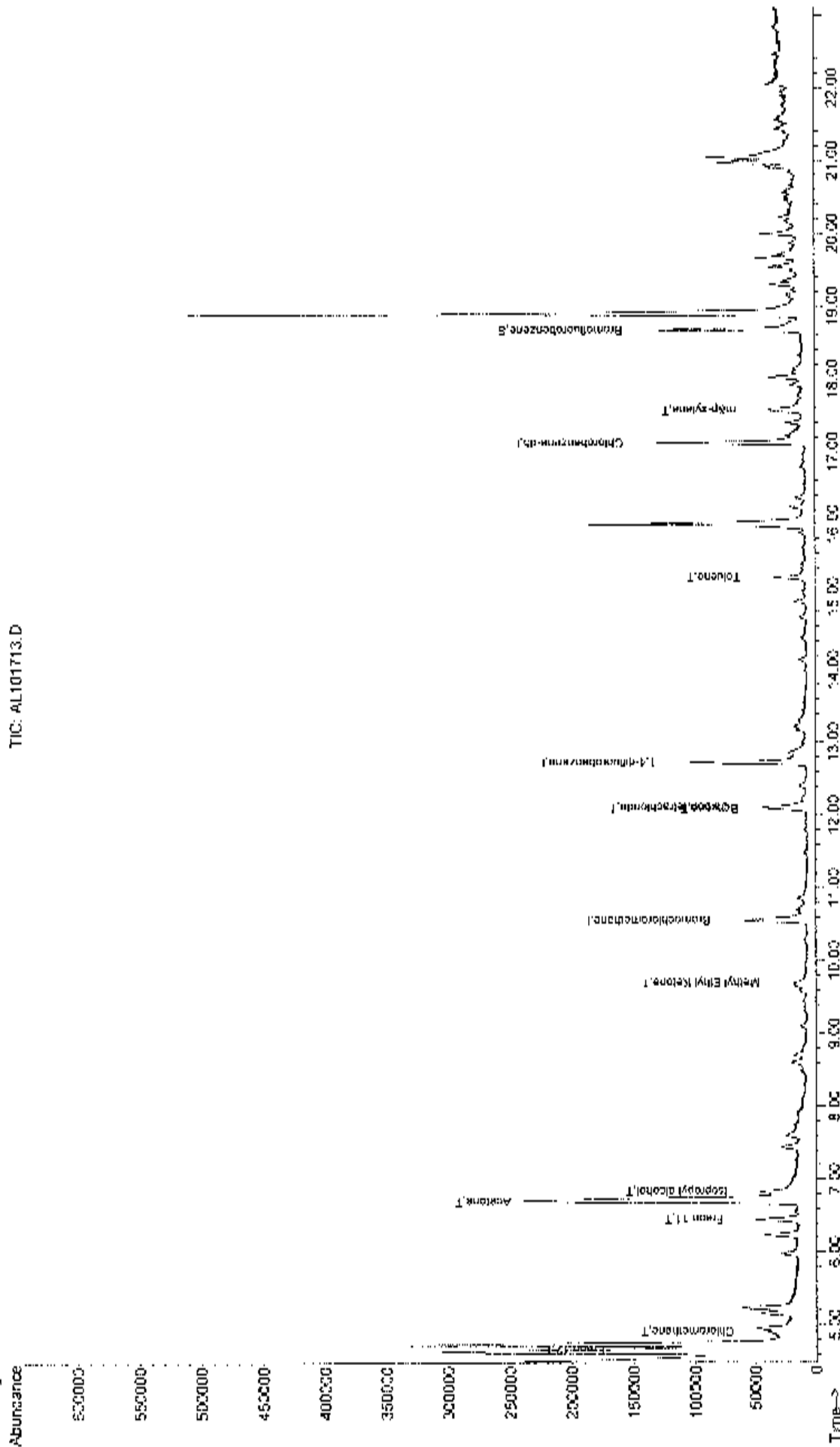
Data File : C:\MSDCHEM\1\DATA\AL101713.D
Acq Cr : 17 Oct 2014 7:13 PM
Sample : C1410057-067A
Vial : A910 100

Vial: 26
Operator: RJF
Inst : MSD F1
Injection: 1.00

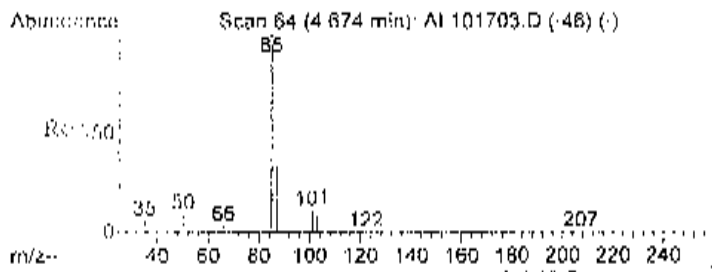
MS Integration Params: Summ1.P
Quant Time: Oct 31 14:02:2014

Quant Results File: A910_100.RES

Method : C:\MSDCHEM\1\METHODS\A910.JMS.M (RTI Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:29 2014
Response via : Initial Calibration

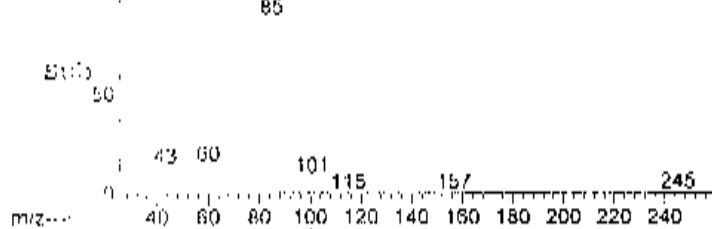
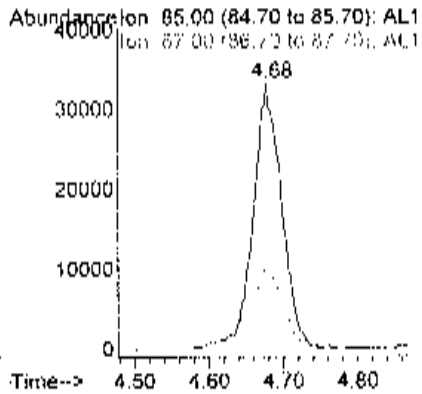
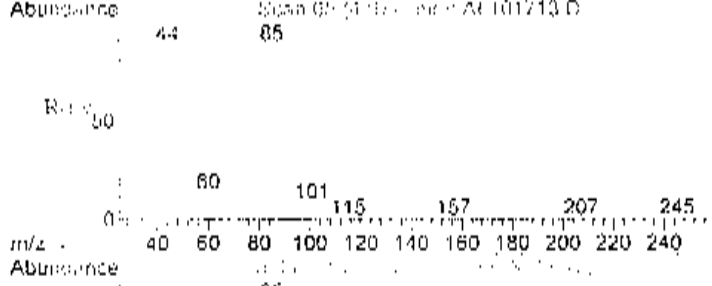


TIC: AL101713.D



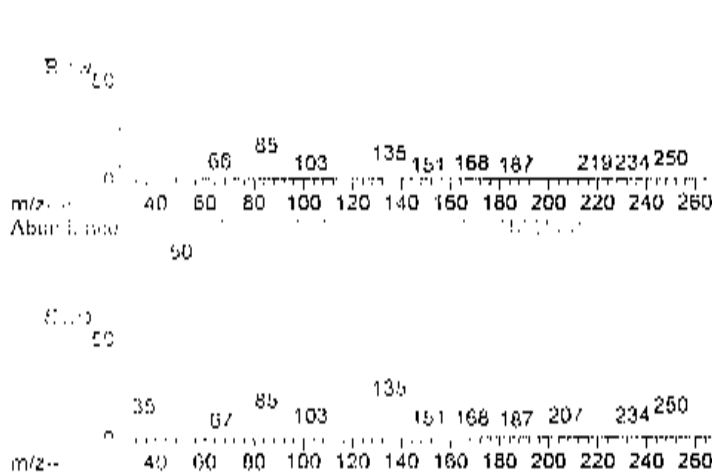
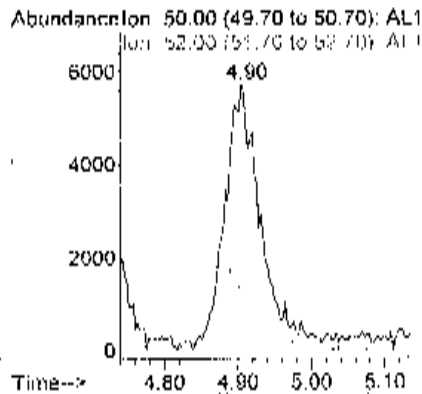
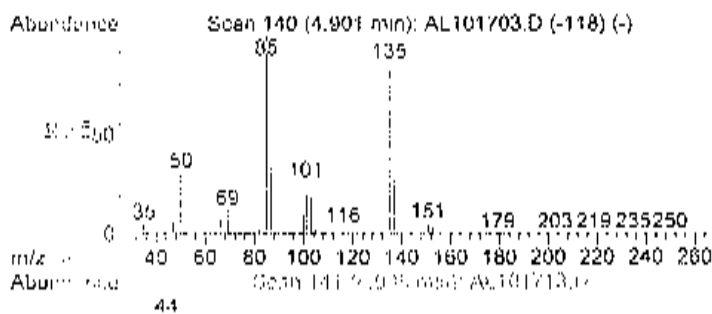
#4
 Freon 12
 Concn: 0.58 ppb
 RT: 4.68 min Scan# 65
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

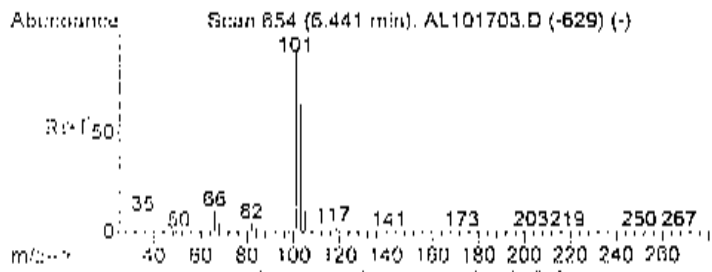
Tgt Ion	Resp	Lower	Upper
85	100		
87	31.9	12.1	52.1



#5
 Chloromethane
 Concn: 0.54 ppb
 RT: 4.90 min Scan# 141
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

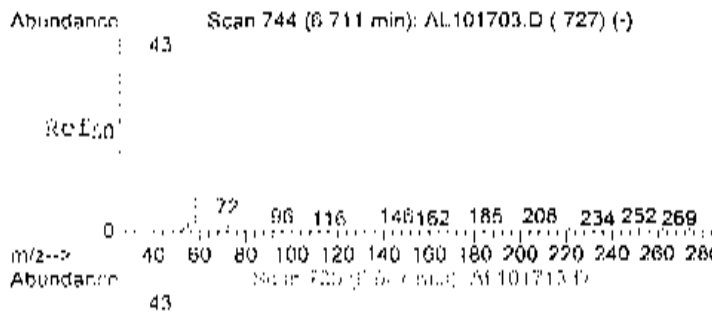
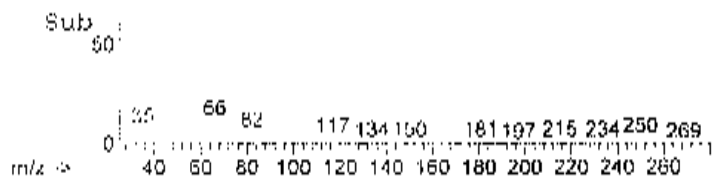
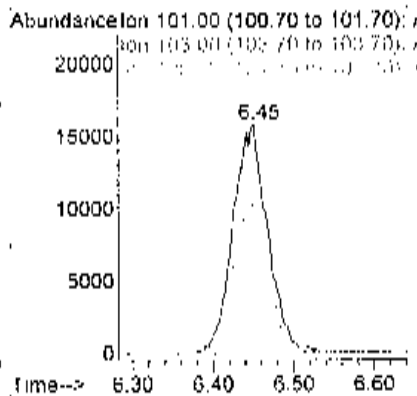
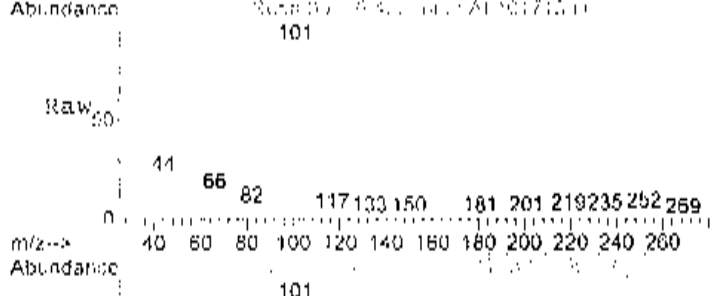
Tgt Ion	Resp	Lower	Upper
50	100		
52	36.0	7.4	47.4





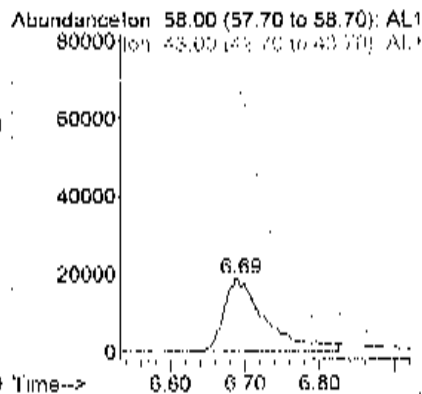
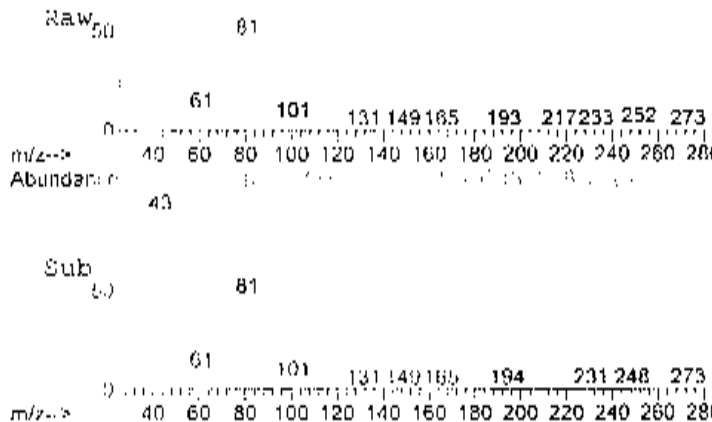
#15
 Freon 11
 Concen: 0.33 ppb
 RT: 6.45 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

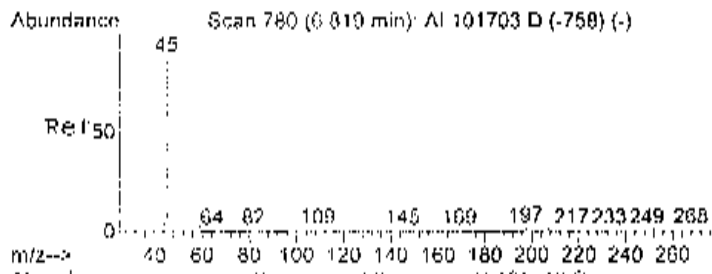
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.2	45.8	85.8
105	10.6	0.0	31.2



#16
 Acetone
 Concen: 7.14 ppb
 RT: 6.69 min Scan# 736
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

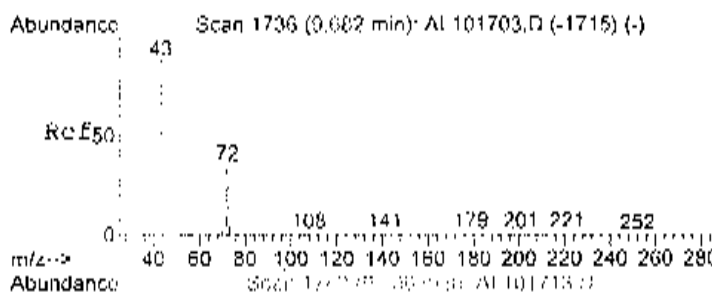
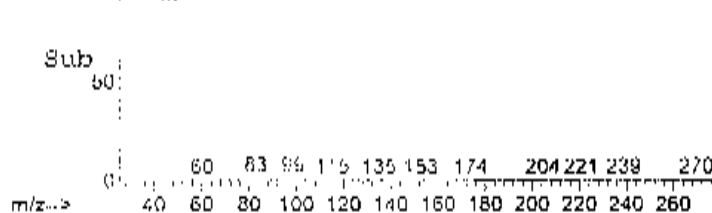
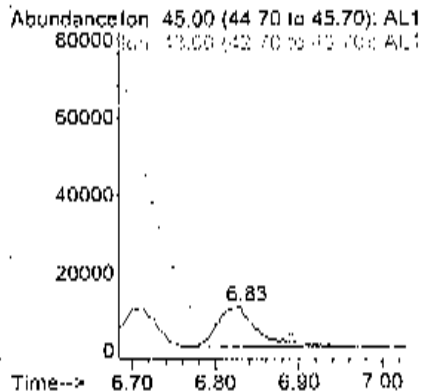
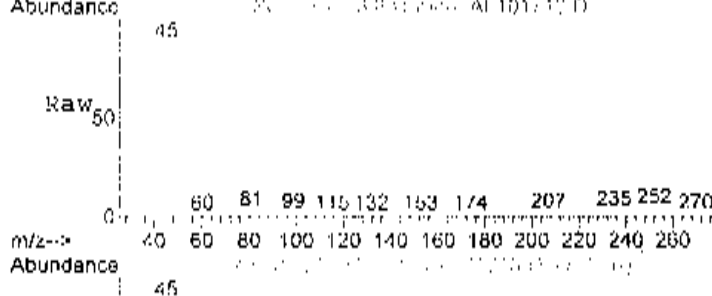
Tgt Ion	Ratio	Lower	Upper
58	100		
43	398.1	514.7	574.7#





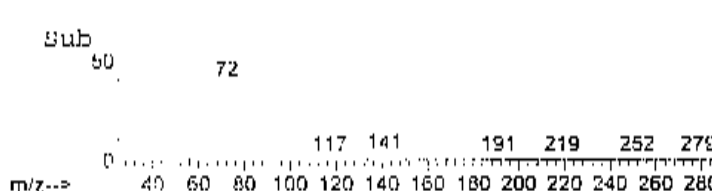
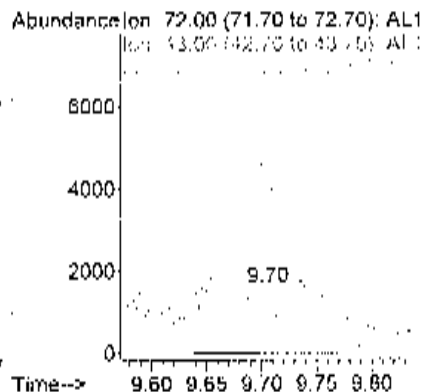
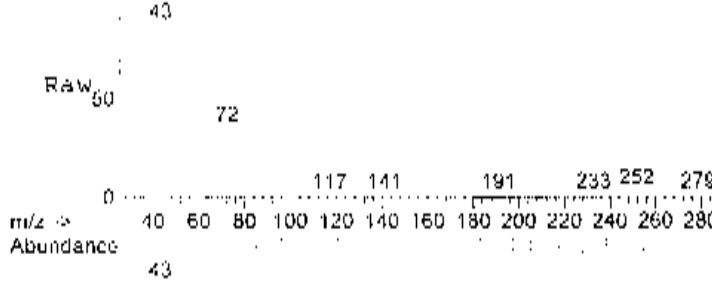
#18
 Isopropyl alcohol
 Concent: 0.01 ppb
 RT: 6.83 min Scan# 784
 Delta R.T. 0.03 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

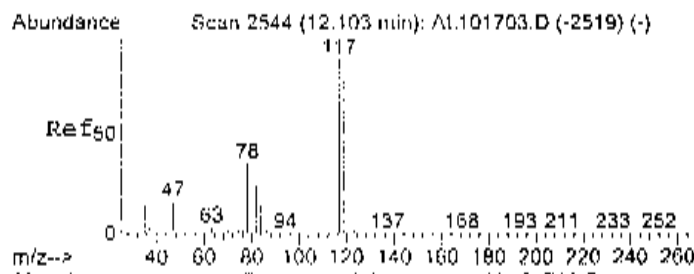
Tgt Ion	Resp	Lower	Upper
45	100		
43	0.0	0.0	20.0



#29
 Methyl Ethyl Ketone
 Concent: 0.34 ppb
 RT: 9.70 min Scan# 1742
 Delta R.T. 0.03 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

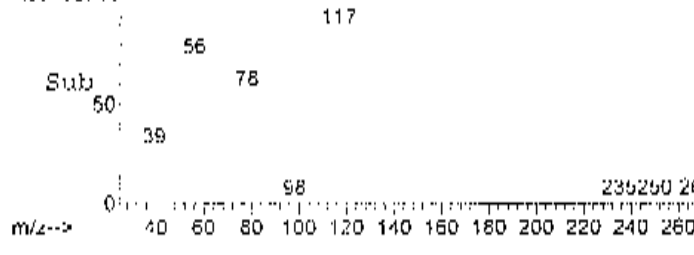
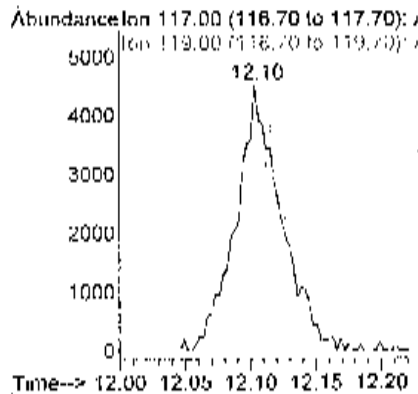
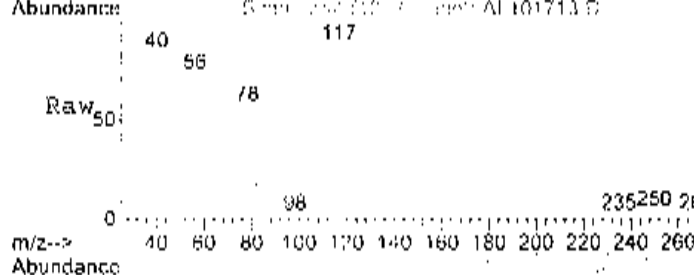
Tgt Ion	Resp	Lower	Upper
72	100		
43	474.9	530.5	570.5#
72	100.0	80.0	120.0





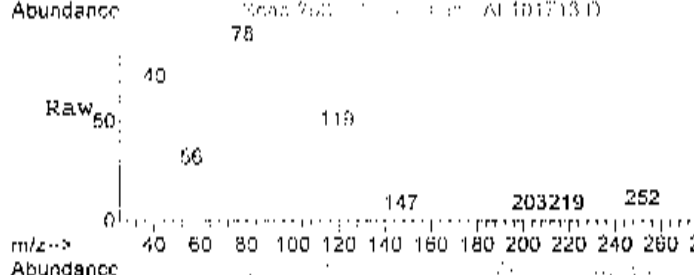
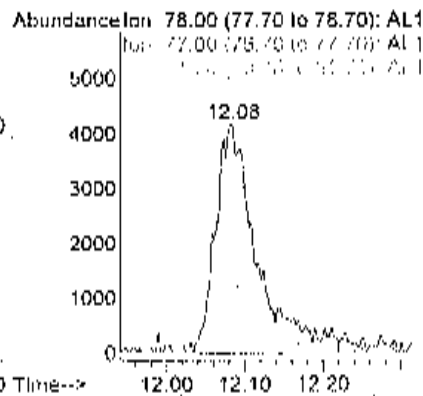
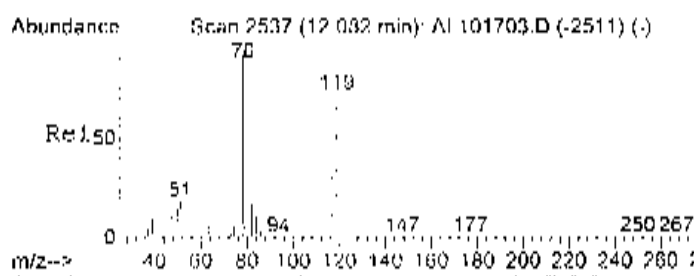
#39
 Carbon tetrachloride
 Concent: 0.09 ppb
 RT: 12.10 min Scan# 2544
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

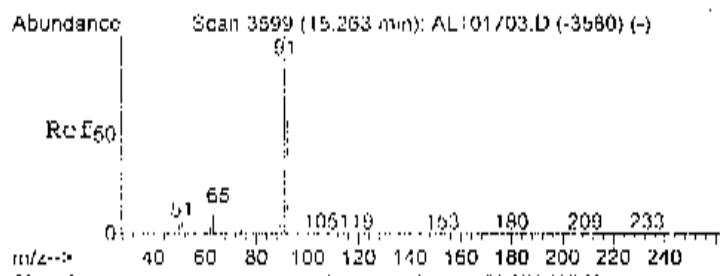
Tgt Ion	Resp	Lower	Upper
117	10823		
119	106.7	77.3	117.3



#40
 Benzene
 Concent: 0.13 ppb
 RT: 12.08 min Scan# 2537
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

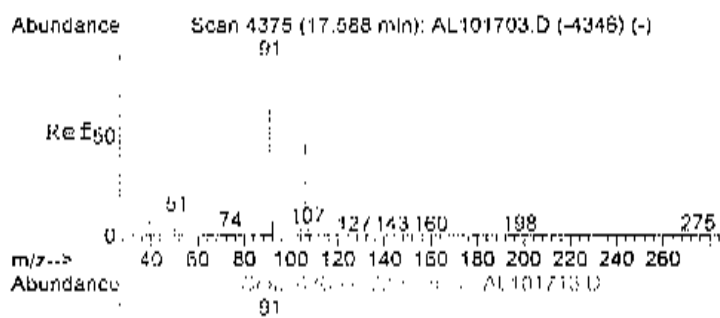
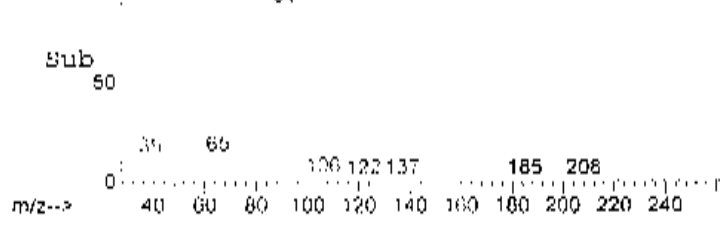
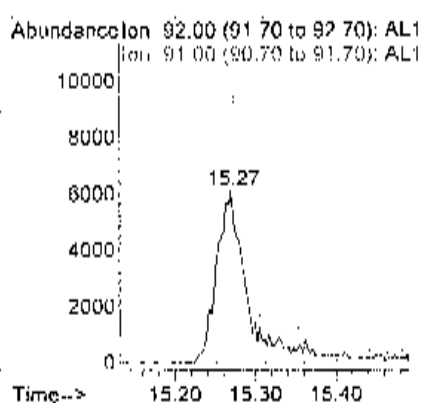
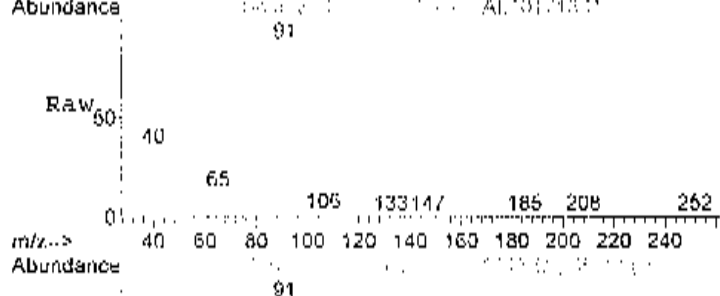
Tgt Ion	Resp	Lower	Upper
78	15372		
77	28.3	3.6	43.6
51	19.9	0.0	36.3





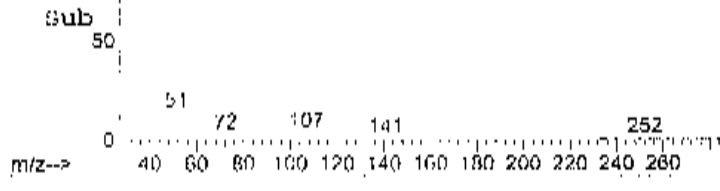
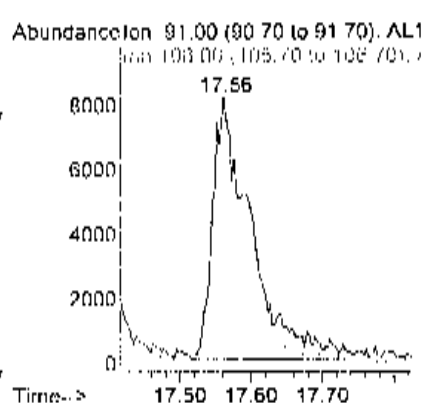
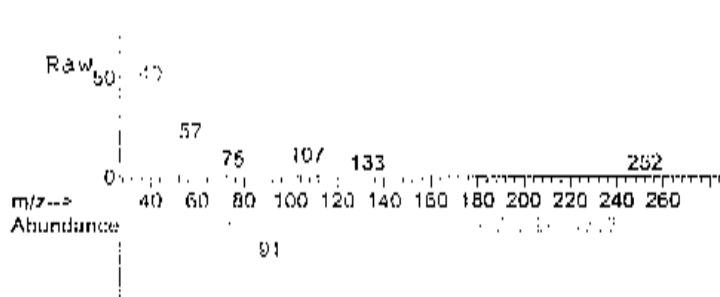
#52
 Toluene
 Concen: 0.24 ppb
 RT: 15.27 min Scan# 3601
 Delta R.T. 0.01 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

Tgt Ion	92	Resp	16276
Ion Ratio	Lower	Upper	
92	100		
91	178.7	154.2	194.2



#61
 m&p xylene
 Concen: 0.27 ppb
 RT: 17.56 min Scan# 4366
 Delta R.T. -0.02 min
 Lab File: AL101713.D
 Acq: 17 Oct 2014 7:13 pm

Tgt Ion	91	Resp	30387
Ion Ratio	Lower	Upper	
91	100		
106	50.3	29.2	69.2



Data File : C:\HPCHEM\1\DATA\AL101724.D Vial: 8
 Acq On : 18 Oct 2014 2:08 am Operator: RJP
 Sample : C1410057-007A 5X Inst : MSD #1
 Misc : A910 1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:58 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	26548	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.73	114	98996	1.00	ppb	0.01
51) Chlorobenzene-d5	17.12	117	72669	1.00	ppb	0.00

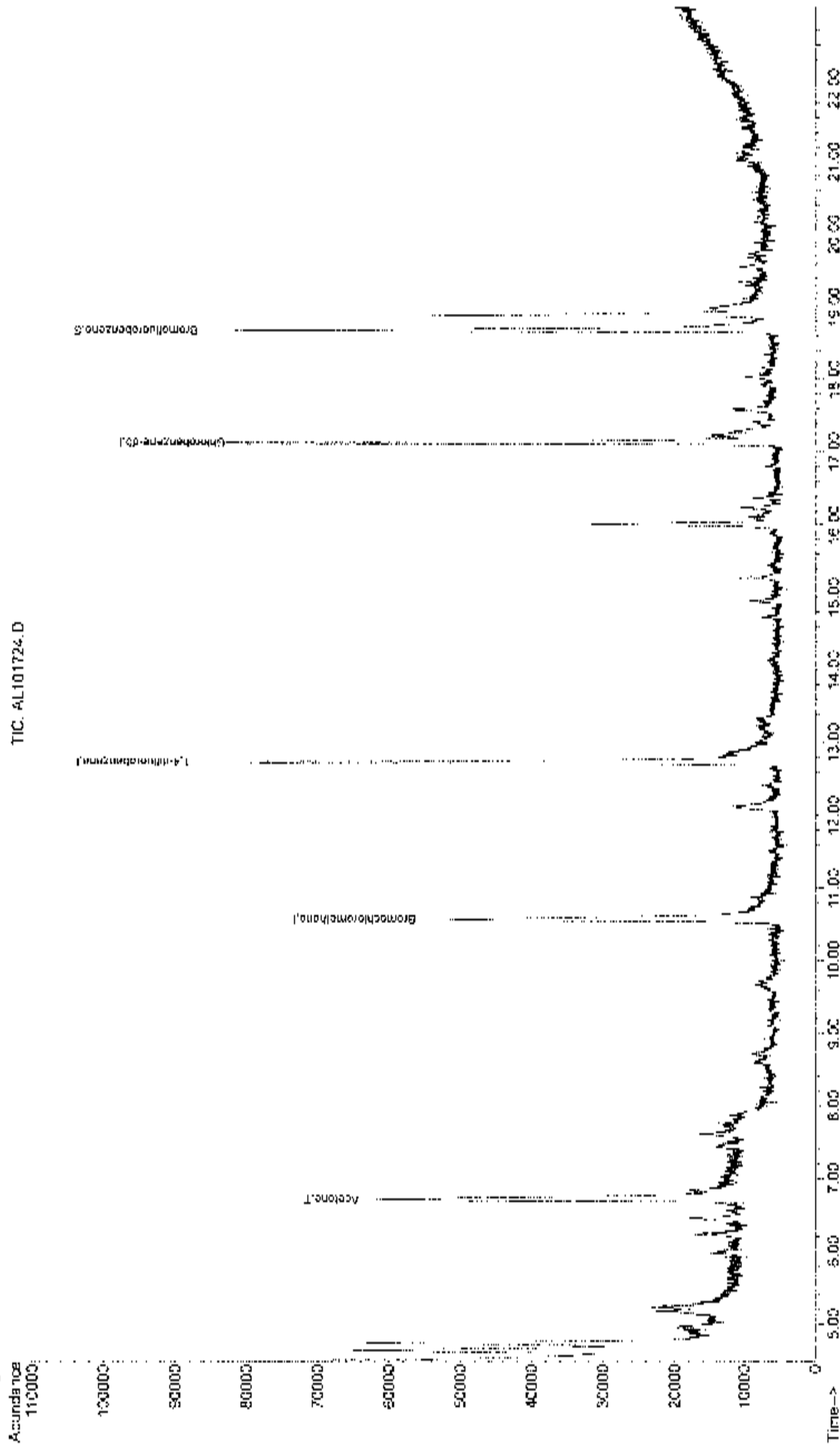
System Monitoring Compounds						
67) Bromofluorobenzene	18.68	95	39141m <i>FD</i>	0.76	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	-	76.00%

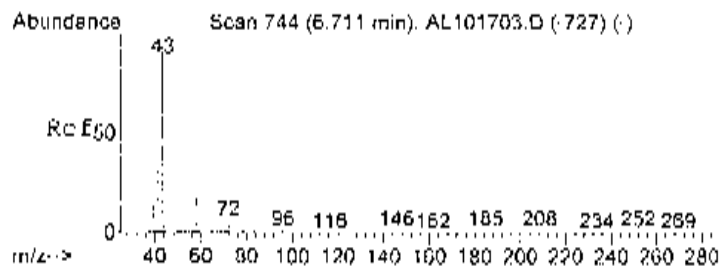
Target Compounds						Qvalue
16) Acetone	6.70	58	17508	1.99	ppb	# 50

Data File : C:\HPCHEM\1\DATA\AL1C1724.D
Acq On : 18 Oct 2014 2:08 am
Sample : C1410057-007A 5X
Misc : A910 IUG
MS Integration Params: RESINT.P
Quant Time: Oct 20 14:15 2014

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplier: 1.00
Quant Results File: A910_IUG.RES

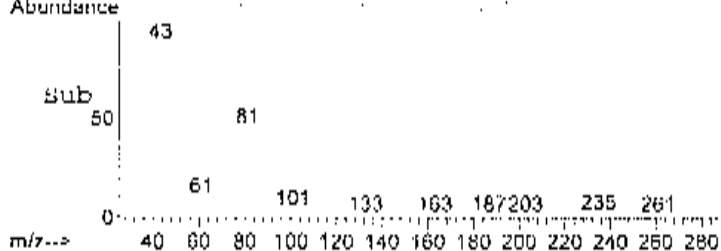
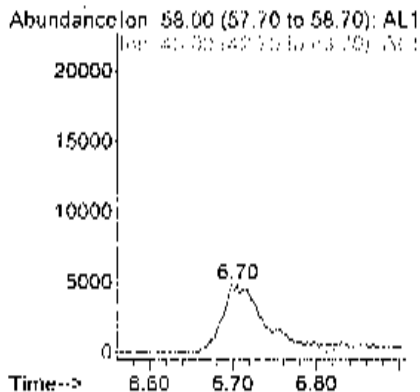
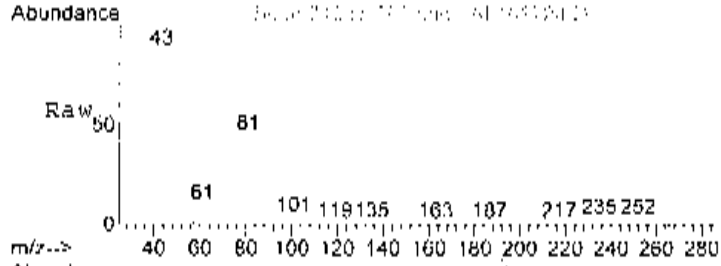
Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RES Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration





#16
 Acetone
 Concn: 1.99 ppb
 RT: 6.70 min Scan# 740
 Delta R.T. 0.02 min
 Lab File: AL101724.D
 Acq: 18 Oct 2014 2:08 am

Tgt Ion	58	Resp	17508
Ion Ratio	Lower	Upper	
58	100		
43	398.5	514.7	574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	2.4	1.5		ppbV	10	10/18/2014 4:45:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2,4-Trimethylbenzene	3.4	1.5		ppbV	10	10/18/2014 4:45:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 9:50:00 PM
2,2,4-trimethylpentane	0.47	0.15		ppbV	1	10/17/2014 9:50:00 PM
4-ethyltoluene	1.3	0.15		ppbV	1	10/17/2014 9:50:00 PM
Acetone	1100	240		ppbV	810	10/21/2014 9:25:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Benzene	3.4	1.5		ppbV	10	10/18/2014 4:45:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Carbon disulfide	2.9	1.5		ppbV	10	10/18/2014 4:45:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chloroethane	0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chloroform	0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Cyclohexane	2.7	1.5		ppbV	10	10/18/2014 4:45:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	1.8	0.15		ppbV	1	10/17/2014 9:50:00 PM
Freon 11	2.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Freon 113	0.10	0.15	J	ppbV	1	10/17/2014 9:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Freon 12	0.46	0.15		ppbV	1	10/17/2014 9:50:00 PM
Heptane	4.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Hexane	5.1	1.5		ppbV	10	10/18/2014 4:45:00 AM
isopropyl alcohol	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
m&p-Xylene	5.0	3.0		ppbV	10	10/18/2014 4:45:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 9:50:00 PM
Methyl Ethyl Ketone	4.7	3.0		ppbV	10	10/18/2014 4:45:00 AM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	10/17/2014 9:50:00 PM
Methyl tert-butyl ether	2.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Methylene chloride	0.16	0.15		ppbV	1	10/17/2014 9:50:00 PM
o-Xylene	1.3	0.15		ppbV	1	10/17/2014 9:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Styrene	1.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Tetrachloroethylene	10	1.5		ppbV	10	10/18/2014 4:45:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Toluene	6.2	1.5		ppbV	10	10/18/2014 4:45:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Trichloroethene	3.6	1.5		ppbV	10	10/18/2014 4:45:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 9:50:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31 Oct 14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1 UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
1,1,1-Trichloroethane	13	8.2		ug/m3	10	10/18/2014 4:45:00 AM
1,1,1,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 9:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 9:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 9:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 9:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 9:50:00 PM
1,2,4-Trimethylbenzene	17	7.4		ug/m3	10	10/18/2014 4:45:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 9:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 9:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 9:50:00 PM
1,3,5-Trimethylbenzene	8.2	0.74		ug/m3	1	10/17/2014 9:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 9:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 9:50:00 PM
2,2,4-trimethylpentane	2.2	0.70		ug/m3	1	10/17/2014 9:50:00 PM
4-ethyltoluene	6.3	0.74		ug/m3	1	10/17/2014 9:50:00 PM
Acetone	2600	570		ug/m3	810	10/21/2014 5:26:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 9:50:00 PM
Benzene	11	4.8		ug/m3	10	10/18/2014 4:45:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 9:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 9:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 9:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 9:50:00 PM
Carbon disulfide	9.0	4.7		ug/m3	10	10/18/2014 4:45:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/17/2014 9:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 9:50:00 PM
Chloroethane	0.42	0.40		ug/m3	1	10/17/2014 9:50:00 PM
Chloroform	0.73	0.73		ug/m3	1	10/17/2014 9:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/17/2014 9:50:00 PM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	10/17/2014 9:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 9:50:00 PM
Cyclohexane	9.3	5.2		ug/m3	10	10/18/2014 4:45:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 9:50:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 9:50:00 PM
Ethylbenzene	7.7	0.65		ug/m3	1	10/17/2014 9:50:00 PM
Freon 11	15	8.4		ug/m3	10	10/18/2014 4:45:00 AM
Freon 113	0.77	1.1	J	ug/m3	1	10/17/2014 9:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 D Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-008A

Client Sample ID: SS-1014
 Tag Number: 233
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
4UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Freon 12	2.3	0.74		ug/m3	1	10/17/2014 9:50:00 PM
Heptane	19	6.1		ug/m3	10	10/18/2014 4:45:00 AM
Hexachloro 1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 9:50:00 PM
Hexane	18	5.3		ug/m3	10	10/18/2014 4:45:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/17/2014 9:50:00 PM
m&p-Xylene	22	13		ug/m3	10	10/18/2014 4:45:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 9:50:00 PM
Methyl Ethyl Ketone	14	8.8		ug/m3	10	10/18/2014 4:45:00 AM
Methyl Isobutyl Ketone	6.7	1.2		ug/m3	1	10/17/2014 9:50:00 PM
Methyl tert-butyl ether	9.4	5.4		ug/m3	10	10/18/2014 4:45:00 AM
Methylene chloride	0.56	0.52		ug/m3	1	10/17/2014 9:50:00 PM
o-Xylene	5.5	0.65		ug/m3	1	10/17/2014 9:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 9:50:00 PM
Styrene	6.8	6.4		ug/m3	10	10/18/2014 4:45:00 AM
Tetrachloroethylene	69	10		ug/m3	10	10/18/2014 4:45:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 9:50:00 PM
Toluene	23	5.7		ug/m3	10	10/18/2014 4:45:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 9:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/17/2014 9:50:00 PM
Trichloroethene	19	8.1		ug/m3	10	10/18/2014 4:45:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 9:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 9:50:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/17/2014 9:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 J Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101717.D Vial: 1
 Acq On : 17 Oct 2014 9:50 pm Operator: RJP
 Sample : 01410057-008A Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:51 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Mth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	128	38887	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.71	114	156257	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	187168	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
67) Bromofluorobenzene	18.67	95	129783	0.98	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Freon 12	4.68	85	87356	0.46	ppb	99
11) Chloroethane	5.79	64	2804	0.16	ppb	93
15) Freon 11	6.44	101	447109	2.47	ppb	98
16) Acetone	6.62	58	7194301m	557.53	ppb	
20) Freon 113	7.43	101	12441	0.10	ppb	95
22) Methylene chloride	7.73	84	5237	0.16	ppb	94
24) Carbon disulfide	7.89	76	419603	3.39	ppb	98
26) methyl tert-butyl ether	8.70	73	423677	3.50	ppb	# 57
29) Methyl Ethyl Ketone	9.62	72	144870	8.00	ppb	# 84
31) Hexane	9.64	57	549061	7.37	ppb	89
33) Chloroform	10.70	83	21310	0.15	ppb	89
37) 1,1,1-trichloroethane	11.50	97	321490	2.51	ppb	99
38) Cyclohexane	12.15	56	146696m	2.27	ppb	
40) Benzene	12.08	78	606884	3.97	ppb	92
43) 2,2,4-trimethylpentane	12.84	57	93067	0.47	ppb	# 1
44) Heptane	13.17	43	437011	6.81	ppb	89
45) Trichloroethene	13.31	130	320714	4.36	ppb	99
52) Toluene	15.26	92	945927	7.30	ppb	99
53) Methyl Isobutyl Ketone	14.40	43	160104	1.63	ppb	91
57) Tetrachloroethylene	16.23	164	1105854	9.69	ppb	100
60) Ethylbenzene	17.39	91	485830	1.78	ppb	98
61) m&p-xylene	17.55	91	1126614	5.24	ppb	98
63) Styrene	18.00	104	356295	2.40	ppb	100
65) o-xylene	18.03	91	348051	1.26	ppb	97
71) 4-ethyltoluene	19.22	105	335359	1.29	ppb	# 100
72) 1,3,5-trimethylbenzene	19.28	105	519748	1.67	ppb	# 100
73) 1,2,4-trimethylbenzene	19.71	105	1346564	6.00	ppb	99

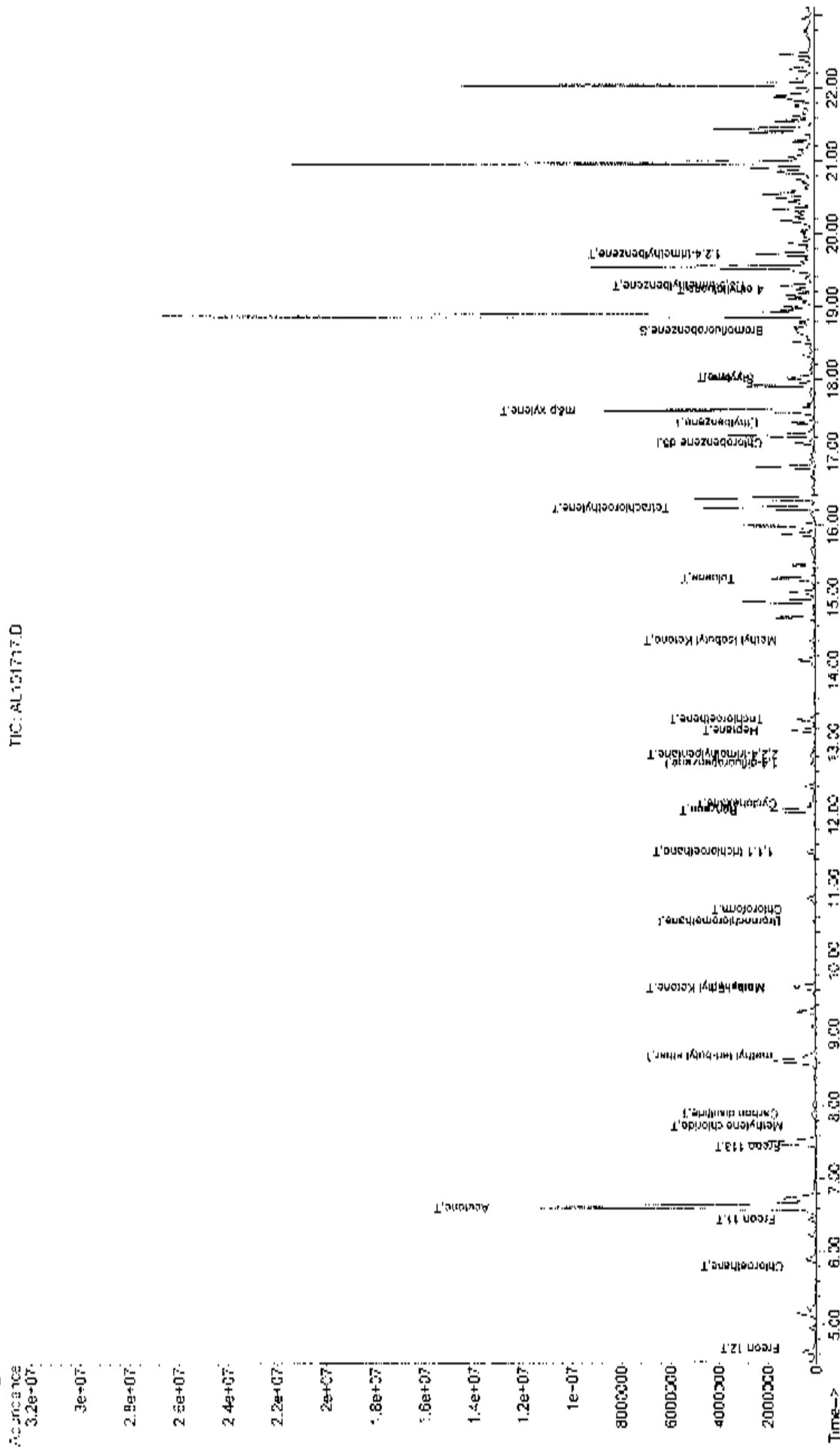
Quantitation Report (V1 reviewed)

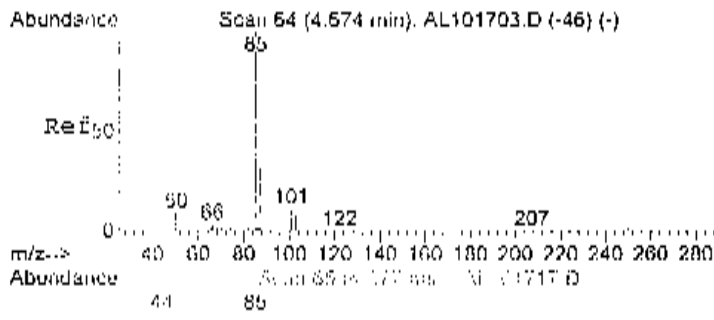
Data File : C:\B2CHEM\1\DATA\AL101717.D
 Acq On : 17 Oct 2014 9:50 pm
 Sample : C1416057-008A
 Misc : A910 IUG
 MS Integration Params: KTSINT.P
 Quant time: 00:00:00.000

Quant Results File: A910_IUG.RES

Method : C:\MSDCHEM\1\DATA\A910_IUG.M (FTE Integrator)
 Title : 10-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:29 2014
 Response via : Initial Calibration

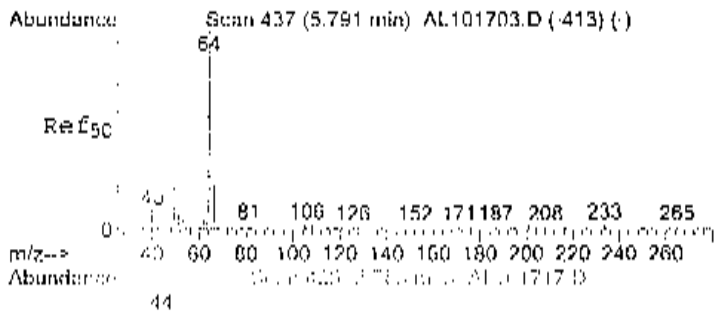
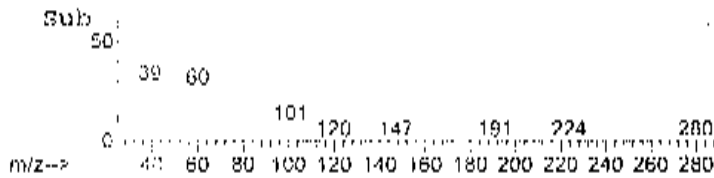
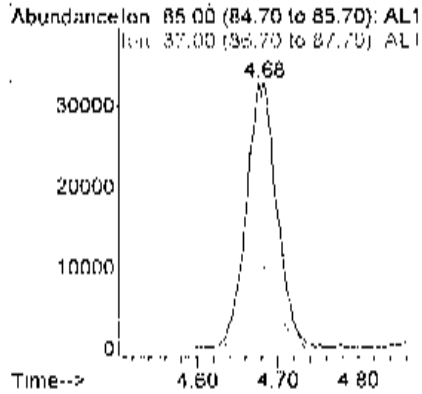
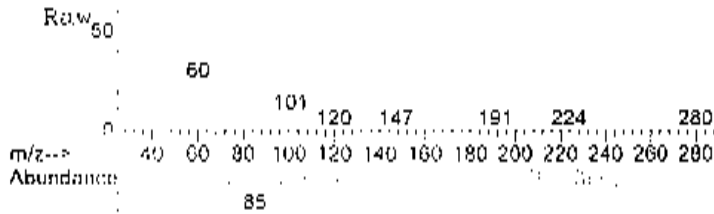
TIC: AL101717.D





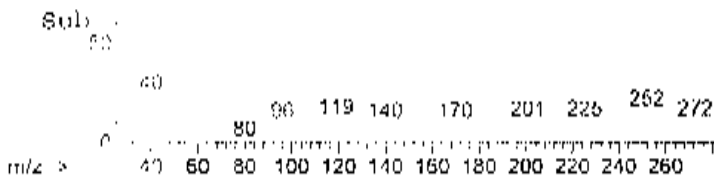
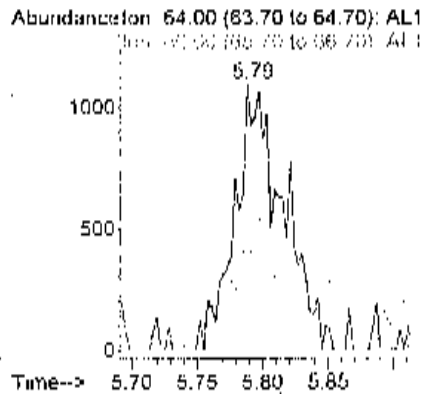
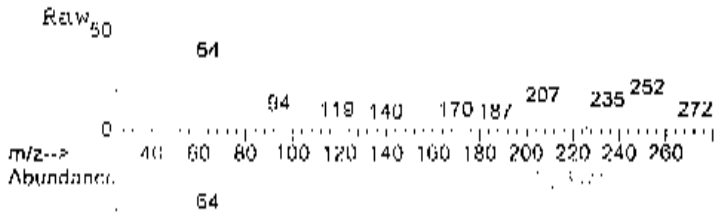
#4
 Freon 12
 Concen: 0.46 ppb
 RT: 4.68 min Scan# 65
 Delta R.T. 0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

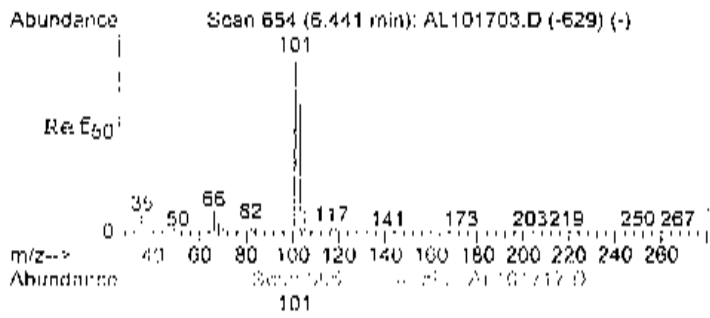
Tgt Ion	Resp	Lower	Upper
85	100		
87	32.7	12.1	52.1



#11
 Chloroethane
 Concen: 0.16 ppb
 RT: 5.79 min Scan# 436
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

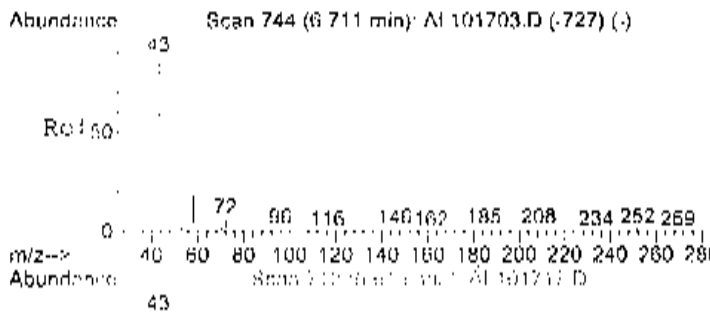
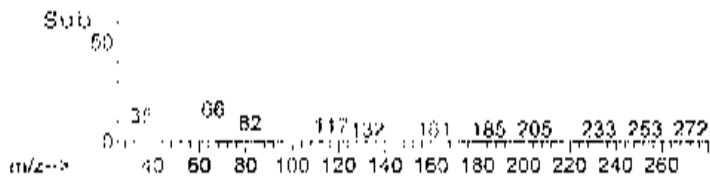
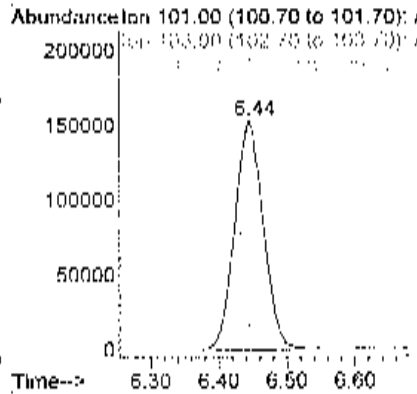
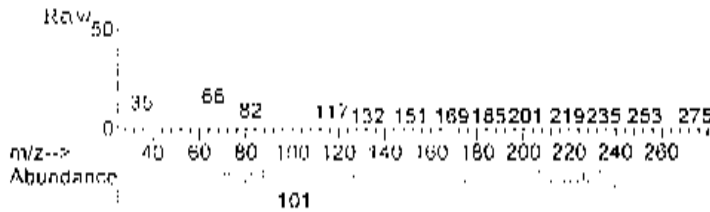
Tgt Ion	Resp	Lower	Upper
64	100		
66	50.1	36.5	54.7





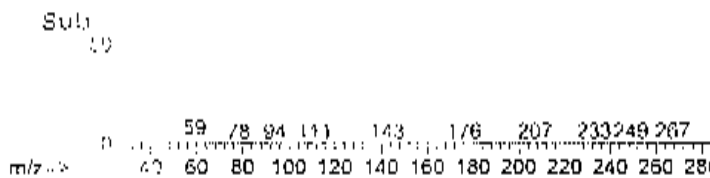
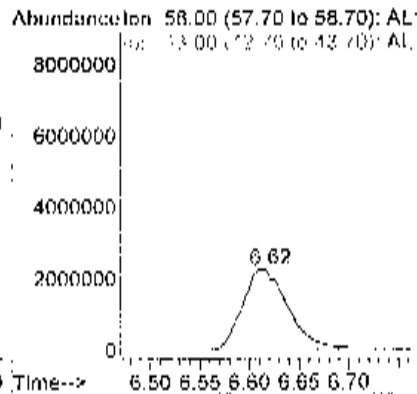
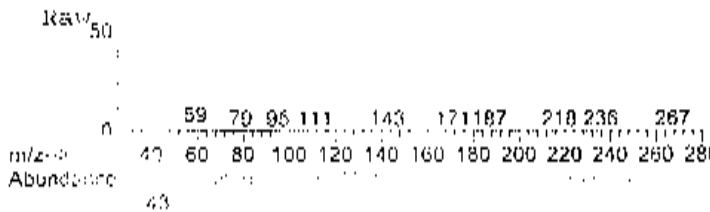
#15
 Freon 11
 Concent: 2.47 ppb
 RT: 6.44 min Scan# 655
 Delta R.T. 0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

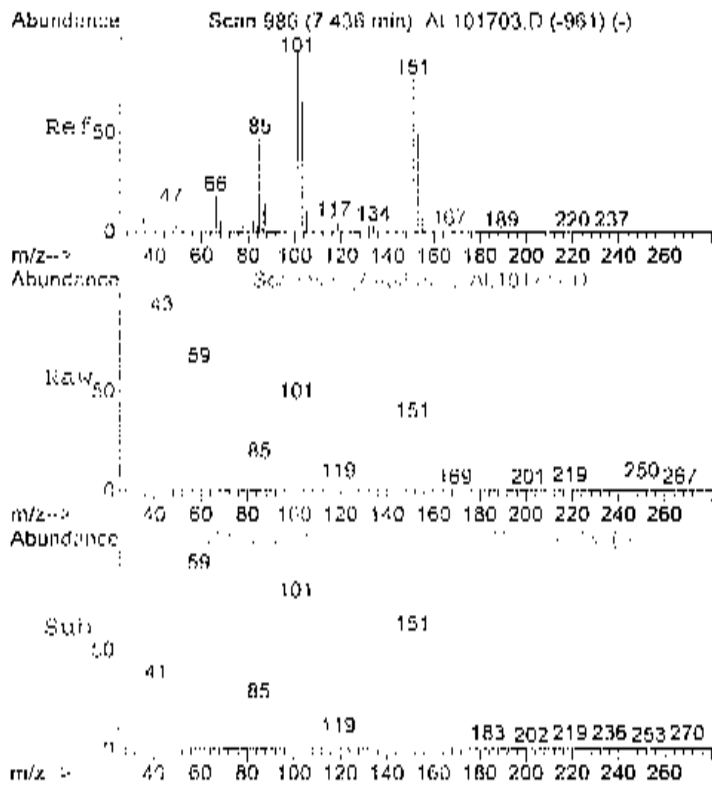
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.3	45.8	85.8
105	10.5	0.0	31.2



#16
 Acetone
 Concent: 557.53 ppb m
 RT: 6.62 min Scan# 712
 Delta R.T. 0.06 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

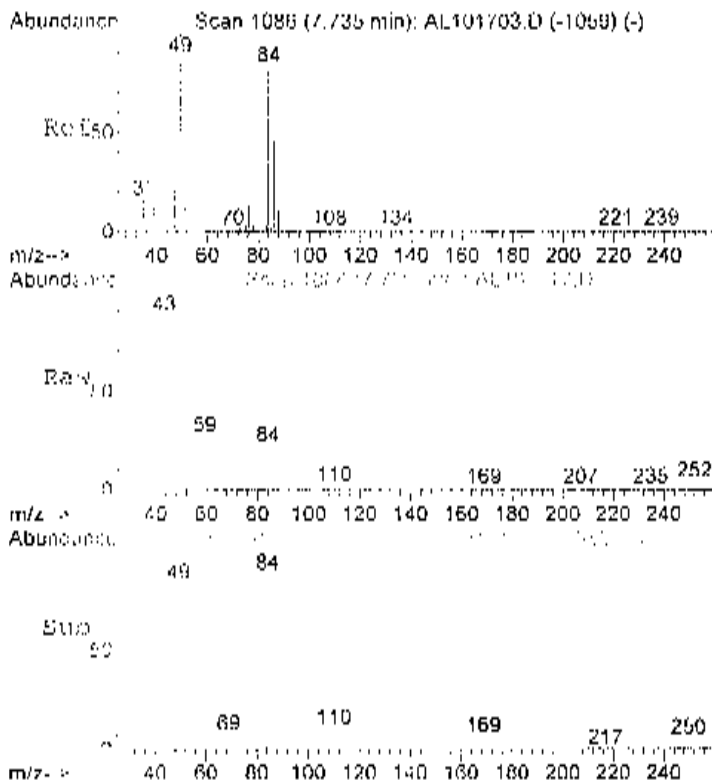
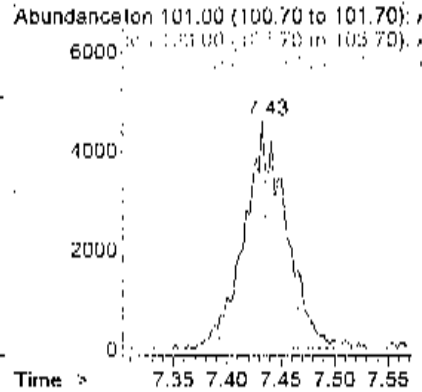
Tgt Ion	Ratio	Lower	Upper
58	100		
43	368.4	514.7	574.7#





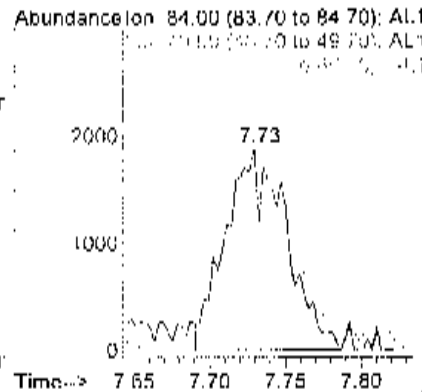
#20
 Freon 113
 Concen: 0.10 ppb
 RT: 7.43 min Scan# 985
 Delta R.T. 0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

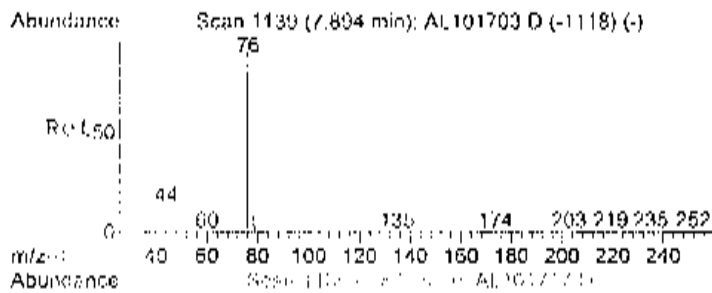
Tgt Ion	Resp	Lower	Upper
101	12441		
103	61.1	45.4	85.4
151	90.7	75.1	115.1



#22
 Methylene chloride
 Concen: 0.16 ppb
 RT: 7.73 min Scan# 1084
 Delta R.T. 0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

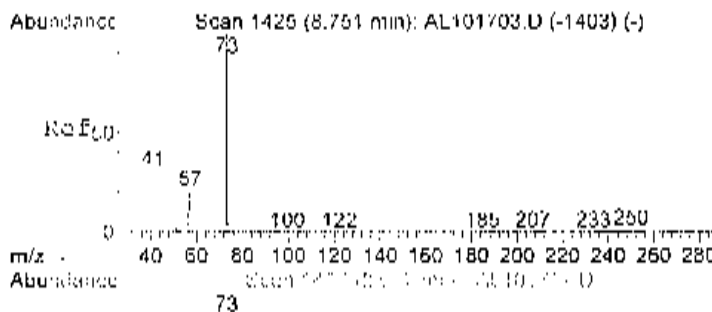
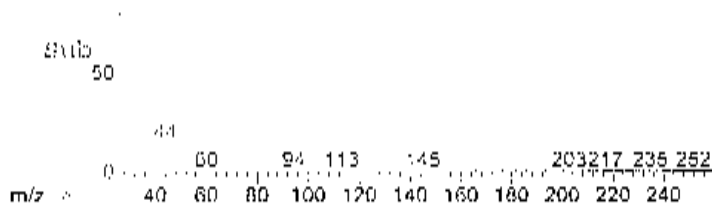
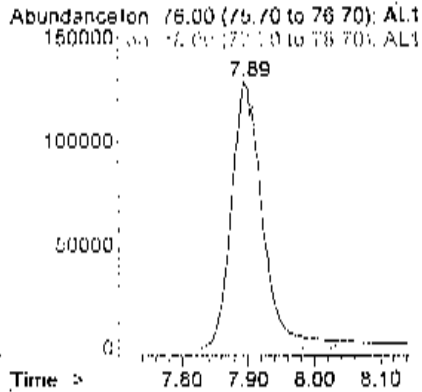
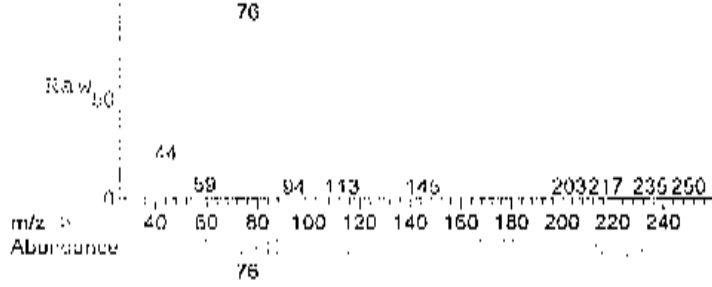
Tgt Ion	Resp	Lower	Upper
84	5237		
49	131.9	118.1	158.1
86	68.8	56.4	96.4





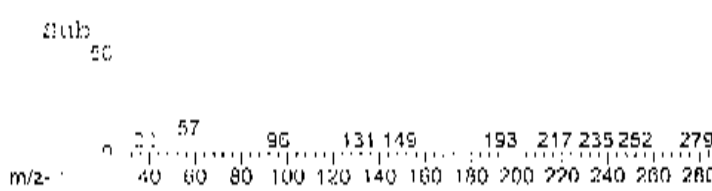
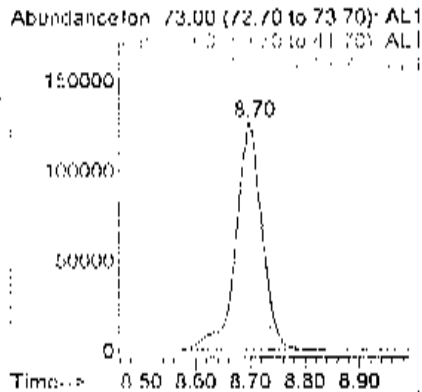
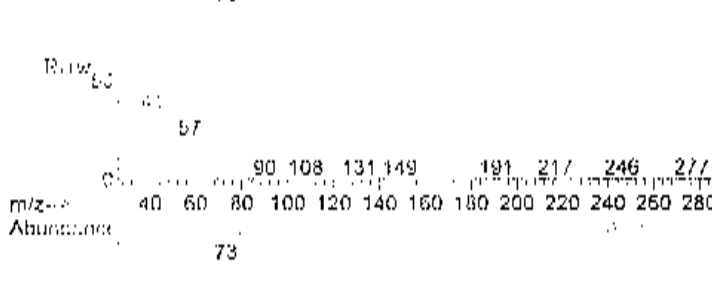
#24
 Carbon disulfide
 Concen: 3.39 ppb
 RT: 7.89 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

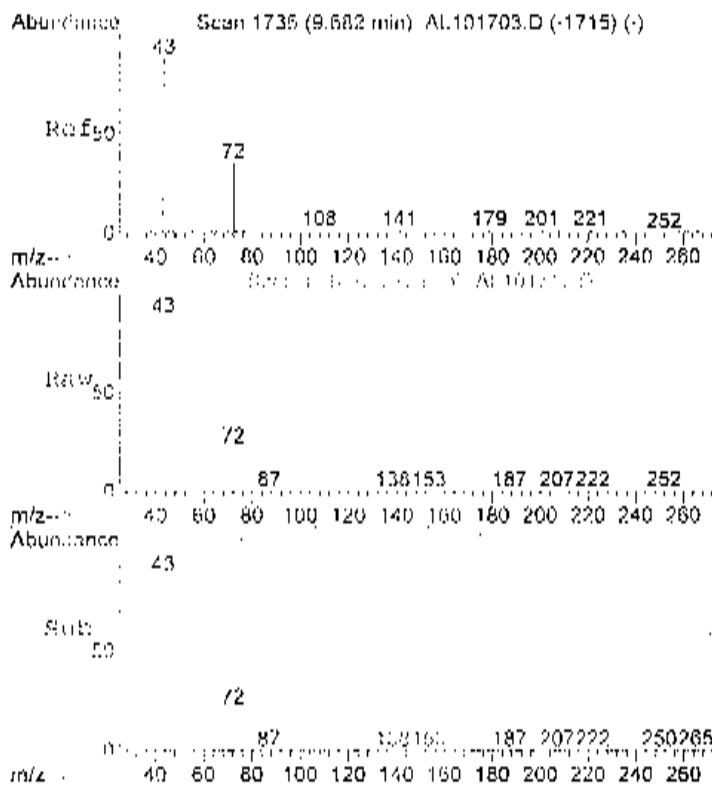
Tgt Ion	Resp	Lower	Upper
76	419603		
78	9.7	0.0	29.1



#26
 methyl tert-butyl ether
 Concen: 3.50 ppb
 RT: 8.70 min Scan# 1407
 Delta R.T. -0.04 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

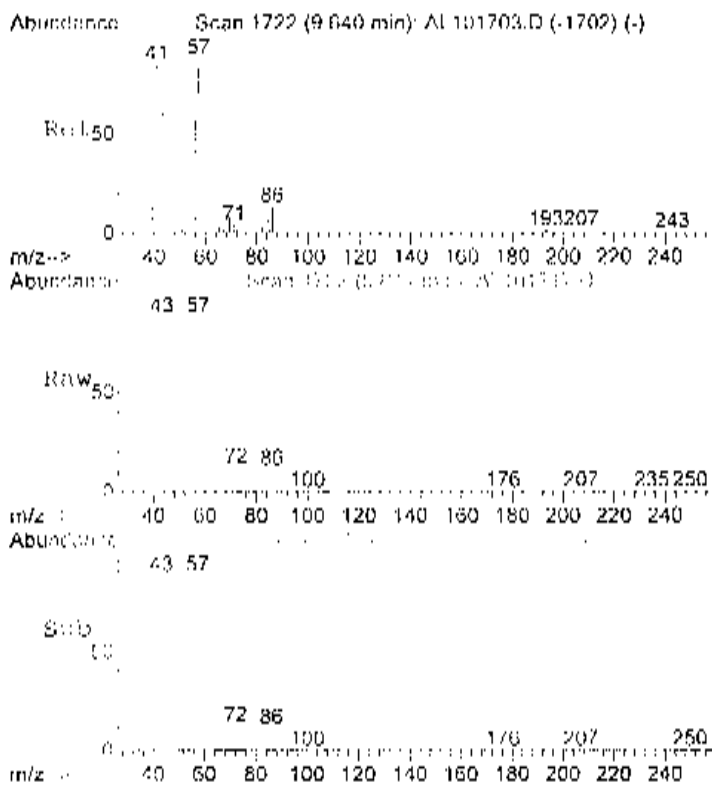
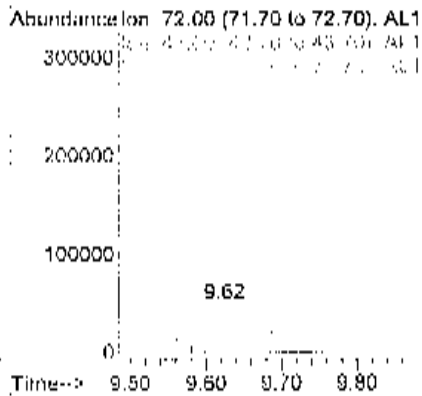
Tgt Ion	Resp	Lower	Upper
73	423677		
41	0.0	1.5	41.5#
53	0.0	0.0	21.6





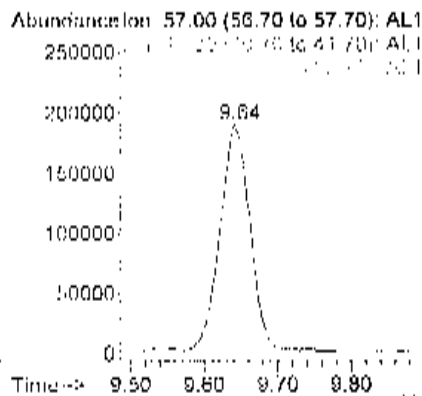
#29
Methyl Ethyl Ketone
Concn: 8.00 ppb
RT: 9.62 min Scan# 1714
Delta R.T. -0.05 min
Lab File: AL101717.D
Acq: 17 Oct 2014 9:50 pm

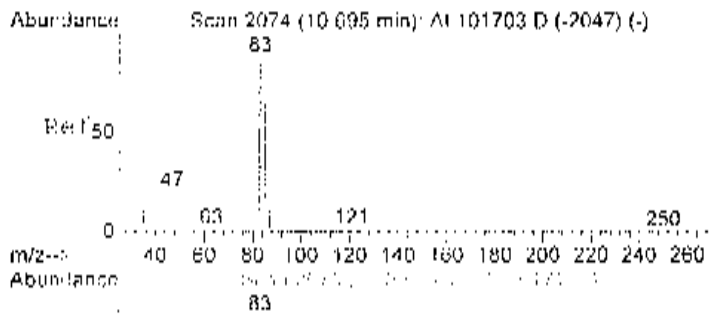
Tgt Ion	Resp	Lower	Upper
72	144870		
43	606.8	530.5	570.5#
72	100.0	80.0	120.0



#31
Hexane
Concn: 7.37 ppb
RT: 9.64 min Scan# 1722
Delta R.T. -0.00 min
Lab File: AL101717.D
Acq: 17 Oct 2014 9:50 pm

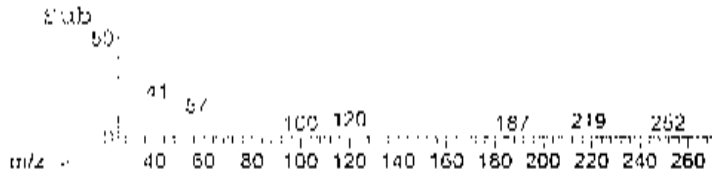
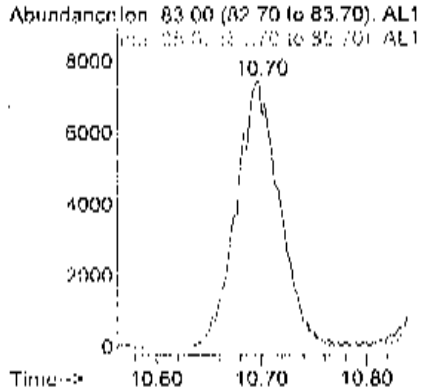
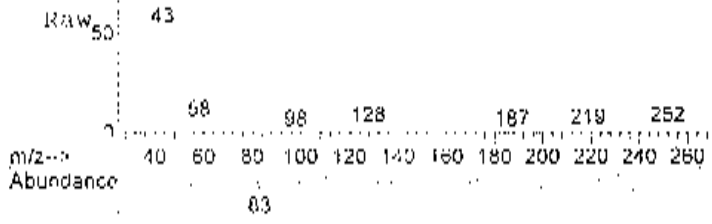
Tgt Ion	Resp	Lower	Upper
57	549061		
41	79.8	45.2	85.2
56	50.0	29.0	69.0





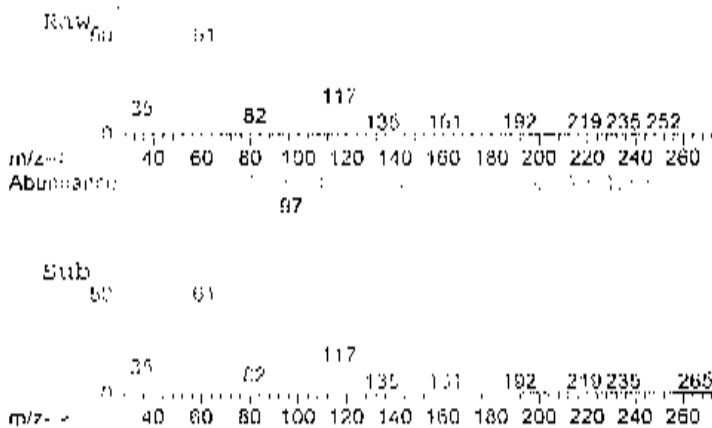
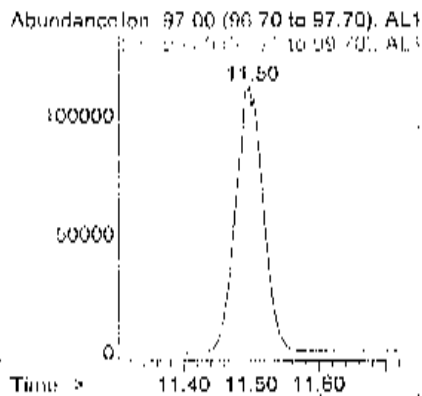
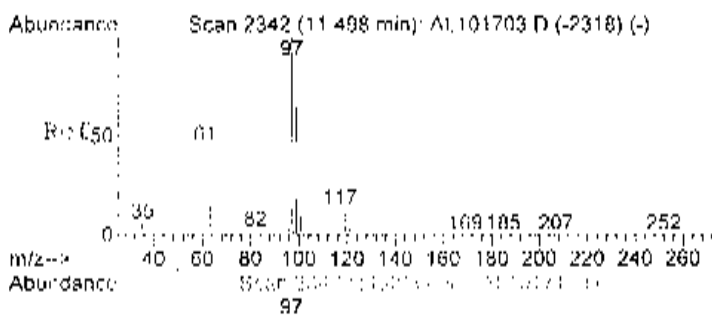
#33
 Chloroform
 Concen: 0.15 ppb
 RT: 10.70 min Scan# 2075
 Delta R.T. 0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

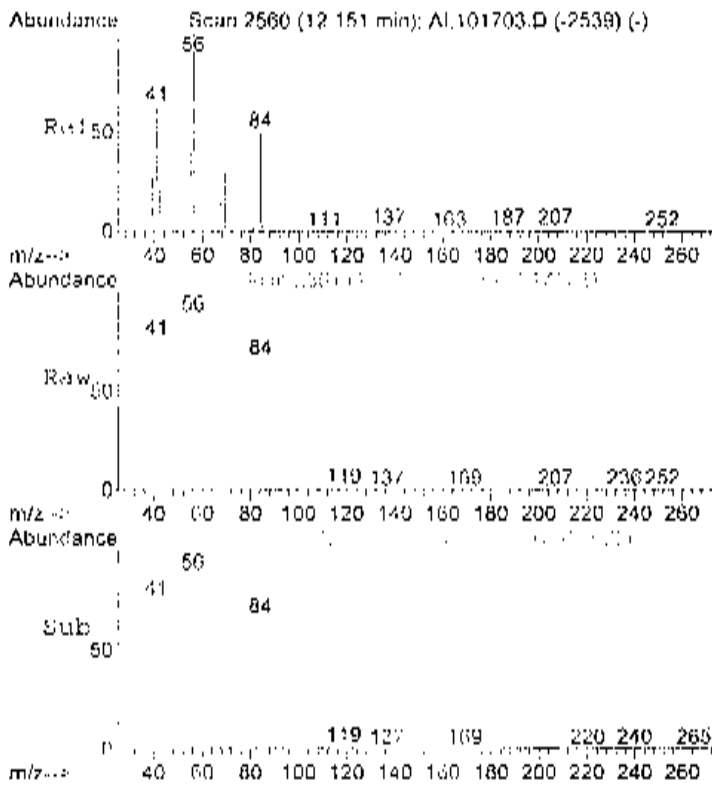
Tgt Ion	Resp	Lower	Upper
83	21310		
85	73.4	44.9	84.9



#37
 1,1,1-trichloroethane
 Concen: 2.51 ppb
 RT: 11.50 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

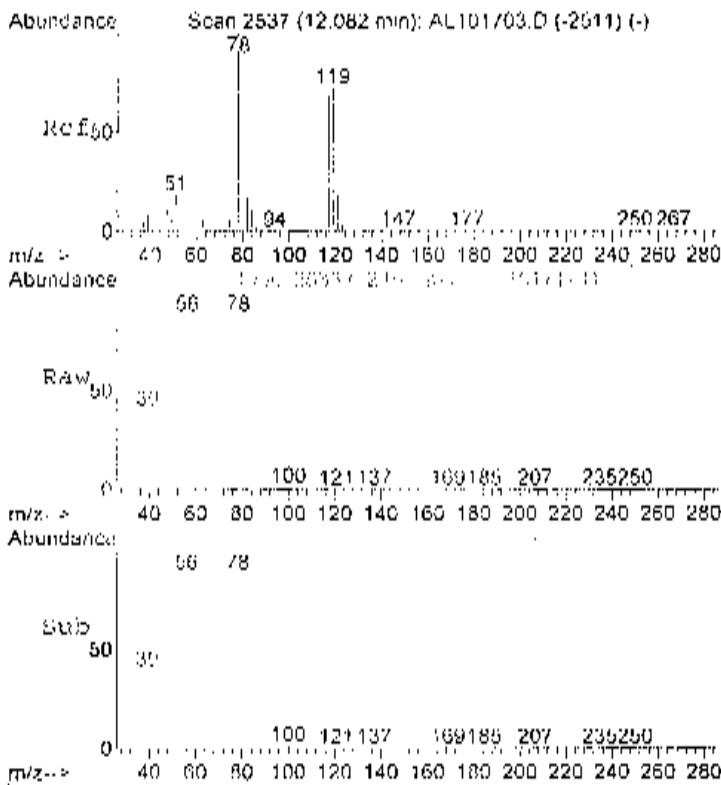
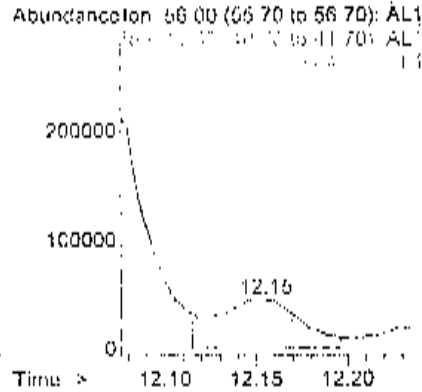
Tgt Ion	Resp	Lower	Upper
97	321490		
99	64.1	43.6	83.6





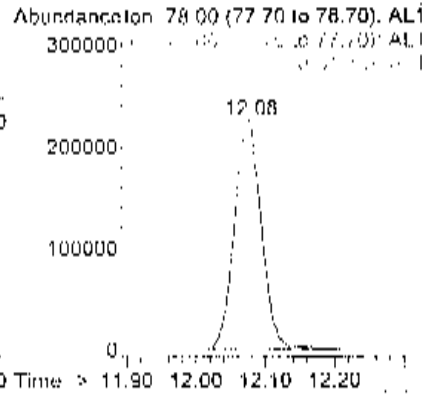
#38
 Cyclohexane
 Concen: 2.27 ppb m
 RT: 12.15 min Scan# 2561
 Delta R.T. 0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

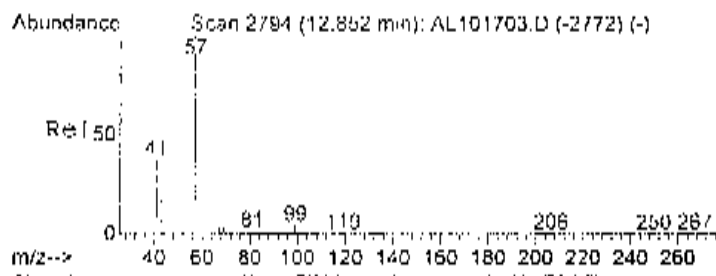
Tgt Ion	Resp	Lower	Upper
56	146696		
41	751.5	34.6	74.6#
84	0.0	84.9	124.9#



#40
 Benzene
 Concen: 3.97 ppb
 RT: 12.08 min Scan# 2535
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

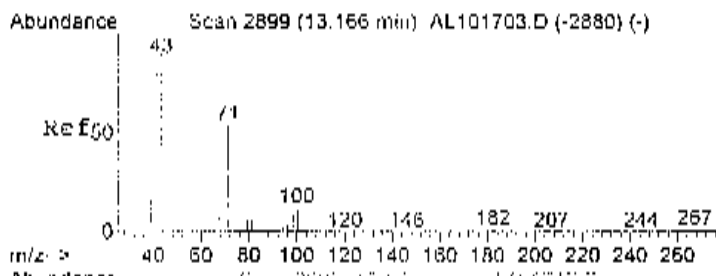
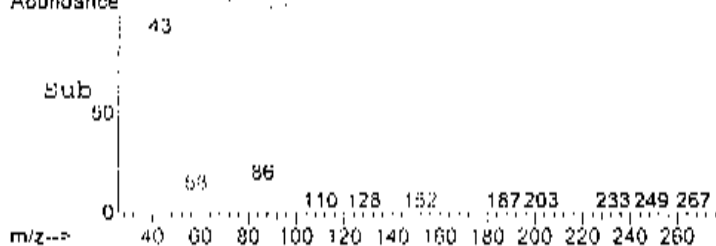
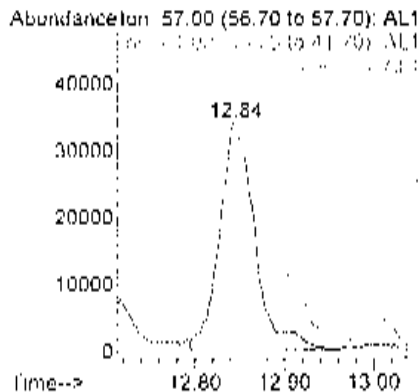
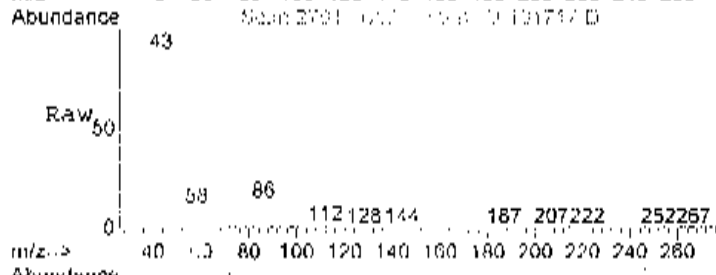
Tgt Ion	Resp	Lower	Upper
78	606864		
77	24.3	3.6	43.6
51	23.7	0.0	36.3





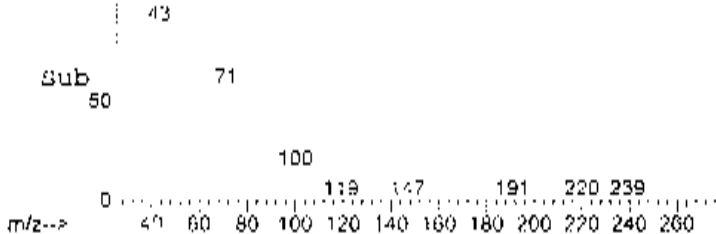
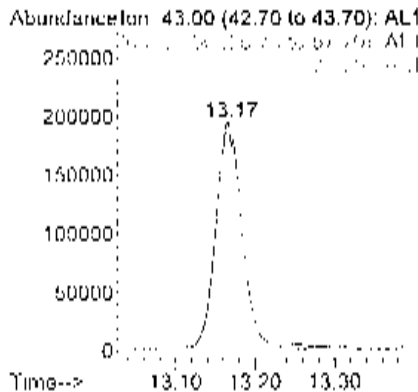
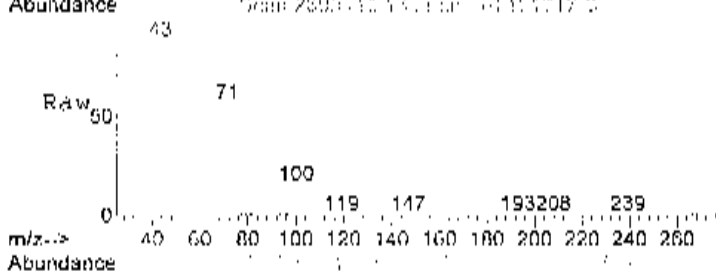
#43
 2,2,4-trimethylpentane
 Concen: 0.47 ppb
 RT: 12.84 min Scan# 2791
 Delta R.T. -0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

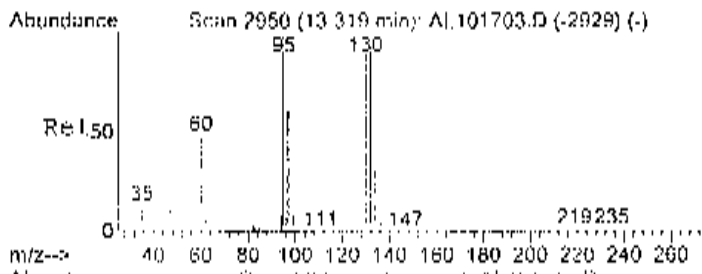
Tgt. Ion	Resp:	Lower	Upper
57	100		
41	128.9	6.2	46.2#
56	83.7	12.4	52.4#



#44
 Heptane
 Concen: 6.81 ppb
 RT: 13.17 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

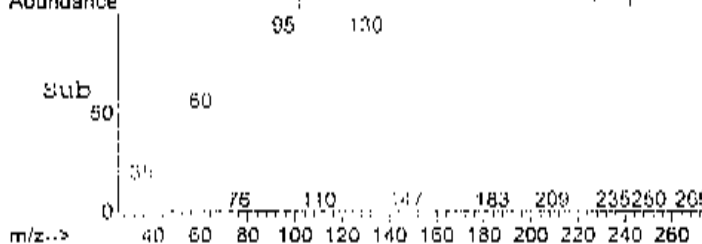
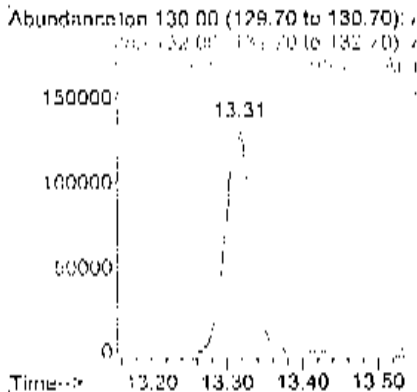
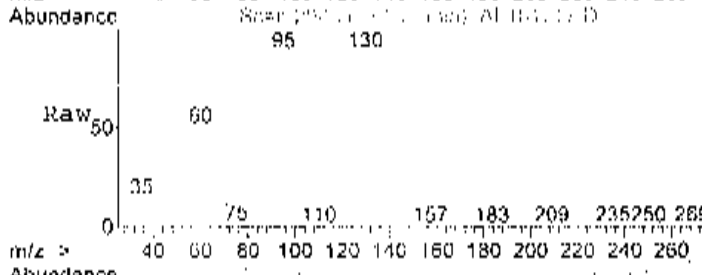
Tgt. Ion	Resp:	Lower	Upper
43	100		
57	68.4	34.7	74.7
71	56.8	39.1	79.1





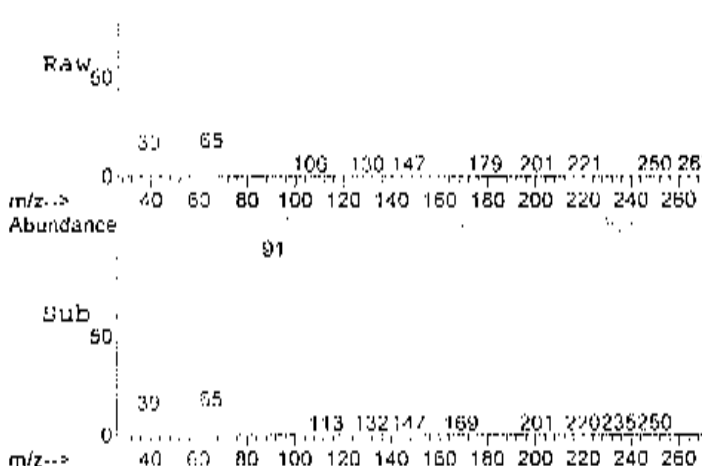
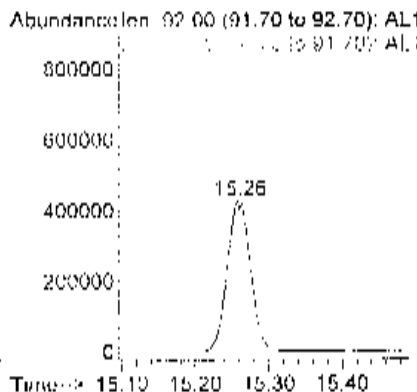
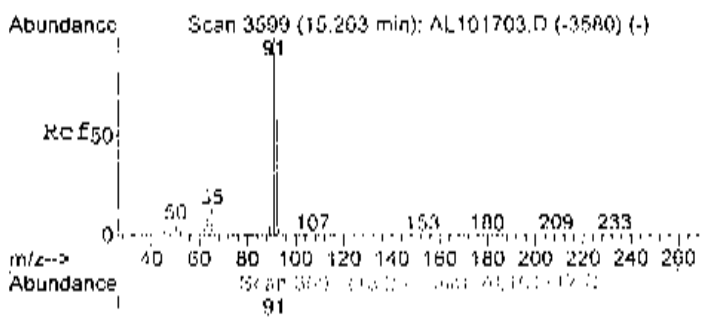
#45
 Trichloroethene
 Concn: 4.36 ppb
 RT: 13.31 min Scan# 2948
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

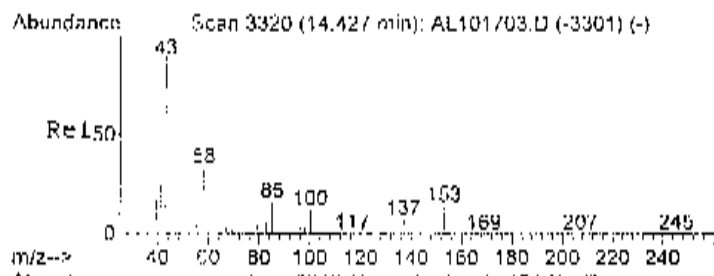
Tgt Ion	Resp	Lower	Upper
130	100		
132	96.3	78.0	118.0
95	102.7	82.4	122.4



#52
 Toluene
 Concn: 7.30 ppb
 RT: 15.26 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

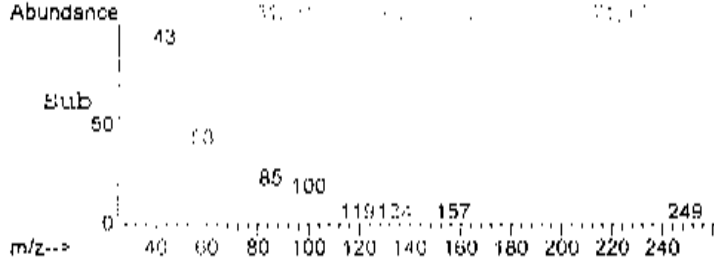
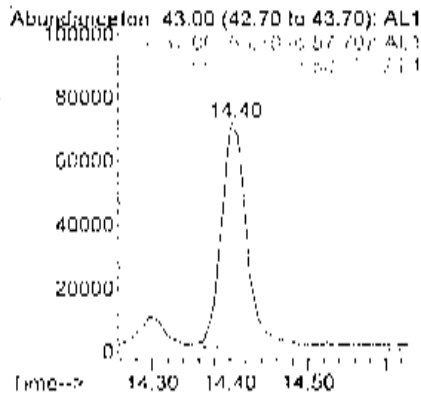
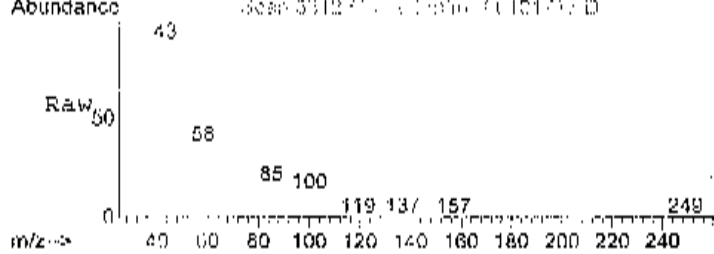
Tgt Ion	Resp	Lower	Upper
92	100		
91	175.1	154.2	194.2





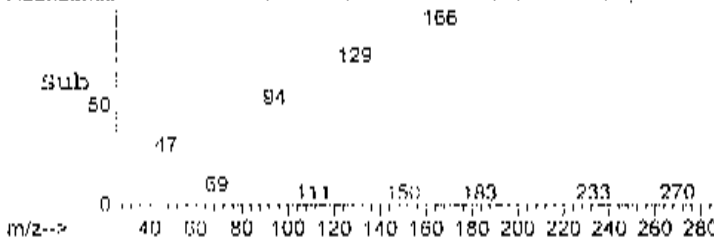
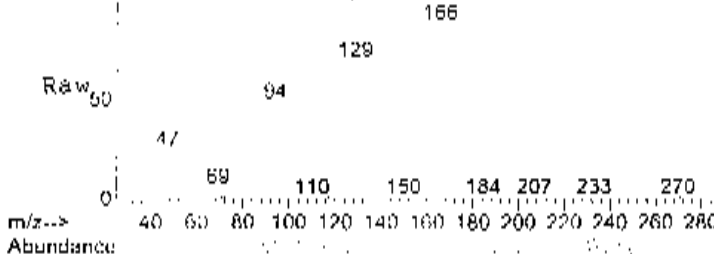
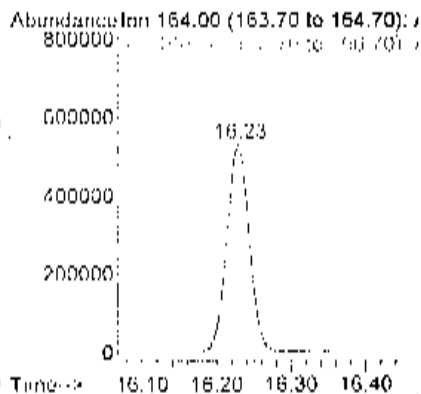
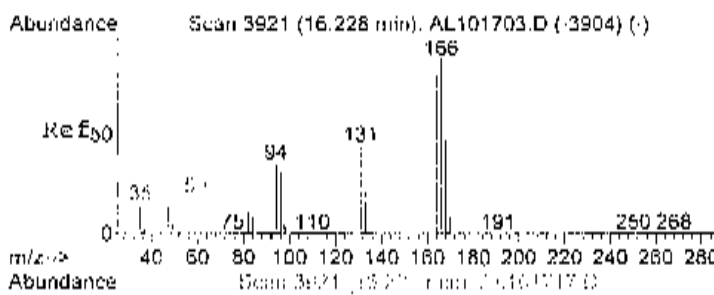
#53
Methyl Isobutyl Ketone
Concn: 1.63 ppb
RT: 14.40 min Scan# 3312
Delta R.T. -0.03 min
Lab File: AL101717.D
Acq: 17 Oct 2014 9:50 pm

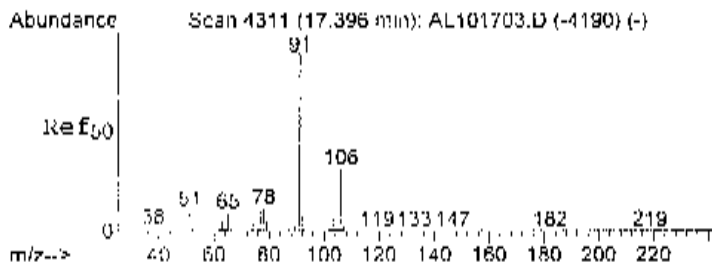
Tgt.	Ion	Ratio	Lower	Upper
	43	100		
	57	27.4	3.4	43.4
	58	35.2	20.9	60.9



#57
Tetrachloroethylene
Concn: 9.69 ppb
RT: 16.23 min Scan# 3921
Delta R.T. 0.00 min
Lab File: AL101717.D
Acq: 17 Oct 2014 9:50 pm

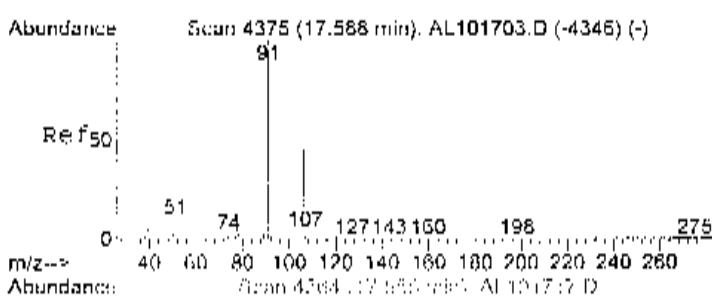
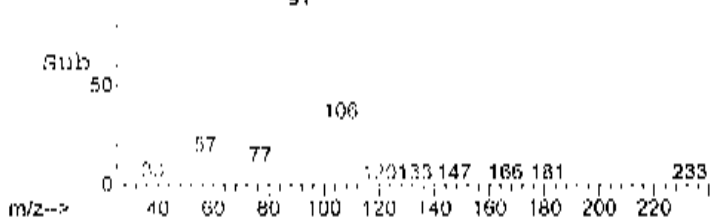
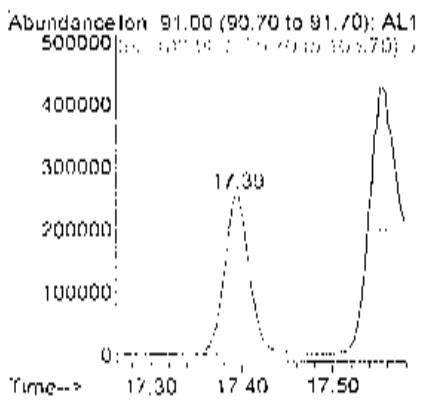
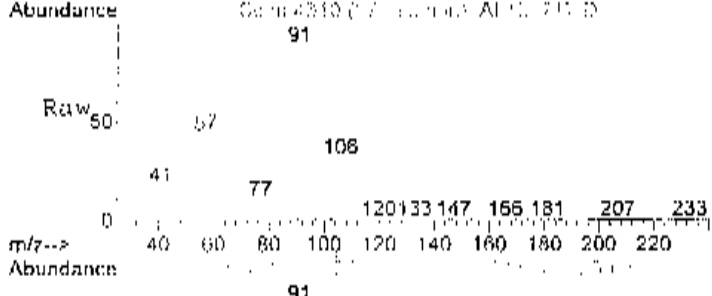
Tgt.	Ion	Ratio	Lower	Upper
	164	100		
	166	127.8	108.0	148.0





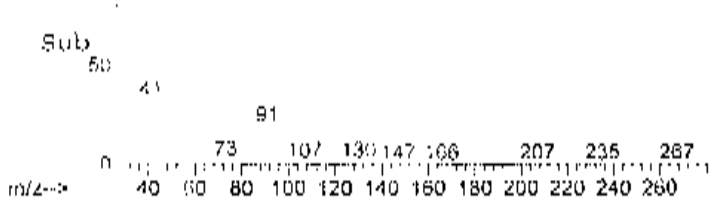
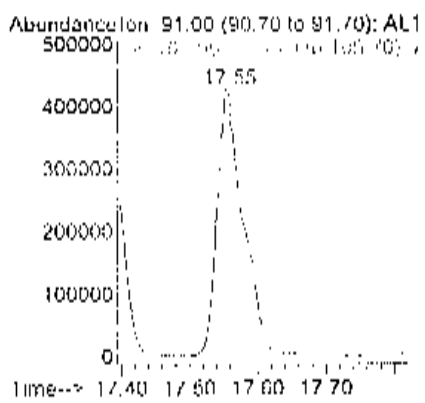
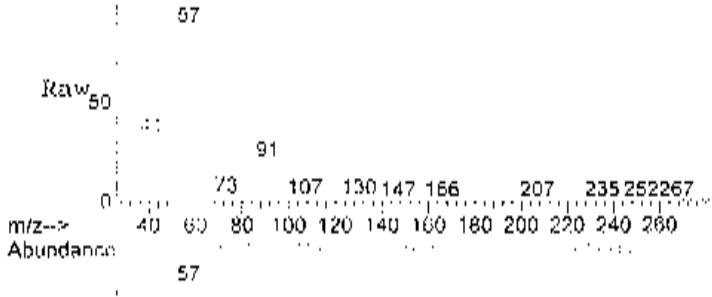
#60
Ethylbenzene
Concen: 1.78 ppb
RT: 17.39 min Scan# 4310
Delta R.T. 0.00 min
Lab File: AL101717.D
Acq: 17 Oct 2014 9:50 pm

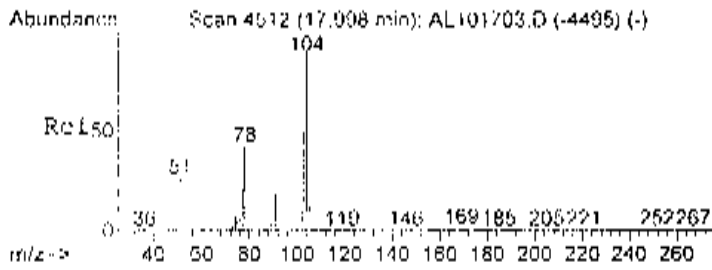
Tgt. Ion	Resp	Lower	Upper
91	100		
106	30.9	12.2	52.2



#61
m,p-xylene
Concen: 5.24 ppb
RT: 17.55 min Scan# 4364
Delta R.T. -0.03 min
Lab File: AL101717.D
Acq: 17 Oct 2014 9:50 pm

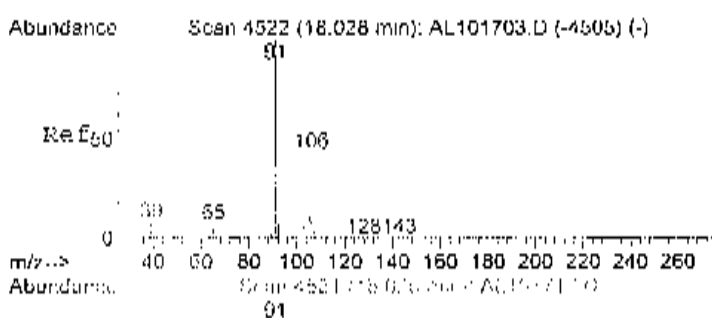
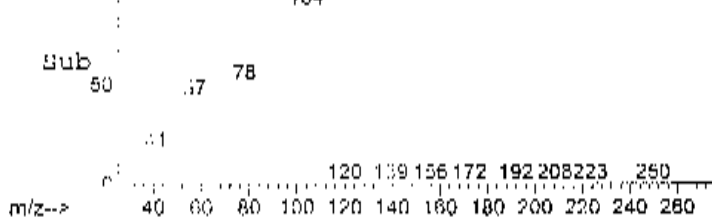
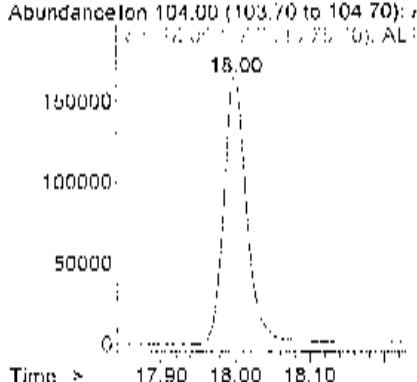
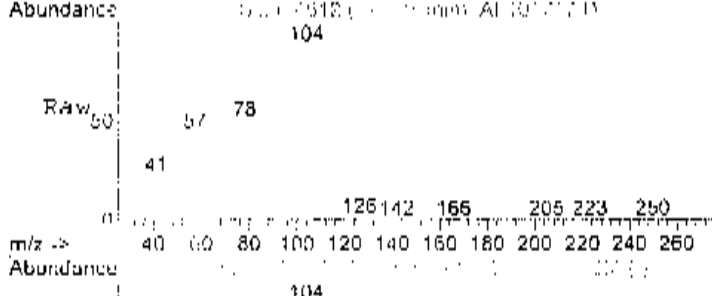
Tgt. Ion	Resp	Lower	Upper
91	100		
106	47.9	29.2	69.2





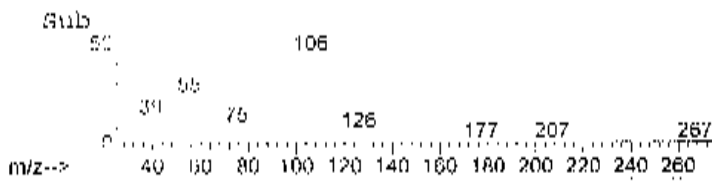
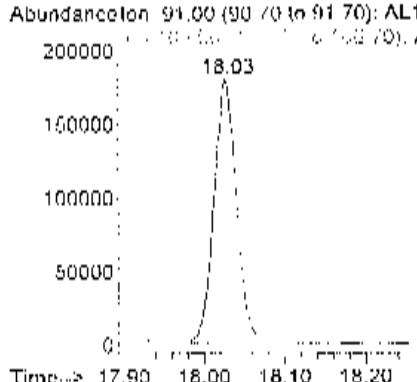
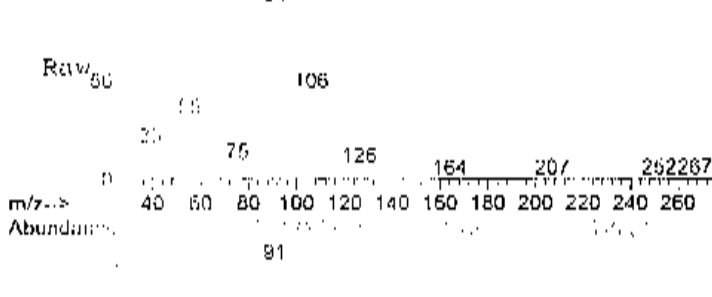
#63
 Styrene
 Concen: 2.40 ppb
 RT: 18.00 min Scan# 4512
 Delta R.T. -0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

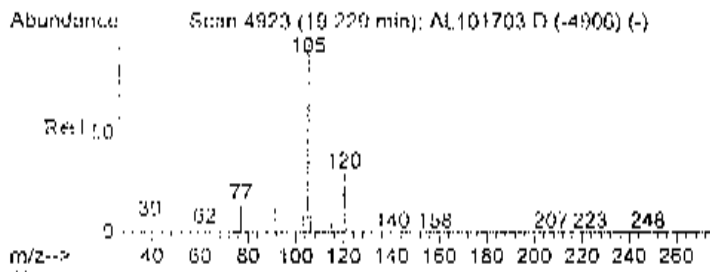
Tgt Ion	Resp	Lower	Upper
104	100		
78	51.0	31.2	71.2



#65
 o-xylene
 Concen: 1.26 ppb
 RT: 18.03 min Scan# 4521
 Delta R.T. -0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

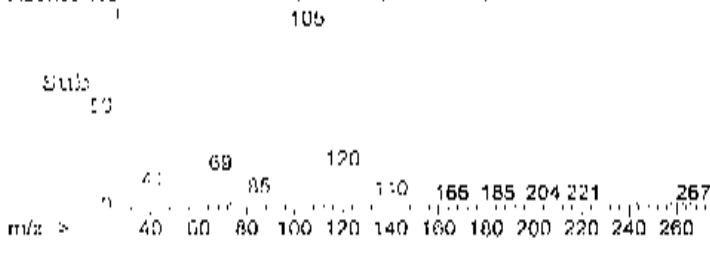
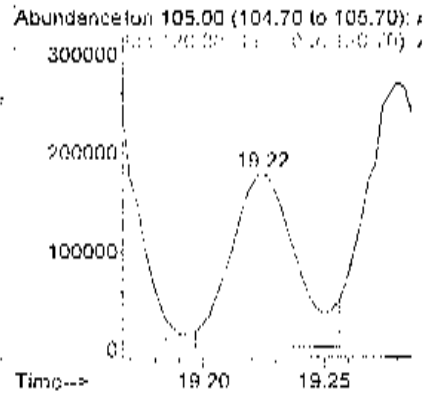
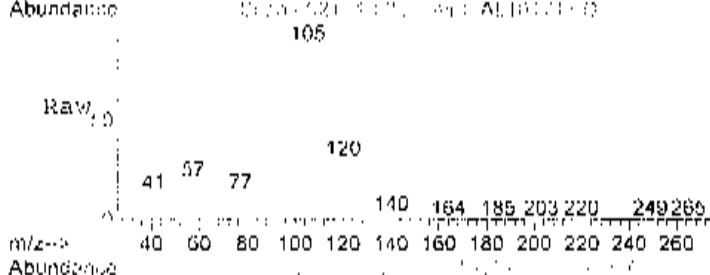
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.7	26.7	66.7





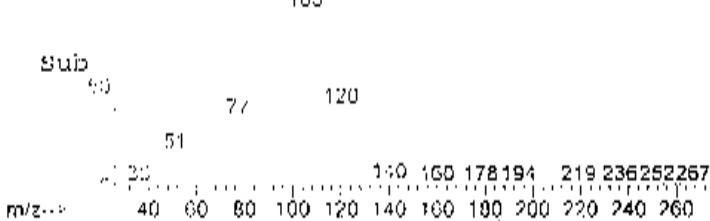
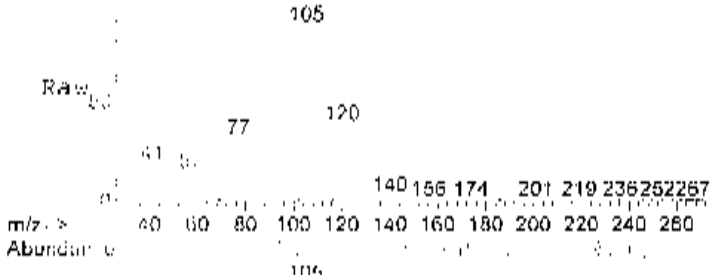
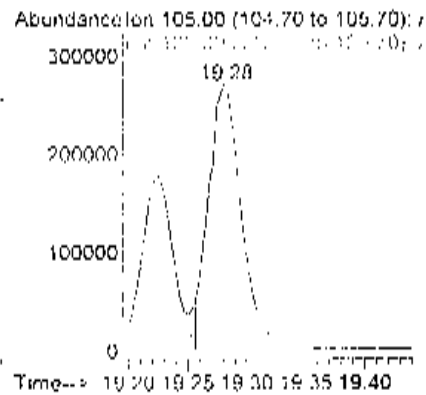
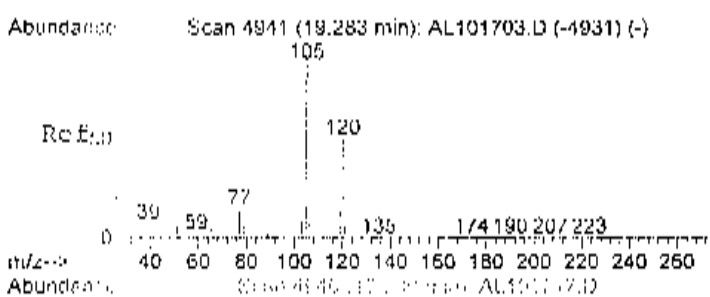
#71
 4 ethyltoluene
 Concen: 1.29 ppb
 RT: 19.22 min Scan# 4921
 Delta R.T. -0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

Tot. Ion	Resp	Lower	Upper
105	335359		
105	100		
120	29.2	0.0	20.0#

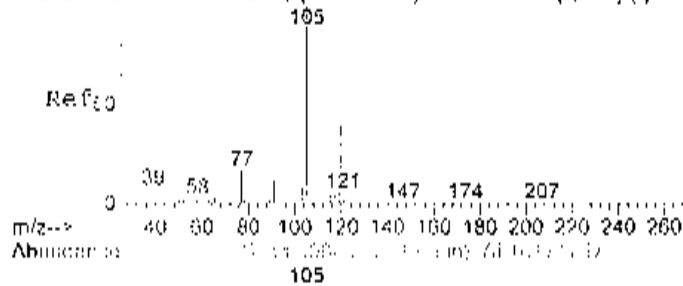


#72
 1,3,5-trimethylbenzene
 Concen: 1.67 ppb
 RT: 19.28 min Scan# 4940
 Delta R.T. 0.00 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

Tot. Ion	Resp	Lower	Upper
105	519748		
105	100		
120	35.9	0.0	20.0#

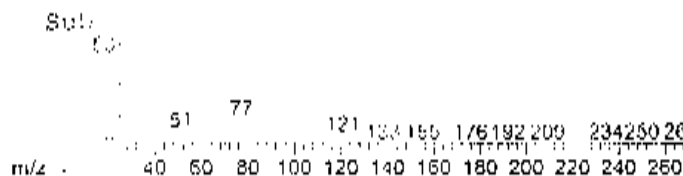
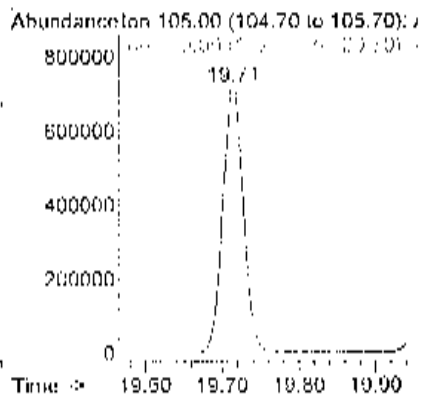
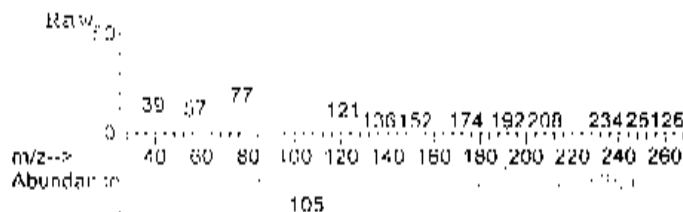


Abundance Scan 5086 (19.718 min): AL101703.D (5069) (-)



#71
 1,2,4-trimethylbenzene
 Concent: 6.00 ppb
 RT: 19.71 min Scan# 5084
 Delta R.T. -0.01 min
 Lab File: AL101717.D
 Acq: 17 Oct 2014 9:50 pm

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1346564		
120	44.6		25.3	65.3



Data File : C:\HPCHEM\1\DATA\AL101728.D Via: 12
 Acq On : 18 Oct 2014 4:45 am Operator: RJP
 Sample : C1410057-008A 10X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:22:02 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	30784	1.00	ppb	0.00
16) 1,4-difluorobenzene	12.72	114	126326	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	110041	1.00	ppb	0.00

System Monitoring Compounds						
67) Bromofluorobenzene	18.67	95	71487	0.92	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	92.00%	

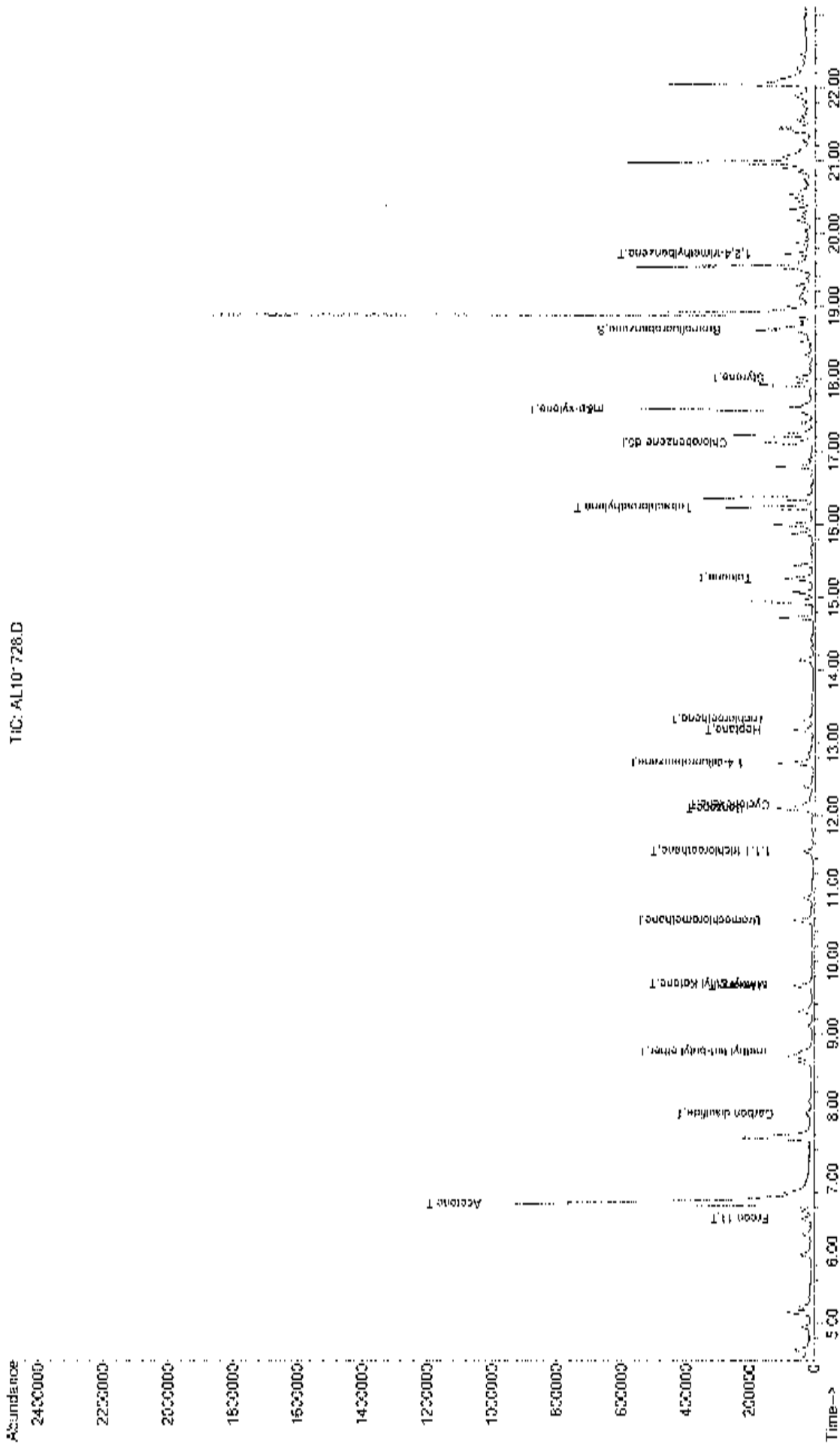
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Freon 11	6.45	101	37345	0.26	ppb	100
16) Acetone	6.64	58	624926	61.18	ppb	# 46
24) Carbon disulfide	7.89	76	28730	0.29	ppb	95
26) methyl tert-butyl ether	8.74	73	25102	0.26	ppb	# 43
29) Methyl Ethyl Ketone	9.68	72	6772	0.47	ppb	# 59
31) Hexane	9.65	57	30147	0.51	ppb	# 68
37) 1,1,1-trichloroethane	11.50	97	24598	0.24	ppb	98
38) Cyclohexane	12.14	56	13939m [^]	0.27	ppb	
40) Benzene	12.08	78	42156	0.34	ppb	91
44) Heptane	13.17	43	23754	0.46	ppb	86
45) Trichloroethene	13.32	130	21637	0.36	ppb	97
52) Toluene	15.27	92	47541	0.62	ppb	99
57) Tetrachloroethylene	16.23	164	68134 [^]	1.02	ppb	98
61) m,p-xylene	17.57	91	63454m [^]	0.50	ppb	
63) Styrene	18.00	104	14314m [^]	0.16	ppb	
73) 1,2,4 trimethylbenzene	19.72	105	45032	0.34	ppb	97

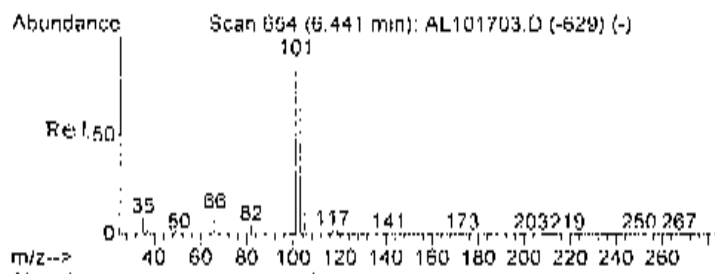
Data File : C:\HPCHEM\1\DATA\ALL1728.D
Acq On : 18 Oct 2014 4:45 am
Sample : C141057-008A 10X
Misc : 8910_IDG
MS Integration Params: RIEINT.P
Quant Time: Oct 20 14:18 2014

Vial: 12
Operator: RJP
Inst : MSD #1
Multipir: 1.00

Quant Results File: 8910_10G.RES

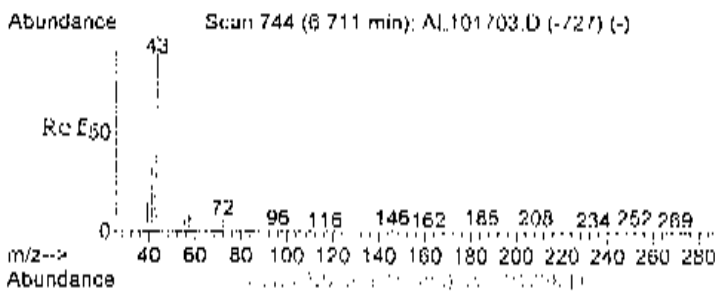
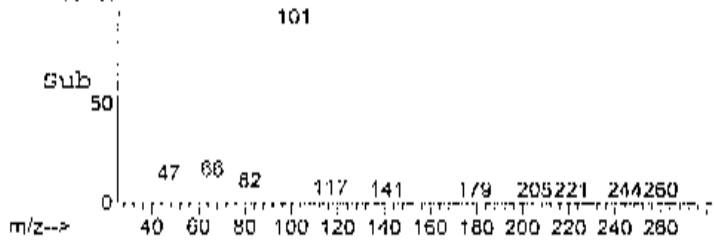
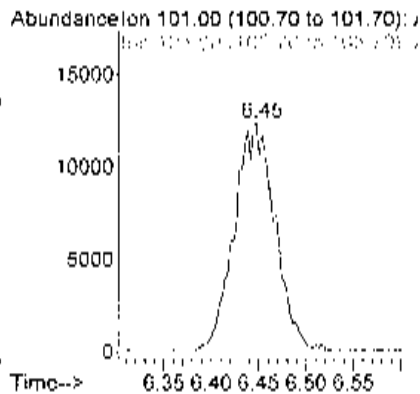
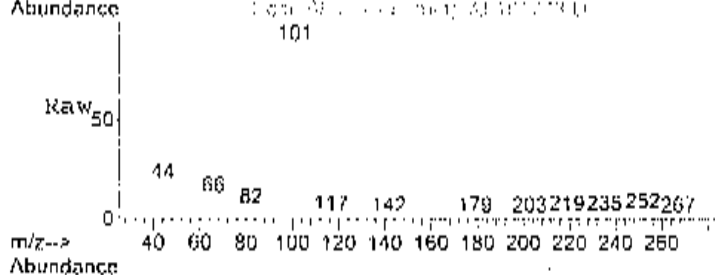
Method : C:\HPCHEM\1\METHODS\8910_10G.M (RT3 Integrator)
Title : IO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration





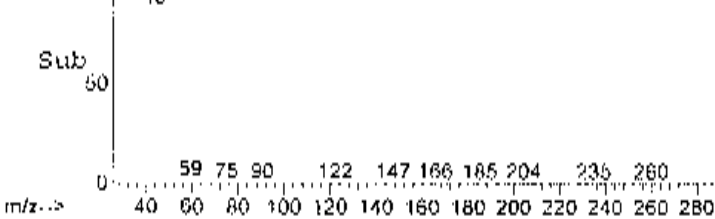
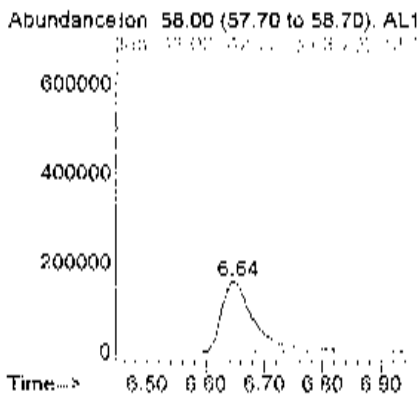
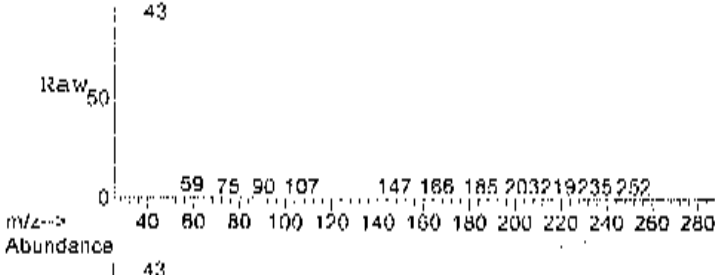
#15
 Freon 11
 Concen: 0.26 ppb
 RT: 6.45 min Scan# 656
 Delta R.T. 0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

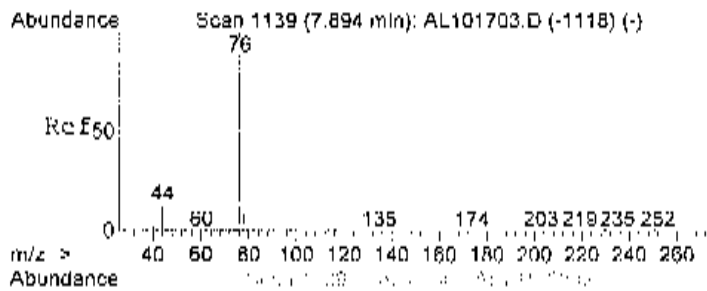
Tgt Ion	Resp	Lower	Upper
101	100		
103	66.0	45.8	85.8
105	11.1	0.0	31.2



#16
 Acetone
 Concen: 61.18 ppb
 RT: 6.64 min Scan# 722
 Delta R.T. -0.03 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

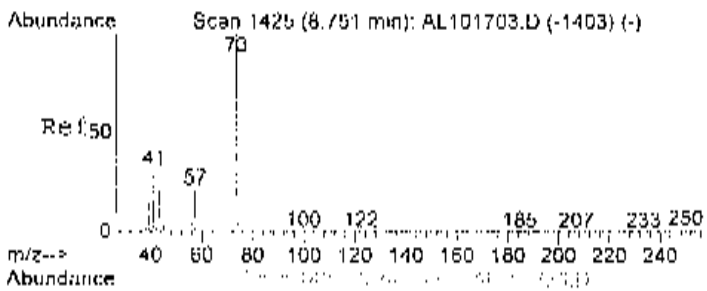
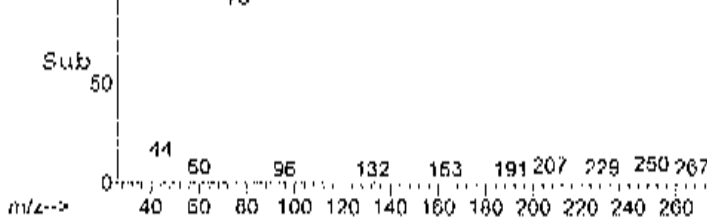
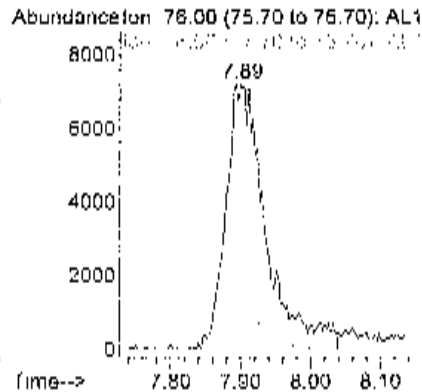
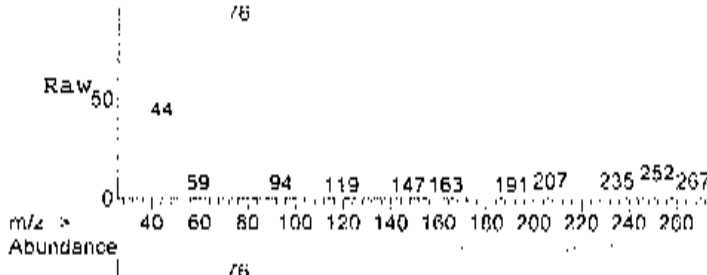
Tgt Ion	Resp	Lower	Upper
58	100		
43	387.9	514.7	574.7#





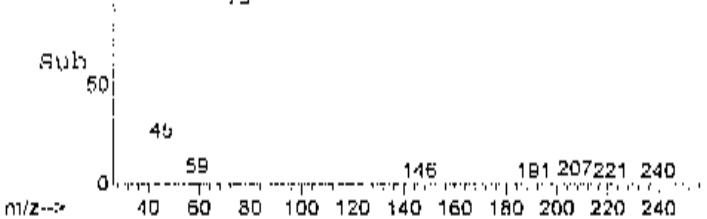
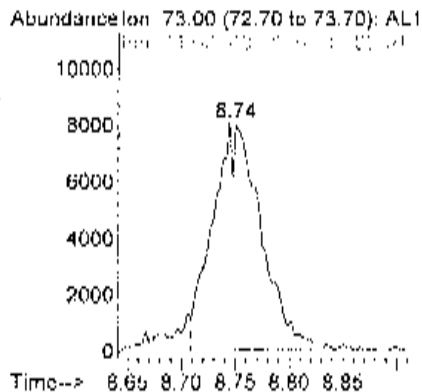
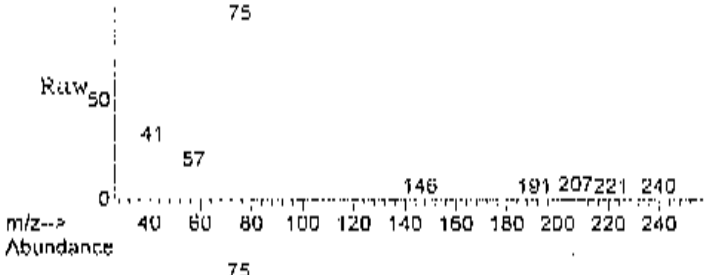
#24
 Carbon disulfide
 Concen: 0.29 ppb
 RT: 7.89 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

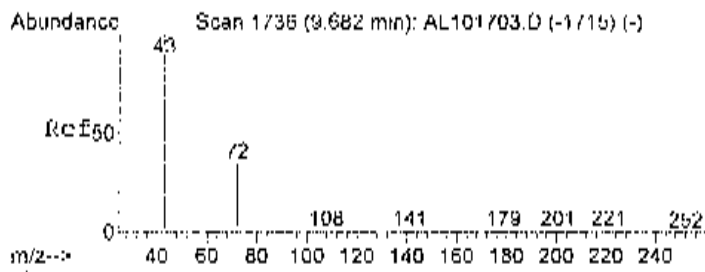
Tgt Ion	Resp	Lower	Upper
76	28730		
76	100		
78	11.1	0.0	29.1



#26
 methyl tert-butyl ether
 Concen: 0.26 ppb
 RT: 8.74 min Scan# 1423
 Delta R.T. 0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

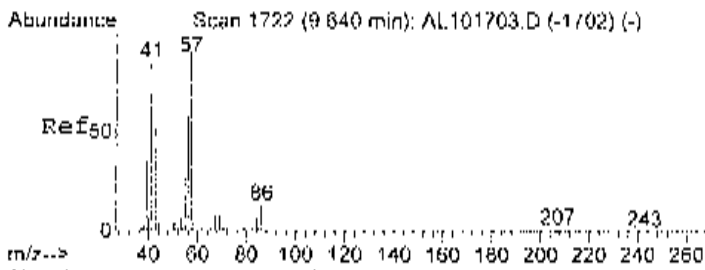
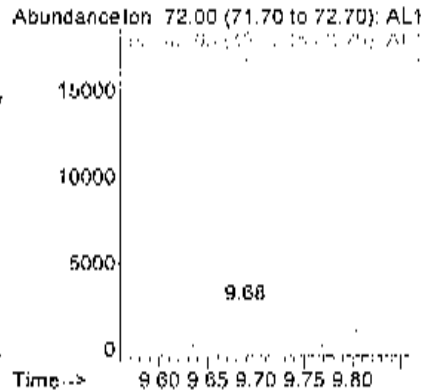
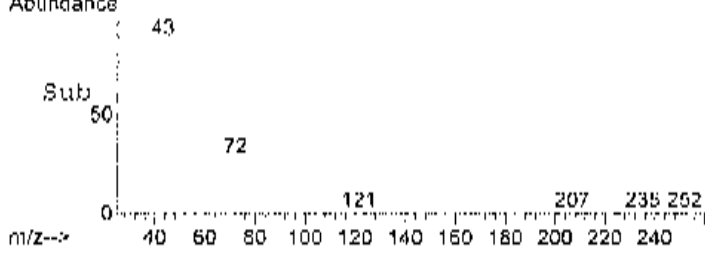
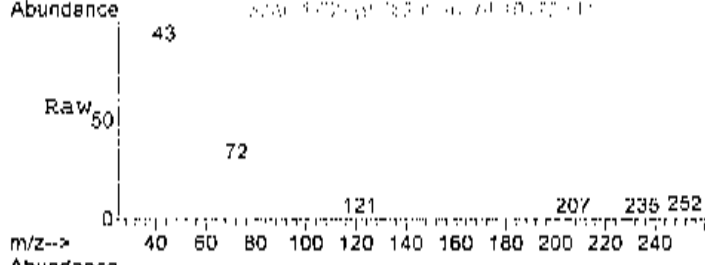
Tgt Ion	Resp	Lower	Upper
73	25102		
73	100		
41	50.2	1.5	41.5#
53	0.3	0.0	21.6





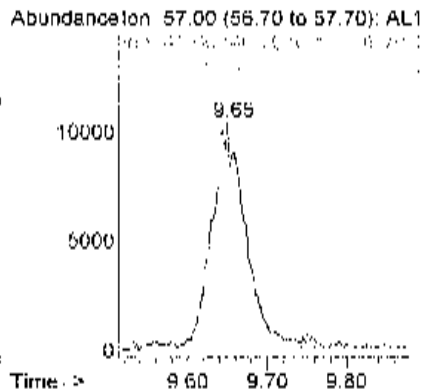
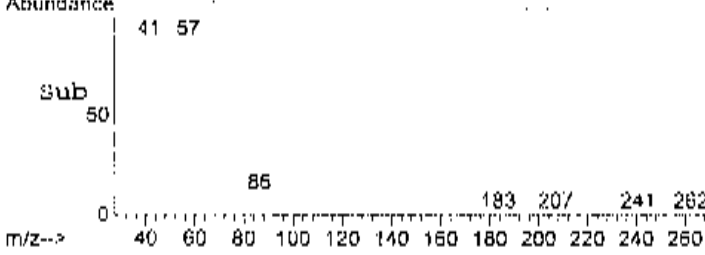
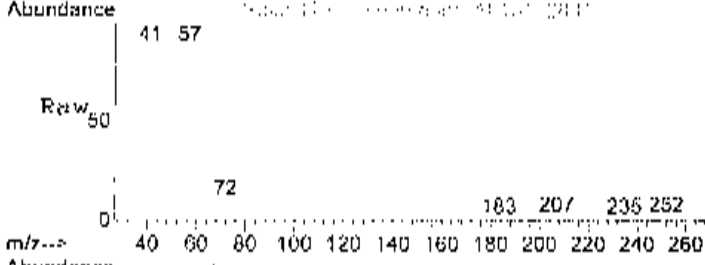
#29
Methyl Ethyl Ketone
Concen: 0.47 ppb
RT: 9.68 min Scan# 1736
Delta R.T. 0.02 min
Lab File: AL101728.D
Acq: 18 Oct 2014 4:45 am

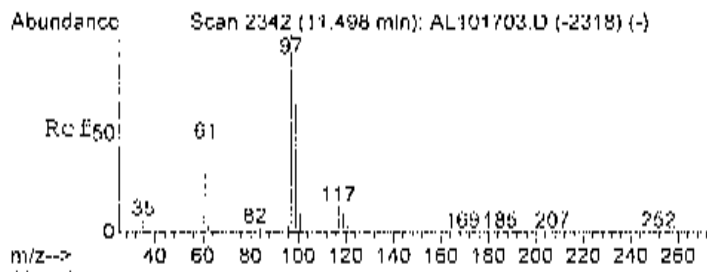
Tgt Ion	Resp	Lower	Upper
72	6772		
72	100		
43	694.4	530.5	570.5#
72	100.0	80.0	120.0



#31
Hexane
Concen: 0.51 ppb
RT: 9.65 min Scan# 1725
Delta R.T. 0.01 min
Lab File: AL101728.D
Acq: 18 Oct 2014 4:45 am

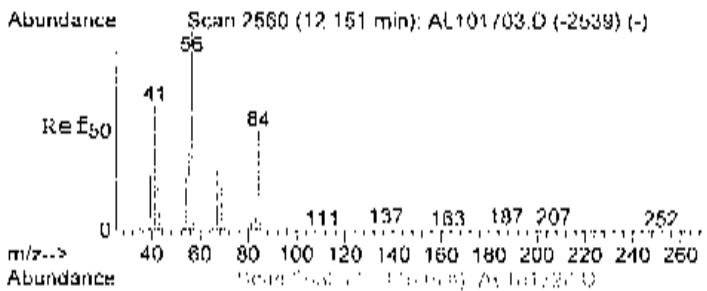
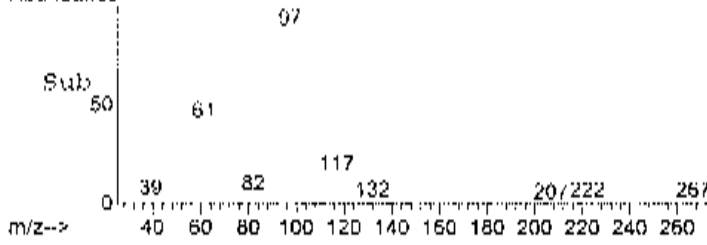
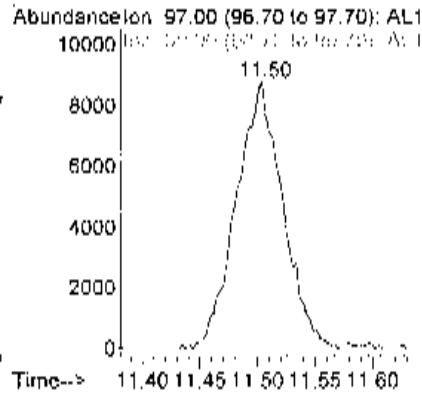
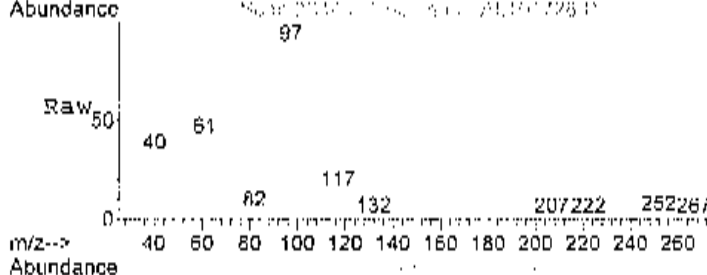
Tgt Ion	Resp	Lower	Upper
57	30147		
57	100		
41	99.1	45.2	85.2#
56	60.9	29.0	69.0





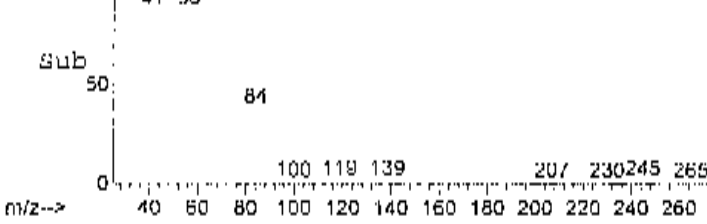
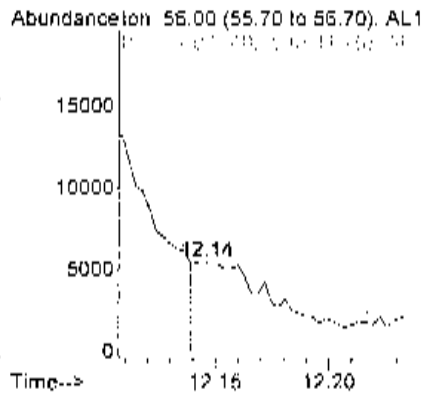
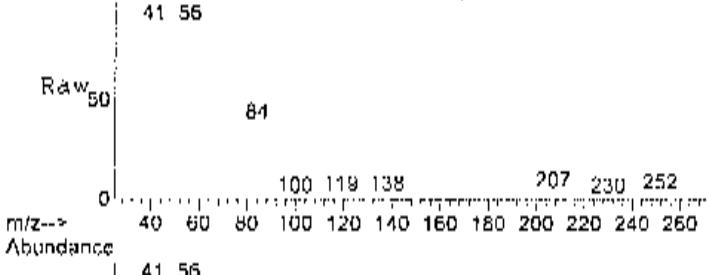
#37
 1,1,1-trichloroethane
 Concen: 0.24 ppb
 RT: 11.50 min Scan# 2344
 Delta R.T. 0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

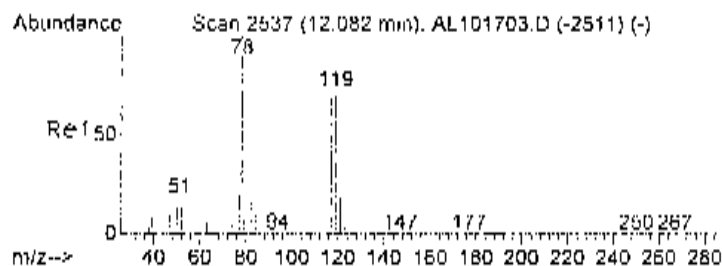
Tgt Ion	Resp	Lower	Upper
97	24598		
97	100		
99	61.7	43.6	83.6



#38
 Cyclohexane
 Concen: 0.27 ppb m
 RT: 12.14 min Scan# 2558
 Delta R.T. -0.00 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

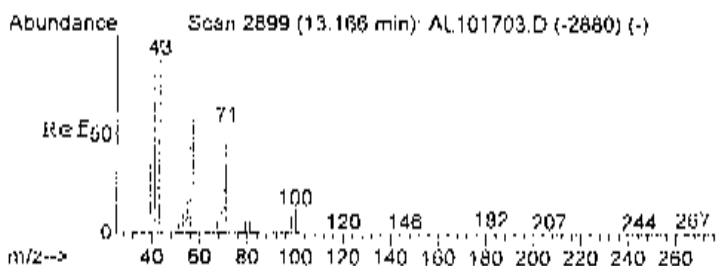
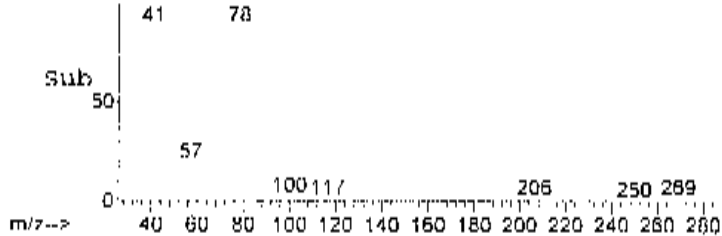
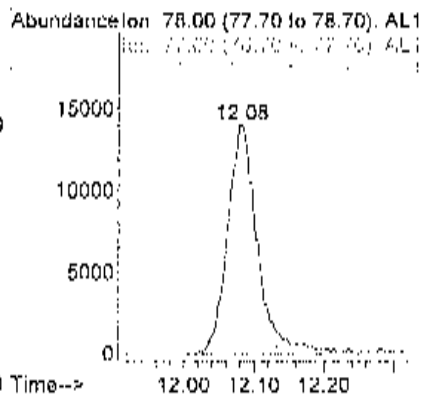
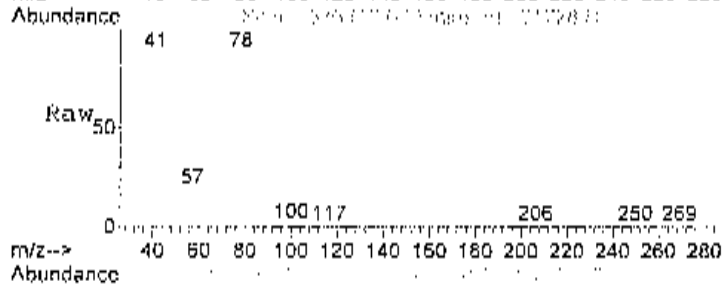
Tgt Ion	Resp	Lower	Upper
56	13939		
56	100		
41	499.2	34.6	74.6#
84	6.3	84.9	124.9#





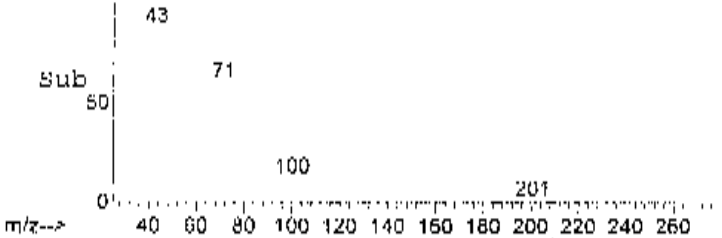
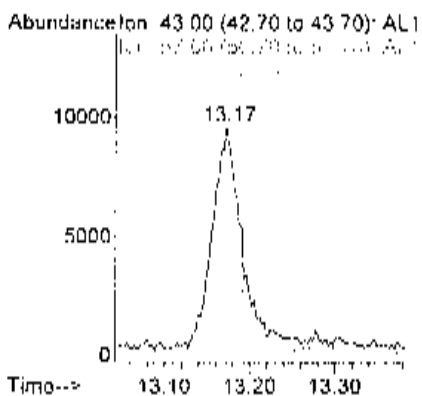
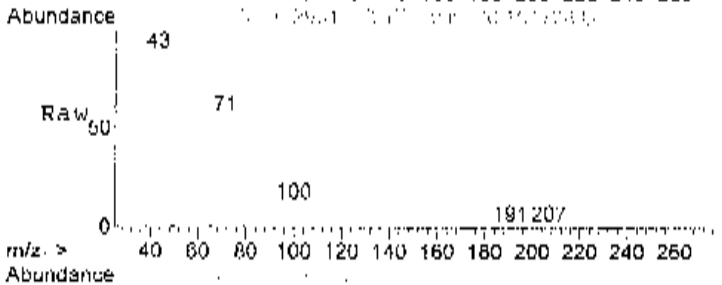
#40
Benzene
Concen: 0.34 ppb
RT: 12.08 min Scan# 2536
Delta R.T. 0.00 min
Lab File: AL101728.D
Acq: 18 Oct 2014 4:45 am

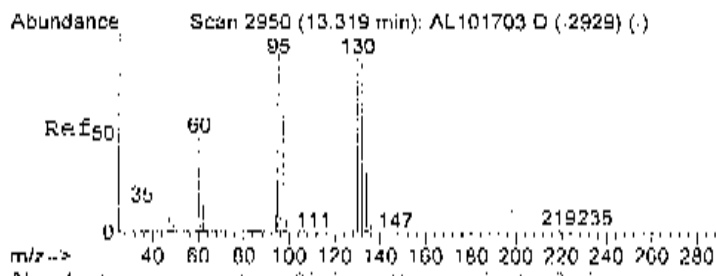
Tgt. Ion	Resp.	Lower	Upper
78	100		
77	23.8	3.6	43.6
51	25.3	0.0	36.3



#44
Heptane
Concen: 0.46 ppb
RT: 13.17 min Scan# 2901
Delta R.T. 0.01 min
Lab File: AL101728.D
Acq: 18 Oct 2014 4:45 am

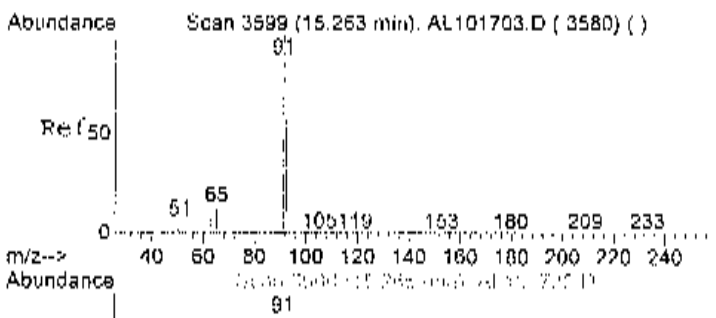
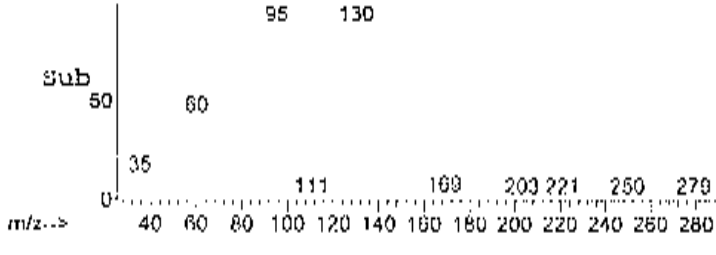
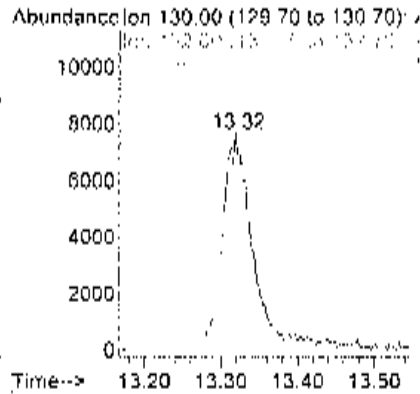
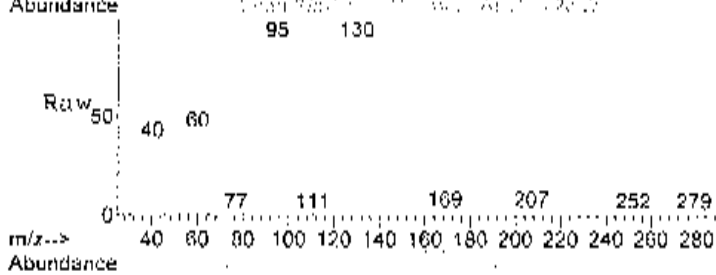
Tgt. Ion	Resp.	Lower	Upper
43	100		
57	67.9	34.7	74.7
71	51.1	39.1	79.1





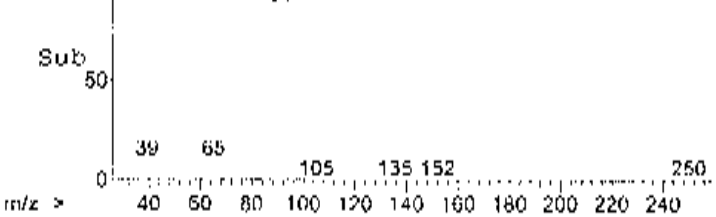
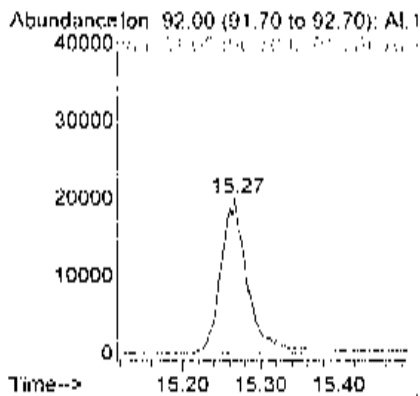
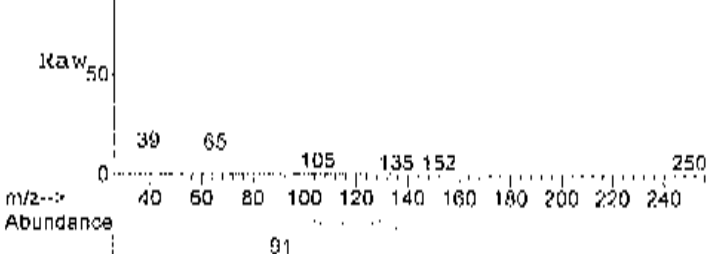
#45
 Trichloroethene
 Concen: 0.36 ppb
 RT: 13.32 min Scan# 2950
 Delta R.T. 0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

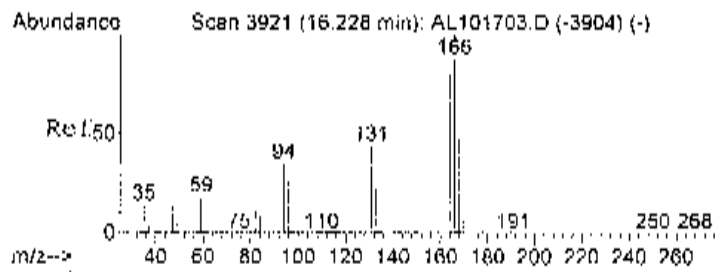
Tgt Ion	Resp	Lower	Upper
130	100		
132	95.5	78.0	118.0
95	99.6	82.4	122.4



#52
 Toluene
 Concen: 0.62 ppb
 RT: 15.27 min Scan# 3600
 Delta R.T. 0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

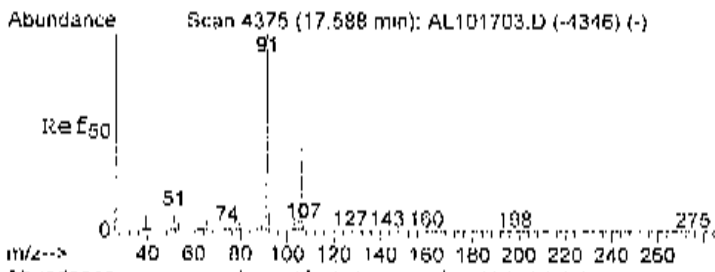
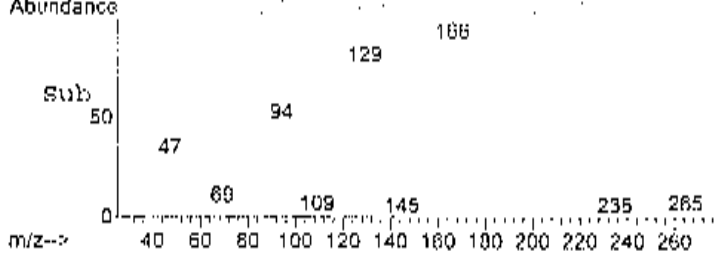
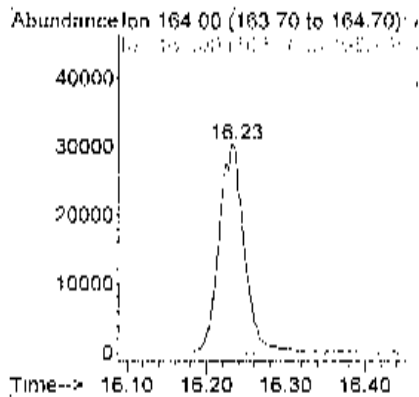
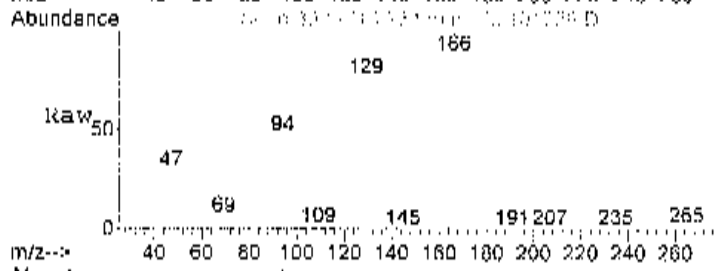
Tgt Ion	Resp	Lower	Upper
92	100		
91	175.3	154.2	194.2





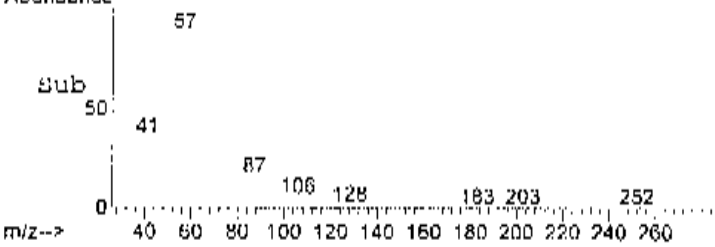
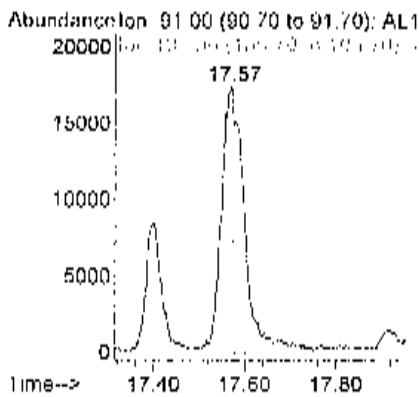
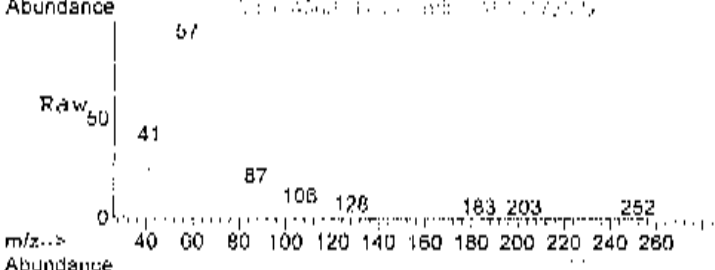
#57
 Tetrachloroethylene
 Concen: 1.02 ppb
 RT: 16.23 min Scan# 3923
 Delta R.T. 0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct. 2014 4:45 am

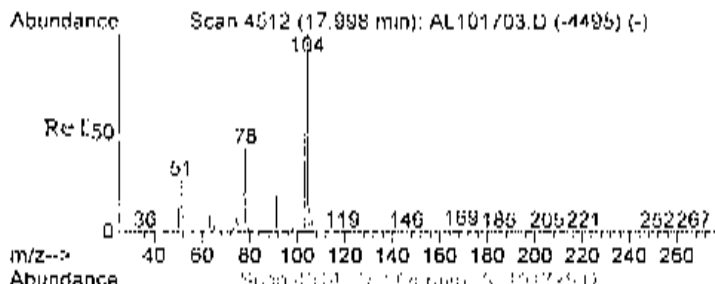
Tgt Ion	Resp	Lower	Upper
164	100		
166	130.1	108.0	148.0



#61
 m,p-xylene
 Concen: 0.50 ppb m
 RT: 17.57 min Scan# 4369
 Delta R.T. -0.01 min
 Lab File: AL101728.D
 Acq: 18 Oct. 2014 4:45 am

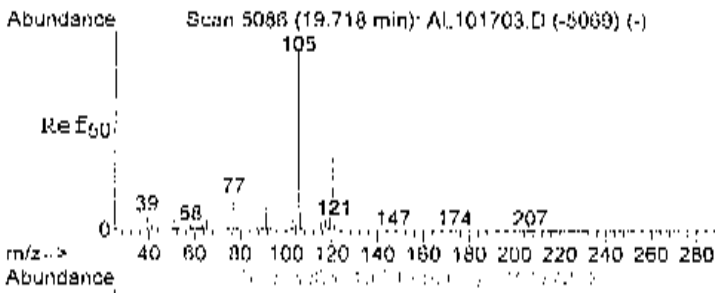
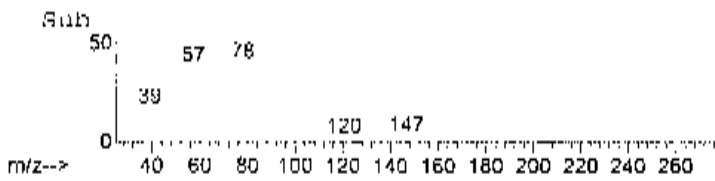
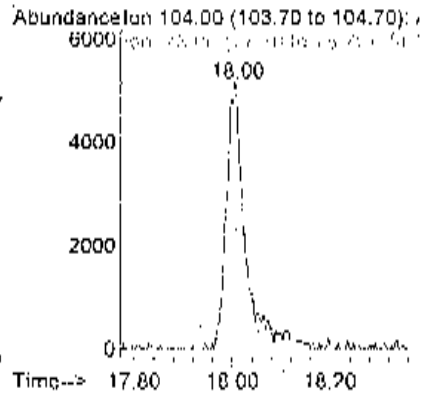
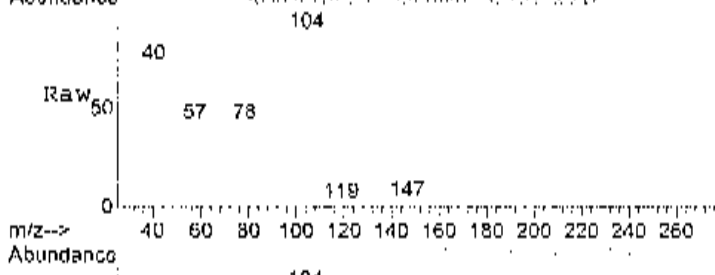
Tgt Ion	Resp	Lower	Upper
91	100		
106	43.6	29.2	69.2





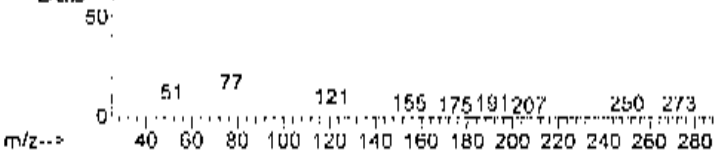
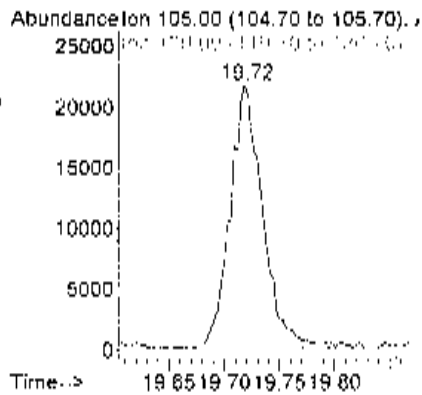
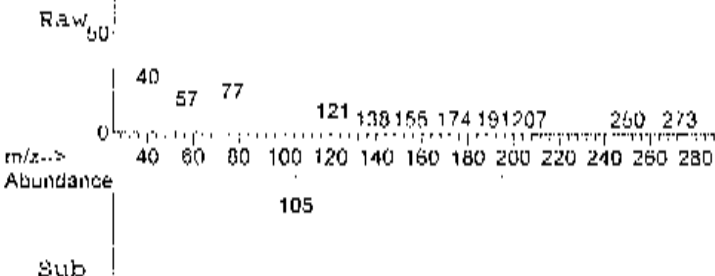
#63
 Styrene
 Concen: 0.16 ppb m
 RT: 18.00 min Scan# 4514
 Delta R.T. 0.00 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

Tgt	Ion	Resp	Lower	Upper
104	104	14314		
78	46.9	31.2	71.2	



#73
 1,2,4-trimethylbenzene
 Concen: 0.34 ppb
 RT: 19.72 min Scan# 5086
 Delta R.T. 0.00 min
 Lab File: AL101728.D
 Acq: 18 Oct 2014 4:45 am

Tgt	Ion	Resp	Lower	Upper
105	105	45032		
120	47.3	25.3	65.3	



Data File : C:\HPCHEM\1\DATA\AL102033.D Vial: 30
 Acq On : 21 Oct 2014 5:26 am Operator: RJP
 Sample : C1410057-008A 810X Inst : MSD #1
 Misc : A910 1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 10:43:57 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	39301	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	166313	1.00	ppb	0.00
51) Chlorobenzene db	17.12	117	133451	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 78435 0.83 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 83.00%

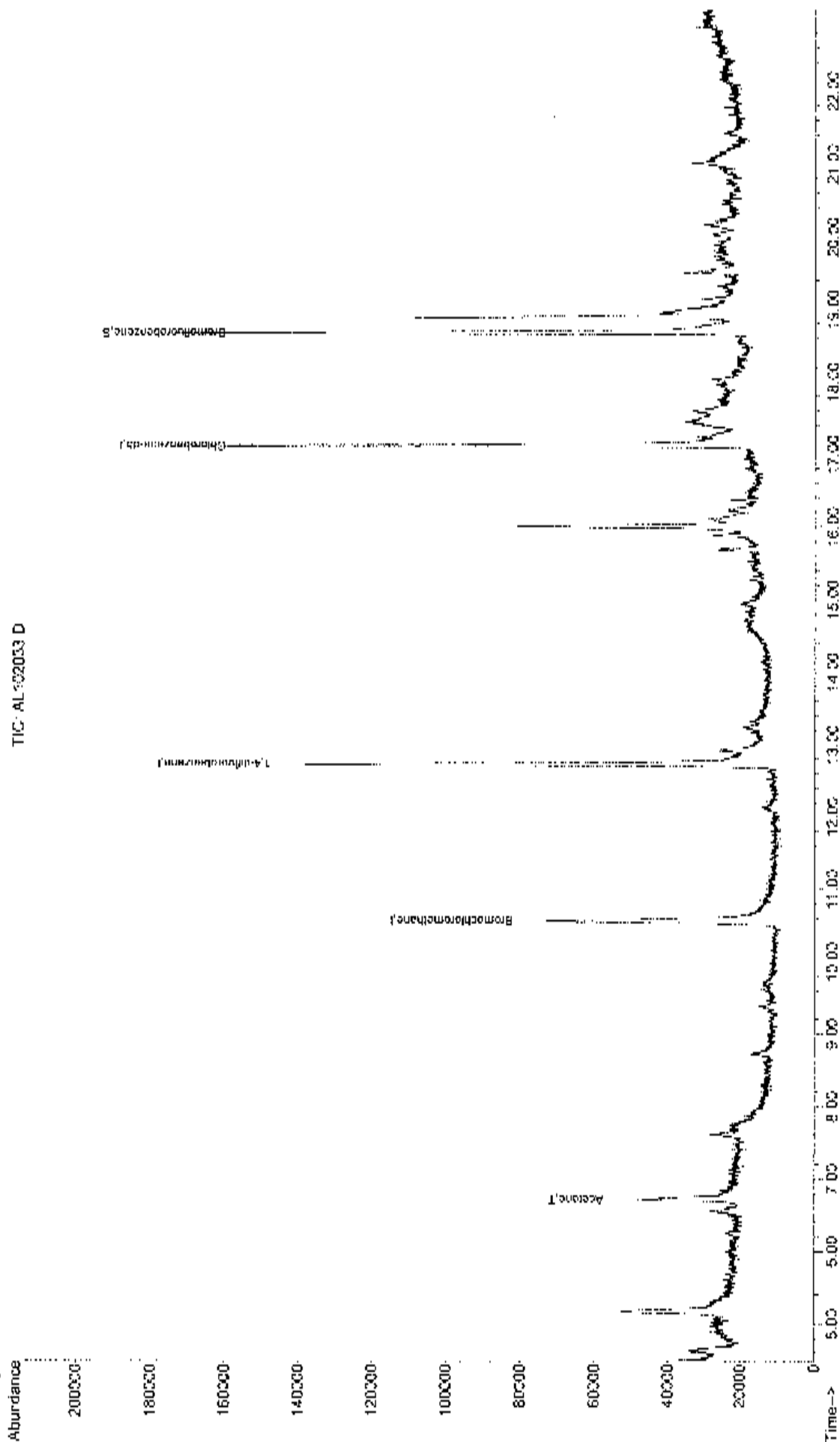
Target Compounds
 16) Acetone 6.70 58 17512 1.34 ppb # 33 Qvalue

Data File : C:\HPCHEM\1\DATA\AL102033.D
Acq On : 21 Oct 2014 5:26 AM
Sample : C1410057-008A 810X
Misc : A910_1UG
MS Integration Params: RTEINT.F
Quant Time: Oct 21 10:45 2014

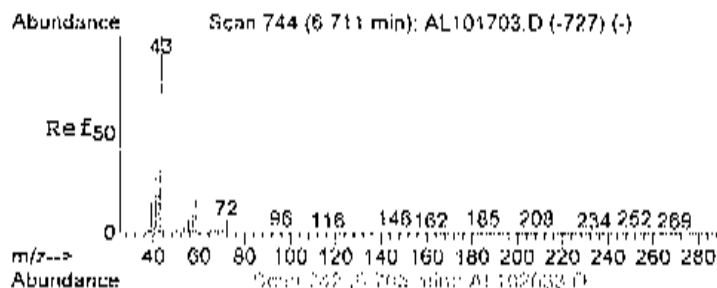
Vial: 30
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (FIE Integrator)
Title : 20-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

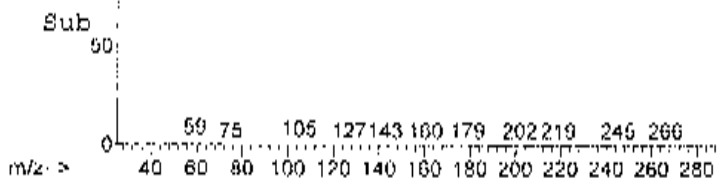
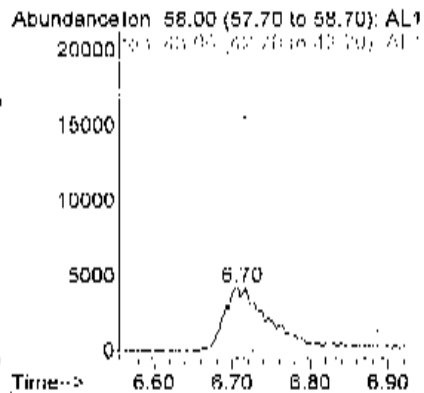
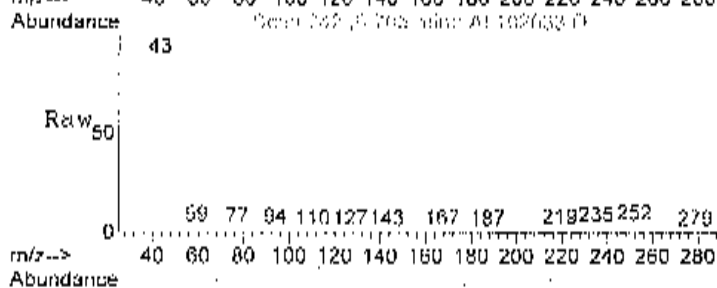


TIC: AL102033.D



#16
 Acetone
 Concen: 1.34 ppb
 RT: 6.70 min Scan# 742
 Delta R.T. 0.01 min
 Lab File: AL102033.D
 Acq: 21 Oct 2014 5:26 am

Tgt Ion: 58 Resp: 17512
 Ion Ratio Lower Upper
 58 100
 43 348.2 514.7 574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-009A

Client Sample ID: SS-04
 Tag Number: 201,295
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/16/2014
Lab Vacuum Out	-30			"Hg		10/16/2014
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	2.4	1.5		ppbV	10	10/18/2014 5:57:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2,4-Trimethylbenzene	3.8	1.5		ppbV	10	10/18/2014 5:57:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,3,5-Trimethylbenzene	1.7	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 10:30:00 PM
2,2,4-trimethylpentane	0.44	0.15		ppbV	1	10/17/2014 10:30:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	10/17/2014 10:30:00 PM
Acetone	810	240		ppbV	810	10/21/2014 6:01:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Benzene	3.5	1.5		ppbV	10	10/18/2014 5:57:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Carbon disulfide	2.9	1.5		ppbV	10	10/18/2014 5:57:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Chloroethane	0.18	0.15		ppbV	1	10/17/2014 10:30:00 PM
Chloroform	0.13	0.15	J	ppbV	1	10/17/2014 10:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Cyclohexane	2.1	0.15		ppbV	1	10/17/2014 10:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 IN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-009A

Client Sample ID: SS-04
 Tag Number: 201,395
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	1.8	0.15		ppbV	1	10/17/2014 10:30:00 PM
Freon 11	2.6	1.5		ppbV	10	10/18/2014 5:57:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Freon 12	0.50	0.15		ppbV	1	10/17/2014 10:30:00 PM
Heptane	4.9	1.5		ppbV	10	10/18/2014 5:57:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Hexane	5.8	1.5		ppbV	10	10/18/2014 5:57:00 AM
Isopropyl alcohol	17	1.5		ppbV	10	10/18/2014 5:57:00 AM
m&p-Xylene	5.2	3.0		ppbV	10	10/18/2014 5:57:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 10:30:00 PM
Methyl Ethyl Ketone	6.5	3.0		ppbV	10	10/18/2014 5:57:00 AM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	10/17/2014 10:30:00 PM
Methyl tert-butyl ether	3.0	1.5		ppbV	10	10/18/2014 5:57:00 AM
Methylene chloride	0.13	0.15	J	ppbV	1	10/17/2014 10:30:00 PM
o-Xylene	1.3	0.15		ppbV	1	10/17/2014 10:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Styrene	1.8	1.5		ppbV	10	10/18/2014 5:57:00 AM
Tetrachloroethylene	11	1.5		ppbV	10	10/18/2014 5:57:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Toluene	6.6	1.5		ppbV	10	10/18/2014 5:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Trichloroethene	3.7	1.5		ppbV	10	10/18/2014 5:57:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 10:30:00 PM
Surr. Bromofluorobenzene	100	70-130		%REC	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-009A

Client Sample ID: SS-04
Tag Number: 201,295
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	13	8.2		ug/m3	10	10/18/2014 5:57:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 10:30:00 PM
1,1,2 Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 10:30:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 10:30:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 10:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 10:30:00 PM
1,2,4-Trimethylbenzene	19	7.4		ug/m3	10	10/18/2014 5:57:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 10:30:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 10:30:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 10:30:00 PM
1,3,5-Trimethylbenzene	8.3	0.74		ug/m3	1	10/17/2014 10:30:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 10:30:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 10:30:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	10/17/2014 10:30:00 PM
4-ethyltoluene	6.7	0.74		ug/m3	1	10/17/2014 10:30:00 PM
Acetone	1900	570		ug/m3	810	10/21/2014 8:01:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 10:30:00 PM
Benzene	11	4.8		ug/m3	10	10/18/2014 5:57:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 10:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 10:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 10:30:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 10:30:00 PM
Carbon disulfide	9.0	4.7		ug/m3	10	10/18/2014 5:57:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	10/17/2014 10:30:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 10:30:00 PM
Chloroethane	0.47	0.40		ug/m3	1	10/17/2014 10:30:00 PM
Chloroform	0.63	0.73	J	ug/m3	1	10/17/2014 10:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/17/2014 10:30:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 10:30:00 PM
cis-1,3 Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 10:30:00 PM
Cyclohexane	7.3	0.52		ug/m3	1	10/17/2014 10:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 10:30:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 10:30:00 PM
Ethylbenzene	8.0	0.65		ug/m3	1	10/17/2014 10:30:00 PM
Freon 11	15	8.4		ug/m3	10	10/18/2014 5:57:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 10:30:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-009A

Client Sample ID: SS-04
 Tag Number: 201,295
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	10/17/2014 10:30:00 PM
Heptane	20	6.1		ug/m3	10	10/18/2014 5:57:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 10:30:00 PM
Hexane	20	5.3		ug/m3	10	10/18/2014 5:57:00 AM
Isopropyl alcohol	41	3.7		ug/m3	10	10/18/2014 5:57:00 AM
m&p-Xylene	23	13		ug/m3	10	10/18/2014 5:57:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 10:30:00 PM
Methyl Ethyl Ketone	19	8.8		ug/m3	10	10/18/2014 5:57:00 AM
Methyl Isobutyl Ketone	6.8	1.2		ug/m3	1	10/17/2014 10:30:00 PM
Methyl tert-butyl ether	11	5.4		ug/m3	10	10/18/2014 5:57:00 AM
Methylene chloride	0.45	0.52	J	ug/m3	1	10/17/2014 10:30:00 PM
o-Xylene	5.5	0.65		ug/m3	1	10/17/2014 10:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 10:30:00 PM
Styrene	7.7	6.4		ug/m3	10	10/18/2014 5:57:00 AM
Tetrachloroethylene	74	10		ug/m3	10	10/18/2014 5:57:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 10:30:00 PM
Toluene	25	5.7		ug/m3	10	10/18/2014 5:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 10:30:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 10:30:00 PM
Trichloroethene	20	8.1		ug/m3	10	10/18/2014 5:57:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 10:30:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 10:30:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	10/17/2014 10:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101718.D Vial: 2
 Acq On : 17 Oct 2014 10:30 pm Operator: RJP
 Sample : CL110057-009A Inst : MSD #1
 Misc : A910 1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:52 2014 Quant Results File: A910 1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	128	47864	1.00	ppb	0.00
36) 1,1-difluorobenzene	12.71	114	198113	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	212292	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
67) Bromofluorobenzene	18.67	95	149853	1.00	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Propan-1-ol	4.68	85	116759	0.50	ppb	100
11) Chloroethane	5.81	64	3935	0.18	ppb	# 39
15) Propan-1-ol	6.44	101	508815	2.28	ppb	99
16) Acetone	6.62	58	9083807	571.93	ppb	# 30
18) Isopropyl alcohol	6.74	45	1057215	19.44	ppb	# 100
22) Methylene chloride	7.72	84	5580	0.13	ppb	# 82
24) Carbon disulfide	7.90	76	515079	3.38	ppb	99
26) methyl tert-butyl ether	8.70	73	548370	3.68	ppb	# 81
29) Methyl Ethyl Ketone	9.61	72	177702	7.97	ppb	# 89
31) Heptane	9.64	57	665128	7.26	ppb	91
33) Chloroform	10.70	83	23342	0.13	ppb	86
37) 1,1,1-trichloroethane	11.50	97	367611	2.27	ppb	98
38) Cyclohexane	12.15	56	174356m	2.13	ppb	
40) Heptane	12.08	78	710956	3.67	ppb	94
43) 3,3-dimethylpentane	12.85	57	109966	0.44	ppb	# 1
44) Heptane	13.17	43	516260	6.34	ppb	89
45) Trichloroethane	13.31	130	373100	4.00	ppb	98
52) Toluene	15.26	92	1083212	7.37	ppb	100
53) Methyl Isobutyl Ketone	14.41	43	183691	1.65	ppb	92
57) Tetrahydrofuran	16.23	164	1230370	9.50	ppb	100
60) Ethylbenzene	17.39	91	570678	1.85	ppb	37
61) Methylcyclohexane	17.55	91	1271373	5.21	ppb	98
63) Toluene	18.00	104	424708	2.52	ppb	97
65) o-xylene	18.03	91	397140	1.27	ppb	97
71) o-xylene	19.22	105	399231	1.36	ppb	# 100
72) 1,3,5-trimethylbenzene	19.28	105	595993	1.69	ppb	# 100
73) 1,3,5-trimethylbenzene	19.71	105	1518334	5.97	ppb	99

Quantitation Report (Not Reviewed)

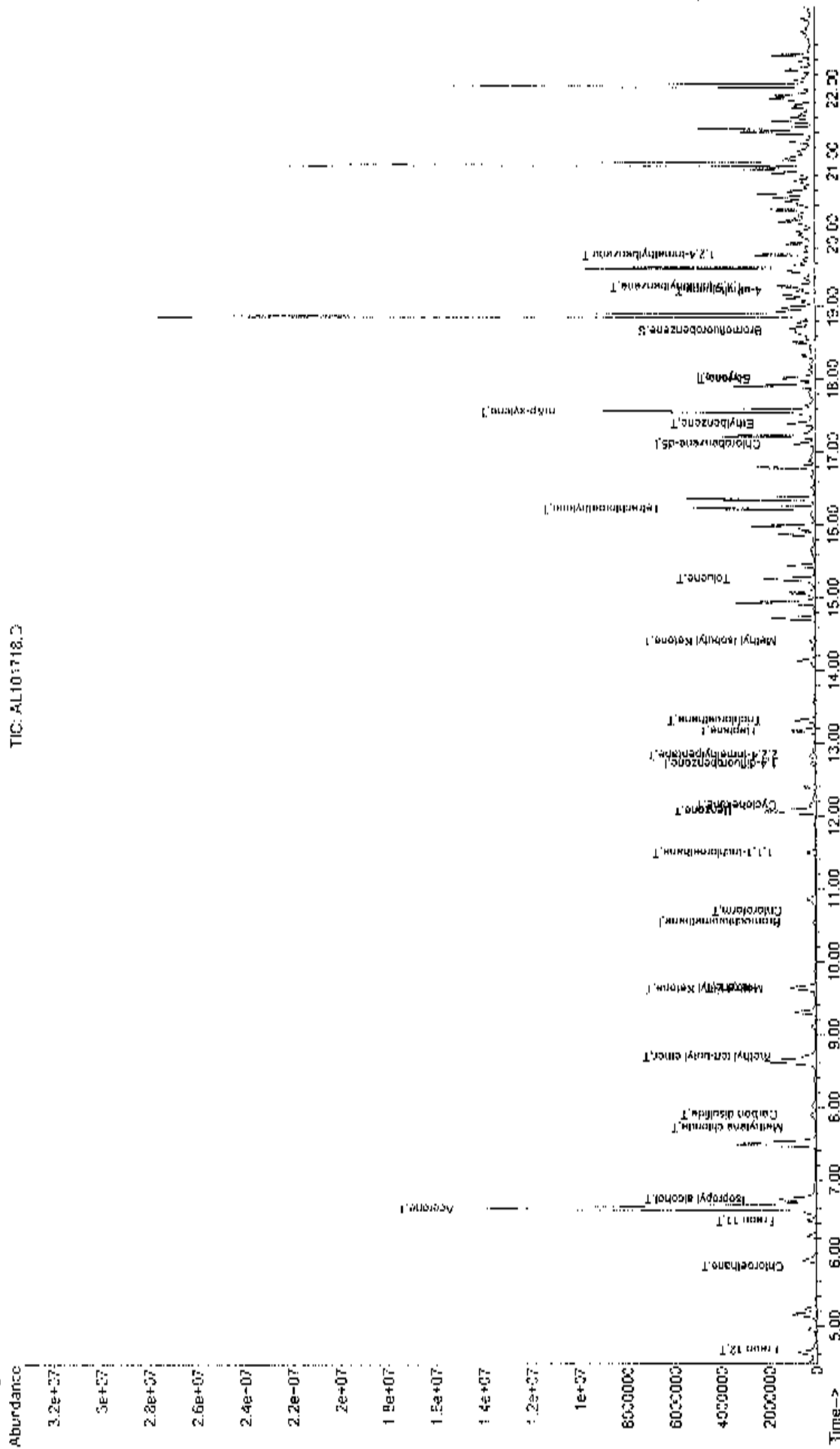
Data File : C:\HPCHEM\1\DATA\AL101718.D
 Acq On : 17 Oct 2014 10:30 pm
 Sample : C1420037-003A
 Misc : A918_106
 Integ Method : Integration
 Quant Method : Peak Area

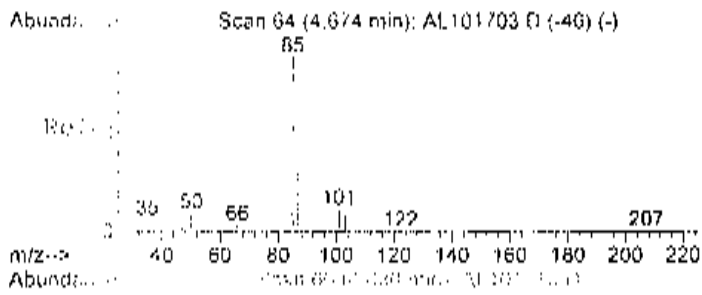
Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

File: MS10_106.D

Method : C:\HPCHEM\1\METHODS\A910_106.M (RTS Integrator)
 Title : TO-15 USA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:29 2014
 Response via : Initial Calibration

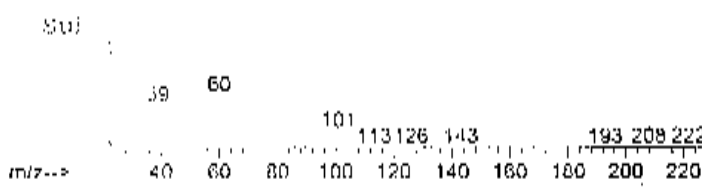
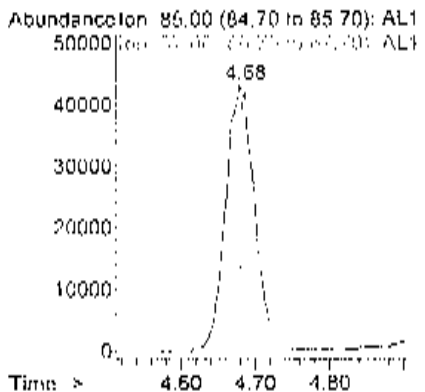
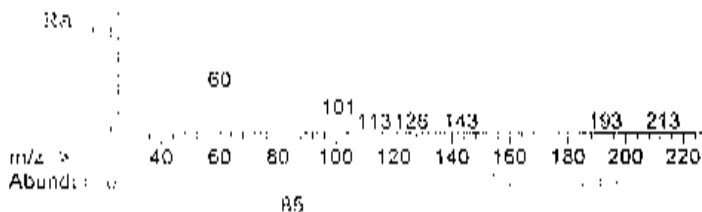
TIC: AL101718.D





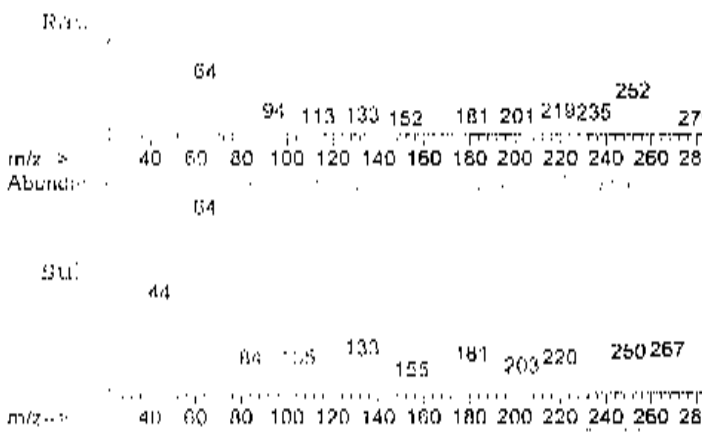
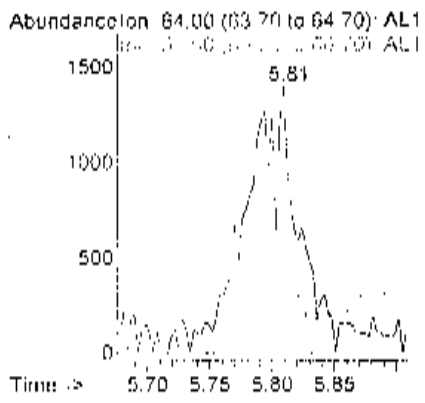
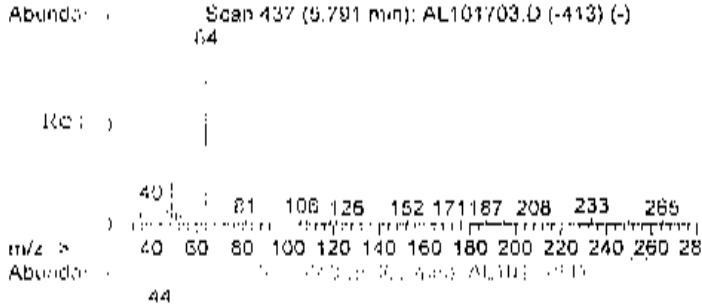
#4
 Freon 12
 Concen: 0.50 ppb
 RT: 4.68 min Scan# 66
 Delta R.T. 0.01 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

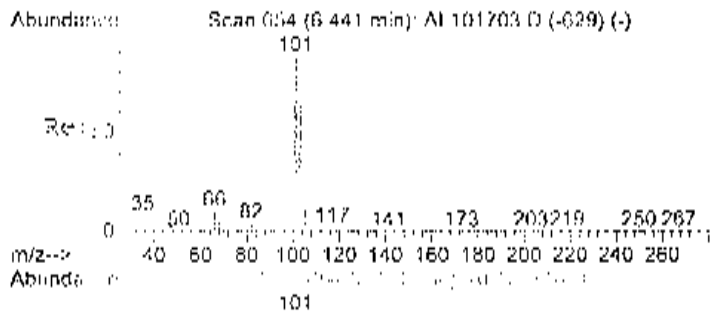
Tgt Ion	Resp	Lower	Upper
85	116759		
87	32.0	12.1	52.1



#11
 Chloroethane
 Concen: 0.18 ppb
 RT: 5.81 min Scan# 443
 Delta R.T. 0.02 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

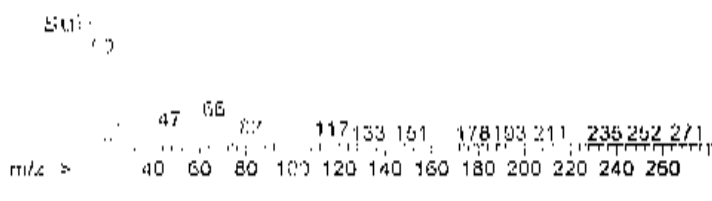
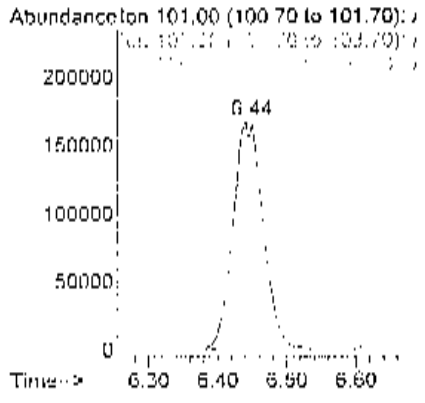
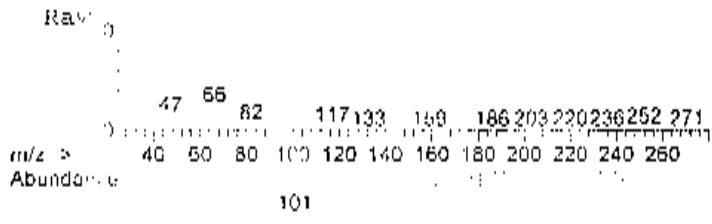
Tgt Ion	Resp	Lower	Upper
64	3935		
66	85.8	36.5	54.7#





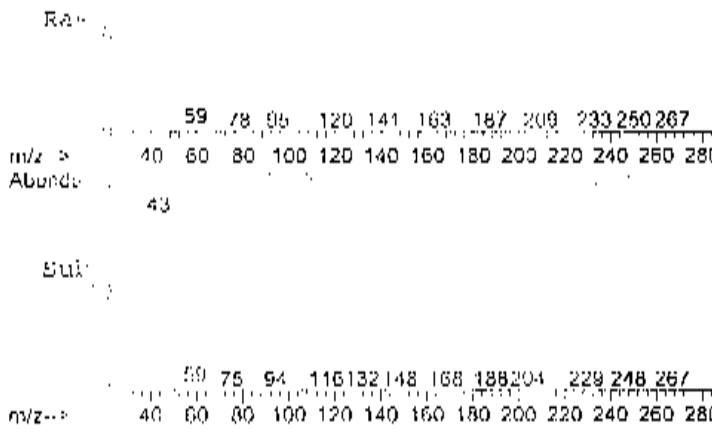
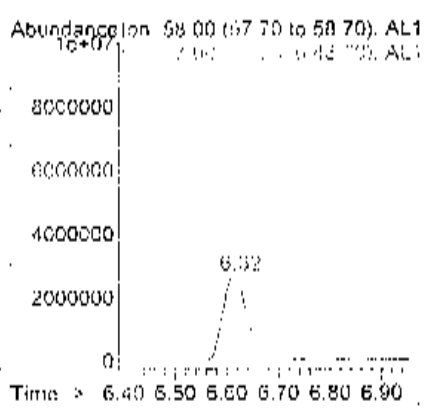
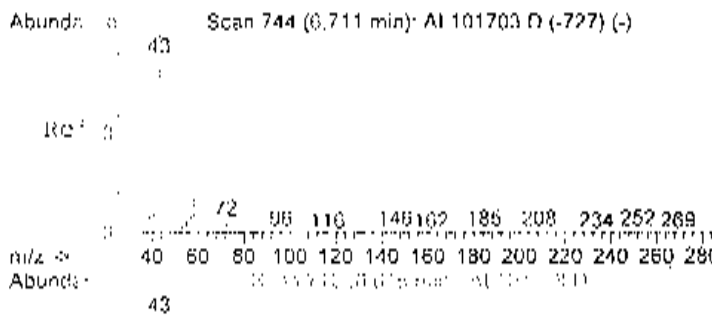
#15
 Freon 11
 Concen: 2.28 ppb
 RT: 6.44 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

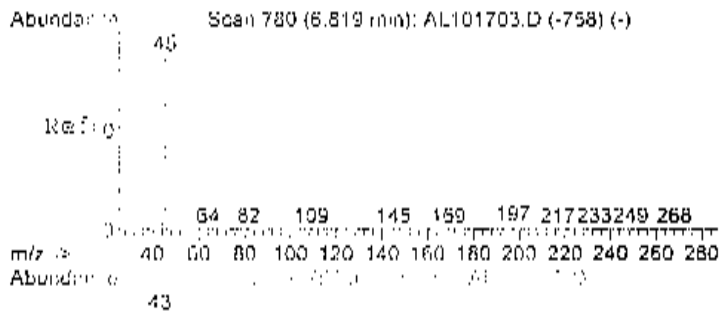
Tgt Ion	Resp	Lower	Upper
101	508815		
103	65.0	45.8	85.8
105	10.7	0.0	31.2



#16
 Acetone
 Concen: 571.93 ppb
 RT: 6.62 min Scan# 712
 Delta R.T. -0.06 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

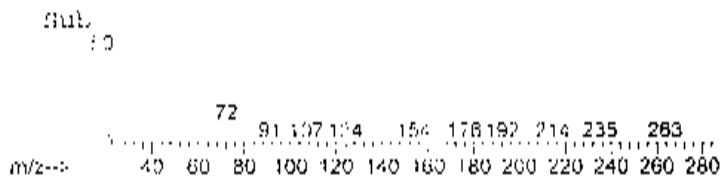
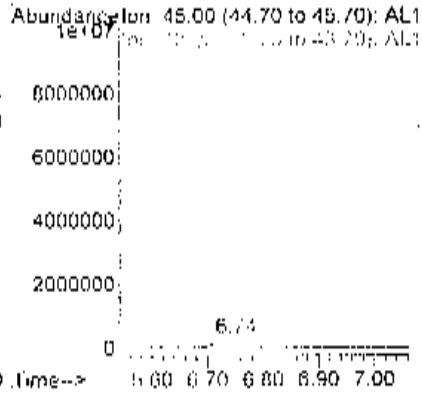
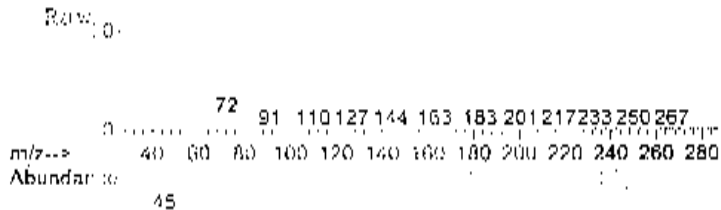
Tgt Ion	Resp	Lower	Upper
58	9083807		
43	339.8	510.7	574.7#





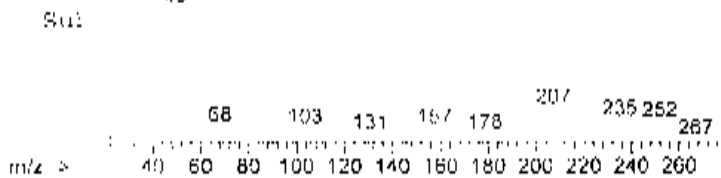
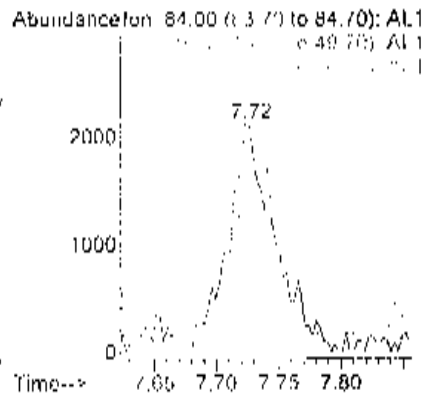
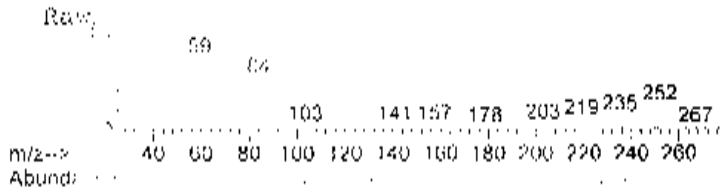
#18
 Isopropyl alcohol
 Concen: 19.44 ppb
 RT: 6.74 min Scan# 754
 Delta R.T. -0.06 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

Tot Ion	Resp	Lower	Upper
45	1057215		
43	100	0.0	20.0

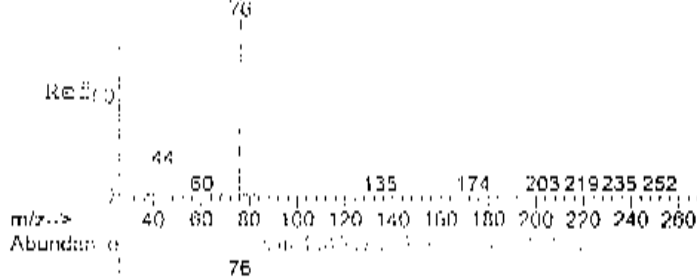


#22
 Methylene chloride
 Concen: 0.13 ppb
 RT: 7.72 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

Tot Ion	Resp	Lower	Upper
84	5580		
49	113.8	118.1	158.1#
86	64.2	56.4	96.4

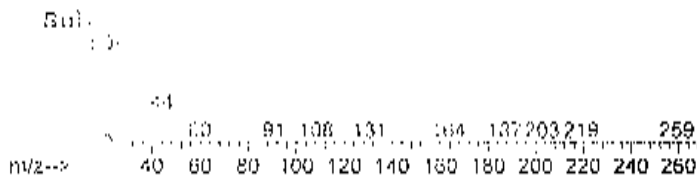
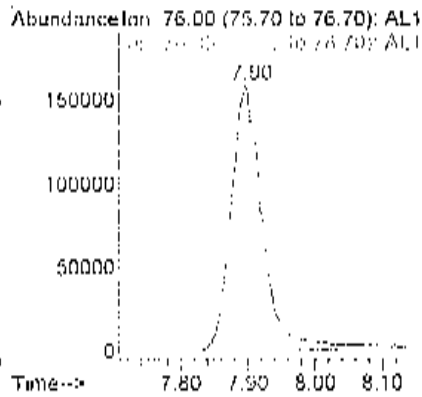
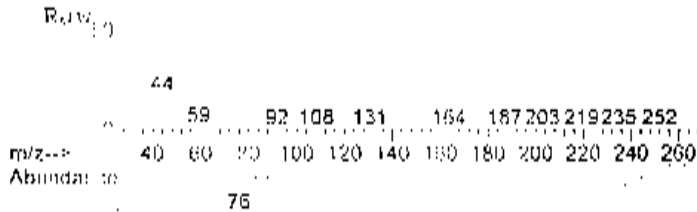


Abundance Scan 1139 (7.894 min): AL101703.D (-1118) (-)

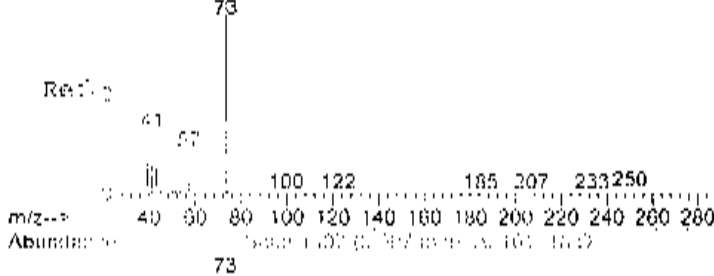


#24
Carbon disulfide
Concn: 3.38 ppb
RT: 7.90 min Scan# 1140
Delta R.T. 0.00 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.1

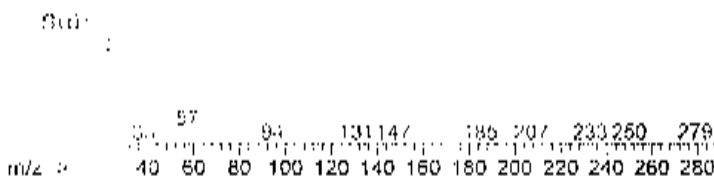
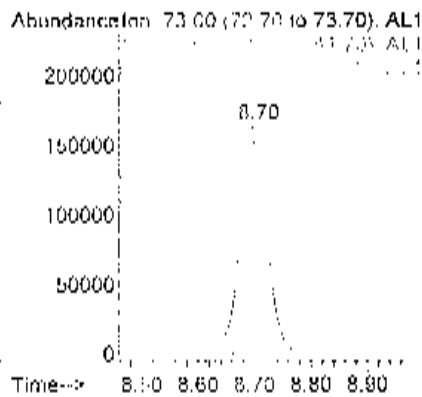
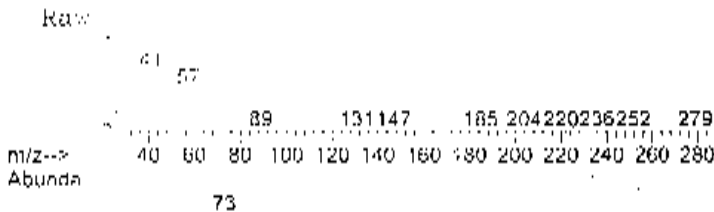


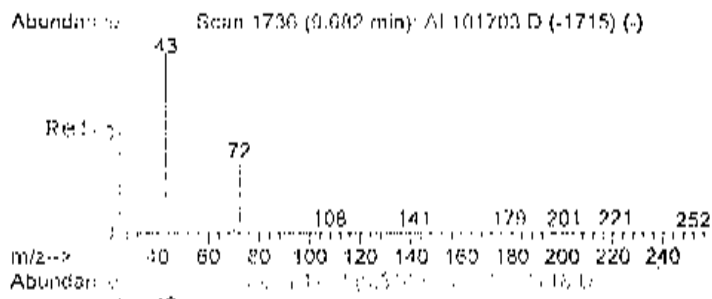
Abundance Scan 1425 (8.751 min): AL101703.D (-1403) (-)



#26
methyl tert-butyl ether
Concn: 3.68 ppb
RT: 8.70 min Scan# 1407
Delta R.T. 0.04 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

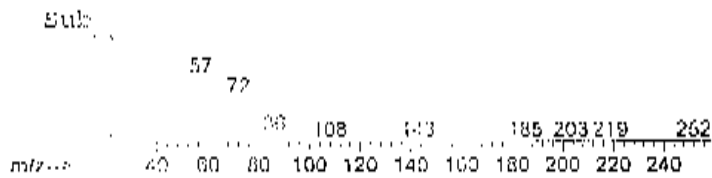
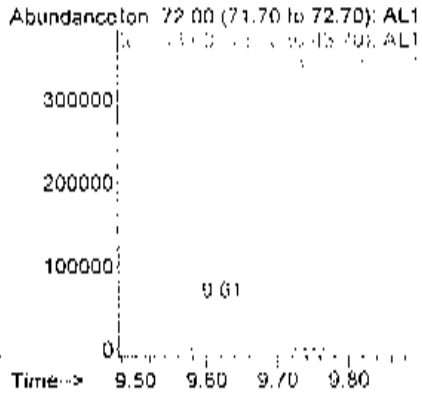
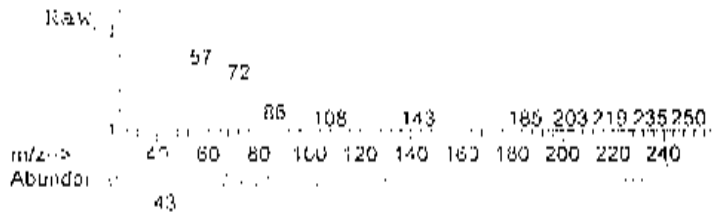
Tgt Ion	Ratio	Lower	Upper
73	100		
41	30.9	1.5	41.5
57	0.0	0.0	21.6





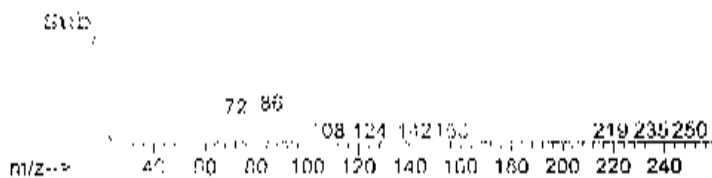
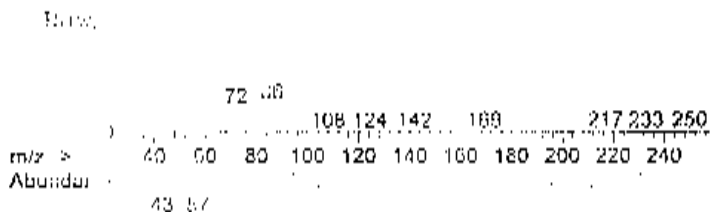
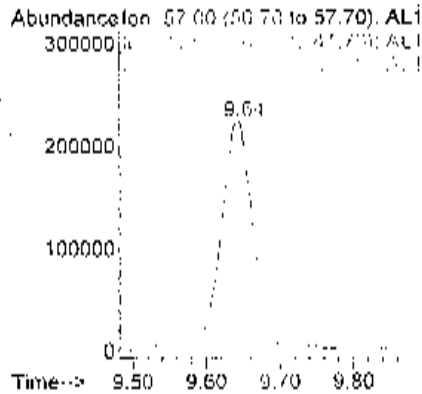
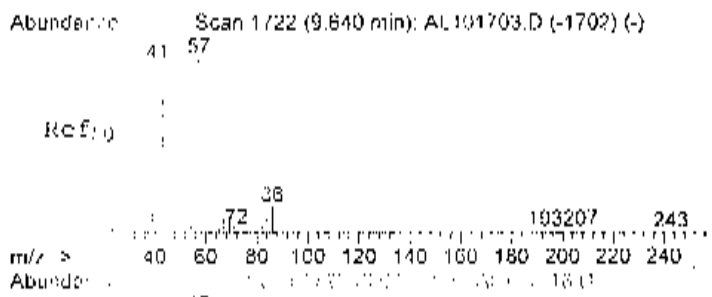
#29
Methyl Ethyl Ketone
Concen: 7.97 ppb
RT: 9.61 min Scan# 1713
Delta R.T. 0.05 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

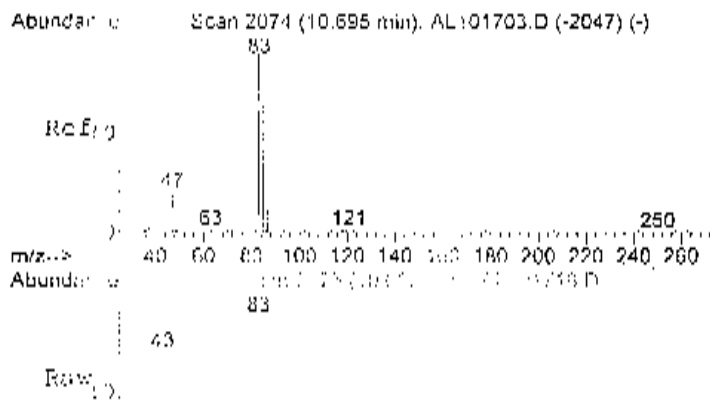
Tgt Ion	Resp	Lower	Upper
72	177702		
43	589.5	530.5	570.5#
72	100.0	80.0	120.0



#31
Hexane
Concen: 7.26 ppb
RT: 9.64 min Scan# 1723
Delta R.T. 0.00 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

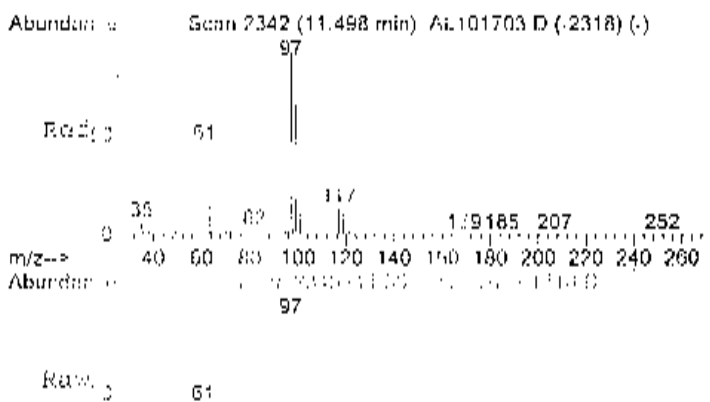
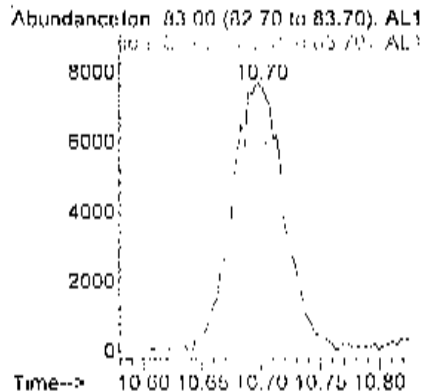
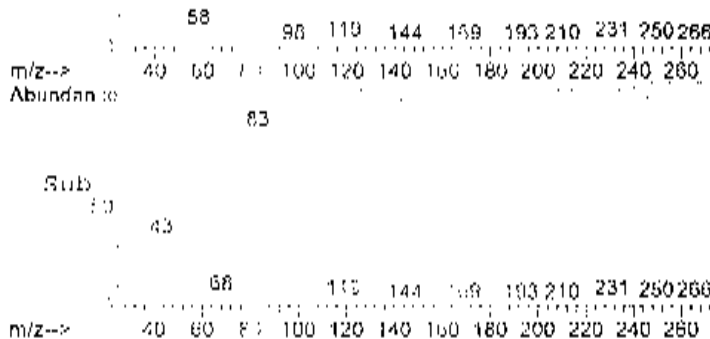
Tgt Ion	Resp	Lower	Upper
57	665128		
41	77.4	45.2	85.2
56	49.4	39.0	69.0





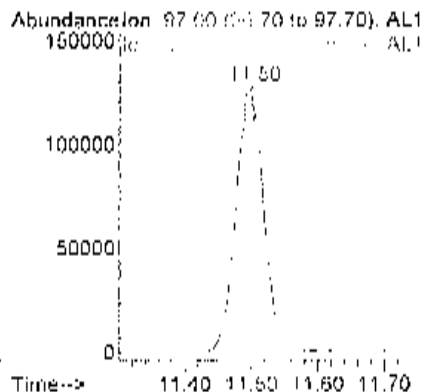
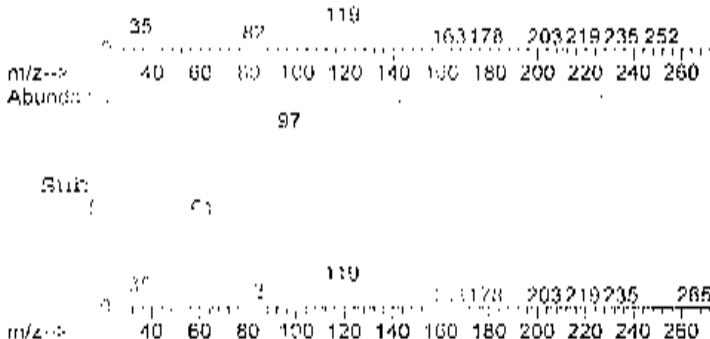
#33
 Chloroform
 Concn: 0.13 ppb
 RT: 10.70 min Scan# 2075
 Delta R.T. 0.01 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

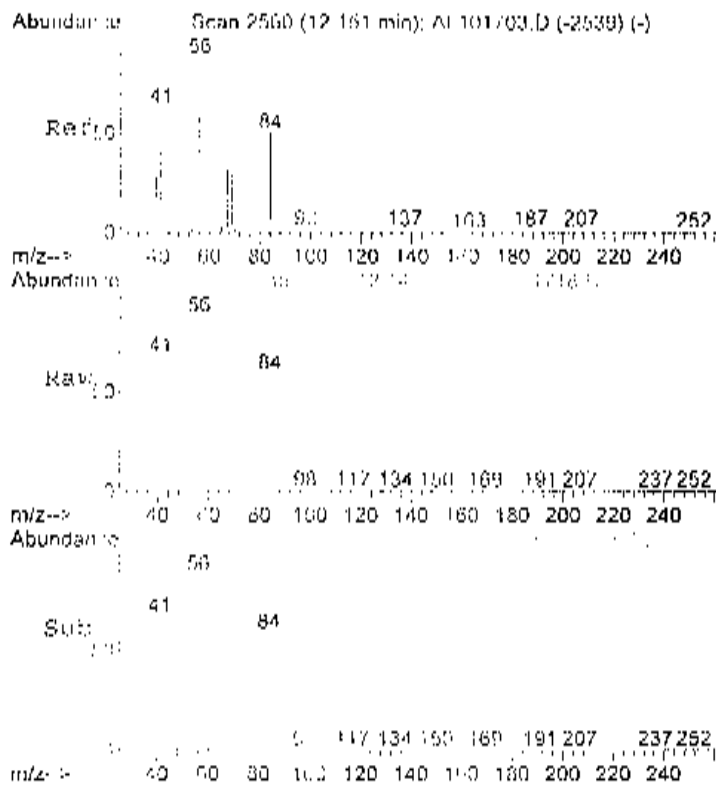
Tgt Ion	Resp	Lower	Upper
83	100		
85	75.9	41.9	84.9



#37
 1,1,1-trichloroethane
 Concn: 0.27 ppb
 RT: 11.50 min Scan# 2343
 Delta R.T. 0.01 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

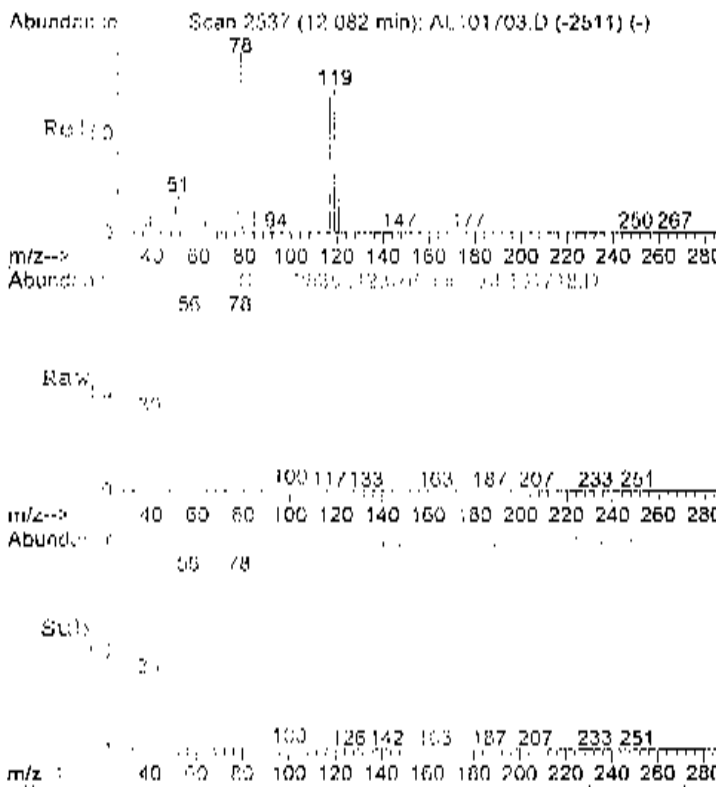
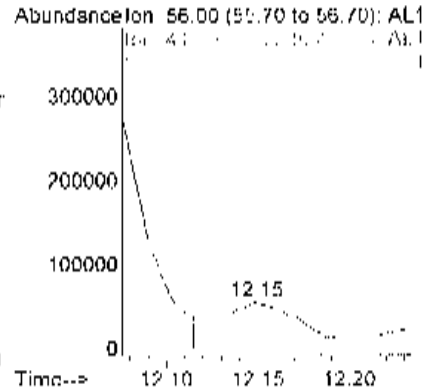
Tgt Ion	Resp	Lower	Upper
97	100		
99	64.9	43.6	83.6





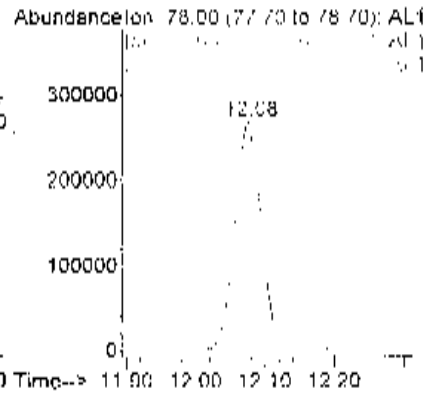
#38
 Cyclohexane
 Concen: 2.13 ppb m
 RT: 12.15 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

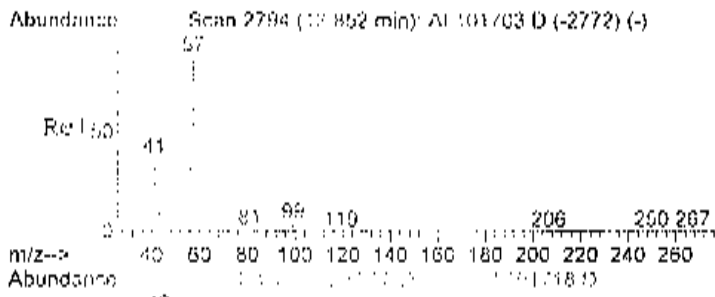
Tgt Ion	Resp	Lower	Upper
56	174356		
41	742.5	34.6	74.6#
84	11.7	84.9	124.9#



#40
 Benzene
 Concen: 3.67 ppb
 RT: 12.08 min Scan# 2535
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

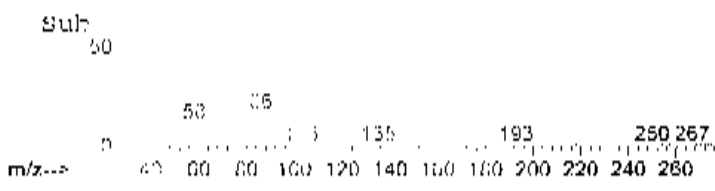
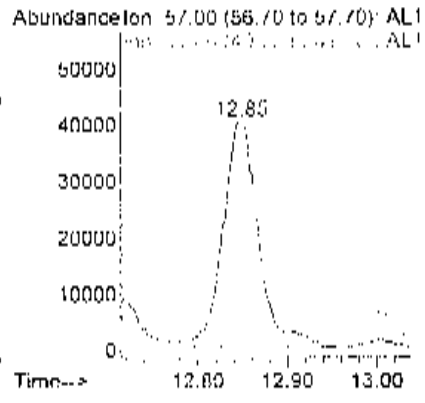
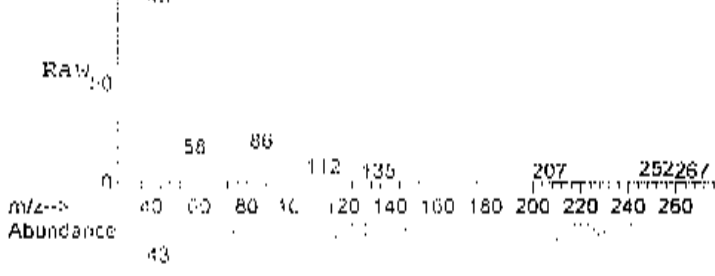
Tgt Ion	Resp	Lower	Upper
78	710956		
77	23.9	3.6	43.6
51	22.6	0.0	36.3





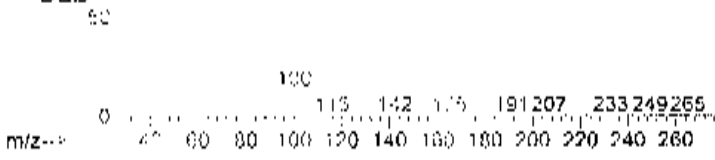
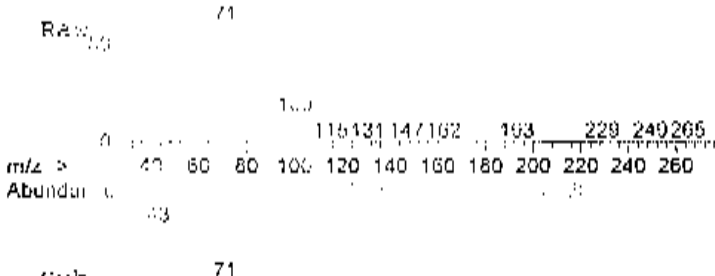
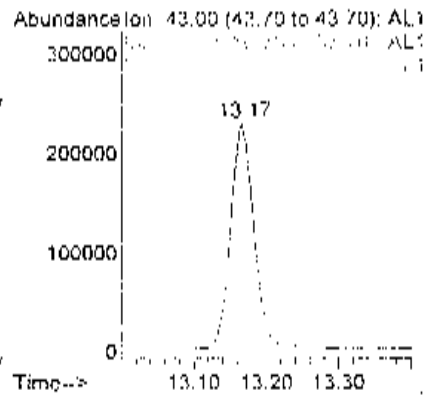
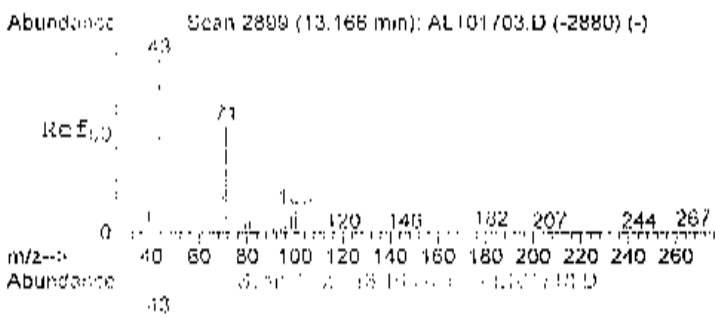
#43
 2,2,4 trimethylpentane
 Concen: 0.44 ppb
 RT: 12.85 min Scan# 2792
 Delta R.T. -0.01 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

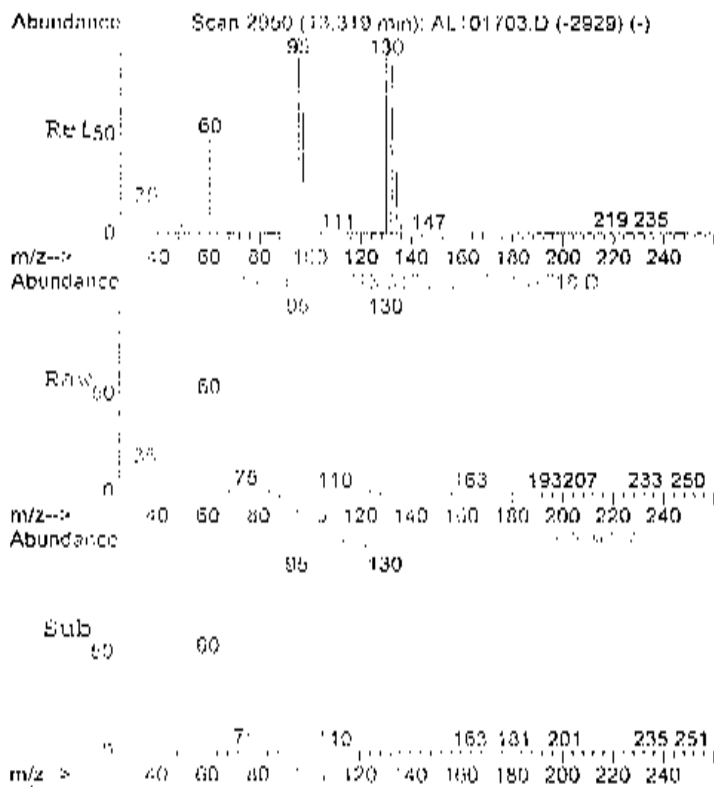
Tgt Ion	Resp	Lower	Upper
57	109966		
41	123.5	6.2	46.2#
56	80.9	12.4	52.4#



#44
 Heptane
 Concen: 6.34 ppb
 RT: 13.17 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

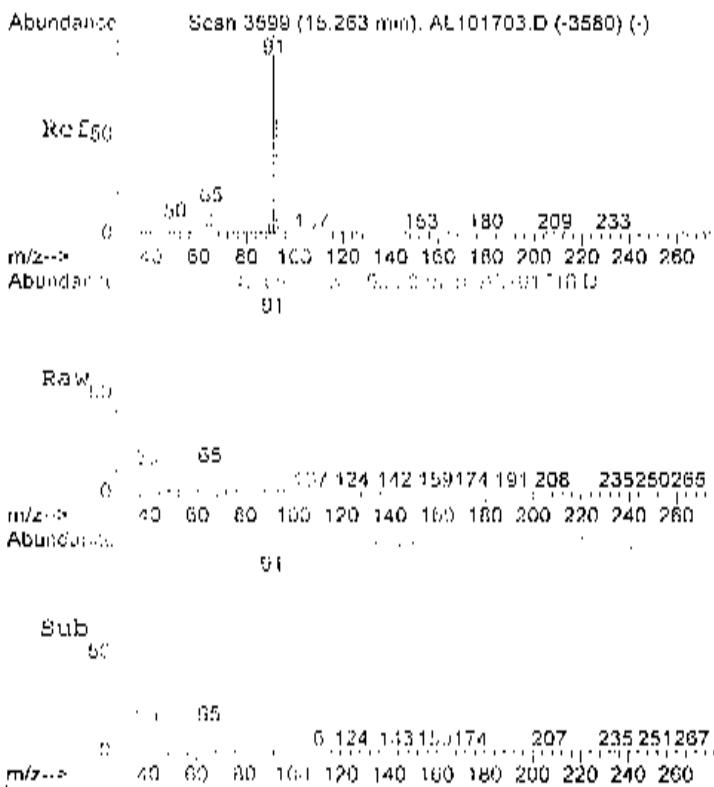
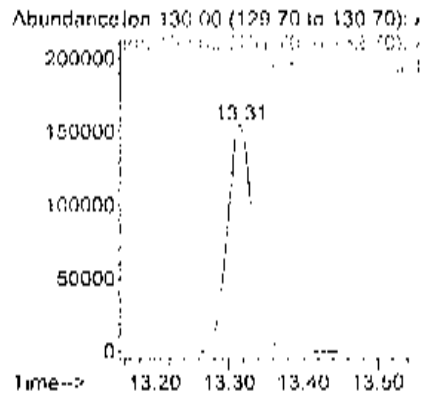
Tgt Ion	Resp	Lower	Upper
43	516260		
57	68.9	34.7	74.7
71	57.0	39.1	79.1





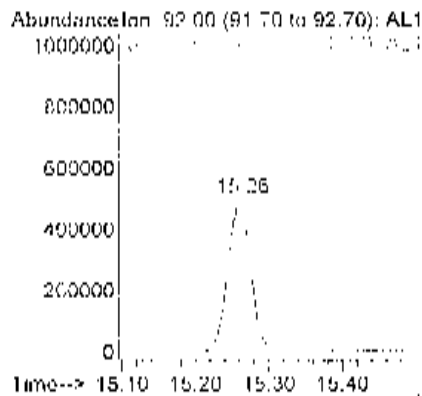
#45
 Trichloroethene
 Concent: 4.00 ppb
 RT: 13.31 min Scan# 2948
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

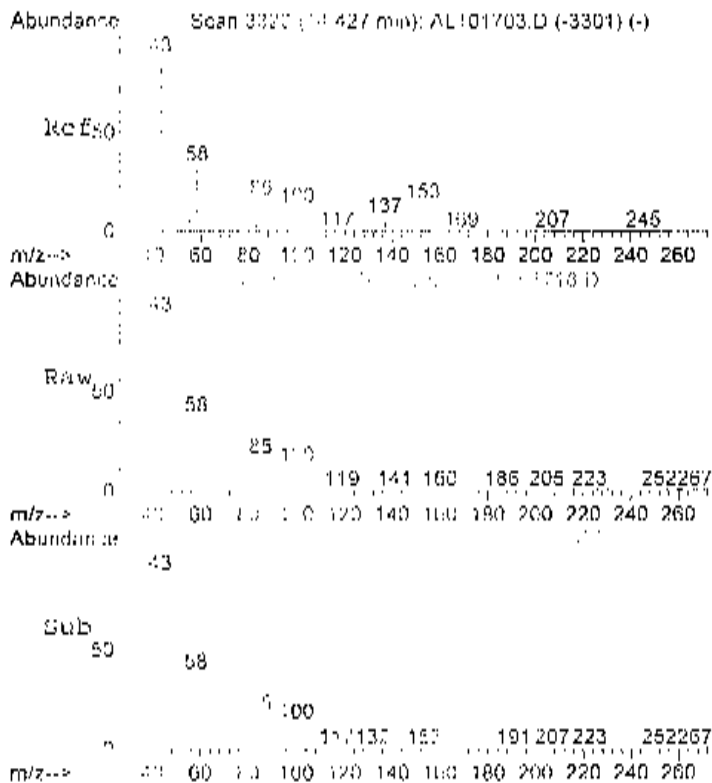
Tgt Ion	Resp	Lower	Upper
130	100		
132	96.1	78.0	118.0
95	101.0	82.4	122.4



#52
 Toluene
 Concent: 7.27 ppb
 RT: 15.26 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

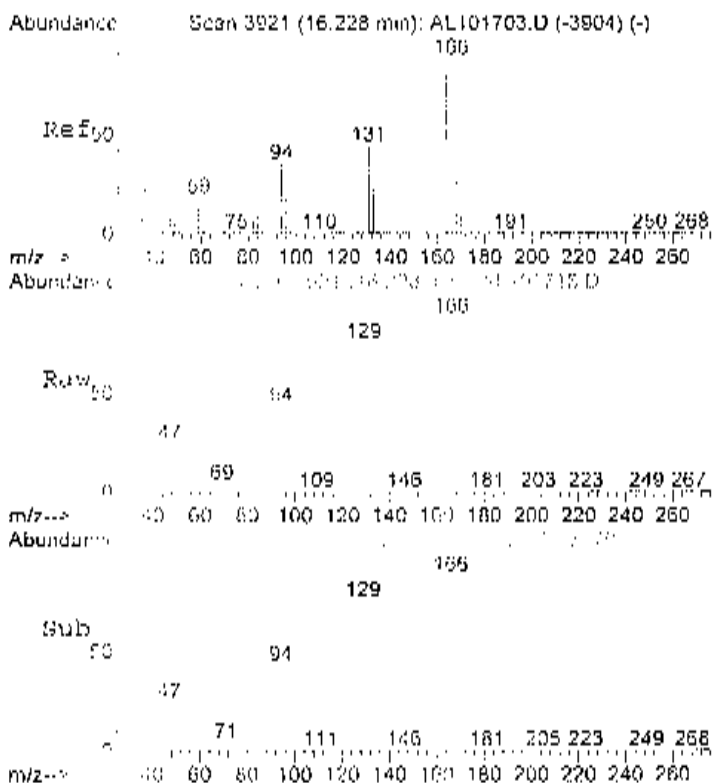
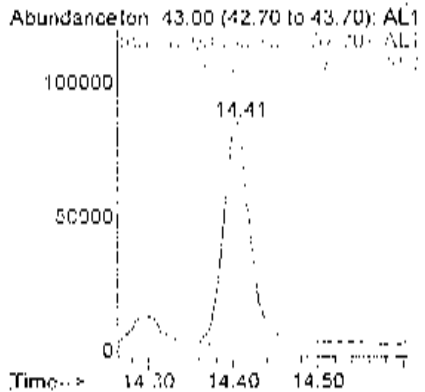
Tgt Ion	Resp	Lower	Upper
92	100		
91	173.5	154.2	194.2





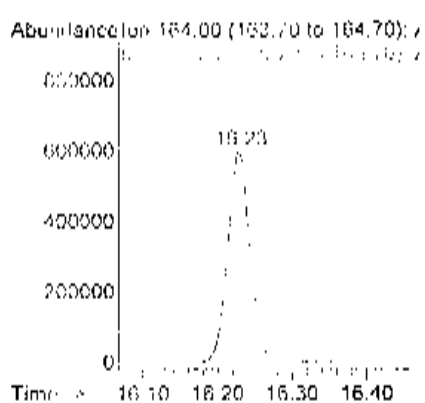
#53
 Methyl isobutyl ketone
 Concen: 1.65 ppb
 RT: 14.41 min Scan# 3313
 Delta R.T. -0.02 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

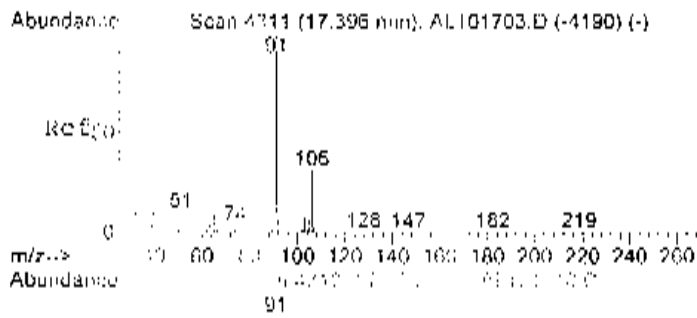
Tot Ion	Resp	Lower	Upper
43	183691		
57	28.1	3.4	43.4
58	36.8	20.9	60.9



#57
 Tetrachloroethylene
 Concen: 9.50 ppb
 RT: 16.23 min Scan# 3921
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

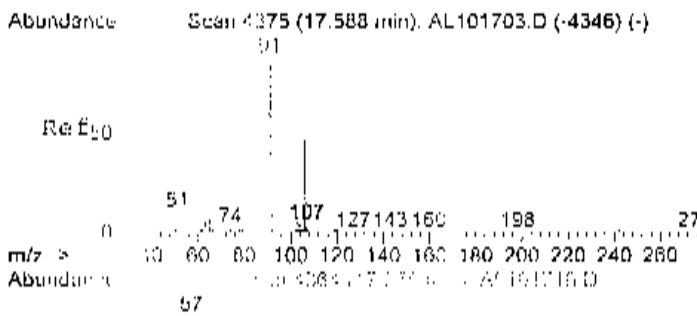
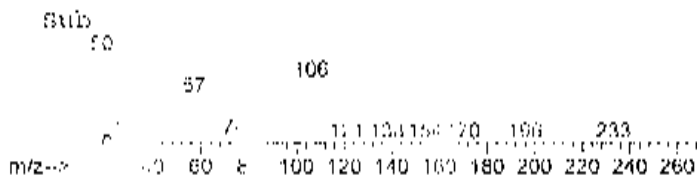
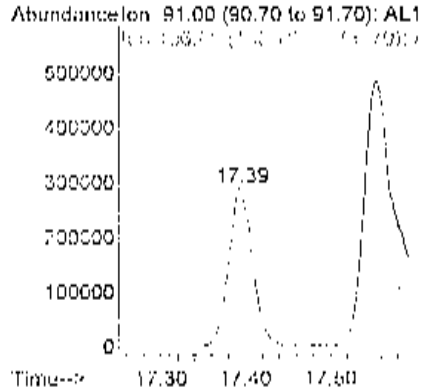
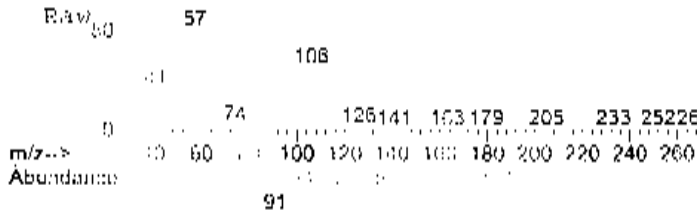
Tot Ion	Resp	Lower	Upper
164	1230370		
166	128.3	108.0	148.0





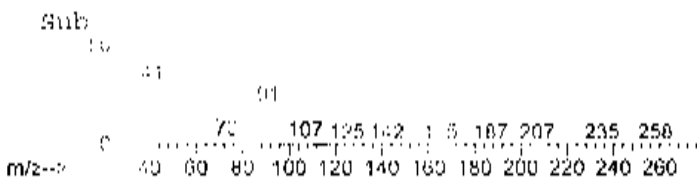
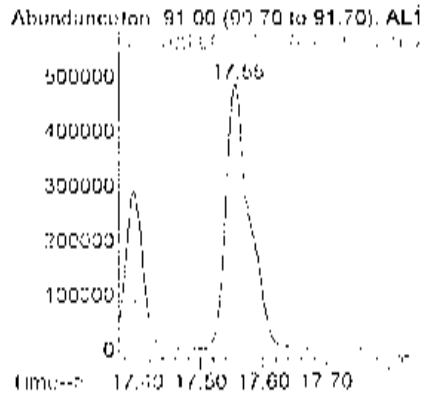
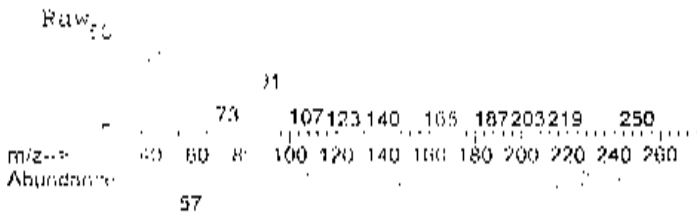
#60
Ethylbenzene
Concn: 1.85 ppb
RT: 17.39 min Scan# 4310
Delta R.T.: 0.00 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

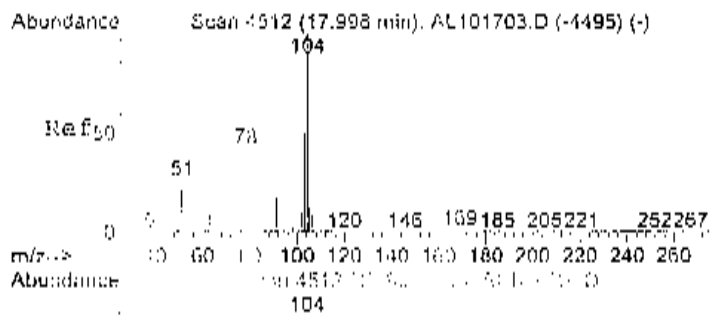
Tgt Ion	Resp	Lower	Upper
91	570678		
106	30.6	12.2	52.2



#61
m,p-xylene
Concn: 5.21 ppb
RT: 17.55 min Scan# 4364
Delta R.T.: 0.03 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

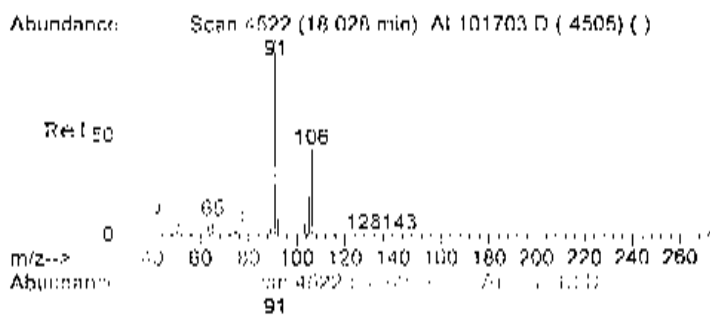
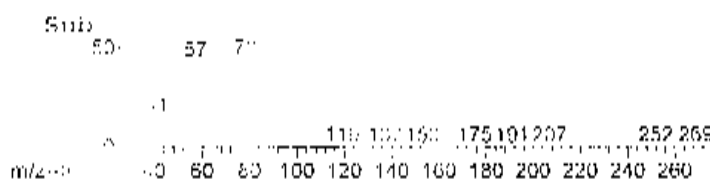
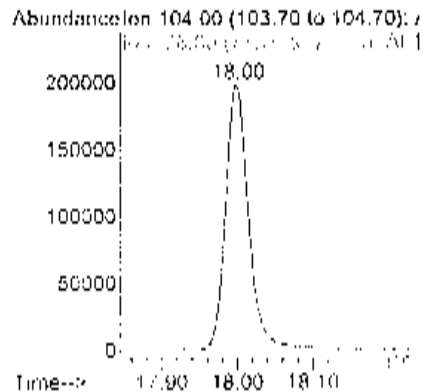
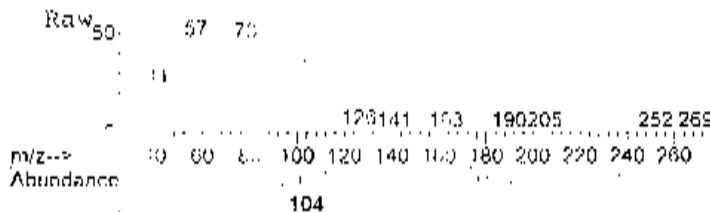
Tgt Ion	Resp	Lower	Upper
91	1271373		
106	47.9	39.2	69.2





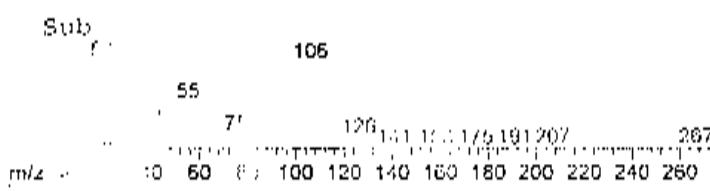
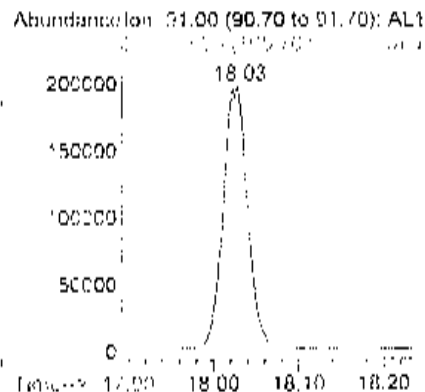
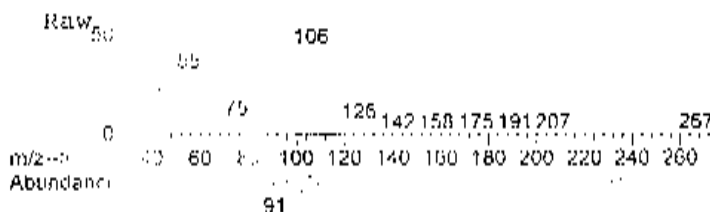
#63
Styrene
Concn: 2.52 ppb
RT: 18.00 min Scan# 4512
Delta R.T. -0.00 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

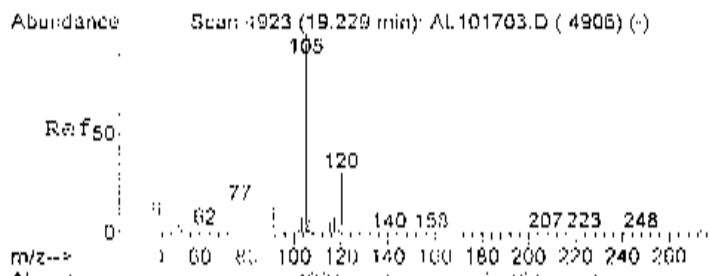
Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.0	31.2	71.2



#65
o-xylene
Concn: 1.27 ppb
RT: 18.03 min Scan# 4522
Delta R.T. 0.00 min
Lab File: AL101718.D
Acq: 17 Oct 2014 10:30 pm

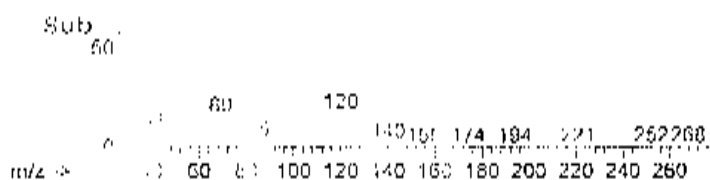
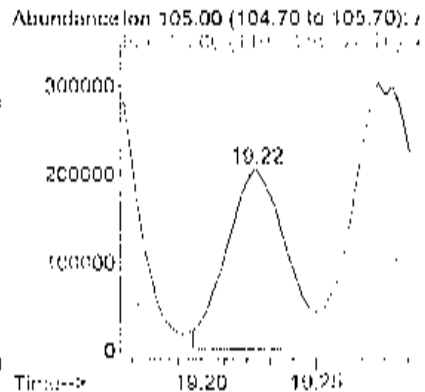
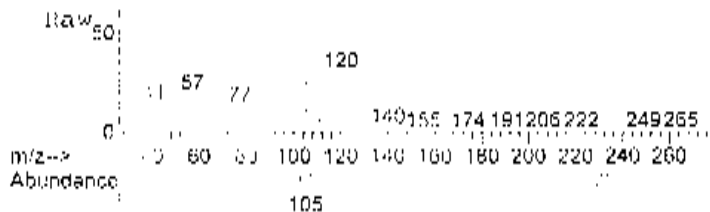
Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.9	26.7	66.7





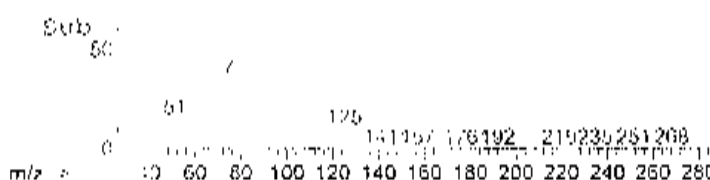
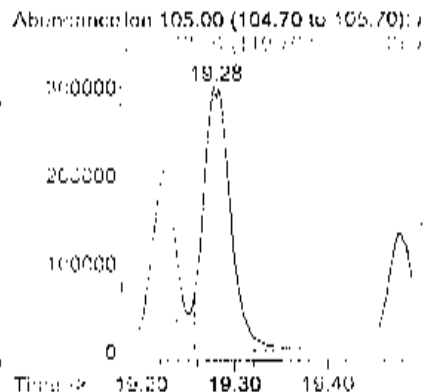
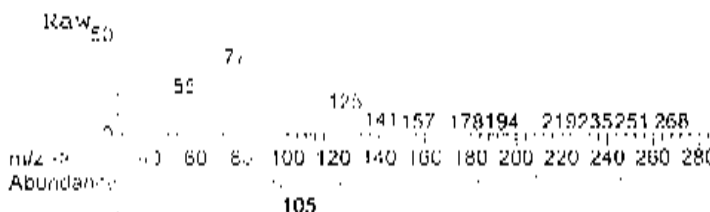
#71
 4-ethyltoluene
 Concent: 1.36 ppb
 RT: 19.22 min Scan# 4921
 Delta R.T. -0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

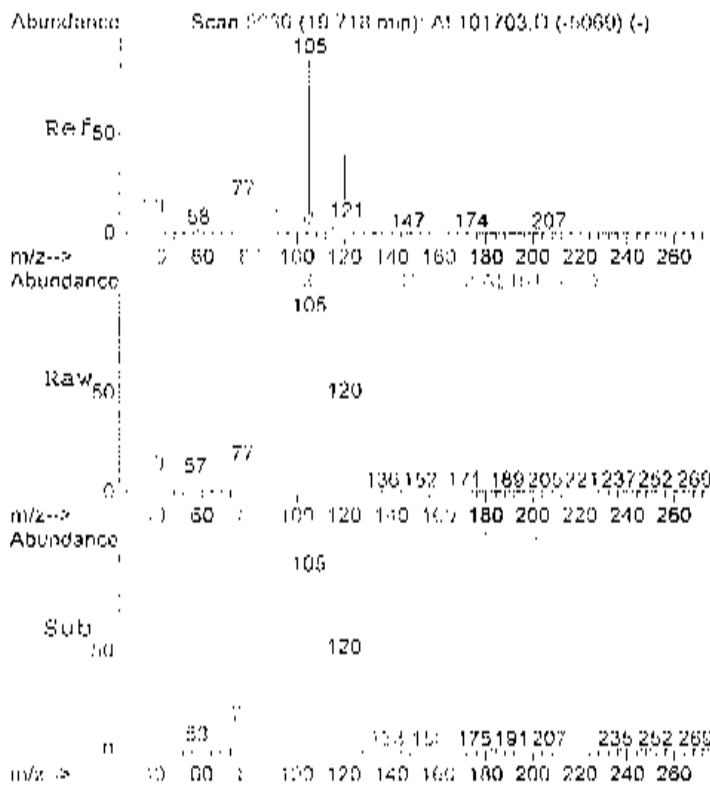
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	599231		
120	28.4	0.0	20.0#	



#72
 1,3,5-trimethylbenzene
 Concent: 1.69 ppb
 RT: 19.28 min Scan# 4939
 Delta R.T. 0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

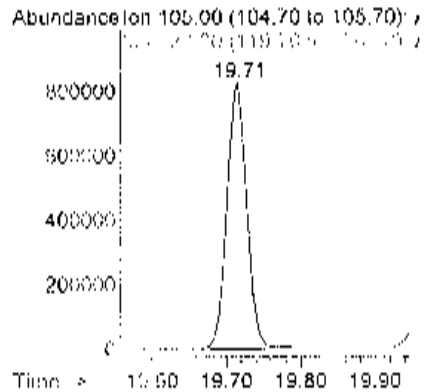
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	595993		
120	35.2	0.0	20.0#	





#73
 1,2,4 trimethylbenzene
 Concen: 5.97 ppb
 RT: 19.71 min Scan# 5085
 Delta R.T. -0.00 min
 Lab File: AL101718.D
 Acq: 17 Oct 2014 10:30 pm

Tgt Ion	Resp	Lower	Upper
105	1518334		
120	66.3	25.3	65.3



Data File : C:\HPCHEM\1\DATA\AL101730.D
 Acq On : 18 Oct 2014 5:57 am
 Sample : C1410057-009A 10X
 Misc : A910 1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:22:04 2014

Vial: 13
 Operator: RJP
 Inst: MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	32218	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	130786	1.00	ppb	0.00
51) Chlorobenzene d5	17.12	117	108472	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	74009	0.96	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	96.00%	

Target Compounds

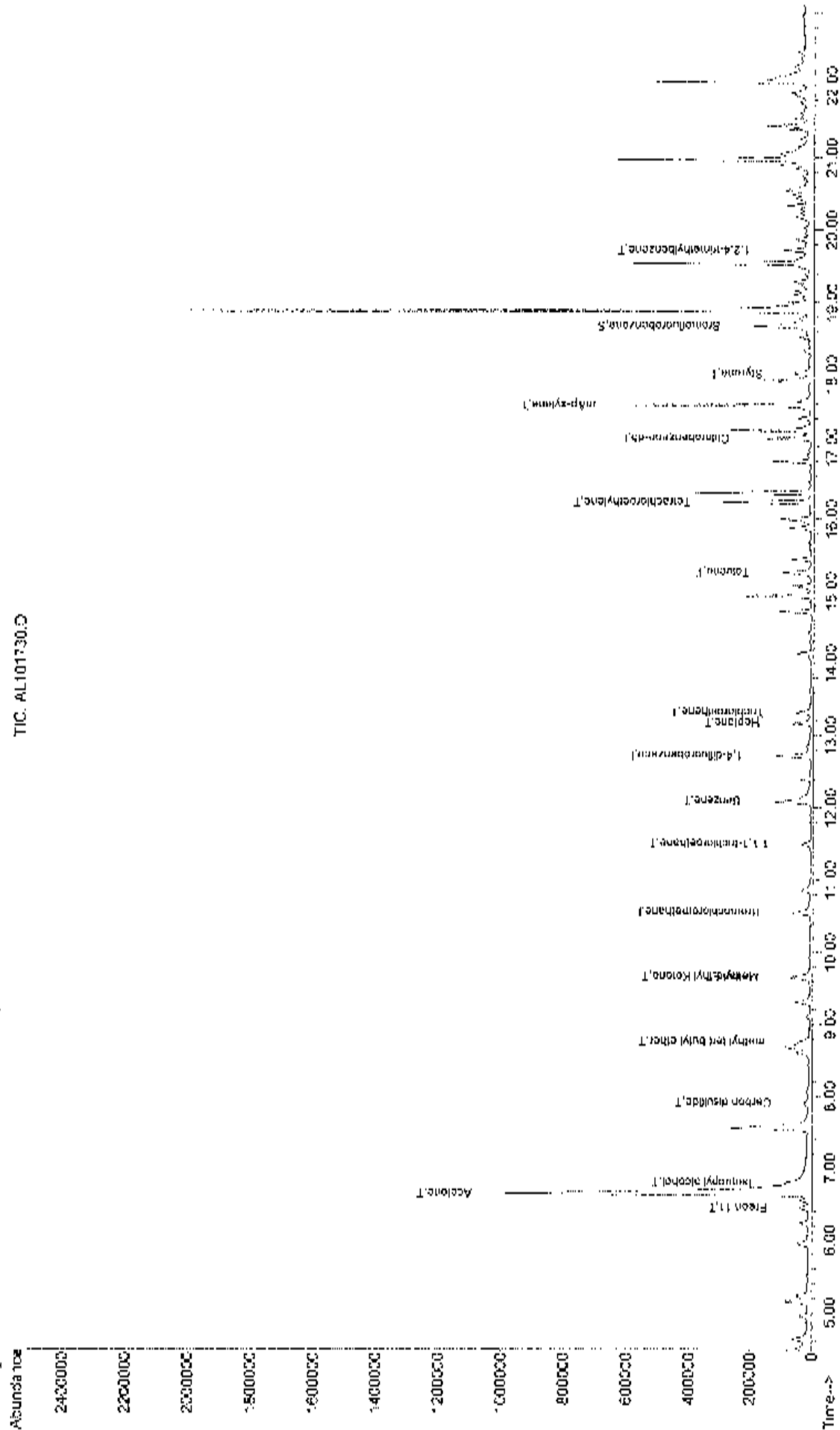
	R.T.	QTon	Response	Conc	Units	Ovalue
15) Freon 11	6.45	101	39756	0.26	ppb	100
16) Acetone	6.64	58	674317	63.07	ppb	# 42
18) Isopropyl alcohol	6.80	45	60591	1.66	ppb	# 100
24) Carbon disulfide	7.90	76	29753	0.29	ppb	93
26) methyl tert-butyl ether	8.75	73	29597m	0.30	ppb	
29) Methyl Ethyl Ketone	9.66	72	9767m	0.65	ppb	
31) Hexane	9.65	57	35540m	0.58	ppb	
37) 1,1,1-trichloroethane	11.51	97	25843	0.24	ppb	100
40) Benzene	12.08	78	44359	0.35	ppb	90
44) Heptane	13.18	43	26518m	0.49	ppb	
45) Trichloroethene	13.32	130	23061m	0.37	ppb	
52) Toluene	15.27	92	49893	0.66	ppb	98
57) Tetrachloroethylene	16.23	164	72354	1.09	ppb	99
61) m,p-xylene	17.57	91	65055m	0.52	ppb	
63) Styrene	18.00	104	15220m	0.18	ppb	
73) 1,2,4 trimethylbenzene	19.72	105	49554	0.38	ppb	99

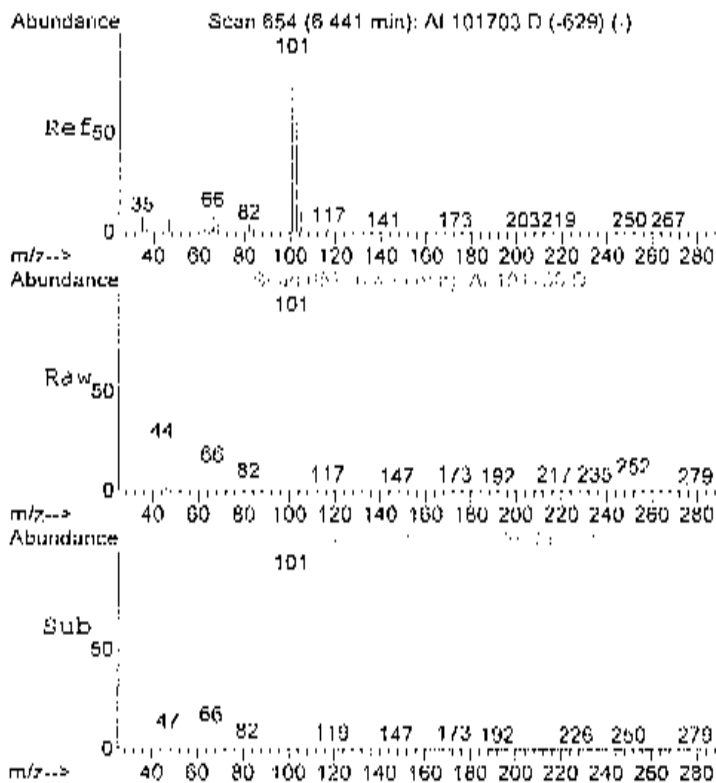
Data File : C:\HPCHEM\1\DATA\AL101730.D
Acq On : 18 Oct 2014 5:57 am
Sample : C1410057-009A_10X
Misc : A910_10G
MS Integration Params: RTEINC.P
Quant Time: Oct 20 14:20 2014

Quant Results File: A910_10G.RES

Method : C:\HPCHEM\1\METHODS\A910_10G.M (RTE Integrator)
Title : TO-15 VOC Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

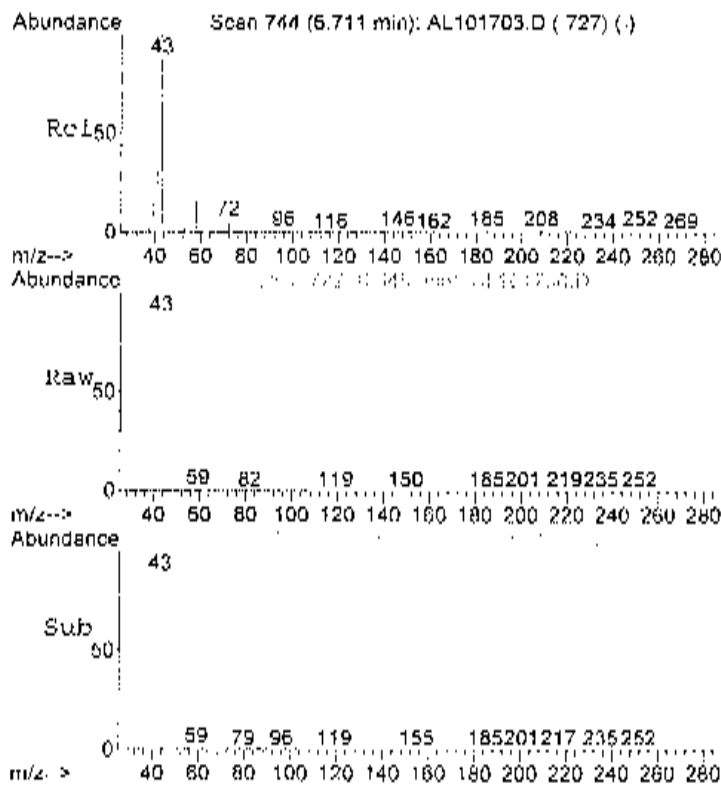
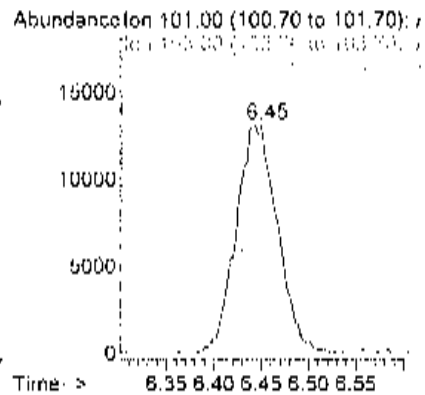
TIC: AL101730.D





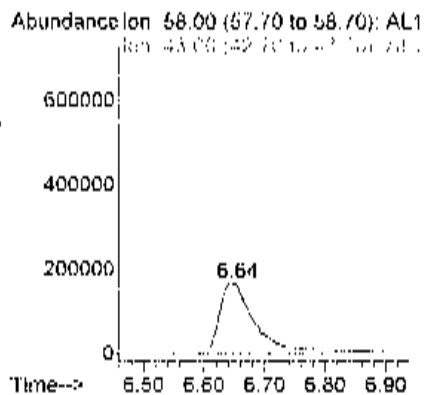
#15
 Preon 11
 Concen: 0.26 ppb
 RT: 6.45 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

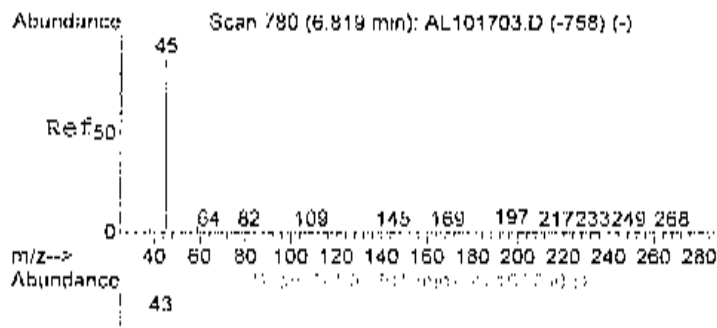
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	45.8	85.8
105	11.2	0.0	31.2



#16
 Acetone
 Concen: 63.07 ppb
 RT: 6.64 min Scan# 722
 Delta R.T. -0.03 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

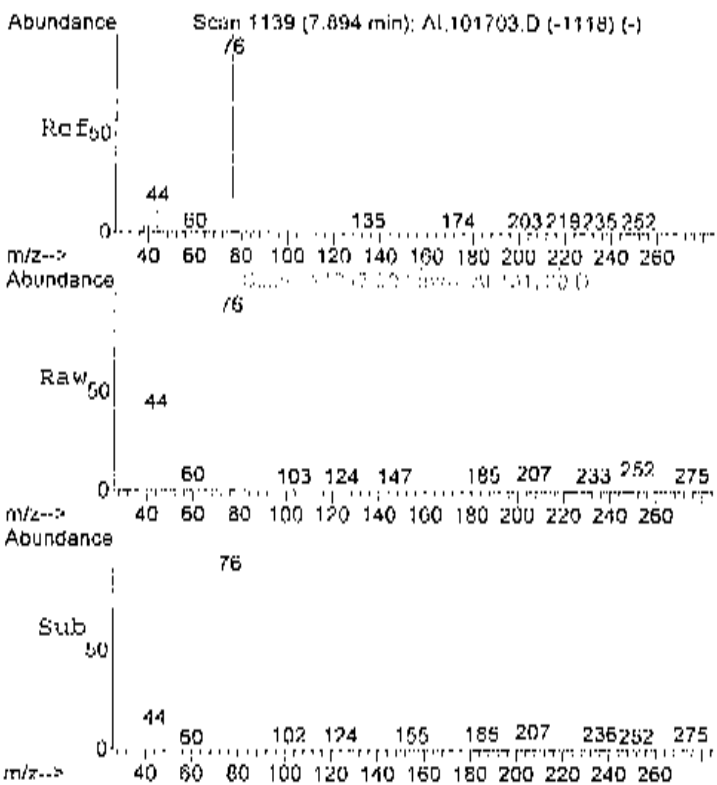
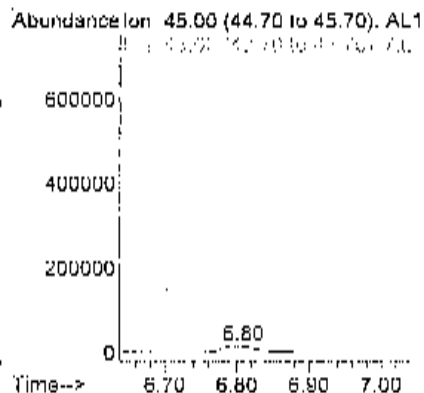
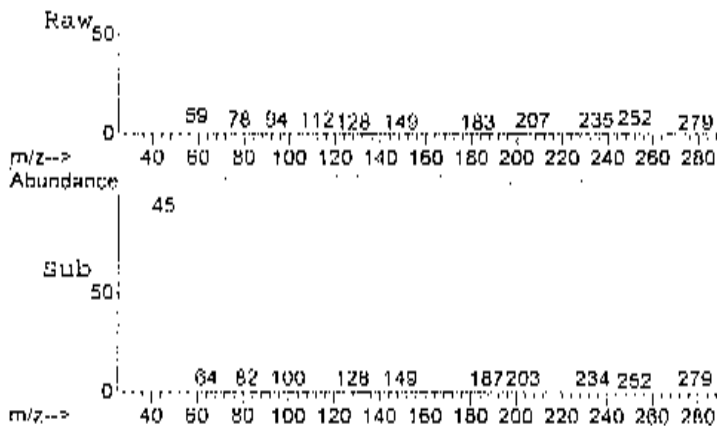
Tgt Ion	Ratio	Lower	Upper
58	100		
43	375.6	514.7	574.7#





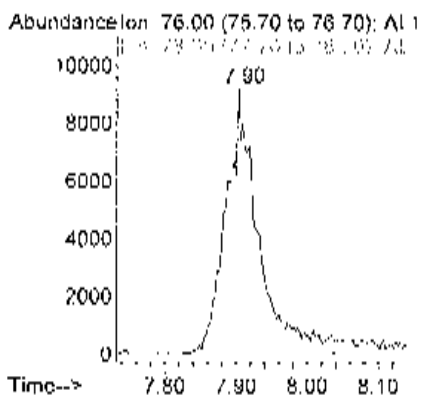
#18
 Isopropyl alcohol
 Concen: 1.66 ppb
 RT: 6.80 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

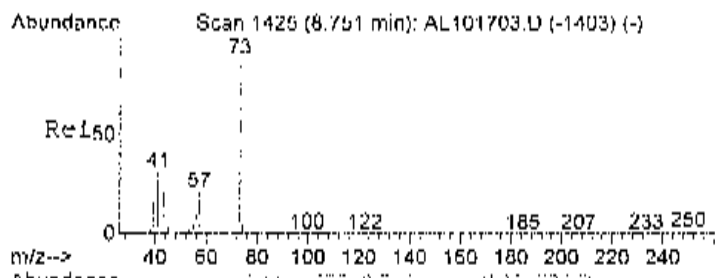
Tgt Ion	Resp	Lower	Upper
45	60591		
43	100	0.0	20.0



#24
 Carbon disulfide
 Concen: 0.29 ppb
 RT: 7.90 min Scan# 1142
 Delta R.T. 0.01 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

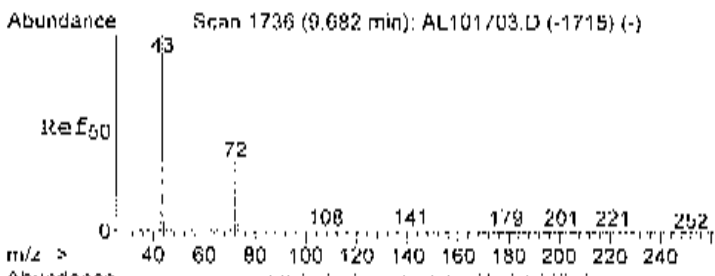
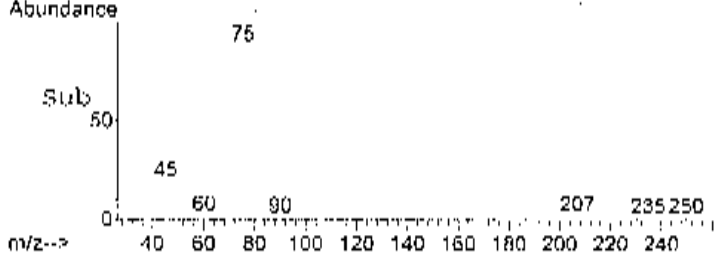
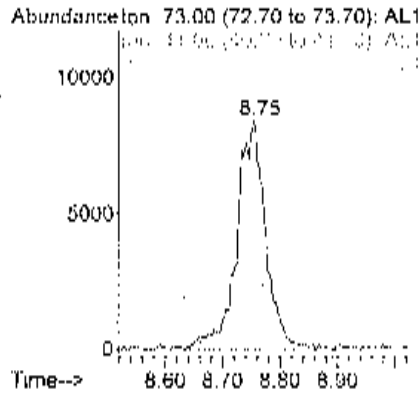
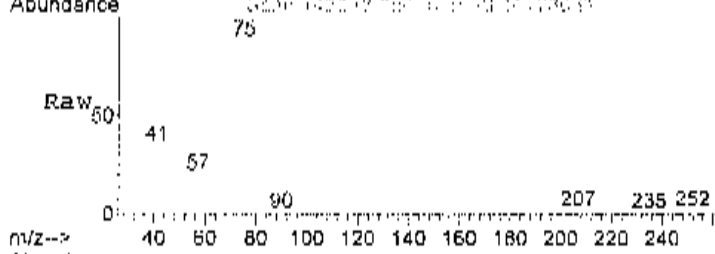
Tgt Ion	Resp	Lower	Upper
76	29753		
78	11.8	0.0	29.1





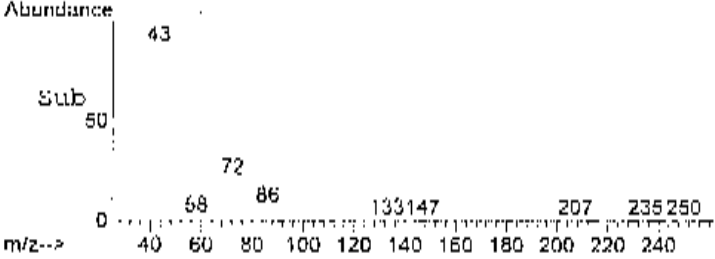
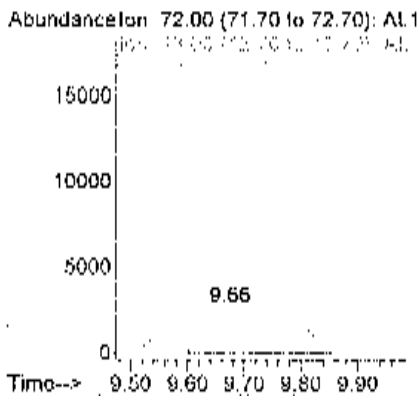
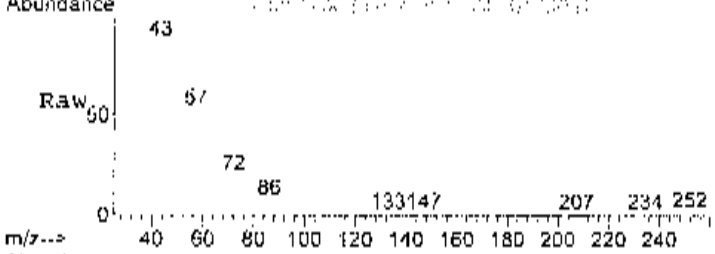
#26
 methyl tert-butyl ether
 Concen: 0.30 ppb m
 RT: 8.75 min Scan# 1426
 Delta R.T. 0.02 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

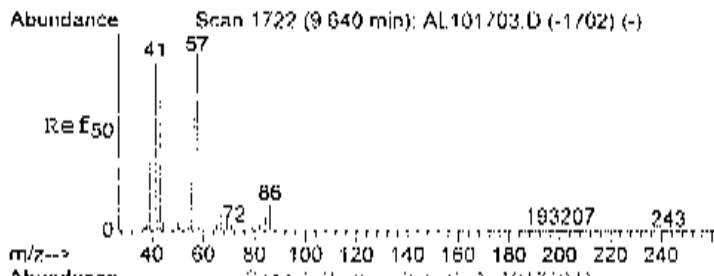
Tgt Ion	Resp	Lower	Upper
73	29597		
73	100		
41	37.5	1.5	41.5
53	8.2	0.0	21.6



#29
 Methyl Ethyl Ketone
 Concen: 0.65 ppb m
 RT: 9.66 min Scan# 1730
 Delta R.T. 0.00 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

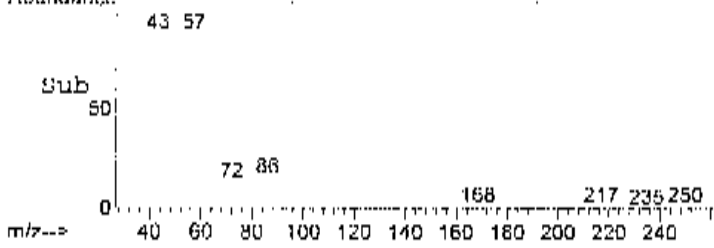
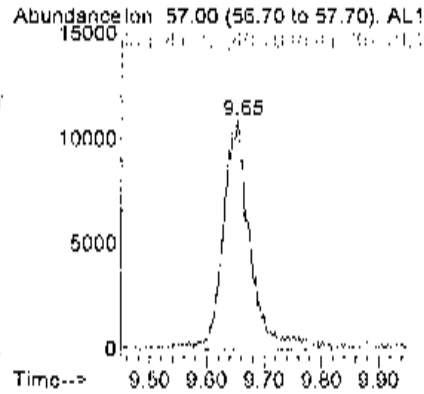
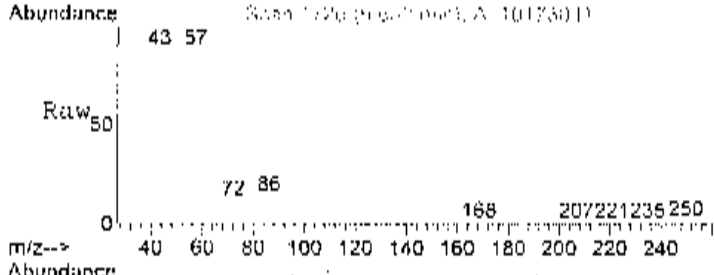
Tgt Ion	Resp	Lower	Upper
72	9767		
72	100		
43	0.0	530.5	570.5#
72	83.7	80.0	120.0





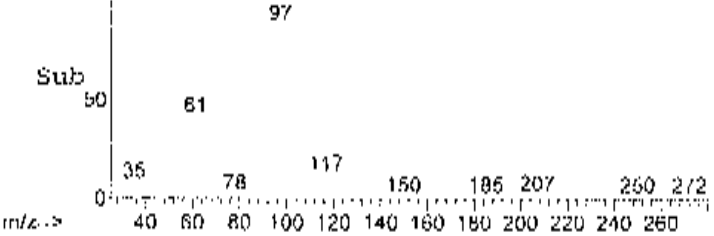
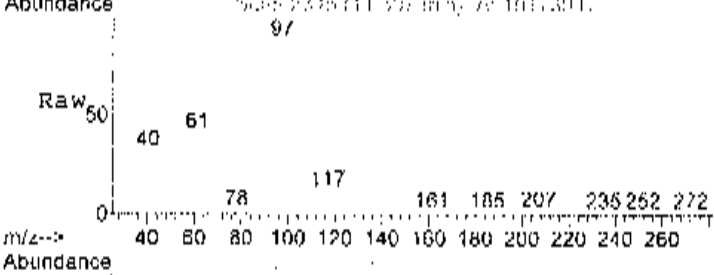
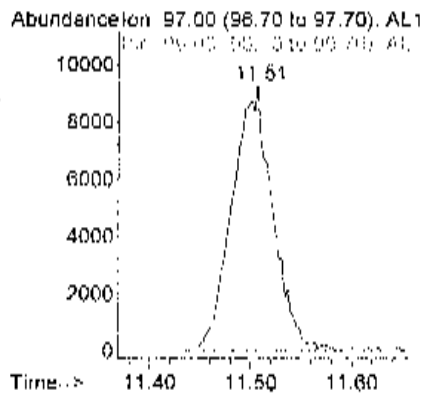
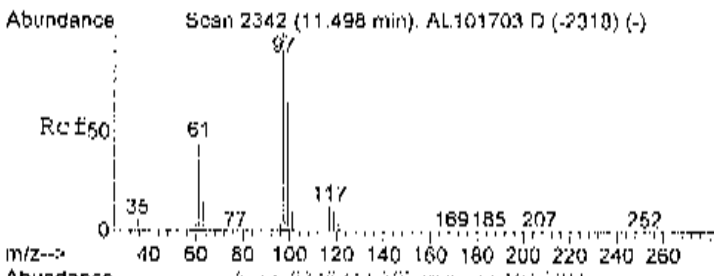
#31
Hexane
Concen: 0.58 ppb m
RT: 9.65 min Scan# 1726
Delta R.T. 0.01 min
Lab File: AL101730.D
Acq: 18 Oct 2014 5:57 am

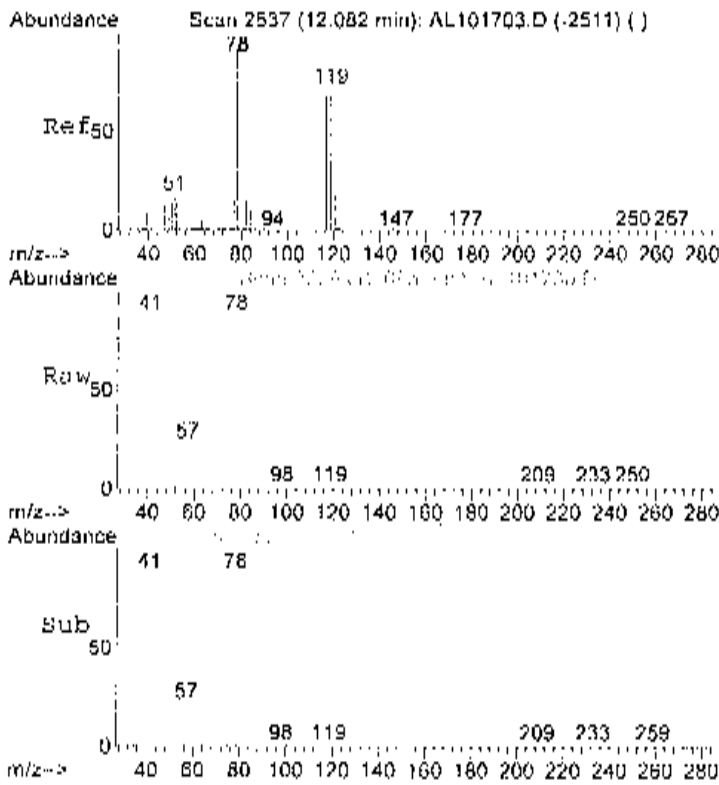
Tgt	Ion	Ratio	Lower	Upper
57	100			
41	86.2	45.2	85.2	
56	55.4	29.0	69.0	



#37
1,1,1-trichloroethane
Concen: 0.24 ppb
RT: 11.51 min Scan# 2345
Delta R.T. 0.01 min
Lab File: AL101730.D
Acq: 18 Oct 2014 5:57 am

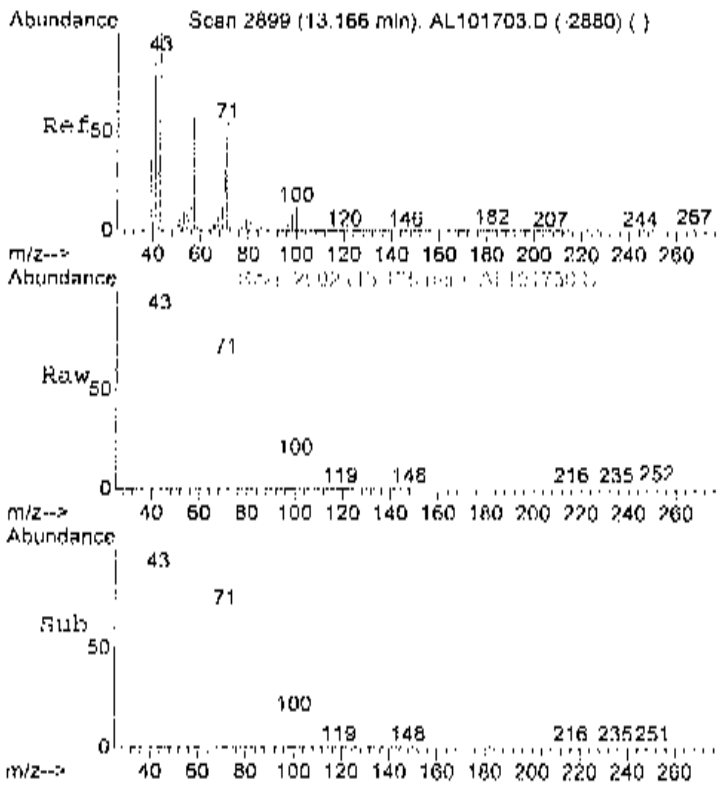
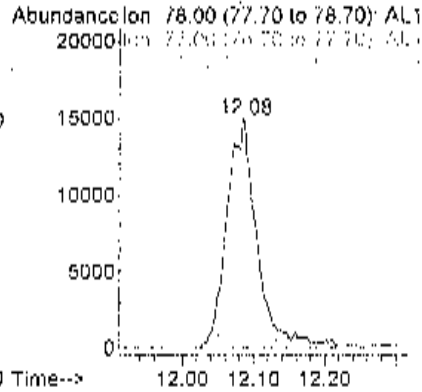
Tgt	Ion	Ratio	Lower	Upper
97	100			
99	63.9	43.6	83.6	





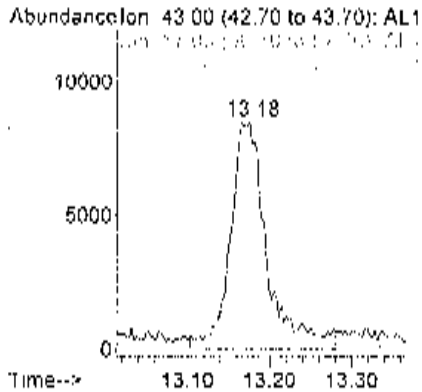
#40
Benzene
Concen: 0.35 ppb
RT: 12.08 min Scan# 2538
Delta R.T. 0.01 min
Lab File: AL101730.D
Acq: 18 Oct 2014 5:57 am

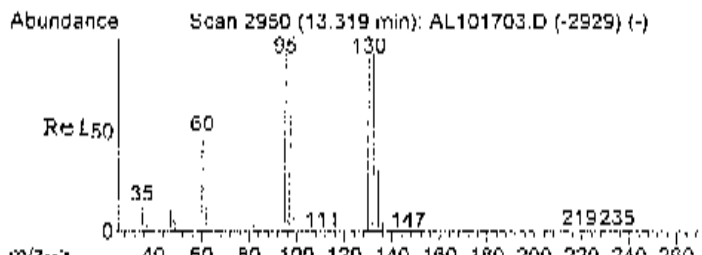
Tgt Ion	Resp	Lower	Upper
78	44359		
77	26.4	3.6	43.6
51	23.0	0.0	36.3



#44
Heptane
Concen: 0.49 ppb m
RT: 13.18 min Scan# 2902
Delta R.T. 0.01 min
Lab File: AL101730.D
Acq: 18 Oct 2014 5:57 am

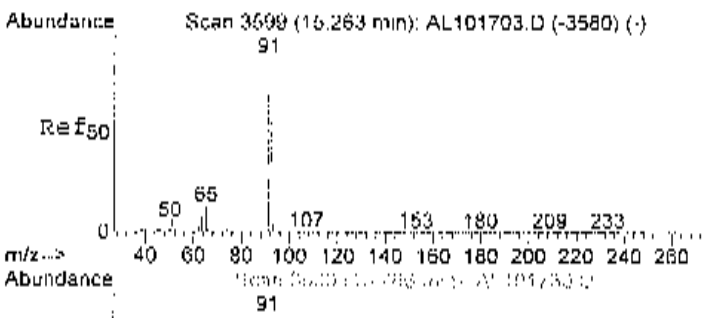
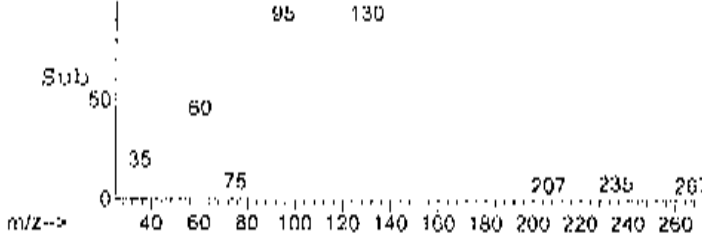
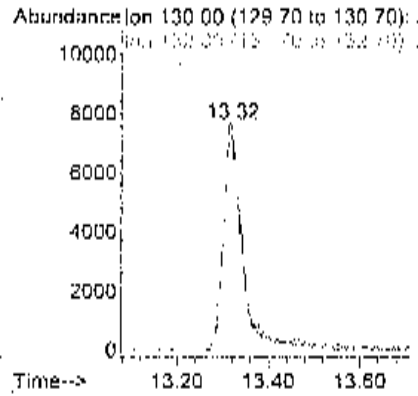
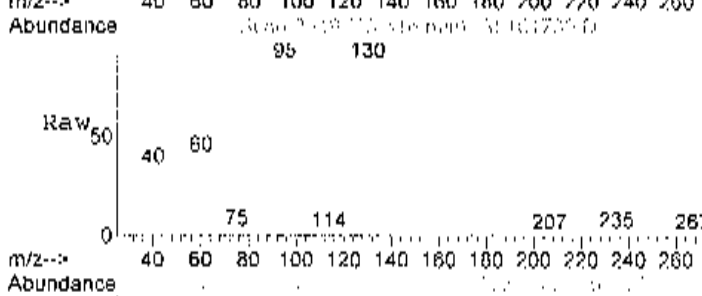
Tgt Ion	Resp	Lower	Upper
43	26518		
57	58.4	34.7	74.7
71	48.6	39.1	79.1





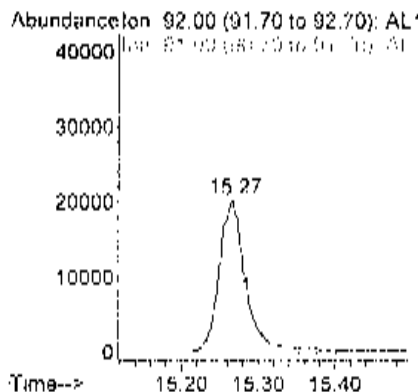
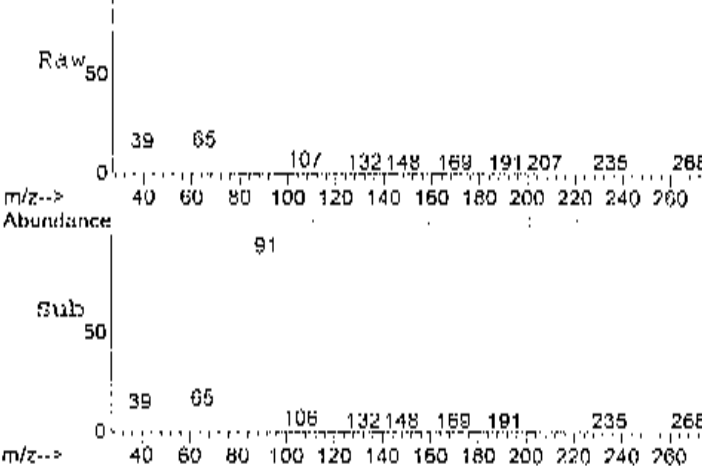
#45
 Trichloroethene
 Concen: 0.37 ppb m
 RT: 13.32 min Scan# 2949
 Delta R.T. 0.01 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

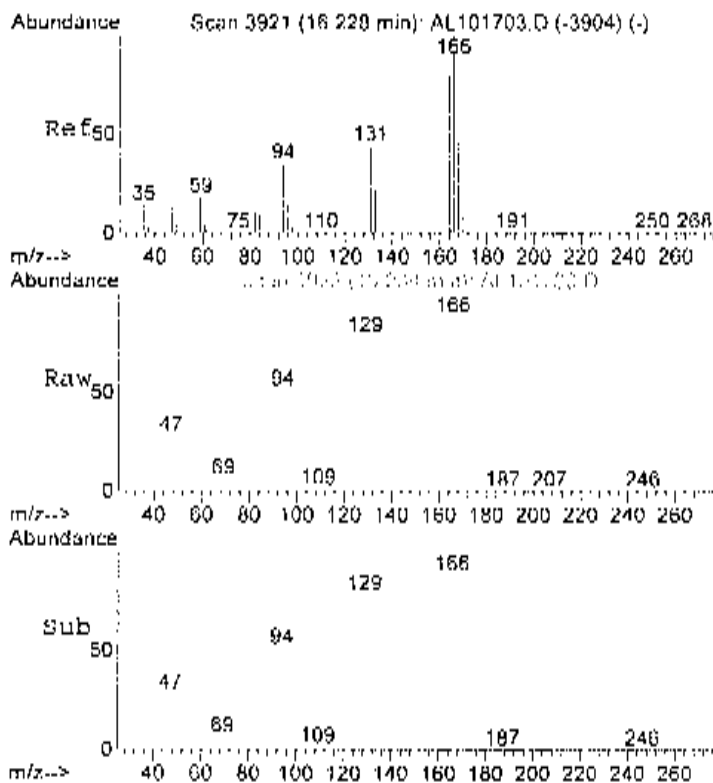
Tgt Ion	Resp	Lower	Upper
130	23061		
132	93.0	78.0	118.0
95	95.3	82.4	122.4



#52
 Toluene
 Concen: 0.66 ppb
 RT: 15.27 min Scan# 3600
 Delta R.T. 0.01 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

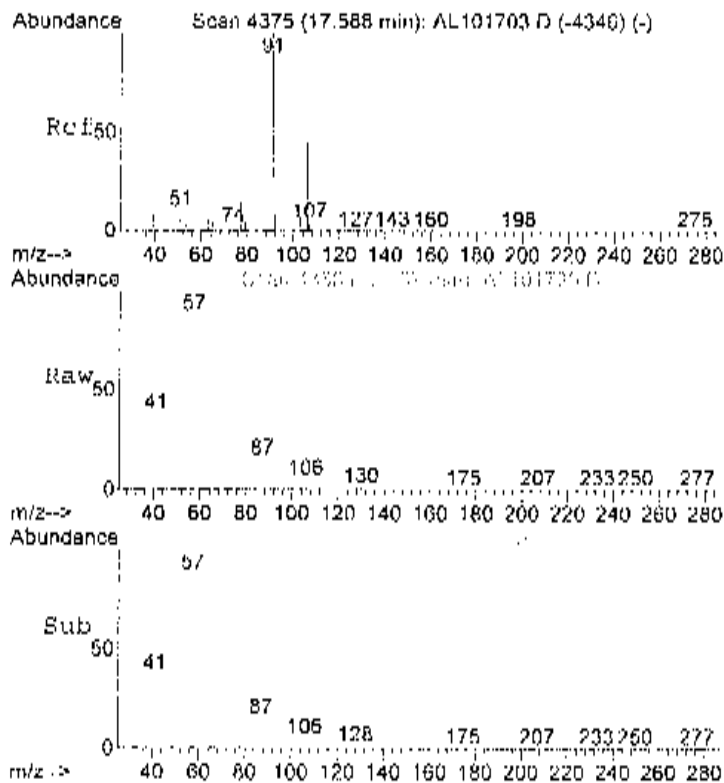
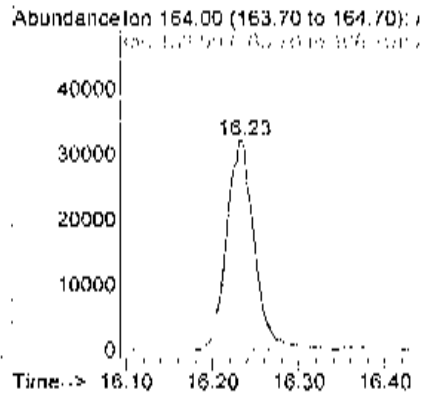
Tgt Ion	Resp	Lower	Upper
92	49893		
92	100		
91	176.9	154.2	194.2





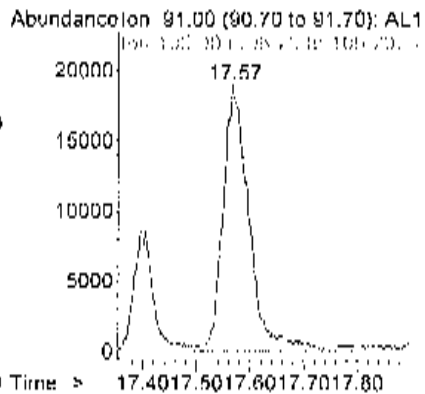
#57
 Tetrachloroethylene
 Concen: 1.09 ppb
 RT: 16.23 min Scan# 3923
 Delta R.T. 0.01 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

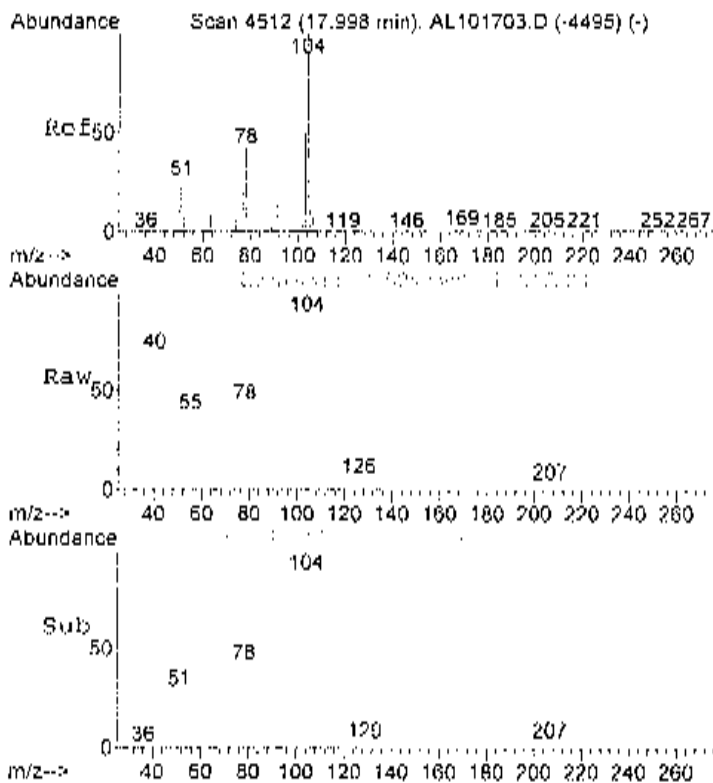
Tgt Ion	Resp	Lower	Upper
164	72354		
166	126.9	108.0	148.0



#61
 m&p-xylene
 Concen: 0.52 ppb m
 RT: 17.57 min Scan# 4368
 Delta R.T. -0.02 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

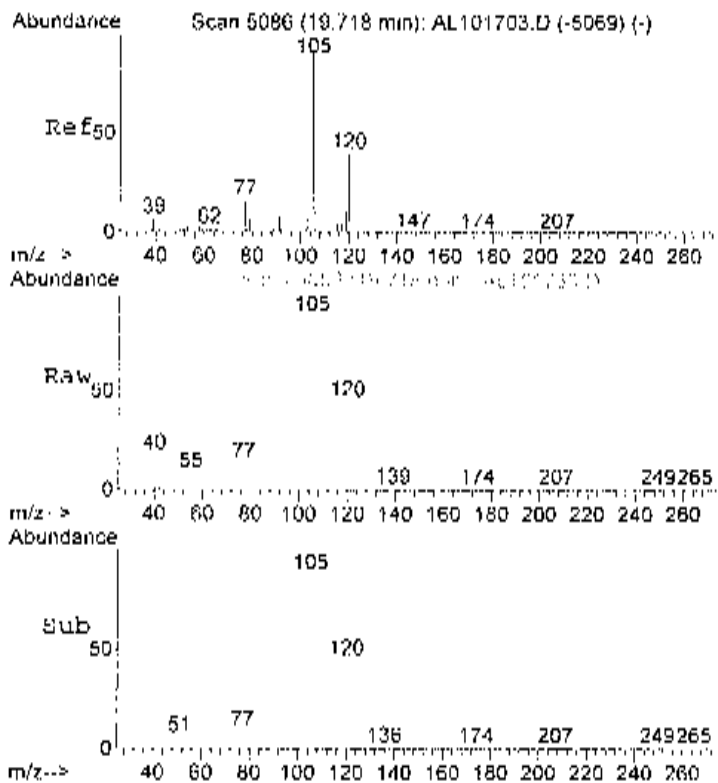
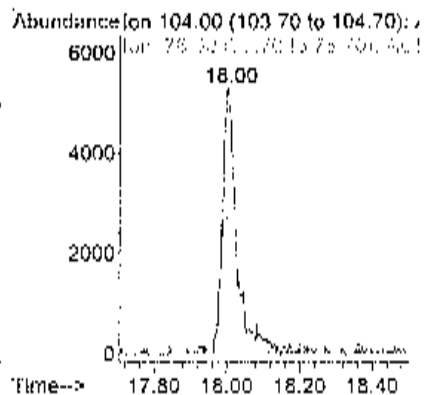
Tgt Ion	Resp	Lower	Upper
91	65055		
106	43.8	29.2	69.2





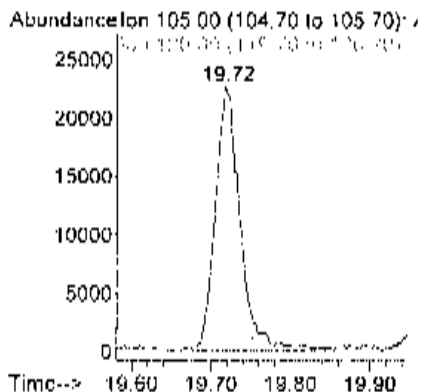
#63
 Styrene
 Concen: 0.18 ppb m
 RT: 18.00 min Scan# 4514
 Delta R.T. 0.00 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

Tgt Ion	Resp	Lower	Upper
104	15220		
78	48.3	31.2	71.2



#73
 1,2,4-Trimethylbenzene
 Concen: 0.38 ppb
 RT: 19.72 min Scan# 5086
 Delta R.T. -0.00 min
 Lab File: AL101730.D
 Acq: 18 Oct 2014 5:57 am

Tgt Ion	Resp	Lower	Upper
105	49554		
120	44.8	25.3	65.3



Data File : C:\HPCHEM\1\DATA\AL102034.D Vial: 31
 Acq On : 21 Oct 2014 6:01 am Operator: RJP
 Sample : C1410057-009A 810X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 10:46:49 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	32924	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	130172	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	92441	1.00	ppb	0.00
System Monitoring Compounds						
67) Bromofluorobenzene	18.67	95	45837m	0.70	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	70.00%
Target Compounds						Qvalue
16) Acetone	6.71	58	10945	1.00	ppb	# 41

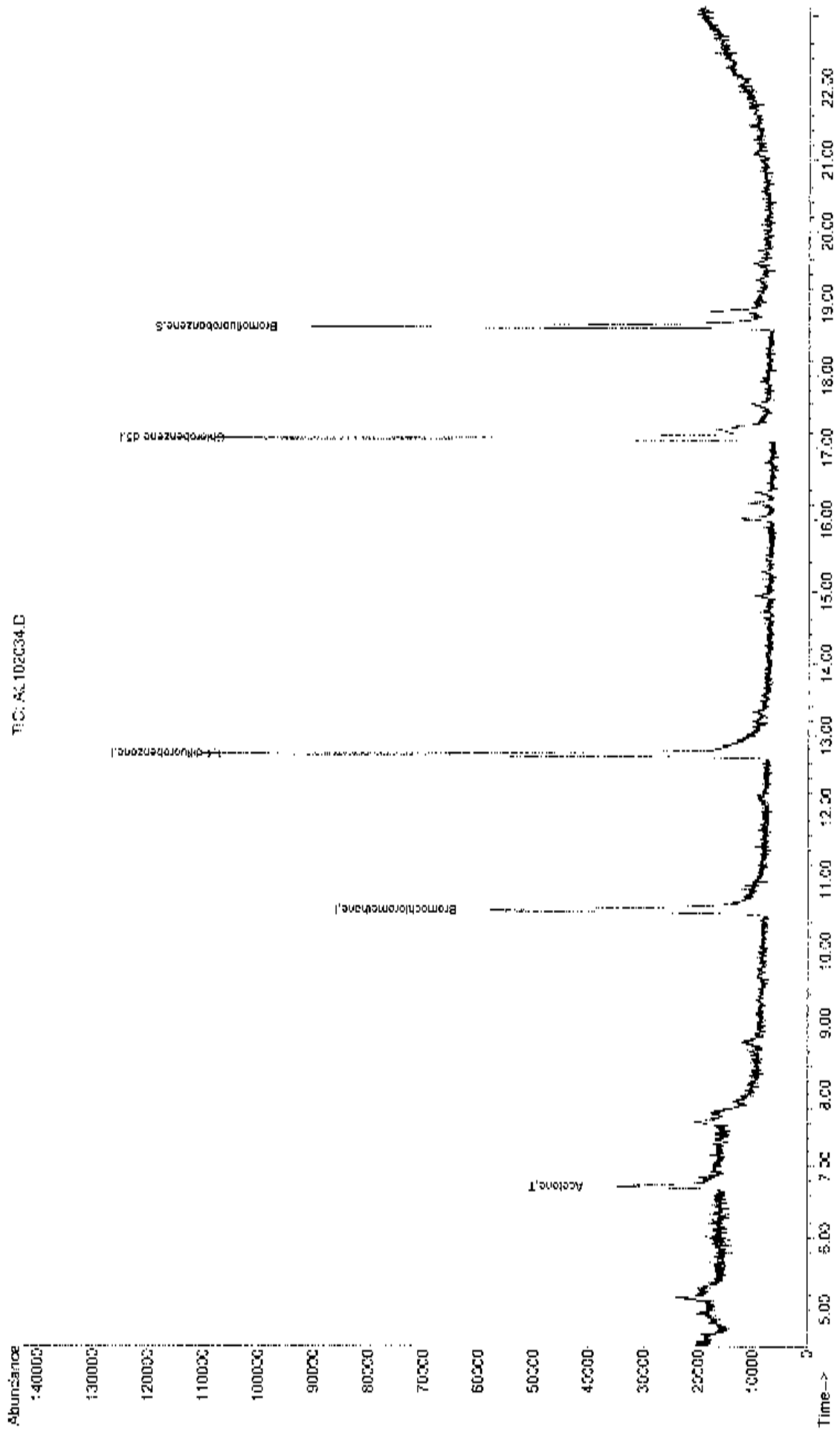
Data File : C:\HPCHEM\1\DATA\AL102034.D
Acq On : 21 Oct 2014 8:01 am
Sample : C1410057-039A 810X
Misc : 8910 IDG
MS Integration Params: RTEINT.P
Quant Time: Oct 21 10:45 2014

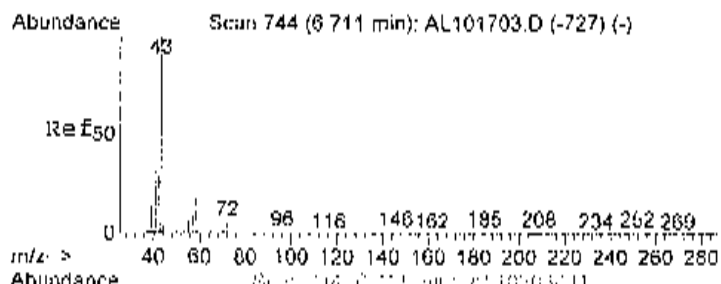
Vial: 31
Operator: EJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: 8910_103.RES

Method : C:\HPCHEM\1\METHODS\8910_103.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

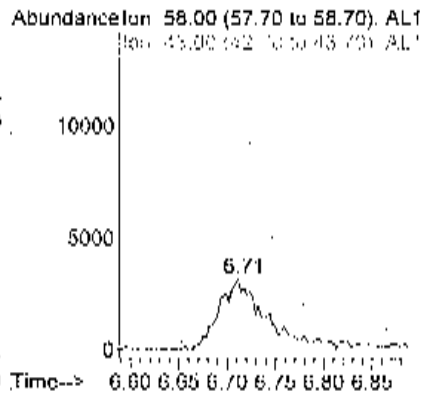
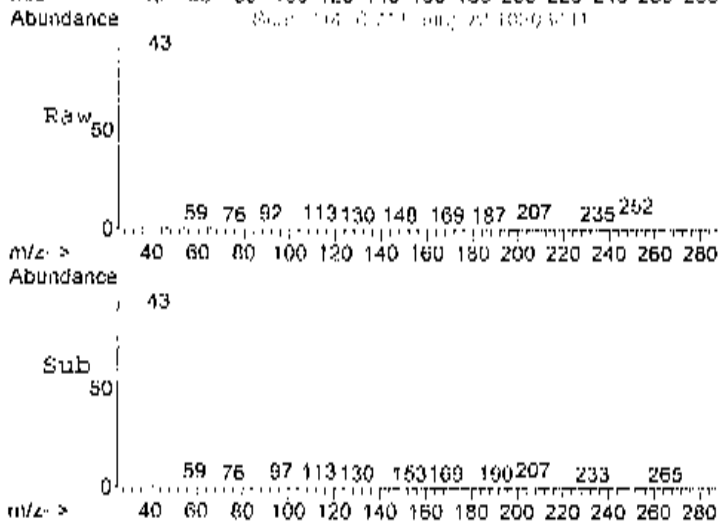
PC:AL102034.D





#16
 Acetone
 Concen: 1.00 ppb
 RT: 6.71 min Scan# 744
 Delta R.T. 0.02 min
 Lab File: AL102034.D
 Acq: 21 Oct 2014 6:01 am

Tgt	Ion	Resp	Lower	Upper
58	100	10945		
43	371.0	514.7	574.7	



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-010A

Client Sample ID: OA-1
 Tag Number: 328,1170
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	.2			"Hg		10/16/2014
Lab Vacuum Out	30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	10/17/2014 4:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 4:42:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
4 ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Acetone	5.8	1.5		ppbV	5	10/17/2014 11:42:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Carbon tetrachloride	0.10	0.040		ppbV	1	10/17/2014 4:42:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Chloromethane	0.51	0.15		ppbV	1	10/17/2014 4:42:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected in the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-010A

Client Sample ID: OA-1
 Tag Number: 328,1170
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 11	0.29	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Freon 12	0.51	0.15		ppbV	1	10/17/2014 4:42:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Isopropyl alcohol	1.1	0.15		ppbV	1	10/17/2014 4:42:00 PM
m&p-Xylene	0.10	0.30	J	ppbV	1	10/17/2014 4:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:42:00 PM
Methyl Ethyl Ketone	0.31	0.30		ppbV	1	10/17/2014 4:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Methylene chloride	0.10	0.15	J	ppbV	1	10/17/2014 4:42:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Toluene	0.18	0.15		ppbV	1	10/17/2014 4:42:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 4:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 4:42:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 4:42:00 PM
Surf: Bromofluorobenzene	85.0	70-130		%REC	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-010A

Client Sample ID: OA-1
 Tag Number: 328,1170
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:42:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:42:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 4:42:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:42:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 4:42:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 4:42:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 4:42:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 4:42:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 4:42:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 4:42:00 PM
Acetone	14	3.8		ug/m3	5	10/17/2014 11:42:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 4:42:00 PM
Benzene	< 0.48	0.48		ug/m3	1	10/17/2014 4:42:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 4:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 4:42:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 4:42:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 4:42:00 PM
Carbon tetrachloride	0.63	0.25		ug/m3	1	10/17/2014 4:42:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 4:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 4:42:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 4:42:00 PM
Chloromethane	1.1	0.31		ug/m3	1	10/17/2014 4:42:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:42:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:42:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 4:42:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 4:42:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 4:42:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 4:42:00 PM
Freon 11	1.6	0.84		ug/m3	1	10/17/2014 4:42:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 4:42:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 NT Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-010A

Client Sample ID: OA-1
Tag Number: 328,1170
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	10/17/2014 4:42:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 4:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 4:42:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 4:42:00 PM
Isopropyl alcohol	2.8	0.37		ug/m3	1	10/17/2014 4:42:00 PM
m&p-Xylene	0.43	1.3	J	ug/m3	1	10/17/2014 4:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:42:00 PM
Methyl Ethyl Ketone	0.91	0.88		ug/m3	1	10/17/2014 4:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:42:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 4:42:00 PM
Methylene chloride	0.35	0.52	J	ug/m3	1	10/17/2014 4:42:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/17/2014 4:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 4:42:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 4:42:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 4:42:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 4:42:00 PM
Toluene	0.68	0.57		ug/m3	1	10/17/2014 4:42:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:42:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:42:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 4:42:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 4:42:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 4:42:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 4:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 E Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101709.D Vial: 22
 Acq On : 17 Oct 2014 4:42 pm Operator: RJP
 Sample : C1410057-010A Inst : MSD #1
 Misc : A910_IUG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 21:57:11 2014 Quant Results File: A910_IUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : IUG RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	30735	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.72	114	115933	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	93422	1.00	ppb	0.00

System Monitoring Compounds						
67) Bromofluorobenzene	18.67	95	56107	0.85	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	85.00%

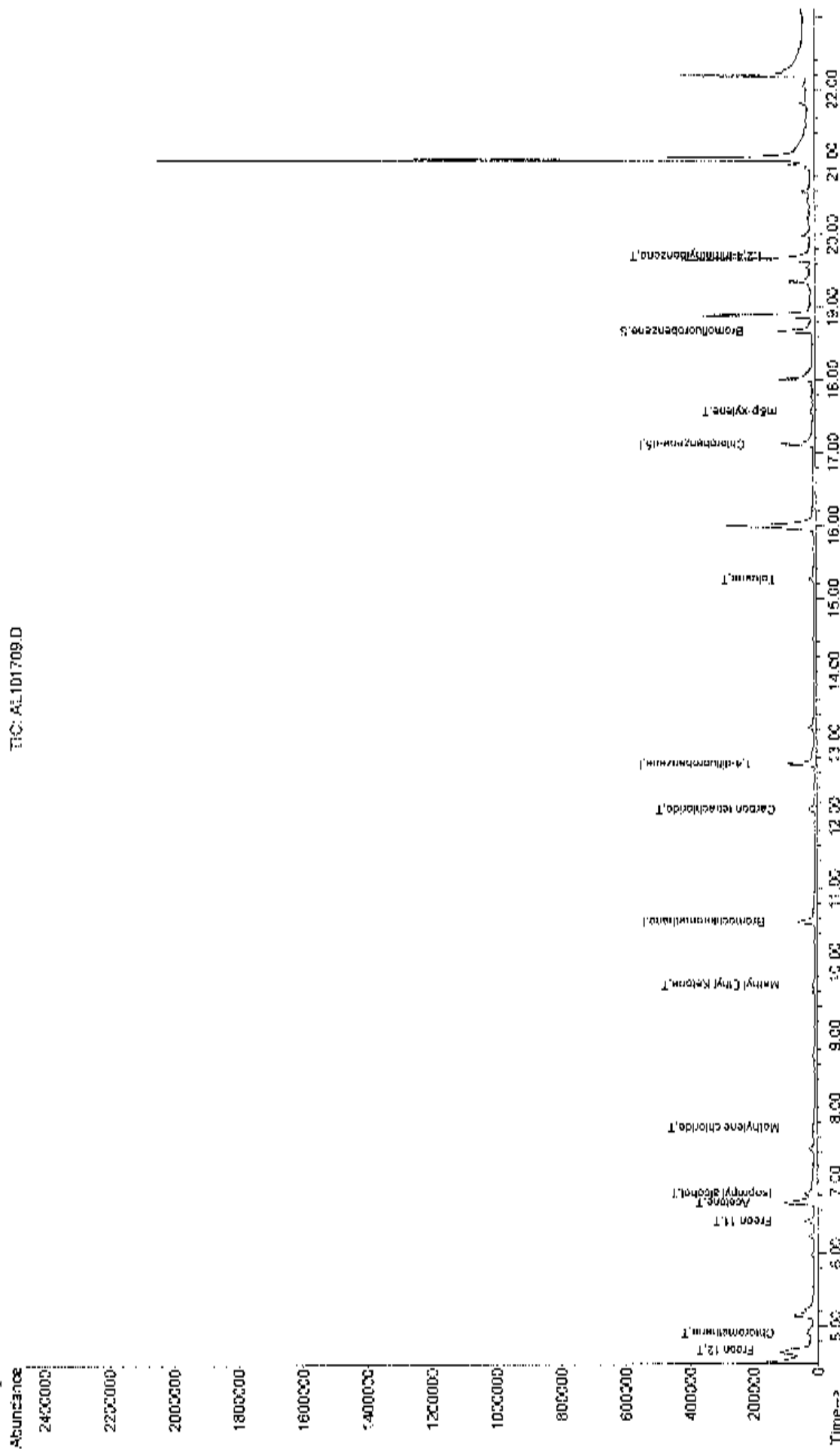
Target Compounds						Qvalue
4) Freon 12	4.68	85	76520	0.51	ppb	99
5) Chloromethane	4.91	50	18408	0.51	ppb	91
15) Freon 11	6.44	101	40991	0.29	ppb	99
16) Acetone	6.70	58	63600	6.24	ppb	# 37
18) Isopropyl alcohol	6.83	45	39445	1.13	ppb	# 100
22) Methylene chloride	7.74	84	2668	0.10	ppb	# 80
29) Methyl Ethyl Ketone	9.70	72	4365m	0.31	ppb	
39) Carbon tetrachloride	12.11	117	11166	0.10	ppb	99
52) Toluene	15.26	92	11354	0.18	ppb	97
61) m&p xylene	17.56	91	11219	0.10	ppb	85
73) 1,2,4 trimethylbenzene	19.72	105	12052	0.11	ppb	99

Qualification Report (V. Reviewed)

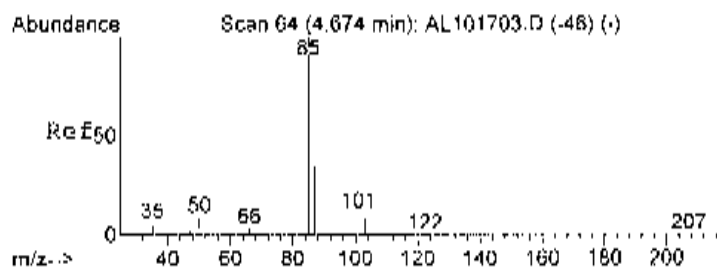
Data File : C:\HPCHEM\1\DATA\AL101709.D
 Acq Cr : 17 Oct 2014 4:42 PM
 Sample : C1410057-010A
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 13:57 2014

Vial: 22
 Operator: RCP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:29 2014
 Response via : Initial Calibration

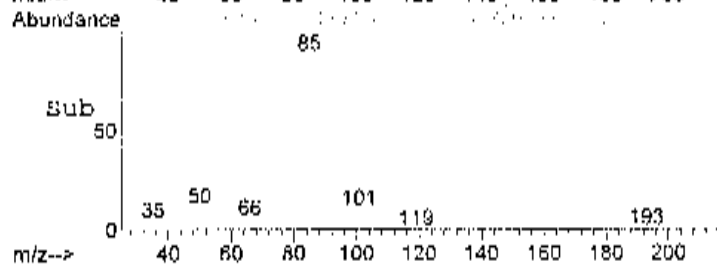
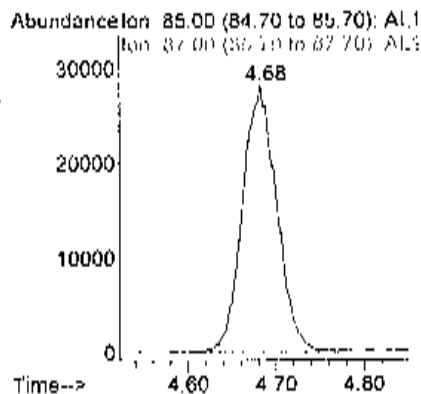
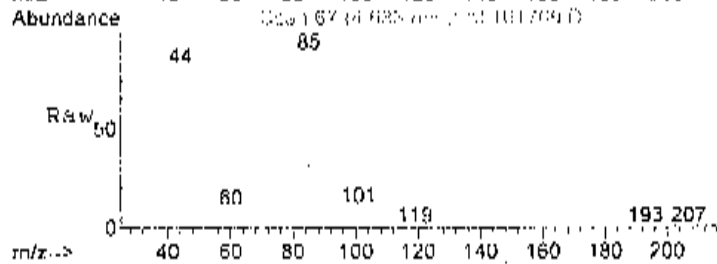


TRC:AL101709.D



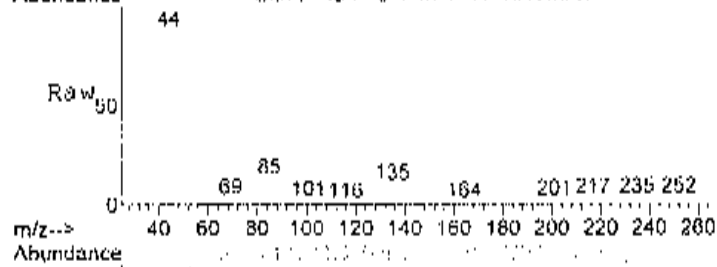
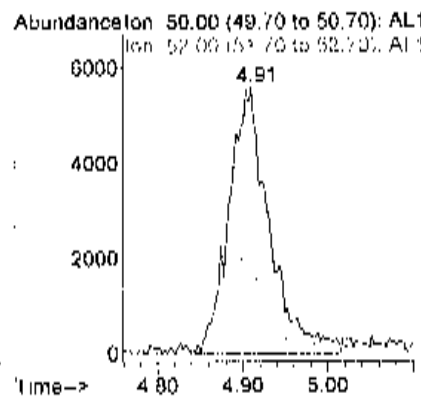
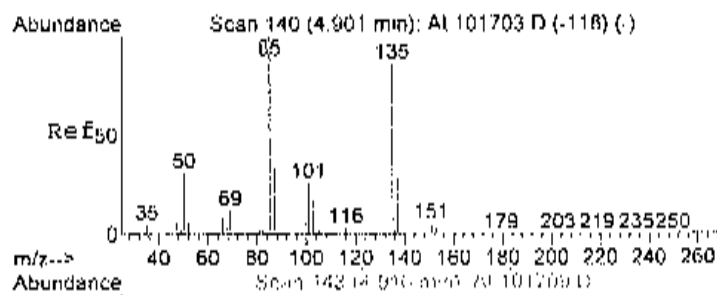
#4
 Freon 12
 Concen: 0.51 ppb
 RT: 4.68 min Scan# 67
 Delta R.T. 0.01 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

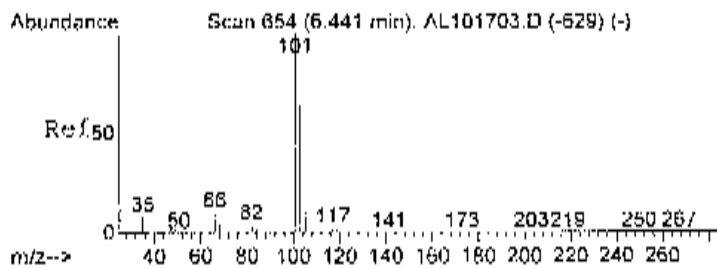
Tgt Ion	Resp	Lower	Upper
85	76520		
85	100		
87	32.6	12.1	52.1



#5
 Chloromethane
 Concen: 0.51 ppb
 RT: 4.91 min Scan# 143
 Delta R.T. 0.02 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

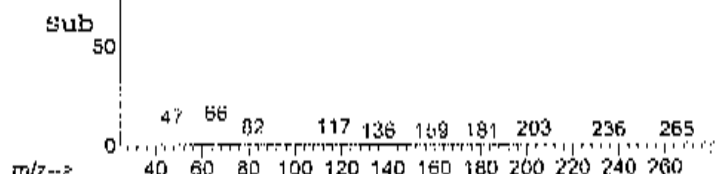
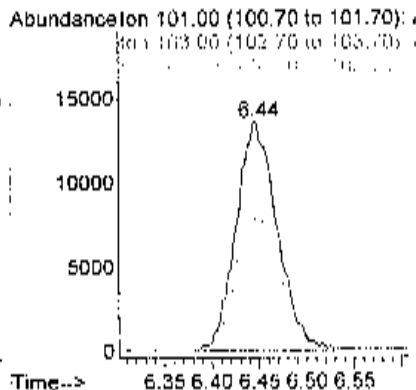
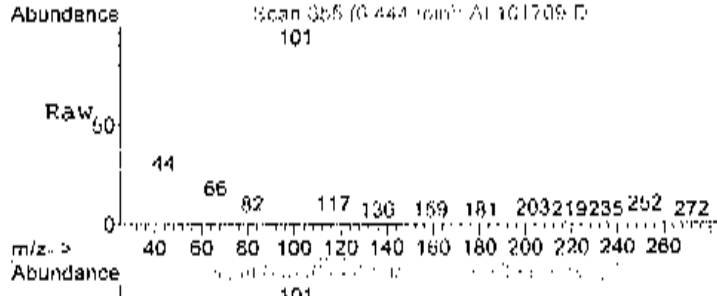
Tgt Ion	Resp	Lower	Upper
50	18408		
50	100		
52	32.2	7.4	47.4





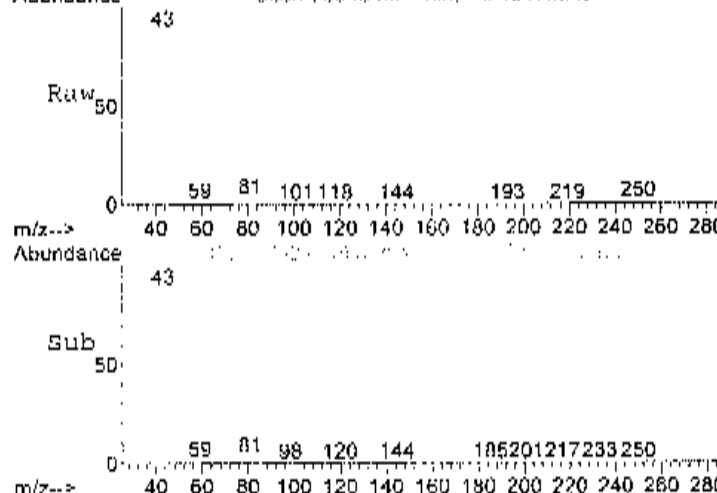
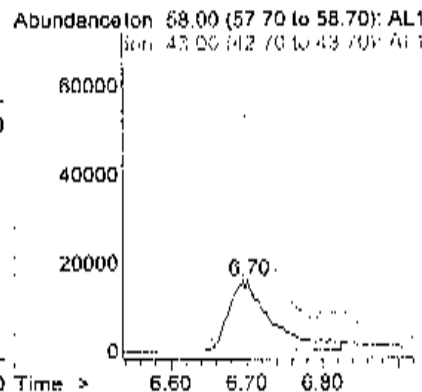
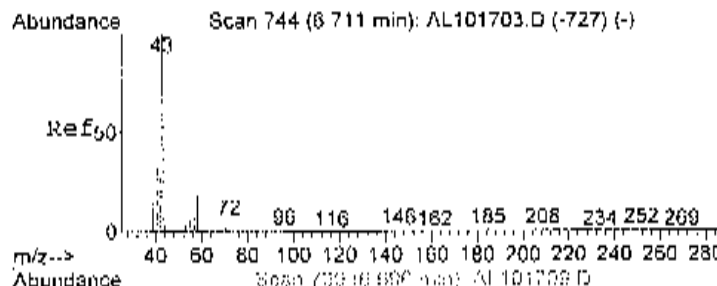
#15
 Freon 11
 Concen: 0.29 ppb
 RT: 6.44 min Scan# 655
 Delta R.T. 0.01 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

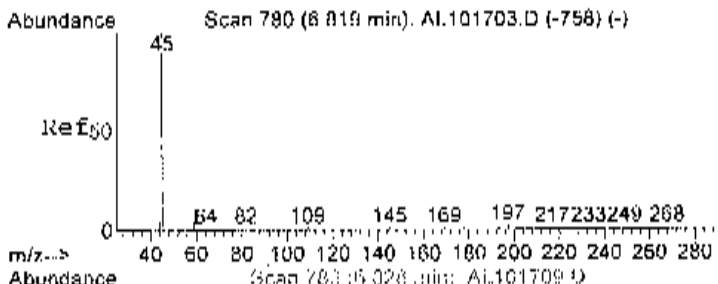
Tgt Ion	Resp	Lower	Upper
101	40991		
103	64.6	45.8	85.8
105	11.4	0.0	31.2



#16
 Acetone
 Concen: 6.24 ppb
 RT: 6.70 min Scan# 739
 Delta R.T. 0.02 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

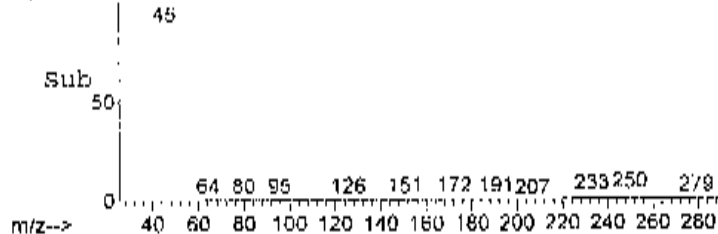
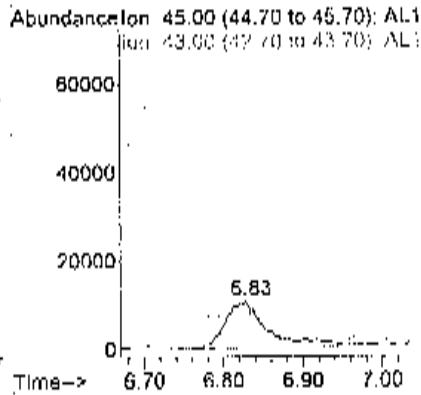
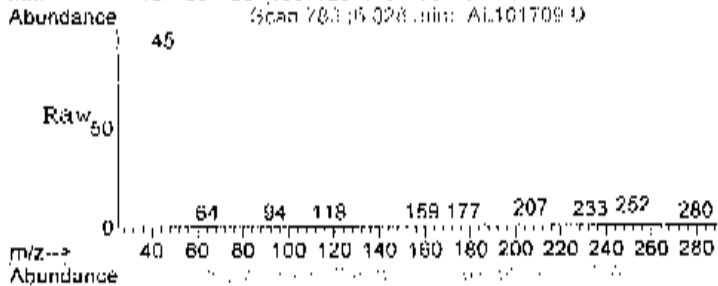
Tgt Ion	Resp	Lower	Upper
58	63600		
43	360.4	514.7	574.74





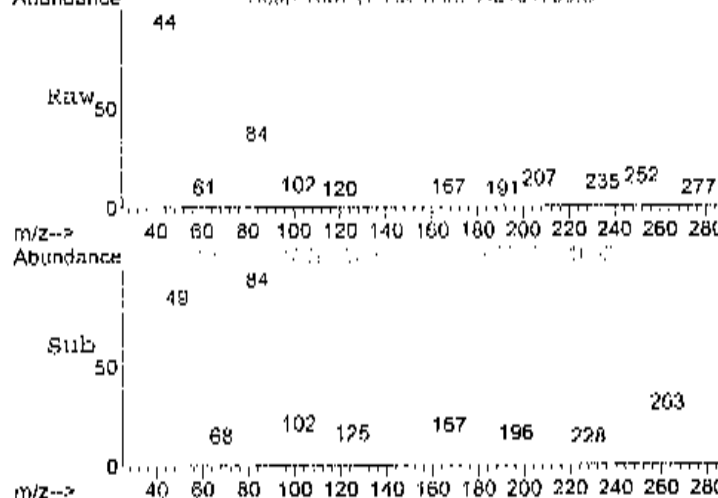
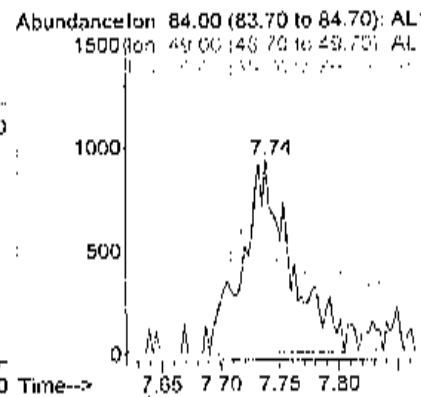
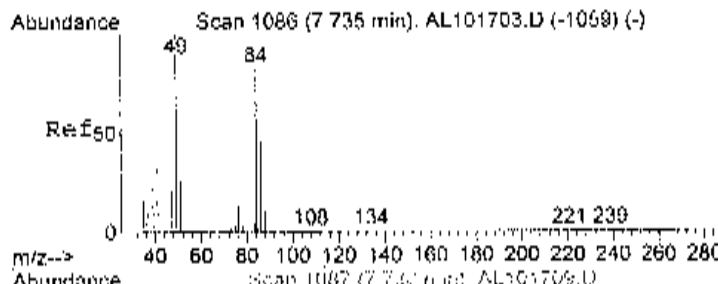
#18
 Isopropyl alcohol
 Concen: 1.13 ppb
 RT: 6.83 min Scan# 783
 Delta R.T. 0.03 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

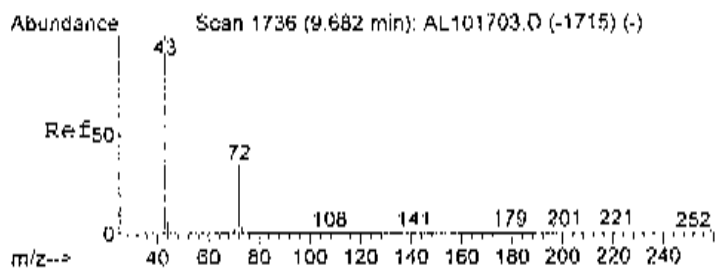
Tgt Ion	Resp	Lower	Upper
45	39445		
43	0.0	0.0	20.0



#22
 Methylene chloride
 Concen: 0.10 ppb
 RT: 7.74 min Scan# 1087
 Delta R.T. 0.01 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

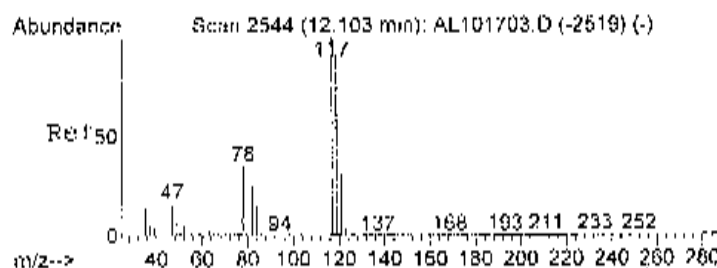
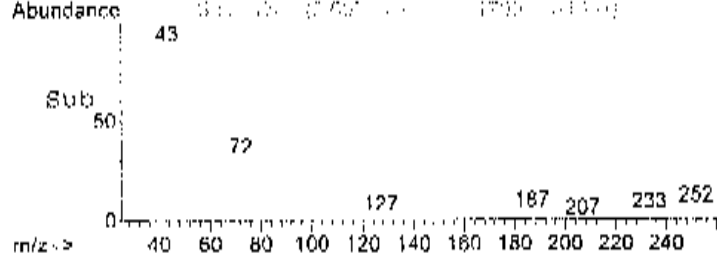
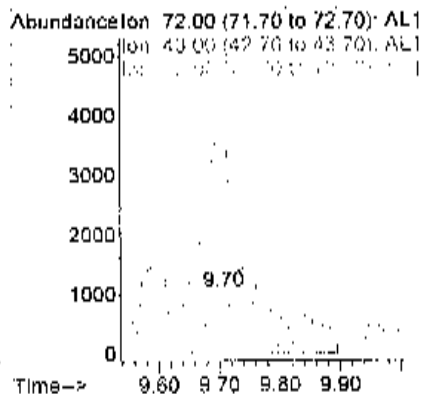
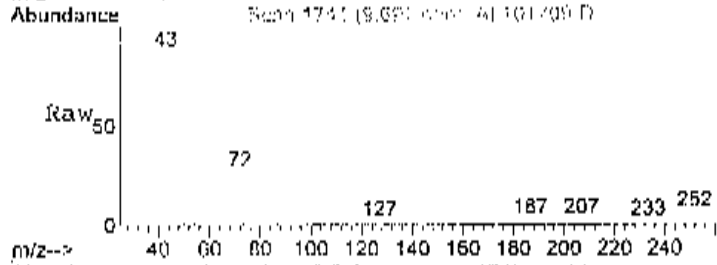
Tgt Ion	Resp	Lower	Upper
84	2668		
49	111.6	118.1	158.1
86	61.3	56.4	96.4





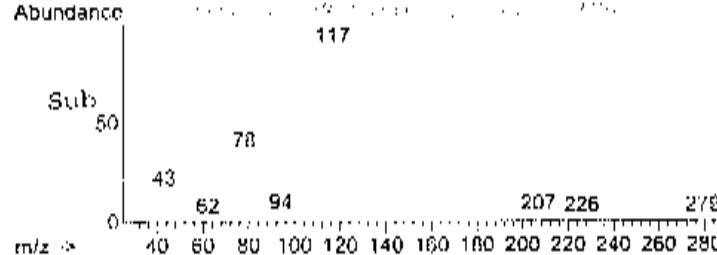
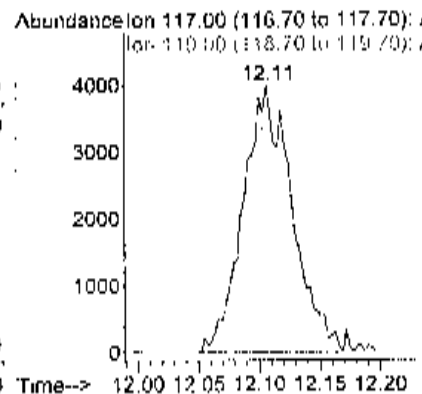
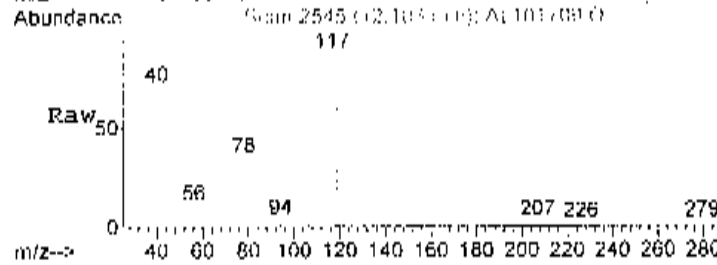
#29
 Methyl Ethyl Ketone
 Concen: 0.31 ppb m
 RT: 9.70 min Scan# 1741
 Delta R.T. 0.03 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

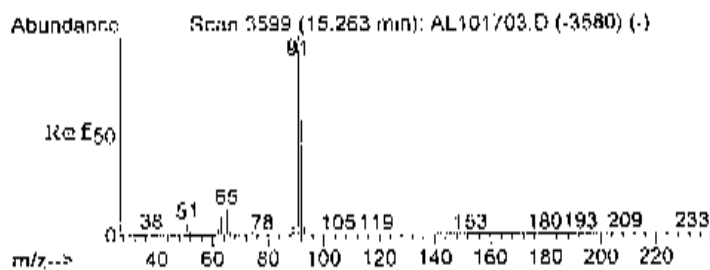
Tgt Ion	Resp	Lower	Upper
72	4365		
72	100		
43	0.0	530.5	570.5#
72	72.3	80.0	120.0#



#39
 Carbon tetrachloride
 Concen: 0.10 ppb
 RT: 12.11 min Scan# 2545
 Delta R.T. 0.01 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

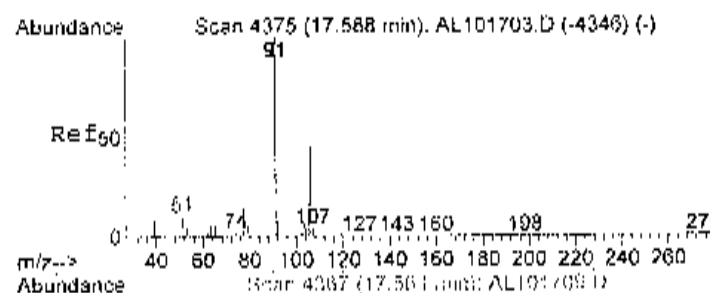
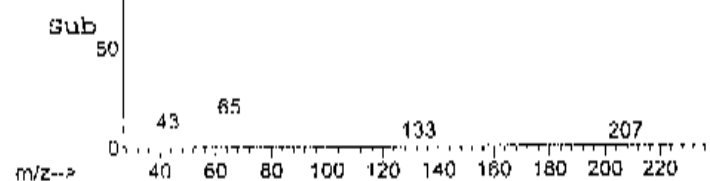
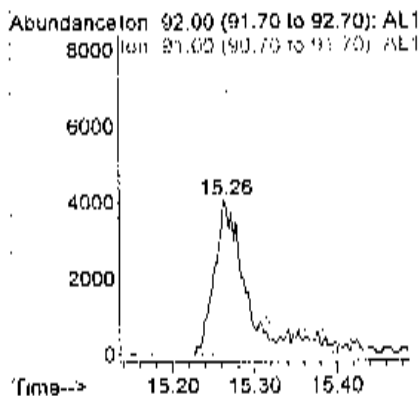
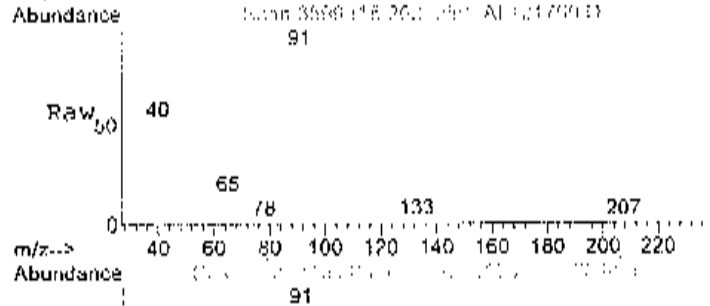
Tgt Ion	Resp	Lower	Upper
117	11166		
117	100		
119	96.2	77.3	117.3





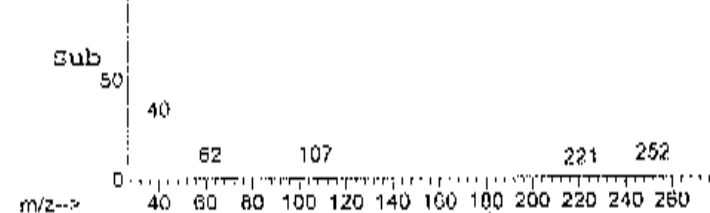
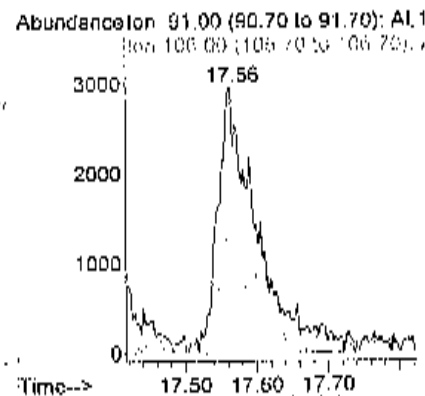
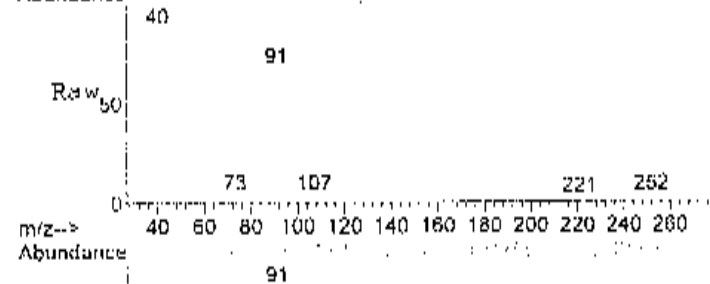
#52
Toluene
Concen: 0.18 ppb
RT: 15.26 min Scan# 3599
Delta R.T. 0.00 min
Lab File: AL101709.D
Acq: 17 Oct 2014 4:42 pm

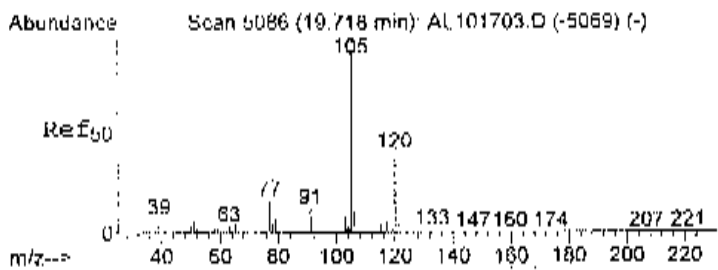
Tgt Ion	Resp	Lower	Upper
92	11354		
91	177.7	154.2	194.2



#61
m&p-xylene
Concen: 0.10 ppb
RT: 17.56 min Scan# 4367
Delta R.T. -0.02 min
Lab File: AL101709.D
Acq: 17 Oct 2014 4:42 pm

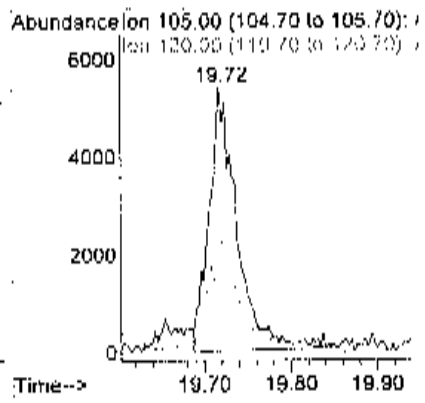
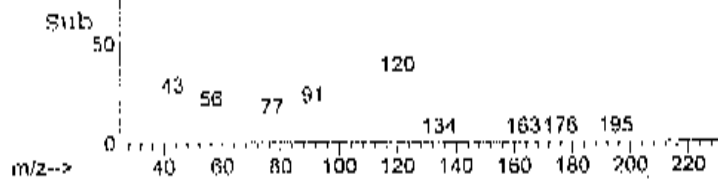
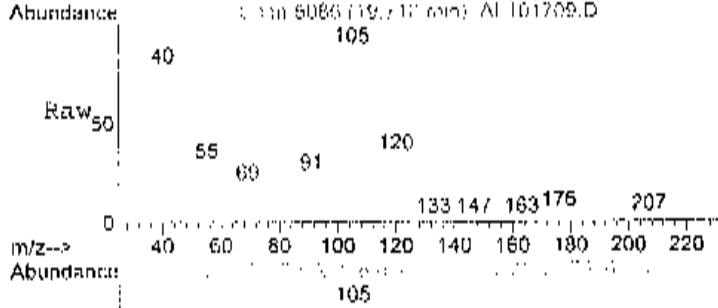
Tgt Ion	Resp	Lower	Upper
91	11219		
106	38.9	29.2	69.2





#13
 1,2,4-trimethylbenzene
 Concen: 0.11 ppb
 RT: 19.72 min Scan# 5086
 Delta R.T. -0.00 min
 Lab File: AL101709.D
 Acq: 17 Oct 2014 4:42 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	44.6	25.3	65.3



Data File : C:\HPCHEM\1\DATA\ALI01720.D Vial: 4
 Acq On : 17 Oct 2014 11:42 pm Operator: RJP
 Sample : C1410057-010A 5X Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:54 2014 Quant. Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	32123	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.72	114	122595	1.00	ppb	0.00
51) Chlorobenzene-d5	17.13	117	89916	1.00	ppb	0.00

System Monitoring Compounds						
67) Bromofluorobenzene	18.68	95	46792	0.74	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	74.00%

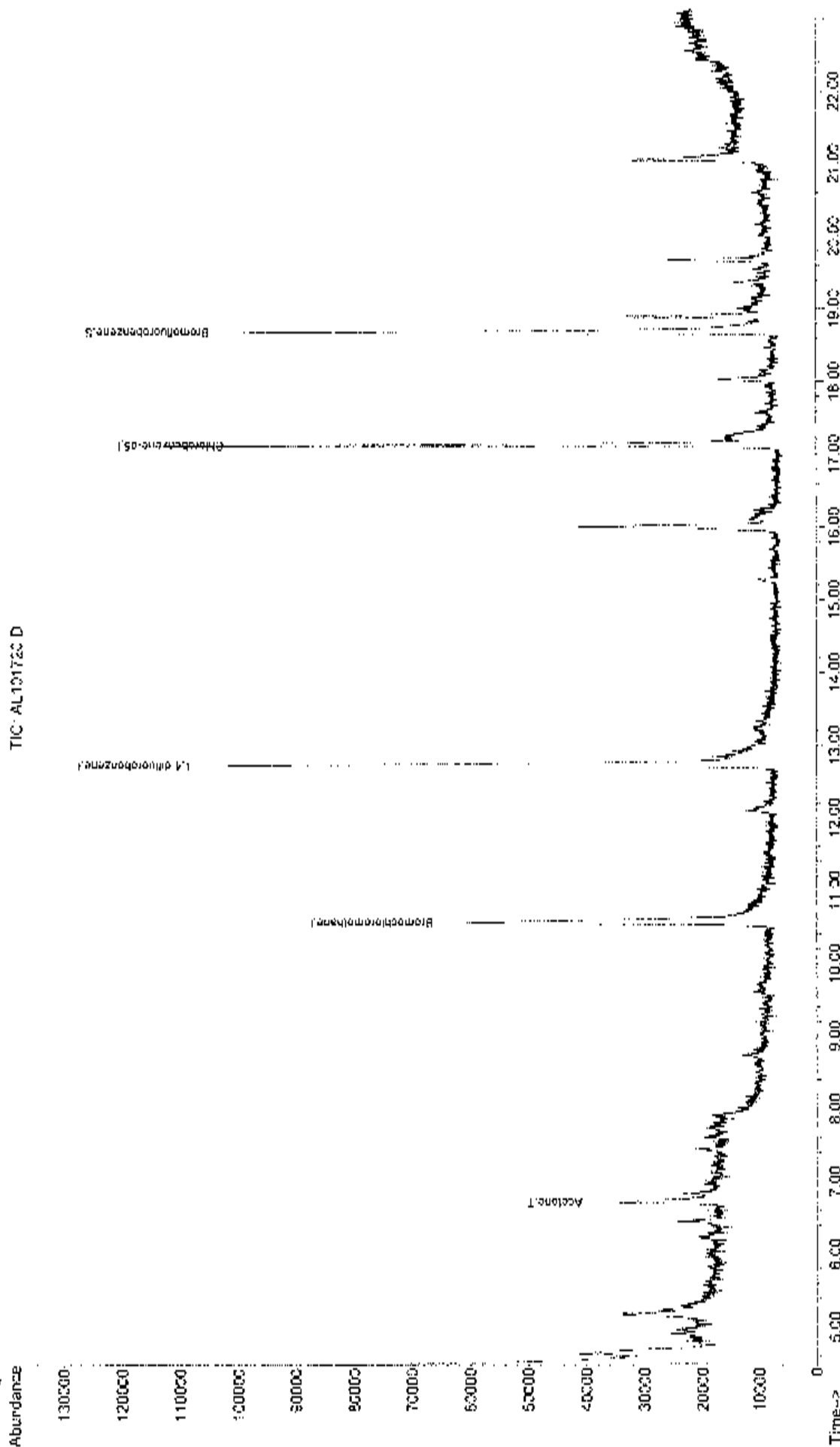
Target Compounds						
16) Acetone	6.71	58	12389m	1.16	ppb	Qvalue

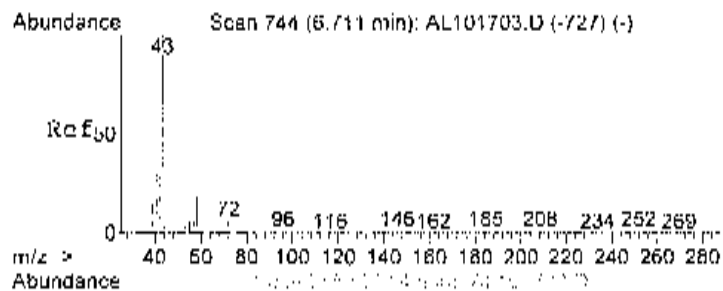
Data File : C:\HPCHEM\1\DATA\AL101720.D
Acq On : 17 Oct 2014 11:42 pm
Sample : C1410057-01CA 5X
Misc : A910_1UG
MS Integration Params: KTEINT.P
Quant Time: Oct 20 14:13 2014

Vial: 4
Operator: RCP
Inst : MSD #1
Multiplier: 1.00

Quant Results File: A910_1UG.RES

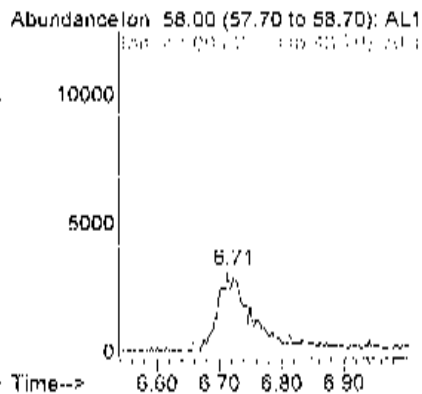
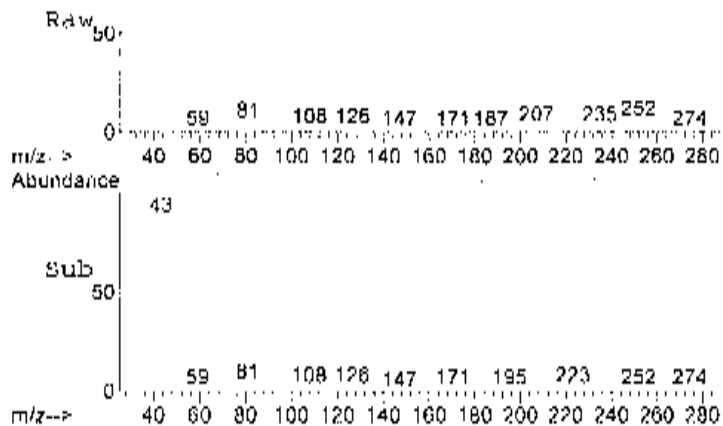
Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
Title : TO-15 VCA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration





#16
 Acetone
 Concen: 1.16 ppb m
 RT: 6.71 min Scan# 745
 Delta R.T. 0.04 min
 Lab File: AL101720.D
 Acq: 17 Oct 2014 11:42 pm

Tgt Ion	Resp	Lower	Upper
58	12389		
58	100		
43	304.1	514.7	574.7#



Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-011A

Client Sample ID: Trip Blank
 Tag Number: 130
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	+30			"Hg		10/16/2014
Lab Vacuum Out	+30			"Hg		10/16/2014
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	10/17/2014 4:05:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-011A

Client Sample ID: Trip Blank
Tag Number: 130
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						Analyst: RJP
			TO-15			
Ethylbenzene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/17/2014 4:05:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	10/17/2014 4:05:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/17/2014 4:05:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	10/17/2014 4:05:00 PM
Surr: Bromofluorobenzene	76.0	70-130		%REC	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
Lab Order: C1410057
Project: 5140 Site Yorkville, NY
Lab ID: C1410057-011A

Client Sample ID: Trip Blank
Tag Number: 130
Collection Date: 10/14/2014
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						Analyst: RJP
TO-15						
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	10/17/2014 4:05:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:05:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:05:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/17/2014 4:05:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	10/17/2014 4:05:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	10/17/2014 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	10/17/2014 4:05:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/17/2014 4:05:00 PM
2,2,4 trimethylpentane	< 0.70	0.70		ug/m3	1	10/17/2014 4:05:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
Acetone	< 0.71	0.71		ug/m3	1	10/17/2014 4:05:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	10/17/2014 4:05:00 PM
Benzene	< 0.48	0.48		ug/m3	1	10/17/2014 4:05:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	10/17/2014 4:05:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/17/2014 4:05:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	10/17/2014 4:05:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/17/2014 4:05:00 PM
Carbon tetrachloride	< 0.25	0.25		ug/m3	1	10/17/2014 4:05:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	10/17/2014 4:05:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/17/2014 4:05:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	10/17/2014 4:05:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/17/2014 4:05:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:05:00 PM
cis-1,3-Dichloropropane	< 0.68	0.68		ug/m3	1	10/17/2014 4:05:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/17/2014 4:05:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/17/2014 4:05:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	10/17/2014 4:05:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	10/17/2014 4:05:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	10/17/2014 4:05:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	10/17/2014 4:05:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit Results reported are not blank corrected
 B Analyte detected in the associated Method Blank F Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non routine analyte Quantitation estimated ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 31-Oct-14

CLIENT: WSP Environment and Energy
 Lab Order: C1410057
 Project: 5140 Site Yorkville, NY
 Lab ID: C1410057-011A

Client Sample ID: Trip Blank
 Tag Number: 130
 Collection Date: 10/14/2014
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
Freon 12	< 0.74	0.74		ug/m3	1	10/17/2014 4:05:00 PM
Heptane	< 0.61	0.61		ug/m3	1	10/17/2014 4:05:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/17/2014 4:05:00 PM
Hexane	< 0.53	0.53		ug/m3	1	10/17/2014 4:05:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/17/2014 4:05:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/17/2014 4:05:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:05:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	10/17/2014 4:05:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/17/2014 4:05:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	10/17/2014 4:05:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	10/17/2014 4:05:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	10/17/2014 4:05:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/17/2014 4:05:00 PM
Styrene	< 0.64	0.64		ug/m3	1	10/17/2014 4:05:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/17/2014 4:05:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	10/17/2014 4:05:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/17/2014 4:05:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	10/17/2014 4:05:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	10/17/2014 4:05:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	10/17/2014 4:05:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	10/17/2014 4:05:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	10/17/2014 4:05:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	10/17/2014 4:05:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 I Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Data File : C:\HPCHEM\1\DATA\AL101708.D
 Acq On : 17 Oct 2014 4:05 pm
 Sample : C1410057-011A
 Misc : A910 1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 21:57:10 2014

Vial: 21
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	33173	1.00	ppb	0.01
36) 1,4-difluorobenzene	12.72	114	129857	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	96897	1.00	ppb	0.00

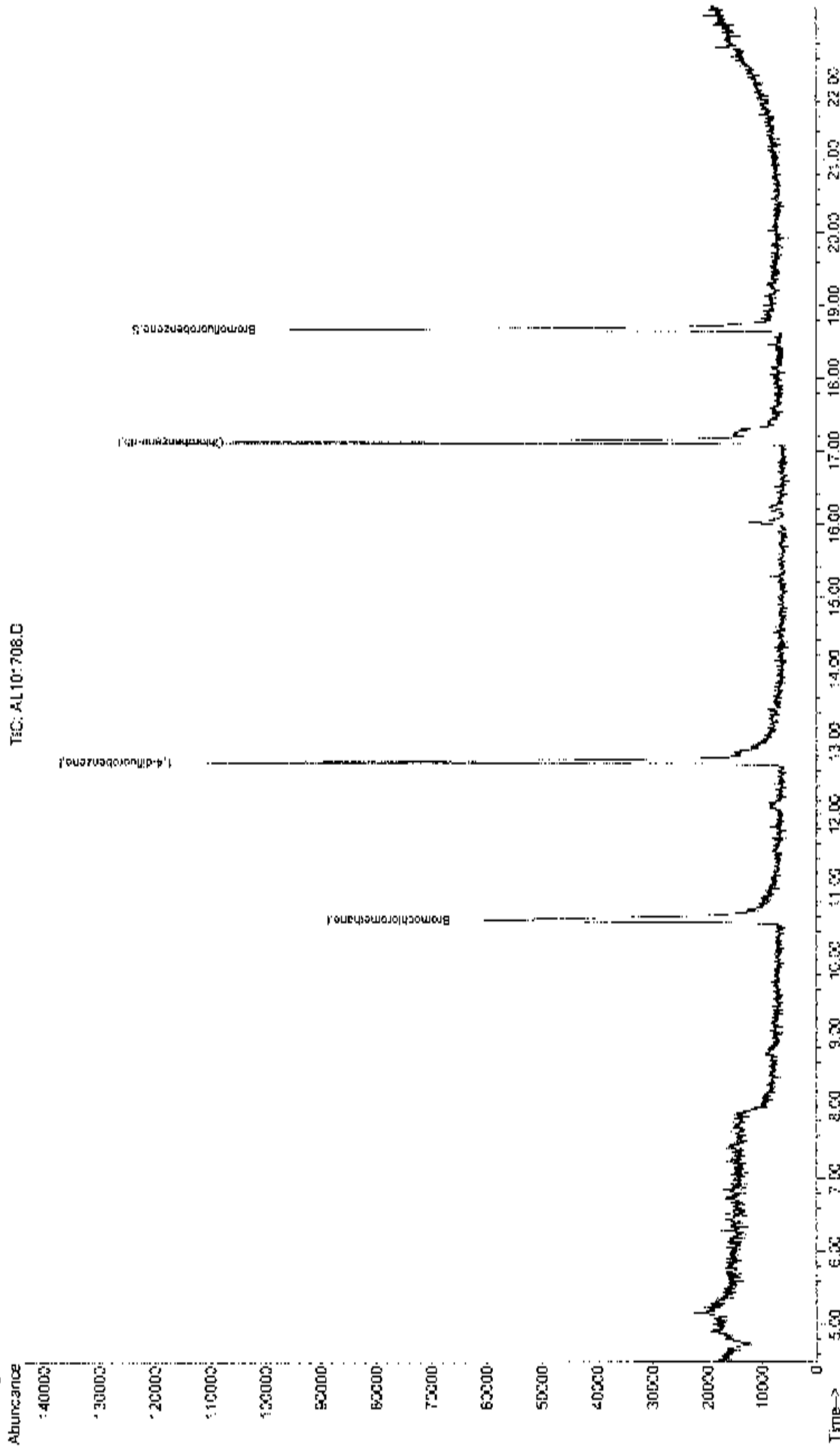
System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 51873m^m 0.76 ppb 0.01
 Spiked Amount 1.000 Range 70 - 130 Recovery = 76.00%

Target Compounds Qvalue

Data File : C:\EPCHEM\1\DATA\AL101708.D
Acq On : 17 Oct 2014 4:05 pm
Sample : C1419057-011A
Misc : A910_103
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:56 2014

Vial: 21
Operator: RJF
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A910_103.RES

Method : C:\EPCHEM\1\METHODS\A910_103.M (RTB Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:29 2014
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Sep 15 09:30:10 2014
 Response via : Initial Calibration

Calibration Files

0.04 =AL091012.D 0.10 =AL091011.D 0.15 =AL091010.D
 0.30 =AL091009.D 0.50 =AL091008.D 0.75 =AL091007.D

Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	MRSD
1) I Bromochloromethane	-----ISTD-----							
2) T Freon 22			2.594	2.612	2.391	2.389	2.384	6.19
3) T Propylene			1.094	1.082	1.013	1.021	1.008	5.50
4) T Freon 12			5.238	5.144	5.021	4.904	4.890	4.55
5) T Chloromethane			1.303	1.355	1.185	1.203	1.179	8.85
6) T Freon 114			3.884	4.099	3.891	3.943	3.785	5.20
7) T Vinyl Chloride	1.506	1.101	1.046	1.052	1.017	0.975	1.040	16.91
8) T Butane			1.338	1.252	1.202	1.233	1.170	8.63
9) T 1,3-butadiene			1.008	0.950	0.827	0.850	0.841	11.38
10) T Bromomethane			1.409	1.408	1.226	1.169	1.220	10.03
11) T Chloroethane			0.479	0.493	0.461	0.432	0.448	5.84
12) T Ethanol			0.314	0.241	0.214	0.237	0.236	14.14
13) T Acrolein			0.235	0.202	0.187	0.176	0.185	12.67
14) T Vinyl Bromide			1.186	1.252	1.162	1.156	1.147	4.84
15) T Freon 11			4.979	5.036	4.886	4.709	4.661	6.06
16) T Acetone			0.358	0.320	0.337	0.324	0.332	4.12
17) T Pentane			0.976	0.942	0.849	0.857	0.850	8.95
18) T Isopropyl alcoh			1.169	1.270	1.198	1.132	1.136	6.77
19) T 1,1-dichloroeth			1.293	1.366	1.238	1.186	1.201	7.70
20) T Freon 113			3.338	3.318	3.137	3.024	3.081	5.36
21) T t-Butyl alcohol			1.552	1.759	1.537	1.852	1.538	11.66
22) T Methylene chlor			0.961	0.922	0.880	0.912	0.865	7.11
23) T Allyl chloride			0.616	0.607	0.570	0.924	0.657	16.97
24) T Carbon disulfid			3.012	3.028	3.764	3.666	3.187	10.60
25) T trans-1,2-dichl			1.459	1.566	1.617	1.599	1.556	3.05
26) T methyl tert-but			2.959	2.787	3.067	3.217	3.113	5.33
27) T 1,1-dichloroeth			3.056	3.061	2.999	2.949	2.859	6.04
28) T Vinyl acetate			1.588	1.630	1.519	1.707	1.634	4.33
29) T Methyl Ethyl Ke			0.445	0.430	0.442	0.442	0.466	6.55
30) T cis-1,2-dichlor			1.652	1.685	1.633	1.645	1.604	3.64
31) T Hexane			1.903	1.880	1.929	1.921	1.915	1.98
32) T Ethyl acetate			1.735	1.853	1.491	1.675	1.765	8.02
33) T Chloroform			3.928	3.991	3.845	3.819	3.739	4.76
34) T Tetrahydrofuran			0.919	0.836	0.874	0.935	0.909	4.45
35) T 1,2-dichloroeth			2.135	2.142	2.064	2.036	2.053	2.83
36) I 1,4-difluorobenzene	-----ISTD-----							
37) T 1,1,1-trichloro			0.988	0.865	0.829	0.790	0.818	9.52
38) T Cyclohexane			0.496	0.419	0.409	0.401	0.414	8.27
39) T Carbon tetrachl	1.449	1.083	1.069	0.961	0.919	0.879	0.978	19.16
40) T Benzene			1.119	1.032	0.987	0.956	0.978	6.82
41) T Methyl methacry			0.235	0.168	0.165	0.178	0.200	13.54
42) T 1,4-dioxane			0.128	0.134	0.124	0.111	0.119	7.30
43) T 2,2,4-trimethyl			1.469	1.271	1.264	1.266	1.276	6.29
44) T Heptane			0.469	0.404	0.375	0.404	0.411	6.41
45) T Trichloroethene	0.687	0.483	0.531	0.453	0.439	0.419	0.470	17.90
46) T 1,2-dichloropro			0.473	0.395	0.373	0.370	0.380	10.52
47) T Bromodichlorome			1.027	0.856	0.835	0.826	0.844	9.12
48) T cis-1,3-dichlor			0.441	0.387	0.397	0.391	0.411	4.67
49) T trans-1,3-dichl			0.356	0.326	0.308	0.314	0.321	5.38
50) T 1,1,2-trichloro			0.465	0.474	0.470	0.462	0.459	2.24
51) I Chlorobenzene d5	-----ISTD-----							

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Sep 15 09:30:10 2014
 Response via : Initial Calibration

Calibration Files

0.04 =AL091012.D 0.10 =AL091011.D 0.15 =AL091010.D
 0.30 =AL091009.D 0.50 =AL091008.D 0.75 =AL091007.D

Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52) T Toluene			0.774	0.656	0.661	0.666	0.693	5.53
53) T Methyl isobutyl			0.560	0.547	0.501	0.519	0.526	4.07
54) T Dibromochlorome			1.135	0.956	0.962	0.920	0.947	8.59
55) T Methyl Butyl Ke			0.468	0.392	0.337	0.330	0.363	13.17
56) T 1,2-dibromoctha			0.819	0.706	0.670	0.675	0.693	7.63
57) T Tetrachloroethy			0.755	0.638	0.610	0.594	0.610	10.50
58) T Chlorobenzene			1.139	1.025	0.957	0.995	1.007	5.64
59) T 1,1,1,2-tetrach			0.867	0.713	0.674	0.670	0.682	11.90
60) T Ethylbenzene			1.429	1.277	1.344	1.435	1.457	7.56
61) T m&p-xylene			0.988	0.908	1.033	1.162	1.149	13.54
62) T Nonane			0.633	0.596	0.588	0.661	0.663	8.00
63) T Styrene			0.720	0.656	0.722	0.787	0.795	11.25
64) T Bromoform			1.097	0.916	0.923	0.906	0.923	7.82
65) T o-xylene			1.406	1.360	1.465	1.407	1.472	6.43
66) T Cumene			1.254	1.238	1.291	1.449	1.466	13.05
67) S Bromofluorobenz	0.657	0.647	0.689	0.687	0.682	0.716	0.708	5.91
68) T 1,1,2,2-tetrach			1.296	1.149	1.146	1.143	1.152	5.43
69) T Propylbenzene			1.251	1.191	1.323	1.604	1.534	16.74
70) T 2-Chlorotoluene			1.568	1.383	1.556	1.567	1.544	5.69
71) T 4-ethyltoluene			1.065	0.999	1.196	1.327	1.387	20.64
72) T 1,3,5-trimethyl			1.481	1.399	1.634	1.762	1.663	8.96
73) T 1,2,4-trimethyl			1.043	0.999	1.000	1.086	1.198	16.35
74) T 1,3-dichloroben			0.743	0.747	0.799	0.916	0.894	13.11
75) T benzyl chloride			0.423	0.361	0.377	0.418	0.454	16.11
76) T 1,4-dichloroben			0.772	0.744	0.728	0.799	0.837	10.98
77) T 1,2,3-trimethyl			0.898	0.987	0.966	1.122	1.134	15.48
78) T 1,2-dichloroben			0.758	0.776	0.777	0.923	0.915	13.96
79) T 1,2,4-trichloro			0.419	0.356	0.358	0.355	0.358	8.05
80) T Naphthalene			0.664	0.613	0.616	0.575	0.611	7.66
81) T Hexachloro-1,3-			1.137	0.992	0.952	0.976	1.006	5.74

Quantitation Report (QI Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091003.D Vial: 1
 Acq On : 10 Sep 2014 11:08 pm Operator: RJP
 Sample : A1UG_2.D Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:08 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	35112	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	167235	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	152966	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.67	95	115652	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.62	51	159335	1.92	ppb	98
3) Propylene	4.62	41	66783	2.00	ppb	92
4) Freon 12	4.67	85	323138	1.96	ppb	99
5) Chloromethane	4.90	50	74387	1.94	ppb	96
6) Freon 114	4.90	85	248147	1.97	ppb	95
7) Vinyl Chloride	5.11	62	63658	1.97	ppb	98
8) Butane	5.23	43	75424	1.94	ppb	97
9) 1,3-butadiene	5.23	39	53517	1.95	ppb	86
10) Bromomethane	5.61	94	76804	1.94	ppb	90
11) Chloroethane	5.80	64	29936	1.98	ppb	87
12) Ethanol	5.95	45	15340	2.03	ppb	83
13) Acrolein	6.57	56	11841m	2.02	ppb	
14) Vinyl Bromide	6.15	106	76067	2.00	ppb	99
15) Freon 11	6.44	101	304055	2.00	ppb	99
16) Acetone	6.67	58	23175	2.12	ppb	# 53
17) Pentane	6.73	42	54369	1.90	ppb	83
18) Isopropyl alcohol	6.80	45	76655m	2.02	ppb	
19) 1,1-dichloroethene	7.24	96	78926	2.04	ppb	99
20) Freon 113	7.44	101	207022	2.00	ppb	99
21) t-Butyl alcohol	7.57	59	95845	1.95	ppb	# 95
22) Methylene chloride	7.73	84	56034	1.95	ppb	# 77
23) Allyl chloride	7.71	41	44831	2.09	ppb	98
24) Carbon disulfide	7.90	76	206147m	1.82	ppb	
25) trans-1,2-dichloroethene	8.69	61	109731	2.04	ppb	97
26) methyl tert-butyl ether	8.73	73	226516	2.05	ppb	90
27) 1,1-dichloroethane	9.13	63	187292	1.98	ppb	99
28) Vinyl acetate	9.13	43	119156	2.17	ppb	98
29) Methyl Ethyl Ketone	9.66	72	35721	2.22	ppb	99
30) cis-1,2-dichloroethene	10.08	61	110458	2.02	ppb	97
31) Hexane	9.65	57	137833	2.13	ppb	92
32) Ethyl acetate	10.25	43	136377	2.23	ppb	97
33) Chloroform	10.70	83	247856	1.96	ppb	99
34) Tetrahydrofuran	10.90	42	65300	2.06	ppb	89
35) 1,2-dichloroethane	11.79	62	140217	1.99	ppb	98
37) 1,1,1-trichloroethane	11.50	97	251291	1.92	ppb	98
38) Cyclohexane	12.16	56	132637	2.02	ppb	88
39) Carbon tetrachloride	12.10	117	282853	1.96	ppb	100
40) Benzene	12.08	78	310727	1.97	ppb	97
41) Methyl methacrylate	13.53	41	75611	2.30	ppb	91
42) 1,4-dioxane	13.63	88	39466	2.14	ppb	97
43) 2,2,4-trimethylpentane	12.85	57	414006	2.01	ppb	97
44) Heptane	13.17	43	139219	2.04	ppb	94
45) Trichloroethene	13.32	130	140774	1.98	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091003.D
 Acq On : 10 Sep 2014 11:08 pm
 Sample : A1UG_2.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:08 2014

Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QION	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	118647	1.94	ppb	99
47) Bromodichloromethane	13.74	83	268606	1.98	ppb	99
48) cis-1,3-dichloropropene	14.49	75	143113	2.12	ppb	97
49) trans-1,3-dichloropropene	15.19	75	110390	2.17	ppb	93
50) 1,1,2-trichloroethane	15.50	97	150296	2.00	ppb	100
52) Toluene	15.26	92	215120	2.08	ppb	100
53) Methyl Isobutyl Ketone	14.42	43	159355	2.09	ppb	96
54) Dibromochloromethane	16.17	129	266787m	1.91	ppb	
55) Methyl Butyl Ketone	15.67	43	100765	1.96	ppb	96
56) 1,2-dibromoethane	16.41	107	201090	1.99	ppb	99
57) Tetrachloroethylene	16.23	164	168706	1.93	ppb	100
58) Chlorobenzene	17.17	112	300481	2.01	ppb	99
59) 1,1,1,2-tetrachloroethane	17.26	131	185671	1.87	ppb	97
60) Ethylbenzene	17.40	91	485002	2.17	ppb	98
61) m&p-xylene	17.58	91	793633	4.32	ppb	100
62) Nonane	17.91	43	219998	2.11	ppb	98
63) Styrene	18.00	104	271875	2.17	ppb	95
64) Bromoform	18.14	173	265580	1.96	ppb	99
65) o-xylene	18.03	91	455317	2.05	ppb	99
66) Cumene	18.55	105	522668	2.28	ppb	99
68) 1,1,2,2-tetrachloroethane	18.46	81	330543	1.92	ppb	100
69) Propylbenzene	19.07	91	585091m	2.39	ppb	
70) 2-Chlorotoluene	19.12	91	460667m	1.87	ppb	
71) 4-ethyltoluene	19.23	105	525050m	2.26	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	522084m	2.02	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	455144	2.47	ppb	99
74) 1,3-dichlorobenzene	20.02	146	312348	2.22	ppb	99
75) benzyl chloride	20.08	91	174184m	2.55	ppb	
76) 1,4-dichlorobenzene	20.15	146	294373	2.29	ppb	99
77) 1,2,3-trimethylbenzene	20.18	105	412596	2.37	ppb	98
78) 1,2-dichlorobenzene	20.46	146	322546	2.18	ppb	98
79) 1,2,4-trichlorobenzene	22.26	180	112475m	2.23	ppb	
80) Naphthalene	22.46	128	211307m	2.41	ppb	
81) Hexachloro-1,3-butadiene	22.55	225	302186	2.04	ppb	97

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091004.D Vial: 2
 Acq On : 10 Sep 2014 11:48 pm Operator: RJP
 Sample : A1UG_1.50 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:09 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	33998	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.71	114	165326	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	143463	1.00	ppb	0.00

System Monitoring Compounds						
67) Bromofluorobenzene	18.67	95	110678	1.06	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	106.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.61	51	117739	1.50	ppb	98
3) Propylene	4.61	41	49683	1.53	ppb	93
4) Freon 12	4.67	85	245134	1.54	ppb	99
5) Chloromethane	4.89	50	57072	1.53	ppb	95
6) Freon 114	4.90	85	188470	1.54	ppb	96
7) Vinyl Chloride	5.11	62	48337	1.54	ppb	99
8) Butane	5.22	43	54983	1.46	ppb	94
9) 1,3-butadiene	5.23	39	40651	1.53	ppb	85
10) Bromomethane	5.61	94	60661	1.58	ppb	95
11) Chloroethane	5.79	64	22184	1.52	ppb	# 82
12) Ethanol	5.96	45	11270	1.54	ppb	87
13) Acrolein	6.57	56	8819m	1.55	ppb	
14) Vinyl Bromide	6.16	106	57511	1.56	ppb	96
15) Freon 11	6.44	101	230442	1.57	ppb	100
16) Acetone	6.68	58	17105	1.61	ppb	# 50
17) Pentane	6.73	42	38648	1.40	ppb	89
18) Isopropyl alcohol	6.79	45	52502	1.43	ppb	# 100
19) 1,1-dichloroethene	7.24	96	60245	1.61	ppb	98
20) Freon 113	7.44	101	152152	1.52	ppb	98
21) t-Butyl alcohol	7.57	59	72266	1.52	ppb	# 97
22) Methylene chloride	7.73	84	41394	1.49	ppb	# 78
23) Allyl chloride	7.71	41	31664	1.52	ppb	92
24) Carbon disulfide	7.89	76	146823m	1.34	ppb	
25) Trans-1,2-dichloroethene	8.69	61	79851	1.53	ppb	96
26) methyl tert-butyl ether	8.74	73	166316	1.55	ppb	90
27) 1,1-dichloroethane	9.13	63	139286	1.52	ppb	99
28) Vinyl acetate	9.13	43	87287	1.54	ppb	99
29) Methyl Ethyl Ketone	9.66	72	25991	1.67	ppb	97
30) cis-1,2-dichloroethene	10.08	61	80165	1.52	ppb	94
31) Hexane	9.65	57	99541	1.59	ppb	94
32) Ethyl acetate	10.25	43	96399	1.63	ppb	98
33) Chloroform	10.69	83	185420	1.52	ppb	99
34) Tetrahydrofuran	10.90	42	49423	1.61	ppb	92
35) 1,2-dichloroethane	11.79	62	104063	1.52	ppb	98
37) 1,1,1-trichloroethane	11.50	97	189610	1.46	ppb	98
38) Cyclohexane	12.15	56	99801	1.53	ppb	90
39) Carbon tetrachloride	12.10	117	212271	1.49	ppb	99
40) Benzene	12.08	78	232044	1.49	ppb	97
41) Methyl methacrylate	13.53	41	53964	1.66	ppb	93
42) 1,4-dioxane	13.64	88	27775	1.52	ppb	98
43) 2,2,4-trimethylpentane	12.85	57	303477	1.49	ppb	96
44) Heptane	13.17	43	101708	1.51	ppb	94
45) Trichloroethene	13.32	130	104893	1.49	ppb	98

(#) - qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091004.D
 Acq On : 10 Sep 2014 11:48 pm
 Sample : A1UG_1.50
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:09 2014

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	86375	1.43	ppb	99
47) Bromodichloromethane	13.74	83	195852	1.46	ppb	100
48) cis-1,3-dichloropropene	14.49	75	104895	1.57	ppb	98
49) trans-1,3-dichloropropene	15.20	75	80599	1.60	ppb	96
50) 1,1,2-trichloroethane	15.50	97	110907	1.49	ppb	99
52) Toluene	15.27	92	153504	1.58	ppb	98
53) Methyl Isobutyl Ketone	14.42	43	112568	1.58	ppb	97
54) Dibromochloromethane	16.17	129	196396m P	1.50	ppb	
55) Methyl Butyl Ketone	15.67	43	73328	1.52	ppb	95
56) 1,2-dibromoethane	16.41	107	145233	1.53	ppb	99
57) Tetrachloroethylene	16.23	164	125755	1.54	ppb	100
58) Chlorobenzene	17.17	112	214112	1.52	ppb	97
59) 1,1,1,2-tetrachloroethane	17.26	131	138098	1.48	ppb	96
60) Ethylbenzene	17.40	91	340928	1.63	ppb	99
61) m&p-xylene	17.59	91	571984	3.32	ppb	99
62) Nonane	17.91	43	155023	1.59	ppb	99
63) Styrene	18.00	104	194835	1.66	ppb	97
64) Bromoform	18.13	173	193331	1.52	ppb	100
65) o-xylene	18.03	91	328146	1.58	ppb	99
66) Cumene	18.56	105	366043	1.70	ppb	99
68) 1,1,2,2-tetrachloroethane	18.46	83	246985	1.53	ppb	99
69) Propylbenzene	19.07	91	376953m	1.64	ppb	
70) 2-Chlorotoluene	19.12	91	343635m	1.49	ppb	
71) 4-ethyltoluene	19.23	105	369904m	1.70	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	391304m	1.62	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	306840	1.77	ppb	100
74) 1,3-dichlorobenzene	20.02	146	222431	1.69	ppb	99
75) benzyl chloride	20.09	91	114657	1.79	ppb	99
76) 1,4-dichlorobenzene	20.15	146	205727	1.70	ppb	100
77) 1,2,3-trimethylbenzene	20.18	105	293050	1.80	ppb	98
78) 1,2-dichlorobenzene	20.46	146	228100	1.64	ppb	98
79) 1,2,4 trichlorobenzene	22.26	180	75647m	1.60	ppb	
80) Naphthalene	22.46	128	129777m	1.58	ppb	
81) Hexachloro-1,3-butadiene	22.55	225	222395	1.60	ppb	97

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091005.D Vial: 3
 Acq On : 11 Sep 2014 12:26 am Operator: RJP
 Sample : A1UG_1.25 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:10 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	128	34466	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	163548	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	144790	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
67) Bromofluorobenzene	18.67	95	106744	1.01	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.62	51	97545	1.23	ppb	98
3) Propylene	4.62	41	41849	1.27	ppb	93
4) Freon 12	4.67	85	202763	1.25	ppb	100
5) Chloromethane	4.90	50	48047	1.27	ppb	94
6) Freon 114	4.90	85	156678	1.27	ppb	96
7) Vinyl Chloride	5.11	62	39884	1.26	ppb	100
8) Butane	5.23	43	46147	1.21	ppb	96
9) 1,3-butadiene	5.23	39	31879	1.18	ppb	93
10) Bromomethane	5.62	94	49084	1.26	ppb	92
11) Chloroethane	5.80	64	18331	1.24	ppb	86
12) Ethanol	5.95	45	9999	1.35	ppb	82
13) Acrolein	6.57	56	7317m	1.27	ppb	
14) Vinyl Bromide	6.16	106	48199	1.29	ppb	96
15) Freon 11	6.44	101	193442	1.30	ppb	99
16) Acetone	6.69	58	14530	1.35	ppb	# 53
17) Pentane	6.72	42	35828m	1.28	ppb	
18) Isopropyl alcohol	6.80	45	48901m	1.32	ppb	
19) 1,1-dichloroethene	7.24	96	48269	1.27	ppb	97
20) Freon 113	7.44	101	126818	1.25	ppb	99
21) t-Butyl alcohol	7.57	59	61306	1.27	ppb	# 99
22) Methylene chloride	7.72	84	35545	1.26	ppb	# 77
23) Allyl chloride	7.71	41	26245	1.25	ppb	92
24) Carbon disulfide	7.90	76	129361m	1.16	ppb	
25) trans-1,2-dichloroethene	8.69	61	66085	1.25	ppb	99
26) methyl tert-butyl ether	8.74	73	139108	1.28	ppb	90
27) 1,1-dichloroethane	9.13	63	116368	1.25	ppb	99
28) Vinyl acetate	9.13	43	71026	1.32	ppb	99
29) Methyl Ethyl Ketone	9.66	72	20831	1.32	ppb	99
30) cis-1,2-dichloroethene	10.07	61	65056	1.21	ppb	100
31) Hexane	9.65	57	82814	1.30	ppb	91
32) Ethyl acetate	10.25	43	77106	1.28	ppb	96
33) Chloroform	10.69	83	153395	1.24	ppb	99
34) Tetrahydrofuran	10.90	42	39146	1.26	ppb	88
35) 1,2-dichloroethane	11.79	62	85849	1.24	ppb	99
37) 1,1,1-trichloroethane	11.50	97	158596	1.24	ppb	99
38) Cyclohexane	12.15	56	81005	1.26	ppb	89
39) Carbon tetrachloride	12.11	117	174800	1.24	ppb	100
40) Benzene	12.08	78	190244	1.23	ppb	96
41) Methyl methacrylate	13.53	41	43708	1.36	ppb	96
42) 1,4-dioxane	13.64	88	23974	1.33	ppb	98
43) 2,2,4-trimethylpentane	12.85	57	255724	1.27	ppb	96
44) Heptane	13.17	43	82363	1.23	ppb	93
45) Trichloroethene	13.32	130	86537	1.24	ppb	98

(#) - qualifier out of range (m) * manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091005.D
 Acq On : 11 Sep 2014 12:26 am
 Sample : A1UG_1.25
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:10 2014

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	74046	1.24	ppb	100
47) Bromodichloromethane	13.74	83	164887	1.25	ppb	99
48) cis-1,3-dichloropropene	14.49	75	85218	1.29	ppb	94
49) trans-1,3-dichloropropene	15.20	75	62654	1.26	ppb	91
50) 1,1,2-trichloroethane	15.50	97	93823	1.28	ppb	99
52) Toluene	15.26	92	124227	1.27	ppb	100
53) Methyl Isobutyl Ketone	14.43	43	97201	1.35	ppb	97
54) Dibromochloromethane	16.17	129	167248m	1.27	ppb	
55) Methyl Butyl Ketone	15.67	43	67441	1.38	ppb	99
56) 1,2-dibromoethane	16.42	107	121951	1.28	ppb	97
57) Tetrachloroethylene	16.23	164	103945	1.26	ppb	100
58) Chlorobenzene	17.17	112	177571	1.25	ppb	97
59) 1,1,1,2-tetrachloroethane	17.26	131	114073	1.21	ppb	99
60) Ethylbenzene	17.40	91	277206	1.31	ppb	98
61) m&p-xylene	17.59	91	458828	2.64	ppb	100
62) Nonane	17.91	43	127723	1.30	ppb	100
63) Styrene	18.00	104	155005	1.31	ppb	97
64) Bromoform	18.14	173	160637	1.25	ppb	98
65) o-xylene	18.03	91	301805	1.44	ppb	92
66) Cumene	18.56	105	285795	1.32	ppb	99
68) 1,1,2,2-tetrachloroethane	18.46	83	203266	1.25	ppb	100
69) Propylbenzene	19.07	91	305467m	1.32	ppb	
70) 2-Chlorotoluene	19.12	91	304946m	1.31	ppb	
71) 4-ethyltoluene	19.23	105	294421m	1.34	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	314272m	1.29	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	240660	1.38	ppb	99
74) 1,3-dichlorobenzene	20.02	146	175767	1.32	ppb	99
75) benzyl chloride	20.09	91	84724m	1.31	ppb	
76) 1,4-dichlorobenzene	20.15	146	161279	1.32	ppb	98
77) 1,2,3-trimethylbenzene	20.18	105	225222	1.37	ppb	96
78) 1,2-dichlorobenzene	20.47	146	180855	1.29	ppb	97
79) 1,2,4-trichlorobenzene	22.27	180	58229m	1.22	ppb	
80) Naphthalene	22.47	128	100580m	1.21	ppb	
81) Hexachloro-1,3-butadiene	22.54	225	180396	1.28	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL091005.D A910_1UG.M Mon Sep 15 09:46:24 2014 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091006.D Vial: 4
 Acq On : 11 Sep 2014 1:04 am Operator: RJP
 Sample : A1UG_1.0 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant. Time: Sep 11 08:57:11 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	OTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	34557	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	162312	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	142407	1.00	ppb	0.00

System Monitoring Compounds	R.T.	OTon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.67	95	104647	1.01	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds	R.T.	OTon	Response	Conc	Units	Qvalue
2) Freon 22	4.61	51	79556	1.00	ppb	99
3) Propylene	4.61	41	32998	1.00	ppb	95
4) Freon 12	4.67	85	162396	1.00	ppb	98
5) Chloromethane	4.90	50	37835	1.00	ppb	93
6) Freon 114	4.90	85	124410	1.00	ppb	96
7) Vinyl Chloride	5.12	62	31968	1.00	ppb	100
8) Butane	5.23	43	38285	1.00	ppb	96
9) 1,3-butadiene	5.22	39	27006	1.00	ppb	88
10) Bromomethane	5.61	94	39054	1.00	ppb	91
11) Chloroethane	5.79	64	14900	1.00	ppb	92
12) Ethanol	5.95	45	7263	0.98	ppb	79
13) Acrolein	6.57	56	5786	1.00	ppb	82
14) Vinyl Bromide	6.16	106	37587	1.00	ppb	97
15) Freon 11	6.44	101	149864	1.00	ppb	98
16) Acetone	6.69	58	10805	1.00	ppb	# 46
17) Pentane	6.72	42	28027	1.00	ppb	76
18) Isopropyl alcohol	6.79	45	36778	0.99	ppb	# 100
19) 1,1-dichloroethane	7.23	96	38096	1.00	ppb	95
20) Freon 113	7.44	101	102037	1.00	ppb	100
21) t-Butyl alcohol	7.57	59	48267	1.00	ppb	# 96
22) Methylene chloride	7.72	84	28075	0.99	ppb	# 75
23) Allyl chloride	7.71	41	23123m	1.09	ppb	
24) Carbon disulfide	7.89	76	110843	0.99	ppb	98
25) trans-1,2-dichloroethene	8.69	61	53488	1.01	ppb	98
26) methyl tert-butyl ether	8.74	73	109179	1.00	ppb	87
27) 1,1-dichloroethane	9.13	63	93518	1.00	ppb	96
28) Vinyl acetate	9.13	43	54202	1.00	ppb	98
29) Methyl Ethyl Ketone	9.66	72	15759	1.00	ppb	95
30) cis-1,2-dichloroethene	10.08	61	53928	1.00	ppb	96
31) Hexane	9.65	57	63797	1.00	ppb	88
32) Ethyl acetate	10.25	43	60380	1.00	ppb	97
33) Chloroform	10.69	83	124492	1.00	ppb	100
34) Tetrahydrofuran	10.91	42	31274	1.00	ppb	93
35) 1,2-dichloroethane	11.79	62	69596	1.00	ppb	99
37) 1,1,1-trichloroethane	11.50	97	126759	1.00	ppb	99
38) Cyclohexane	12.16	56	63648	1.00	ppb	87
39) Carbon tetrachloride	12.10	117	139492	1.00	ppb	99
40) Benzene	12.08	78	152390	0.99	ppb	96
41) Methyl methacrylate	13.53	41	31889	1.00	ppb	94
42) 1,4-dioxane	13.64	88	17697	0.99	ppb	97
43) 2,2,4-trimethylpentane	12.85	57	198816	1.00	ppb	95
44) Heptane	13.17	43	65935	1.00	ppb	95
45) Trichloroethene	13.32	130	68691	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration
 AL091006.D A910_1UG.M Mon Sep 15 09:46:28 2014 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091006.D
 Acq On : 11 Sep 2014 1:04 am
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:11 2014

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO 15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

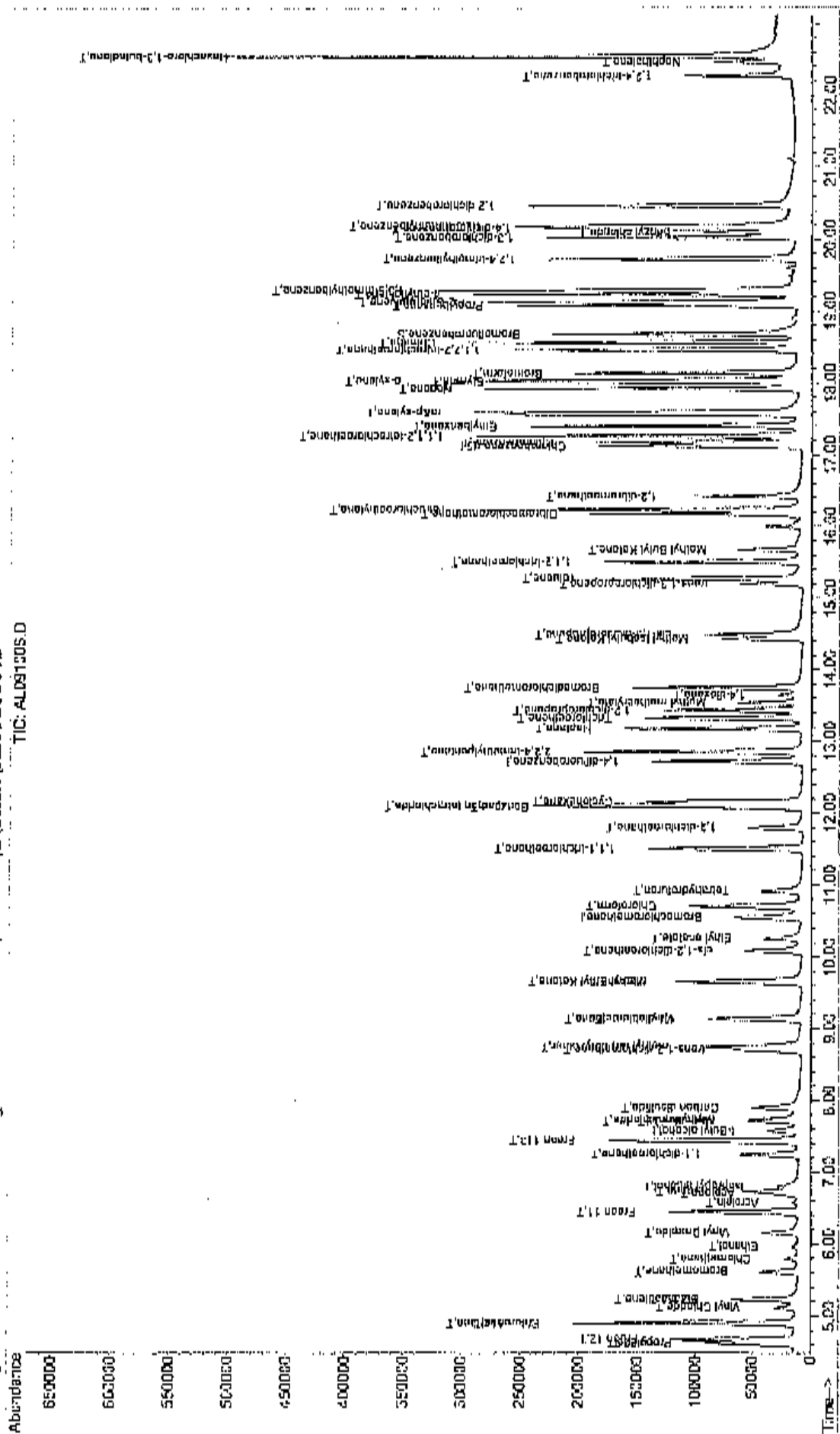
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	59052	1.00	ppb	100
47) Bromodichloromethane	13.74	83	130867	1.00	ppb	99
48) cis-1,3-dichloropropene	14.49	75	65362	1.00	ppb	95
49) trans-1,3-dichloropropene	15.20	75	49174	1.00	ppb	90
50) 1,1,2-trichloroethane	15.50	97	72668	1.00	ppb	98
52) Toluene	15.27	92	97005	1.01	ppb	100
53) Methyl Isobutyl Ketone	14.43	43	70987	1.00	ppb	96
54) Dibromochloromethane	16.17	129	127681m	0.98	ppb	
55) Methyl Butyl Ketone	15.67	43	47827	1.00	ppb	98
56) 1,2-dibromoethane	16.42	107	94942	1.01	ppb	100
57) Tetrachloroethylene	16.23	164	81632	1.01	ppb	100
58) Chlorobenzene	17.17	112	139777	1.00	ppb	98
59) 1,1,1,2-tetrachloroethane	17.26	131	93033	1.01	ppb	99
60) Ethylbenzene	17.40	91	209056	1.01	ppb	98
61) m&p-xylene	17.59	91	343761	2.01	ppb	100
62) Nonane	17.91	43	97365	1.01	ppb	100
63) Styrene	18.00	104	117217	1.01	ppb	96
64) Bromoform	18.14	173	126646	1.01	ppb	100
65) o-xylene	18.03	91	207525	1.01	ppb	100
66) Cumene	18.56	105	214296	1.01	ppb	98
68) 1,1,2,2-tetrachloroethane	18.46	83	161076	1.00	ppb	99
69) Propylbenzene	19.07	91	221075m	0.97	ppb	
70) 2-Chlorotoluene	19.12	91	212188m	0.93	ppb	
71) 4-ethyltoluene	19.23	105	206056m	0.95	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	251705m	1.05	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	172870	1.01	ppb	100
74) 1,3-dichlorobenzene	20.02	146	131602	1.01	ppb	99
75) benzyl chloride	20.09	91	68778m	1.08	ppb	
76) 1,4-dichlorobenzene	20.15	146	120472	1.01	ppb	97
77) 1,2,3-trimethylbenzene	20.18	105	163129	1.01	ppb	98
78) 1,2-dichlorobenzene	20.47	146	138835	1.01	ppb	98
79) 1,2,4-trichlorobenzene	22.27	180	47371	1.01	ppb	100
80) Naphthalene	22.46	128	81209	0.99	ppb	100
81) Hexachloro-1,3-butadiene	22.54	225	138875	1.01	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL091006.D A910_1UG.M Mon Sep 15 09:46:28 2014 MSD1

Page: 2

Data File : C:\HPCHEM\1\DATA\AL091006.D
 Vial: 4
 Acq On : 11 Sep 2014 1:04 am
 Operator: RJP
 Sample : AL09_1.0
 Inst : MSD #1
 Misc : A910_IUG
 Meltix: 1.00
 MS Integration Params: RTEIMI.P
 Quant Time: Sep 11 9:03 2014
 Quant Results File: A910_IUG.RES

Method : C:\HPCHEM\1\METHODS\A910_IUG.M (FIE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Sep 15 09:30:10 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 TIC: AL091006.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091007.D Vial: 5
 Acq On : 11 Sep 2014 1:42 am Operator: RJP
 Sample : A1UG_0.75 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:12 2014 Quant Results File: A910 1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.55	128	32693	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	158511	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	135676	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	97192	0.98	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.61	51	58567	0.78	ppb	98
3) Propylene	4.61	41	25029	0.80	ppb	95
4) Freon 12	4.67	85	120244	0.78	ppb	98
5) Chloromethane	4.90	50	29489	0.82	ppb	92
6) Freon 114	4.90	85	96682	0.82	ppb	97
7) Vinyl Chloride	5.12	62	23903	0.79	ppb	98
8) Butane	5.22	43	30236	0.84	ppb	97
9) 1,3-butadiene	5.23	39	20851m	0.82	ppb	
10) Bromomethane	5.61	94	28655	0.78	ppb	88
11) Chloroethane	5.79	64	10594	0.75	ppb	87
12) Ethanol	5.96	45	5818m	0.83	ppb	
13) Acrolein	6.58	56	4312m	0.79	ppb	
14) Vinyl Bromide	6.15	106	28357	0.80	ppb	96
15) Freon 11	6.44	101	115475	0.82	ppb	99
16) Acetone	6.70	58	7937	0.78	ppb	# 49
17) Pentane	6.73	42	21011	0.79	ppb	73
18) Isopropyl alcohol	6.81	45	27749	0.79	ppb	# 100
19) 1,1-dichloroethene	7.24	96	29079	0.81	ppb	96
20) Freon 113	7.44	101	74156	0.77	ppb	95
21) t-Butyl alcohol	7.59	59	45399	0.99	ppb	# 94
22) Methylene chloride	7.73	84	22360m	0.84	ppb	
23) Allyl chloride	7.71	41	22651	1.13	ppb	89
24) Carbon disulfide	7.90	76	89889	0.85	ppb	99
25) Trans-1,2-dichloroethene	8.69	61	39203	0.78	ppb	97
26) methyl tert-butyl ether	8.76	73	78874	0.77	ppb	85
27) 1,1-dichloroethane	9.13	63	72299	0.82	ppb	98
28) Vinyl acetate	9.15	43	41857m	0.82	ppb	
29) Methyl Ethyl Ketone	9.68	72	10827	0.72	ppb	100
30) cis-1,2-dichloroethene	10.07	61	40323	0.79	ppb	97
31) Hexane	9.64	57	47114	0.78	ppb	87
32) Ethyl acetate	10.26	43	41060	0.72	ppb	95
33) Chloroform	10.70	83	93633	0.80	ppb	98
34) Tetrahydrofuran	10.93	42	22918	0.78	ppb	96
35) 1,2-dichloroethane	11.79	62	49916	0.76	ppb	99
37) 1,1,1-trichloroethane	11.50	97	93926	0.76	ppb	100
38) Cyclohexane	12.15	56	47685	0.76	ppb	88
39) Carbon tetrachloride	12.11	117	104504	0.76	ppb	100
40) Benzene	12.08	78	113643	0.76	ppb	95
41) Methyl methacrylate	13.53	41	21168	0.68	ppb	90
42) 1,4-dioxane	13.66	88	13234	0.76	ppb	98
43) 2,2,4-trimethylpentane	12.86	57	150520	0.77	ppb	95
44) Heptane	13.17	43	48072	0.74	ppb	98
45) Trichloroethene	13.32	130	49775	0.74	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091007.D
 Acq On : 11 Sep 2014 1:42 am
 Sample : A1UG_0.75
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:12 2014

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.44	63	43994	0.76	ppb	100
47) Bromodichloromethane	13.74	83	98248	0.77	ppb	100
48) cis-1,3-dichloropropene	14.49	75	46530	0.73	ppb	95
49) trans-1,3-dichloropropene	15.20	75	37371	0.77	ppb	95
50) 1,1,2-trichloroethane	15.51	97	54923	0.77	ppb	100
52) Toluene	15.27	92	67793	0.74	ppb	98
53) Methyl Isobutyl Ketone	14.43	43	52787	0.78	ppb	96
54) Dibromochloromethane	16.17	129	93611m	0.76	ppb	
55) Methyl Butyl Ketone	15.68	43	33582	0.74	ppb	96
56) 1,2-dibromoethane	16.42	107	68704	0.77	ppb	98
57) Tetrachloroethylene	16.23	164	60410	0.78	ppb	98
58) Chlorobenzene	17.17	112	101202	0.76	ppb	98
59) 1,1,1,2-tetrachloroethane	17.26	131	68203	0.77	ppb	97
60) Ethylbenzene	17.40	91	145994	0.74	ppb	99
61) m&p-xylene	17.59	91	236573	1.45	ppb	98
62) Nonane	17.91	43	67250	0.73	ppb	97
63) Styrene	18.00	104	80085	0.72	ppb	94
64) Bromoform	18.14	173	92225	0.77	ppb	99
65) o-xylene	18.03	91	143129	0.73	ppb	99
66) Cumene	18.56	105	147407	0.73	ppb	# 98
68) 1,1,2,2-tetrachloroethane	18.48	83	116330	0.76	ppb	99
69) Propylbenzene	19.07	91	163221m	0.75	ppb	
70) 2-Chlorotoluene	19.12	91	159487m	0.73	ppb	
71) 4-ethyltoluene	19.23	105	135030m	0.65	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	179261m	0.78	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	110528	0.67	ppb	96
74) 1,3-dichlorobenzene	20.02	146	93160	0.75	ppb	97
75) Benzyl chloride	20.09	91	42580	0.70	ppb	97
76) 1,4-dichlorobenzene	20.15	146	81273	0.71	ppb	99
77) 1,2,3-trimethylbenzene	20.18	105	114168m	0.74	ppb	
78) 1,2-dichlorobenzene	20.46	146	93872	0.72	ppb	99
79) 1,2,4-trichlorobenzene	22.27	180	36155m	0.81	ppb	
80) Naphthalene	22.46	128	58462m	0.75	ppb	
81) Hexachloro-1,3-butadiene	22.55	225	99336	0.75	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL091007.D A910_1UG.M Mon Sep 15 09:46:33 2014 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091008.D
 Acq On : 11 Sep 2014 2:19 am
 Sample : A1UG_0.50
 Misc : A910_1UG
 MS Integration Params: RTEINT.F
 Quant Time: Sep 11 08:57:13 2014

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplier: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth: 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	32246	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	151166	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	129046	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.67	95	87973	0.93	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	93.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.62	51	38550	0.52	ppb	96
3) Propylene	4.62	41	16327	0.53	ppb	93
4) Freon 12	4.68	85	80949	0.54	ppb	100
5) Chloromethane	4.89	50	19111	0.54	ppb	98
6) Freon 114	4.90	85	62730	0.54	ppb	96
7) Vinyl Chloride	5.11	62	16400	0.55	ppb	98
8) Butane	5.22	43	19384	0.54	ppb	93
9) 1,3-butadiene	5.23	39	13339	0.53	ppb	90
10) Bromomethane	5.60	94	19767	0.54	ppb	96
11) Chloroethane	5.80	64	7436	0.54	ppb	96
12) Ethanol	5.96	45	3447m	0.50	ppb	
13) Acrolein	6.59	56	3007	0.56	ppb	# 70
14) Vinyl Bromide	6.16	106	18741	0.54	ppb	95
15) Freon 11	6.44	101	78769	0.56	ppb	98
16) Acetone	6.69	58	5440m	0.54	ppb	
17) Pentane	6.73	42	13691	0.52	ppb	78
18) Isopropyl alcohol	6.80	45	19314	0.56	ppb	# 100
19) 1,1-dichloroethene	7.24	96	19963	0.56	ppb	98
20) Freon 113	7.43	101	50582	0.53	ppb	97
21) t-Butyl alcohol	7.58	59	24774	0.55	ppb	# 97
22) Methylene chloride	7.73	84	14190	0.54	ppb	# 80
23) Allyl chloride	7.71	41	9195	0.47	ppb	73
24) Carbon disulfide	7.90	76	60683	0.58	ppb	99
25) trans-1,2-dichloroethene	8.69	61	26069	0.53	ppb	94
26) methyl tert-butyl ether	8.75	73	49450	0.49	ppb	87
27) 1,1-dichloroethane	9.13	63	48355	0.56	ppb	99
28) Vinyl acetate	9.14	43	24496	0.49	ppb	96
29) Methyl Ethyl Ketone	9.69	72	7121	0.48	ppb	# 92
30) cis-1,2-dichloroethene	10.09	61	26331	0.52	ppb	97
31) Hexane	9.65	57	31107	0.52	ppb	85
32) Ethyl acetate	10.25	43	24033	0.43	ppb	93
33) Chloroform	10.70	83	61993	0.53	ppb	99
34) Tetrahydrofuran	10.92	42	14086	0.48	ppb	94
35) 1,2-dichloroethane	11.79	62	33285	0.51	ppb	99
37) 1,1,1-trichloroethane	11.50	97	62639	0.53	ppb	98
38) Cyclohexane	12.15	56	30880	0.52	ppb	86
39) Carbon tetrachloride	12.10	117	69461	0.53	ppb	99
40) Benzene	12.08	78	74634	0.52	ppb	94
41) Methyl methacrylate	13.53	41	12452	0.42	ppb	86
42) 1,4-dioxane	13.65	88	9363	0.56	ppb	98
43) 2,2,4-trimethylpentane	12.86	57	95500	0.51	ppb	93
44) Heptane	13.18	43	28332	0.46	ppb	89
45) Trichloroethene	13.32	130	33211	0.52	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091008.D
 Acq On : 11 Sep 2014 2:19 am
 Sample : A1UG_0.50
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 09:57:13 2014

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091008.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Ovalue
46) 1,2-dichloropropane	13.44	63	28181	0.51	ppb	100
47) Bromodichloromethane	13.74	83	63077	0.52	ppb	99
48) cis-1,3-dichloropropene	14.49	75	30041	0.49	ppb	93
49) trans-1,3-dichloropropene	15.20	75	23257	0.51	ppb	90
50) 1,1,2-trichloroethane	15.51	97	35517	0.52	ppb	99
52) Toluene	15.27	92	42627	0.49	ppb	100
53) Methyl Isobutyl Ketone	14.43	43	32303	0.50	ppb	97
54) Dibromochloromethane	16.17	129	62097m	0.53	ppb	
55) Methyl Butyl Ketone	15.68	43	21725	0.50	ppb	99
56) 1,2-dibromoethane	16.42	107	43250	0.51	ppb	99
57) Tetrachloroethylen	16.23	164	39378	0.53	ppb	100
58) Chlorobenzene	17.17	112	61753	0.49	ppb	98
59) 1,1,1,2-tetrachloroethane	17.26	131	43466	0.52	ppb	96
60) Ethylbenzene	17.40	91	86693	0.46	ppb	98
61) m&p-xylene	17.59	91	133353	0.86	ppb	98
62) Nonane	17.91	43	37916	0.43	ppb	95
63) Styrene	18.00	104	46597	0.44	ppb	96
64) Bromoform	18.14	173	59533	0.52	ppb	99
65) o-xylene	18.03	91	94514	0.51	ppb	91
66) Cumene	18.56	105	83314	0.43	ppb	# 98
68) 1,1,2,2-tetrachloroethane	18.45	83	73951	0.51	ppb	99
69) Propylbenzene	19.07	91	85348m	0.41	ppb	
70) 2-Chlorotoluene	19.12	91	100376m	0.48	ppb	
71) 4-ethyltoluene	19.23	105	77129m	0.30	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	105414m	0.48	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	64526m	0.41	ppb	
74) 1,3-dichlorobenzene	20.01	146	51577	0.43	ppb	99
75) benzyl chloride	20.09	91	24328	0.42	ppb	98
76) 1,4-dichlorobenzene	20.16	146	46951	0.43	ppb	96
77) 1,2,3-trimethylbenzene	20.18	105	62303m	0.42	ppb	
78) 1,2-dichlorobenzene	20.47	146	50109	0.40	ppb	92
79) 1,2,4-trichlorobenzene	22.27	180	23122m	0.54	ppb	
80) Naphthalene	22.46	128	39759m	0.54	ppb	
81) Hexachloro-1,3-butadiene	22.55	225	61431	0.49	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL091008.D A910_1UG.M Mon Sep 15 09:46:37 2014 MSD1

QUALIFICATION REPORT (QI REVIEWED)

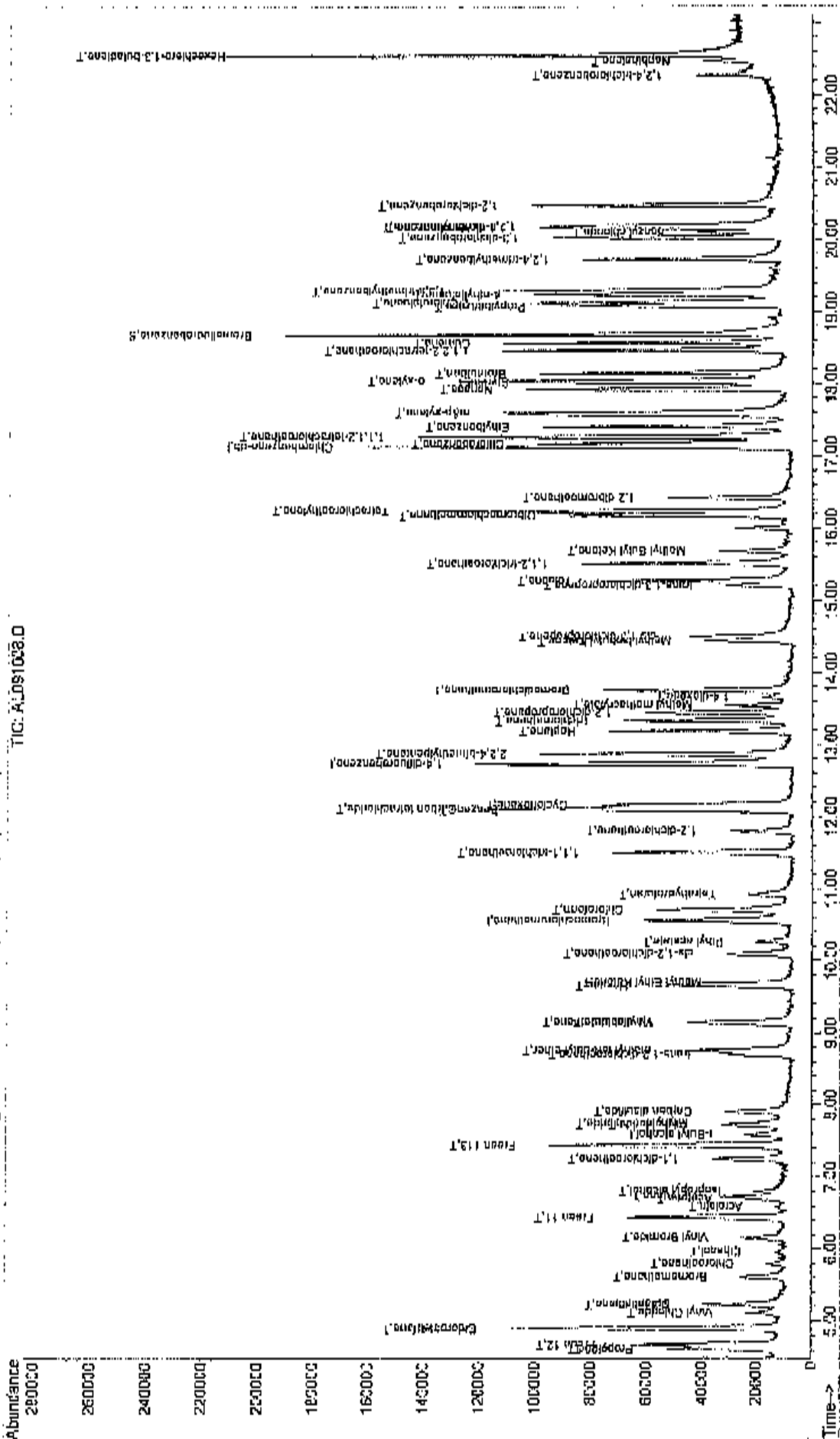
Data File : C:\HPCHEM\1\DATA\AL091008.D
 Acq On : 11 Sep 2014 2:15 am
 Sample : AL09_0.50
 Misc : A920_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 9:06 2014

Vial: 6
 Operator: RJF
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (FIE Integrator)
 Title : TO-15 VQA Standards for 5 point calibration
 Last Update : Mon Sep 15 09:30:13 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL09_006.D

TIC: AL091008.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091009.D Vial: 7
 Acq On : 11 Sep 2014 2:55 am Operator: RJP
 Sample : A1UG_0.10 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:14 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal. File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	31360	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	147463	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	122437	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.67	95	84167m	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.61	51	24569	0.34	ppb	99
3) Propylene	4.62	41	10178	0.34	ppb	94
4) Freon 12	4.68	85	48394	0.33	ppb	98
5) Chloromethane	4.90	50	12750	0.37	ppb	96
6) Freon 114	4.90	85	39560	0.34	ppb	96
7) Vinyl Chloride	5.11	62	9899	0.34	ppb	100
8) Butane	5.22	43	11775	0.34	ppb	94
9) 1,3-butadiene	5.23	39	9030	0.37	ppb	80
10) Bromomethane	5.61	94	13242	0.37	ppb	99
11) Chloroethane	5.80	64	4634	0.34	ppb	93
12) Ethanol	5.97	45	2272	0.34	ppb	# 67
13) Acrolein	6.58	56	1896m	0.36	ppb	
14) Vinyl Bromide	6.16	106	11776	0.35	ppb	96
15) Freon 11	6.44	101	4737B	0.35	ppb	99
16) Acetone	6.70	58	3015m	0.31	ppb	
17) Pentane	6.72	42	8859	0.35	ppb	# 61
18) Isopropyl alcohol	6.80	45	11950	0.35	ppb	# 100
19) 1,1-dichloroethene	7.24	96	12854	0.37	ppb	98
20) Freon 113	7.43	101	31214	0.34	ppb	97
21) t-Butyl alcohol	7.59	59	16545	0.38	ppb	# 91
22) Methylene chloride	7.73	84	8670	0.34	ppb	# 77
23) Allyl chloride	7.71	41	5711	0.30	ppb	82
24) Carbon disulfide	7.90	76	28483	0.28	ppb	90
25) trans-1,2-dichloroethene	8.70	61	14731	0.31	ppb	92
26) methyl tert-butyl ether	8.76	73	26223	0.27	ppb	81
27) 1,1-dichloroethane	9.14	63	28795	0.34	ppb	100
28) Vinyl acetate	9.15	43	15332	0.31	ppb	95
29) Methyl Ethyl Ketone	9.68	72	4130	0.29	ppb	# 1
30) cis-1,2-dichloroethene	10.08	61	15853	0.32	ppb	88
31) Hexane	9.65	57	17590	0.31	ppb	81
32) Ethyl acetate	10.27	43	17436m	0.32	ppb	
33) Chloroform	10.69	83	37546	0.33	ppb	99
34) Tetrahydrofuran	10.92	42	7861	0.28	ppb	96
35) 1,2-dichloroethane	11.80	62	20150	0.32	ppb	99
37) 1,1,1-trichloroethane	11.50	97	38271	0.33	ppb	100
38) Cyclohexane	12.16	56	18551	0.32	ppb	85
39) Carbon tetrachloride	12.10	117	42499	0.33	ppb	99
40) Benzene	12.08	78	45648	0.33	ppb	93
41) Methyl methacrylate	13.54	41	7437	0.26	ppb	95
42) 1,4-dioxane	13.66	88	5920	0.36	ppb	97
43) 2,2,4-trimethylpentane	12.85	57	56206	0.31	ppb	93
44) Heptane	13.17	43	17858	0.30	ppb	97
45) Trichloroethene	13.32	130	20034	0.32	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Date File : C:\HPCHEM\1\DATA\AL091009.D
 Acq On : 11 Sep 2014 2:55 am
 Sample : A1UG_0.30
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:14 2014

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	17471	0.32 ppb	96
47) Bromodichloromethane	13.74	83	37862	0.32 ppb	98
48) cis-1,3-dichloropropene	14.50	75	17140	0.29 ppb	95
49) trans-1,3-dichloropropene	15.20	75	14416	0.32 ppb	94
50) 1,1,2-trichloroethane	15.50	97	20956	0.32 ppb	99
52) Toluene	15.27	92	24111	0.29 ppb	97
53) Methyl Isobutyl Ketone	14.43	43	20098	0.33 ppb	97
54) Dibromochloromethane	16.17	129	35105m	0.31 ppb	
55) Methyl Butyl Ketone	15.60	43	14391m	0.35 ppb	
56) 1,2-dibromothane	16.42	107	25935	0.32 ppb	98
57) Tetrachloroethylene	16.23	164	23419	0.34 ppb	99
58) Chlorobenzene	17.17	112	37647	0.31 ppb	99
59) 1,1,1,2-tetrachloroethane	17.26	131	26204	0.33 ppb	93
60) Ethylbenzene	17.40	91	46897	0.26 ppb	100
61) m&p-xylene	17.58	91	66679	0.45 ppb	95
62) Nonane	17.91	43	21904m	0.26 ppb	
63) Styrene	18.01	104	24094	0.24 ppb	90
64) Bromoform	18.14	173	33646	0.31 ppb	99
65) o-xylene	18.04	91	49961	0.28 ppb	87
66) Cumene	18.56	105	45487m	0.25 ppb	
68) 1,1,2,2-tetrachloroethane	18.46	83	42201	0.31 ppb	99
69) Propylbenzene	19.07	91	43737m	0.22 ppb	
70) 2-Chlorotoluene	19.12	91	50796m	0.26 ppb	
71) 4-ethyltoluene	19.23	105	36695m	0.20 ppb	
72) 1,3,5-trimethylbenzene	19.28	105	51400m	0.25 ppb	
73) 1,2,4-trimethylbenzene	19.72	105	36681m	0.25 ppb	
74) 1,3-dichlorobenzene	20.03	146	27441	0.24 ppb	98
75) benzyl chloride	20.09	91	13249	0.24 ppb	97
76) 1,4-dichlorobenzene	20.15	146	27318m	0.27 ppb	
77) 1,2,3-trimethylbenzene	20.19	105	36270m	0.26 ppb	
78) 1,2-dichlorobenzene	20.46	146	28508	0.24 ppb	97
79) 1,2,4-trichlorobenzene	22.27	180	13071m	0.32 ppb	
80) Naphthalene	22.47	128	22521m	0.32 ppb	
81) Hexachloro-1,3-butadiene	22.55	225	36434	0.31 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL091009.D A910_1UG.M Mon Sep 15 09:46:41 2014 MSD1

Quantitation Report (OT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091010.D
 Acq On : 11 Sep 2014 3:32 am
 Sample : A1UG_0.15
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:15 2014

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for b point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : LUG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	34179m	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.73	114	139700	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	113057	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Bromofluorobenzene	18.68	95	77927m	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Freon 22	4.61	51	13299	0.17	ppb	98
3) Propylene	4.61	41	5607	0.17	ppb	96
4) Freon 12	4.67	85	26854	0.17	ppb	98
5) Chloromethane	4.90	50	6682	0.18	ppb	95
6) Freon 114	4.90	85	19912	0.16	ppb	93
7) Vinyl Chloride	5.12	62	5365	0.17	ppb	99
8) Butane	5.23	43	5862	0.18	ppb	87
9) 1,3-butadiene	5.23	39	5166	0.19	ppb	82
10) Bromomethane	5.61	94	7223	0.19	ppb	99
11) Chloroethane	5.79	84	2455	0.17	ppb	# 71
12) Ethanol	5.96	45	1609m	0.22	ppb	
13) Acrolein	6.62	56	1206m	0.21	ppb	
14) Vinyl Bromide	6.16	106	6081	0.16	ppb	94
15) Freon 11	6.45	101	25526	0.17	ppb	99
16) Acetone	6.70	58	1834m	0.17	ppb	
17) Pentane	6.71	42	5005	0.18	ppb	# 68
18) Isopropyl alcohol	6.82	45	5995	0.16	ppb	100
19) 1,1-dichloroethene	7.24	96	6627	0.18	ppb	98
20) Freon 113	7.44	101	17111	0.17	ppb	99
21) t-Butyl alcohol	7.59	59	7956	0.17	ppb	# 81
22) Methylene chloride	7.74	84	4925	0.18	ppb	# 70
23) Allyl chloride	7.73	41	3158m	0.15	ppb	
24) Carbon disulfide	7.90	76	15440	0.14	ppb	84
25) trans 1,2-dichloroethene	8.70	61	7480	0.14	ppb	91
26) methyl tert-butyl ether	8.76	73	15171m	0.14	ppb	
27) 1,1-dichloroethane	9.13	63	15668	0.17	ppb	99
28) Vinyl acetate	9.16	43	8142	0.15	ppb	90
29) Methyl Ethyl Ketone	9.69	72	2280	0.15	ppb	# 1
30) cis-1,2-dichloroethene	10.08	61	8469	0.16	ppb	97
31) Hexane	9.65	57	9757	0.15	ppb	85
32) Ethyl acetate	10.27	43	8893m	0.15	ppb	
33) Chloroform	10.69	83	20137	0.16	ppb	100
34) Tetrahydrofuran	10.93	42	4711m	0.15	ppb	
35) 1,2-dichloroethane	11.81	62	10948	0.16	ppb	96
37) 1,1,1-trichloroethane	11.50	97	20705	0.19	ppb	98
38) Cyclohexane	12.15	56	10398	0.19	ppb	91
39) Carbon tetrachloride	12.11	117	22403	0.19	ppb	98
40) Benzene	12.08	78	23440	0.18	ppb	90
41) Methyl methacrylate	13.55	41	4916	0.18	ppb	93
42) 1,4-dioxane	13.67	88	2674m	0.17	ppb	
43) 2,2,4-trimethylpentane	12.86	57	30786	0.18	ppb	92
44) Heptane	13.18	43	9822	0.17	ppb	97
45) Trichloroethene	13.32	130	11121	0.19	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091010.D
 Acq On : 11 Sep 2014 3:32 am
 Sample : A1UG_0.15
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:15 2014

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	9904	0.19	ppb	97
47) Bromodichloromethane	13.74	83	21519	0.19	ppb	98
48) cis-1,3-dichloropropene	14.50	75	9248	0.16	ppb	94
49) trans-1,3-dichloropropene	15.20	75	7455	0.18	ppb	98
50) 1,1,2-trichloroethane	15.51	97	9753	0.16	ppb	83
52) Toluene	15.28	92	13118	0.17	ppb	99
53) Methyl Isobutyl Ketone	14.44	43	9496m	0.17	ppb	
54) Dibromochloromethane	16.17	129	19253m	0.19	ppb	
55) Methyl Butyl Ketone	15.69	43	7929m	0.21	ppb	
56) 1,2-dibromoethane	16.42	107	13890	0.19	ppb	100
57) Tetrachloroethylene	16.24	164	12801	0.20	ppb	98
58) Chlorobenzene	17.17	112	19324	0.17	ppb	90
59) 1,1,1,2-tetrachloroethane	17.26	131	14701	0.20	ppb	# 62
60) Ethylbenzene	17.40	91	24229	0.15	ppb	97
61) m&p-xylene	17.56	91	33501	0.25	ppb	99
62) Nonane	17.92	43	10736m	0.14	ppb	
63) Styrene	18.01	104	12202m	0.13	ppb	
64) Bromoform	18.14	173	18598	0.19	ppb	97
65) o-xylene	18.03	91	23847	0.15	ppb	94
66) Cumene	18.56	105	21263	0.13	ppb	# 95
68) 1,1,2,2-tetrachloroethane	18.46	83	21983	0.17	ppb	99
69) Propylbenzene	19.07	91	21220m	0.12	ppb	
70) 2-Chlorotoluene	19.12	91	26593m	0.15	ppb	
71) 4-ethyltoluene	19.23	105	18066m	0.11	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	25117m	0.13	ppb	
73) 1,2,4-trimethylbenzene	19.73	105	17696m	0.13	ppb	
74) 1,3-dichlorobenzene	20.03	146	12604	0.12	ppb	99
75) benzyl chloride	20.10	91	7166	0.14	ppb	92
76) 1,4-dichlorobenzene	20.15	146	13098	0.14	ppb	96
77) 1,2,3-trimethylbenzene	20.19	105	15236m	0.12	ppb	
78) 1,2-dichlorobenzene	20.47	146	12852	0.12	ppb	83
79) 1,2,4-trichlorobenzene	22.26	180	7102m	0.19	ppb	
80) Naphthalene	22.49	128	11268m	0.17	ppb	
81) Hexachloro-1,3-butadiene	22.55	225	19287	0.18	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL091010.D A910_1UG.M Mon Sep 15 09:46:45 2014 MSD1

Quantitation Report (OT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091011.D Vial: 9
 Acq On : 11 Sep 2014 4:09 am Operator: RJP
 Sample : A1UG_0.10 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 08:57:16 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	33719m ⁰	1.00	ppb	0.00
16) 1,4-difluorobenzene	12.72	114	138704	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	110681	1.00	ppb	0.00

System Monitoring Compounds						
57) Bromofluorobenzene	18.68	95	71605m ⁰	0.89	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	89.00%

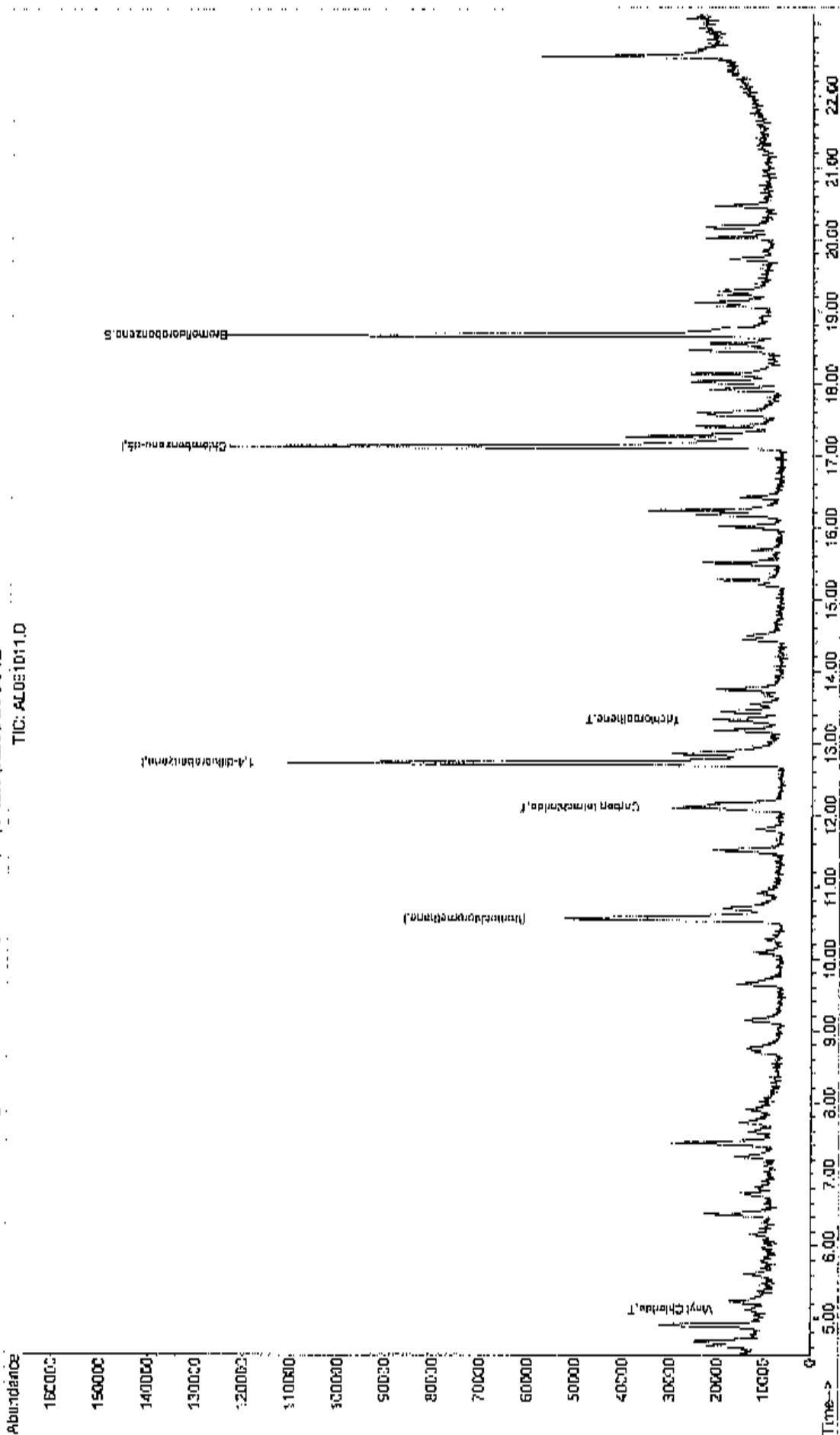
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Vinyl Chloride	5.11	62	3711	0.12	ppb	53
39) Carbon tetrachloride	12.11	117	15016	0.13	ppb	58
45) Trichloroethene	13.33	130	6706	0.11	ppb	53

Data File : C:\HPCHEM\1\DATA\ALC91011.D
 Acq On : 11 Sep 2014 4:09 am
 Sample : A1UG_0.10
 Misc : A910_1UG
 MS Integration Params: RTEINT.F
 Quant Time: Sep 11 9:14 2014

Vial: 9
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Sep 15 09:30:10 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091005.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AL091012.D Vial: 10
 Acq On : 11 Sep 2014 4:46 am Operator: RJP
 Sample : A1UG_0.04 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 09:57:17 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 08:56:46 2014
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AL091006.D
 DataAcq Meth : 1UG_RUN

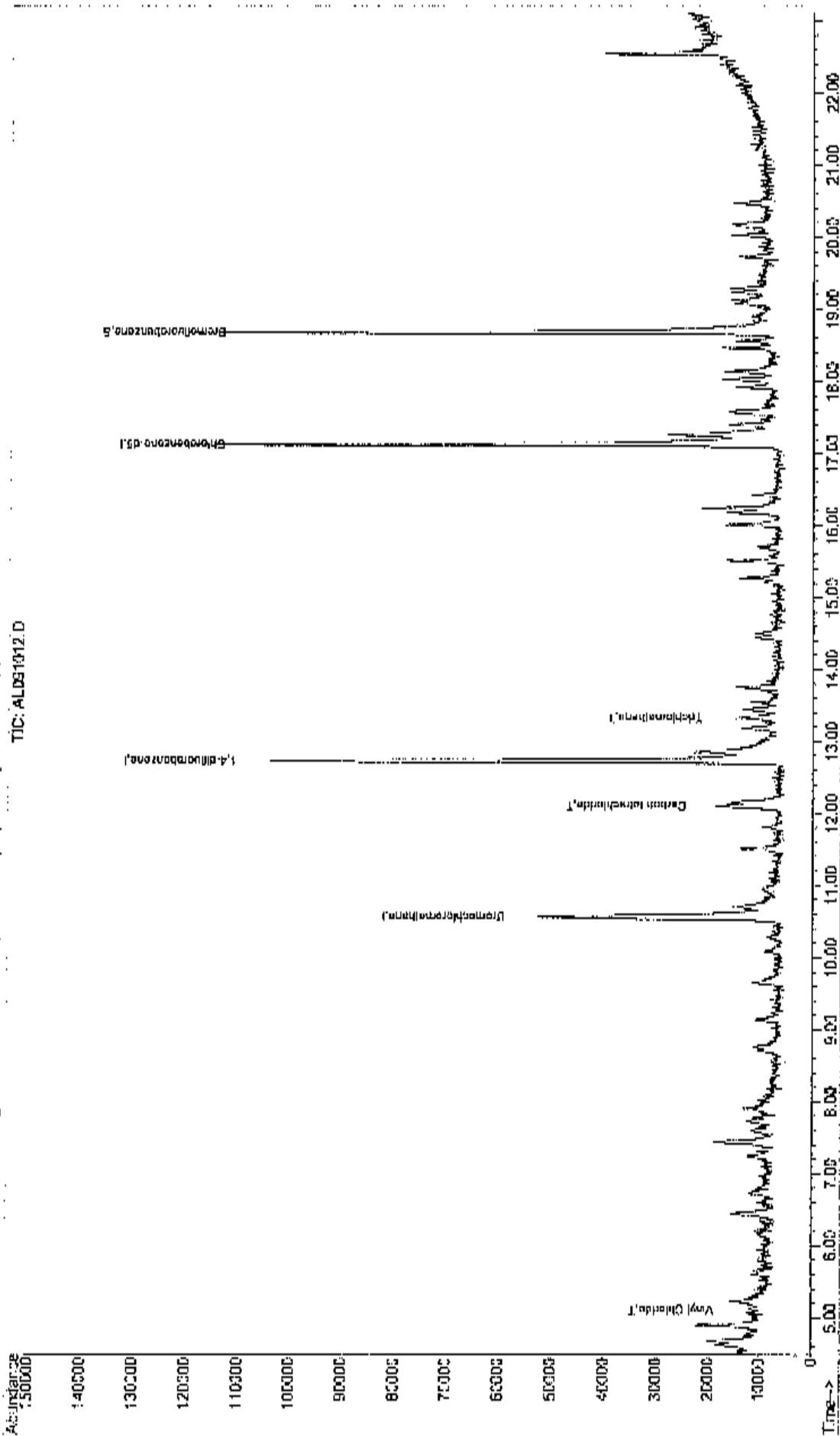
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	32913m ^β	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.72	114	135271	1.00	ppb	0.00
51) Chlorobenzene d5	17.12	117	104137	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	18.67	95	68437m ^β	0.90	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	90.00%	
Target Compounds						
7) Vinyl Chloride	5.11	62	1983	0.07	ppb	85
39) Carbon tetrachloride	12.11	117	7838	0.07	ppb	99
45) Trichloroethene	13.32	130	3717	0.06	ppb	93

Data File : C:\EPCHEM\1\DATA\AL091012.D
 Acq On : 11 Sep 2014 4:46 am
 Sample : ALUG_0.04
 Misc : ASIC_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Sep 11 9:15 2014

Vial: 10
 Operator: RJP
 Inst : MSD #1
 Multipl: 1.00

Quant Results File: A910_1UG.RES

Method : C:\EPCHEM\1\METHODS\A910_1UG.M (RTS Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Sep 15 09:20:10 2014
 Response via : Continuing Cal File: C:\EPCHEM\1\DATA\AL091005.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Data File : C:\HPCHEM\1\DATA\AL101703.D

Vial: 3

Acq On : 17 Oct 2014 12:16 pm

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A910_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)

Title : TO 15 VOA Standards for 5 point calibration

Last Update : Fri Oct 31 13:55:31 2014

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
1	I Bromochloromethane	1.000	1.000	0.0	104	0.00
2	T Freon 22	2.384	2.355	1.2	106	0.00
3	T Propylene	1.008	0.838	16.9	91	0.00
4	T Freon 12	4.890	4.108	16.0	91	0.00
5	T Chloromethane	1.179	1.240	-5.2	118	0.00
6	T Freon 114	3.785	3.526	6.8	102	0.00
7	T Vinyl Chloride	1.040	0.965	7.2	108	0.00
8	T Butane	1.170	1.291	-10.3	121	0.00
9	T 1,3-butadiene	0.841	0.898	-6.8	119	0.00
10	T Bromomethane	1.220	1.092	10.5	100	0.00
11	T Chloroethane	0.448	0.461	-2.9	111	0.00
12	T Ethanol	0.236	0.274	16.1	136	0.00
13	T Acrolein	0.185	0.190	-2.7	118	0.00
14	T Vinyl Bromide	1.147	1.069	6.8	102	0.00
15	T Freon 11	4.661	4.678	-0.4	112	0.00
16	T Acetone	0.332	0.397	-19.6	132	0.00
17	T Pentane	0.850	0.938	-10.4	120	0.00
18	T Isopropyl alcohol	1.136	1.356	-19.4	132	0.00
19	T 1,1-dichloroethene	1.201	1.203	-0.2	113	0.00
20	T Freon 113	3.081	3.206	-4.1	113	0.00
21	T t-Butyl alcohol	1.538	1.692	-10.0	126	0.00
22	T Methylene chloride	0.865	0.976	-12.8	125	0.00
23	T Allyl chloride	0.657	0.818	24.5	127	0.00
24	T Carbon disulfide	3.187	2.883	9.5	93	0.00
25	T trans-1,2-dichloroethene	1.556	1.275	18.1	86	0.00
26	T methyl tert-butyl ether	3.113	2.531	18.7	83	0.00
27	T 1,1 dichloroethane	2.859	2.378	16.8	91	0.00
28	T Vinyl acetate	1.634	1.239	24.2	82	0.00
29	T Methyl Ethyl Ketone	0.466	0.449	3.6	102	0.00
30	T cis-1,2-dichloroethene	1.604	1.213	24.4	81	0.00
31	T Hexane	1.915	1.466	23.1	83	0.00
32	T Ethyl acetate	1.765	1.882	-6.6	112	0.00
33	T Chloroform	3.739	3.079	17.7	89	0.00
34	T Tetrahydrofuran	0.909	0.841	7.5	97	0.00
35	T 1,2-dichloroethane	2.053	1.771	13.7	91	0.00
36	I 1,4-difluorobenzene	1.000	1.000	0.0	94	0.00
37	T 1,1,1-trichloroethane	0.818	0.739	9.7	89	0.00
38	T Cyclohexane	0.414	0.326	21.3	79	0.00
39	T Carbon tetrachloride	0.978	0.867	11.3	95	0.00
40	T Benzene	0.978	0.809	17.3	81	0.00
41	T Methyl methacrylate	0.200	0.200	0.0	96	0.00
42	T 1,4-dioxane	0.119	0.139	-16.8	120	0.00
43	T 2,2,4-trimethylpentane	1.276	0.990	22.4	76	0.00
44	T Heptane	0.411	0.324	21.2	75	0.00
45	T Trichloroethene	0.470	0.347	26.2	77	0.00
46	T 1,2-dichloropropane	0.380	0.296	22.1	77	0.00
47	T Bromodichloromethane	0.844	0.727	13.9	85	0.00
48	T cis-1,3-dichloropropene	0.411	0.321	21.9	75	0.00
49	T trans-1,3-dichloropropene	0.321	0.250	22.1	78	0.00
50	T 1,1,2-trichloroethane	0.459	0.380	17.2	80	0.00

(#) = Out of Range

AL101703.D A910_1UG.M

Fri Oct 31 14:26:50 2014

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AL101703.D
 Acq On : 17 Oct 2014 12:16 pm
 Sample : A1UC 1.0
 Misc : A910 1UG
 MS Integration Params: RTEINT.P

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A910 1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
51 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
52 T	Toluene	0.693	0.505	27.1	66	0.00
53 T	Methyl Isobutyl Ketone	0.526	0.640	-21.7	115	0.00
54 T	Dibromochloromethane	0.947	0.803	15.2	80	0.00
55 T	Methyl Butyl Ketone	0.363	0.434	-19.6	116	0.00
56 T	1,2-dibromoethane	0.693	0.550	20.6	74	0.00
57 T	Tetrachloroethylene	0.610	0.497	18.5	78	0.00
58 T	Chlorobenzene	1.007	0.743	26.2	68	0.00
59 T	1,1,1,2-tetrachloroethane	0.682	0.664	2.6	91	0.00
60 T	Ethylbenzene	1.457	1.094	24.9	67	0.00
61 T	m&p-xylene	1.149	0.886	22.9	66	0.00
62 T	Nonane	0.663	0.531	19.9	70	0.00
63 T	Styrene	0.795	0.619	22.1	67	0.00
64 T	Bromoform	0.923	0.794	14.0	80	0.00
65 T	o-xylene	1.472	1.156	21.5	71	0.00
66 T	Cumene	1.466	1.069	27.1	64	0.00
67 S	Bromofluorobenzene	0.708	0.731	-3.2	89	0.00
68 T	1,1,2,2-tetrachloroethane	1.152	0.990	14.1	78	0.00
69 T	Propylbenzene	1.534	1.154	24.8	66	0.00
70 T	2-Chlorotoluene	1.544	1.110	28.1	67	0.00
71 T	4-ethyltoluene	1.387	1.198	13.6	74	0.00
72 T	1,3,5-trimethylbenzene	1.663	1.430	14.0	72	0.00
73 T	1,2,4-trimethylbenzene	1.198	0.894	25.4	66	0.00
74 T	1,3-dichlorobenzene	0.894	0.743	16.9	72	0.00
75 T	benzyl chloride	0.454	0.530	16.7	98	0.00
76 T	1,4-dichlorobenzene	0.837	0.672	19.7	71	0.00
77 T	1,2,3-trimethylbenzene	1.134	0.990	12.7	77	0.00
78 T	1,2-dichlorobenzene	0.915	0.853	6.8	78	0.00
79 T	1,2,4-trichlorobenzene	0.358	0.369	-3.1	99	0.00
80 T	Naphthalene	0.611	0.773	-26.5	121	0.00
81 T	Hexachloro-1,3-butadiene	1.006	1.133	-12.6	104	0.00

Date File : C:\HPCHEM\1\DATA\AL101703.D
 Acq On : 17 Oct 2014 12:16 pm
 Sample : A10G_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 13:25:54 2014

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910 1UC.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	35912	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	153181	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	127402	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	93154	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	103.00%

Target Compounds

Target Compounds	R.T.	Qion	Response	Conc	Units	Ovalue
2) Freon 22	4.62	51	84564	0.99	ppb	97
3) Propylene	4.61	41	30083	0.83	ppb	88
4) Freon 12	4.67	85	147532	0.84	ppb	98
5) Chloromethane	4.90	50	44532	1.05	ppb	100
6) Freon 114	4.90	85	126632	0.93	ppb	98
7) Vinyl Chloride	5.11	62	34671	0.93	ppb	99
8) Butane	5.22	43	46347	1.10	ppb	87
9) 1,3-butadiene	5.23	39	32252	1.07	ppb	79
10) Bromomethane	5.61	94	39221	0.89	ppb	86
11) Chloroethane	5.79	64	16558	1.03	ppb	# 78
12) Ethanol	5.98	45	9844m	1.16	ppb	
13) Acrolein	6.61	56	6830m	1.03	ppb	
14) Vinyl Bromide	6.16	106	38399	0.93	ppb	91
15) Freon 11	6.44	101	167986	1.00	ppb	100
16) Acetone	6.71	58	14270	1.20	ppb	# 64
17) Pentane	6.73	42	33680	1.10	ppb	87
18) Isopropyl alcohol	6.82	45	48700	1.19	ppb	# 100
19) 1,1-dichloroethene	7.25	96	43197	1.00	ppb	89
20) Freon 113	7.44	101	115144	1.04	ppb	94
21) t Butyl alcohol	7.59	59	60780	1.10	ppb	# 91
22) Methylene chloride	7.74	84	35045	1.13	ppb	91
23) Allyl chloride	7.71	41	29361	1.24	ppb	88
24) Carbon disulfide	7.89	76	103544	0.90	ppb	97
25) trans-1,2-dichloroethene	8.69	61	45777	0.82	ppb	97
26) methyl tert-butyl ether	8.75	73	90899	0.81	ppb	71
27) 1,1-dichloroethane	9.13	63	85392	0.83	ppb	98
28) Vinyl acetate	9.15	43	44497	0.76	ppb	92
29) Methyl Ethyl Ketone	9.68	72	16118	0.96	ppb	# 85
30) cis-1,2-dichloroethene	10.08	61	43552	0.76	ppb	91
31) Hexane	9.64	57	52646	0.77	ppb	# 77
32) Ethyl acetate	10.26	43	67585	1.07	ppb	97
33) Chloroform	10.69	83	110582	0.82	ppb	99
34) Tetrahydrofuran	10.92	42	30212	0.93	ppb	98
35) 1,2-dichloroethane	11.79	62	63612	0.86	ppb	99
37) 1,1,1-trichloroethane	11.50	97	113165	0.90	ppb	98
38) Cyclohexane	12.15	56	49999	0.79	ppb	80
39) Carbon tetrachloride	12.10	117	132752	0.89	ppb	99
40) Benzene	12.08	78	123986	0.83	ppb	91
41) Methyl methacrylate	13.53	41	30630	1.00	ppb	99
42) 1,4-dioxane	13.64	88	21294	1.17	ppb	97
43) 2,2,4-trimethylpentane	12.85	57	151686	0.78	ppb	87
44) Heptane	13.17	43	49600	0.79	ppb	98
45) Trichloroethene	13.32	130	53173	0.74	ppb	97

(#) = qualifier out of range (m) - manual integration

Data File : C:\HPCHEM\1\DATA\AL101703.D
 Acq On : 17 Oct 2014 12:16 pm
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 13:25:54 2014

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	45310	0.78	ppb	97
47) Bromodichloromethane	13.74	83	111329	0.86	ppb	99
48) cis-1,3-dichloropropene	14.49	75	49101	0.78	ppb	98
49) trans-1,3-dichloropropene	15.19	75	38281	0.78	ppb	93
50) 1,1,2-trichloroethane	15.50	97	58173	0.83	ppb	99
52) Toluene	15.26	92	64395	0.73	ppb	97
53) Methyl Isobutyl Ketone	14.43	43	81591	1.22	ppb	93
54) Dibromochloromethane	16.17	129	102356m	0.85	ppb	
55) Methyl Butyl Ketone	15.67	43	55293m	1.20	ppb	
56) 1,2-dibromoethane	16.41	107	70108	0.79	ppb	98
57) Tetrachloroethylene	16.23	164	63321	0.81	ppb	98
58) Chlorobenzene	17.17	112	94616	0.74	ppb	97
59) 1,1,1,2-tetrachloroethane	17.26	131	84556	0.97	ppb	98
60) Ethylbenzene	17.40	91	139361m	0.75	ppb	
61) m,p-xylene	17.59	91	225753	1.54	ppb	98
62) Nonane	17.91	43	67683	0.80	ppb	93
63) Styrene	18.00	104	78887	0.78	ppb	90
64) Bromoform	18.13	173	101194	0.86	ppb	100
65) o xylene	18.03	91	147259	0.79	ppb	98
66) Cumene	18.55	105	136243	0.73	ppb	# 97
68) 1,1,2,2-tetrachloroethane	18.46	83	126175	0.86	ppb	100
69) Propylbenzene	19.07	91	146978m	0.75	ppb	
70) 2-Chlorotoluene	19.11	91	141439m	0.72	ppb	
71) 4-ethyltoluene	19.23	105	152597m	0.86	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	182130m	0.86	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	113902	0.75	ppb	99
74) 1,3-dichlorobenzene	20.02	146	94615	0.83	ppb	99
75) benzyl chloride	20.08	91	67572m	1.17	ppb	
76) 1,4-dichlorobenzene	20.15	146	85676	0.80	ppb	98
77) 1,2,3 trimethylbenzene	20.18	105	126188	0.87	ppb	98
78) 1,2-dichlorobenzene	20.46	146	108651	0.93	ppb	96
79) 1,2,4-trichlorobenzene	22.26	180	47007	1.03	ppb	99
80) Naphthalene	22.46	128	98498	1.27	ppb	98
81) Hexachloro-1,3-butadiene	22.54	225	144394	1.13	ppb	97

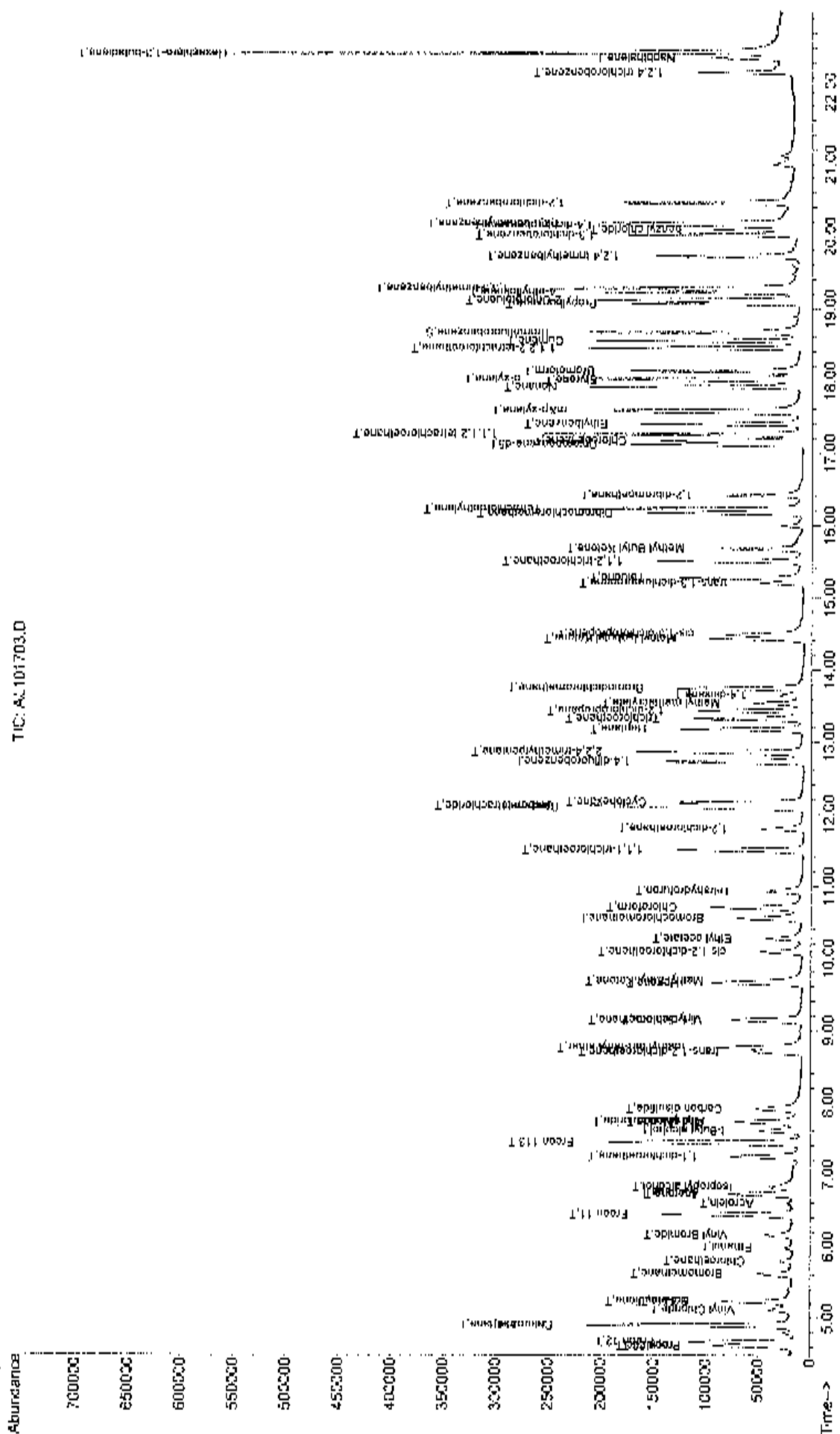
(#) = qualifier out of range (m) - manual integration (+) - signals summed
 AL101703.D A910_1UG.M Fri Oct 31 14:26:55 2014 MSD1

Data File : C:\HPCHEM\1\DATA\AL101703.D
 Acq On : 17 Oct 2014 12:16 pm
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 13:55 2014

Quant Results File: A910_1UG.RES

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplx: 1.00

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTX Integrator)
 Title : GC-MS VOA Standards for 5 point calibration.
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\AL102003.D

Vial: 4

Acq On : 20 Oct 2014 10:11 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A910_1UG

Multiplier: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Fri Oct 31 13:55:31 2014

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
1 T	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 T	Freon 22	2.384	2.119	11.1	92	-0.02
3 T	Propylene	1.008	0.719	28.7	75	0.00
4 T	Freon 12	4.890	3.738	23.6	80	-0.01
5 T	Chloromethane	1.179	1.087	7.8	99	0.00
6 T	Freon 114	3.785	3.223	14.8	90	0.00
7 T	Vinyl Chloride	1.040	0.895	13.9	97	-0.01
8 T	Butane	1.170	1.211	-3.5	109	0.00
9 T	1,3-butadiene	0.841	0.811	3.6	104	0.00
10 T	Bromomethane	1.220	1.041	14.7	92	0.00
11 T	Chloroethane	0.448	0.436	2.7	101	0.00
12 T	Ethanol	0.236	0.288	-22.0	137	0.04
13 T	Acrolein	0.185	0.184	0.5	110	-0.05
14 T	Vinyl Bromide	1.147	1.006	12.3	93	-0.02
15 T	Freon 11	4.661	4.316	7.4	100	-0.02
16 T	Acetone	0.332	0.408	-22.9	131	-0.04
17 T	Pentane	0.850	0.931	9.5	115	0.02
18 T	Isopropyl alcohol	1.136	1.208	-6.3	114	-0.04
19 T	1,1-dichloroethene	1.201	1.112	7.4	101	-0.02
20 T	Freon 113	3.081	2.831	8.1	96	-0.02
21 T	t-Butyl alcohol	1.538	1.591	-3.4	114	-0.04
22 T	Methylene chloride	0.865	0.900	-4.0	111	-0.02
23 T	Allyl chloride	0.657	0.689	-4.9	103	0.02
24 T	Carbon disulfide	3.187	2.541	20.3	79	-0.02
25 T	trans 1,2-dichloroethene	1.556	1.167	25.0	75	-0.02
26 T	methyl tert-butyl ether	3.113	2.235	28.2	71	-0.02
27 T	1,1-dichloroethane	2.859	2.190	23.4	81	-0.01
28 T	Vinyl acetate	1.634	1.202	26.4	77	-0.03
29 T	Methyl Ethyl Ketone	0.466	0.385	17.4	84	-0.03
30 T	cis 1,2 dichloroethene	1.604	1.152	28.2	74	-0.01
31 T	Hexane	1.915	1.352	29.4	73	0.00
32 T	Ethyl acetate	1.765	1.695	4.0	97	-0.03
33 T	Chloroform	3.739	2.915	22.0	81	-0.02
34 T	Tetrahydrofuran	0.909	0.764	16.0	84	0.02
35 T	1,2-dichloroethane	2.053	1.717	16.4	85	-0.01
36 I	1,4-difluorobenzene	1.000	1.000	0.0	94	-0.01
37 T	1,1,1-trichloroethane	0.818	0.666	18.6	80	-0.01
38 T	Cyclohexane	0.414	0.310	25.1	74	0.00
39 T	Carbon tetrachloride	0.978	0.775	20.8	84	-0.02
40 T	Benzene	0.978	0.714	27.0	71	-0.02
41 T	Methyl methacrylate	0.200	0.155	22.5	74	0.00
42 T	1,4-dioxane	0.119	0.122	-2.5	105	-0.02
43 T	2,2,4-trimethylpentane	1.276	0.915	28.3	70	-0.01
44 T	Heptane	0.411	0.314	23.6	72	0.00
45 T	Trichloroethene	0.470	0.349	25.7	77	-0.01
46 T	1,2-dichloropropane	0.380	0.282	25.8	72	0.01
47 T	Bromodichloromethane	0.844	0.675	20.0	78	0.00
48 T	cis-1,3-dichloropropene	0.411	0.317	22.9	74	0.00
49 T	trans 1,3-dichloropropene	0.321	0.248	22.7	77	-0.01
50 T	1,1,2-trichloroethane	0.459	0.340	25.9	71	-0.01

(#)- Out of Range

AL102003.D A910_1UG.M

Fri Oct 31 14:28:45 2014

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AL102003.D
 Acq On : 20 Oct 2014 10:11 am
 Sample : A1UG_1.0
 Misc : A910 1UG
 MS Integration Params: RTEINT.P

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev (min)
51 I	Chlorobenzene d5	1.000	1.000	0.0	78	0.00
52 T	Toluene	0.693	0.508	26.7	58	-0.01
53 T	Methyl Isobutyl Ketone	0.526	0.738	40.3#	115	0.02
54 T	Dibromochloromethane	0.947	0.792	16.4	69	0.00
55 T	Methyl Butyl Ketone	0.363	0.948	-161.2#	219#	-0.02
56 T	1,2-dibromoethane	0.693	0.530	23.5	62	0.00
57 T	Tetrachloroethylene	0.610	0.470	23.0	64	0.00
58 T	Chlorobenzene	1.007	0.732	27.3	58	0.01
59 T	1,1,1,2-tetrachloroethane	0.682	0.652	4.4	78	0.00
60 T	Ethylbenzene	1.457	1.055	27.6	56	-0.01
61 T	m&p-xylene	1.149	0.876	23.8	56	0.00
62 T	Nonane	0.663	0.498	24.9	57	0.00
63 T	Styrene	0.795	0.567	28.7	54	0.00
64 T	Bromoform	0.923	0.773	16.3	68	0.00
65 T	o-xylene	1.472	1.086	26.2	58	0.00
66 T	Cumene	1.466	0.959	34.6#	50#	0.00
67 S	Bromofluorobenzene	0.708	0.711	-0.4	75	-0.01
68 T	1,1,2,2-tetrachloroethane	1.152	0.960	16.7	66	0.00
69 T	Propylbenzene	1.534	1.196	32.0	60	0.00
70 T	2-Chlorotoluene	1.544	1.186	23.2	62	0.00
71 T	4-ethyltoluene	1.387	1.091	21.3	59	-0.01
72 T	1,3,5-trimethylbenzene	1.663	1.375	17.3	61	0.00
73 T	1,2,4-trimethylbenzene	1.198	0.926	22.7	59	0.00
74 T	1,3-dichlorobenzene	0.894	0.683	23.6	58	0.00
75 T	benzyl chloride	0.454	0.478	-5.3	77	0.00
76 T	1,4-dichlorobenzene	0.837	0.623	25.6	57	0.00
77 T	1,2,3-trimethylbenzene	1.134	0.834	26.5	57	0.00
78 T	1,2-dichlorobenzene	0.915	0.786	14.1	63	0.00
79 T	1,2,4-trichlorobenzene	0.358	0.355	0.8	83	0.00
80 T	Naphthalene	0.611	0.620	-1.5	84	0.00
81 T	Hexachloro-1,3-butadiene	1.006	1.002	0.4	80	0.00

Data File : C:\HPCHEM\1\DATA\AL102003.D
 Acq On : 20 Oct 2014 10:11 am
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.F
 Quant Time: Oct 20 10:53:23 2014

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	128	34568	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.70	114	152011	1.00	ppb	-0.02
51) Chlorobenzene-d5	17.11	117	110766	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.66	95	78808	1.01	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds

Target Compounds	R.T.	QTon	Response	Conc	Units	Qvalue
2) Freon 22	4.60	51	73235	0.89	ppb	98
3) Propylene	4.60	41	24861	0.71	ppb	92
4) Freon 12	4.66	85	129211	0.76	ppb	99
5) Chloromethane	4.89	50	37569	0.92	ppb	96
6) Freon 114	4.89	85	111405	0.85	ppb	99
7) Vinyl Chloride	5.10	62	30940	0.86	ppb	98
8) Butane	5.22	43	41852	1.04	ppb	98
9) 1,3-butadiene	5.22	39	28019	0.96	ppb	81
10) Bromomethane	5.60	94	35978	0.85	ppb	88
11) Chloroethane	5.78	64	15076	0.97	ppb	91
12) Ethanol	5.94	45	9942m	1.22	ppb	
13) Acrolein	6.56	56	6373m	1.00	ppb	
14) Vinyl Bromide	6.14	106	34786	0.88	ppb	97
15) Freon 11	6.43	101	149206	0.93	ppb	100
16) Acetone	6.67	58	14111	1.23	ppb	# 59
17) Pentane	6.71	42	32181	1.10	ppb	88
18) Isopropyl alcohol	6.78	45	41765	1.06	ppb	# 100
19) 1,1-dichloroethene	7.23	96	38434	0.93	ppb	96
20) Freon 113	7.41	101	97845	0.92	ppb	99
21) t-Butyl alcohol	7.55	59	54991	1.03	ppb	# 93
22) Methylene chloride	7.71	84	31128	1.04	ppb	86
23) Allyl chloride	7.69	41	23827	1.05	ppb	93
24) Carbon disulfide	7.88	76	87854	0.80	ppb	98
25) trans-1,2-dichloroethene	8.67	61	40337	0.75	ppb	98
26) methyl tert-butyl ether	8.73	73	77258	0.72	ppb	71
27) 1,1-dichloroethane	9.12	63	75712	0.77	ppb	96
28) Vinyl acetate	9.12	43	41568	0.74	ppb	93
29) Methyl Ethyl Ketone	9.65	72	13309	0.83	ppb	# 7
30) cis-1,2-dichloroethene	10.07	61	39811	0.72	ppb	92
31) Hexane	9.63	57	46719m	0.71	ppb	
32) Ethyl acetate	10.24	43	58606	0.96	ppb	# 78
33) Chloroform	10.68	83	100771	0.78	ppb	99
34) Tetrahydrofuran	10.90	42	26405	0.84	ppb	99
35) 1,2-dichloroethane	11.78	62	59364	0.84	ppb	98
37) 1,1,1-trichloroethane	11.49	97	101283	0.81	ppb	99
38) Cyclohexane	12.14	56	47105m	0.75	ppb	
39) Carbon tetrachloride	12.09	117	117816	0.79	ppb	100
40) Benzene	12.07	78	108511	0.73	ppb	91
41) Methyl methacrylate	13.52	41	23498	0.77	ppb	98
42) 1,4-dioxane	13.62	88	18600	1.03	ppb	93
43) 2,2,4-trimethylpentane	12.84	57	139075m	0.72	ppb	
44) Heptane	13.16	43	47792m	0.77	ppb	
45) Trichloroethene	13.31	130	53114m	0.74	ppb	

(#) - qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AL102003.D
 Acq On : 20 Oct 2014 10:11 am
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 10:53:23 2014

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910 1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.42	63	42810	0.74	ppb	99
47) Bromodichloromethane	13.73	83	102570	0.80	ppb	99
48) cis-1,3-dichloropropene	14.48	75	48120m	0.77	ppb	
49) trans-1,3-dichloropropene	15.18	75	37705m	0.77	ppb	
50) 1,1,2-trichloroethane	15.48	97	51679m	0.74	ppb	
52) Toluene	15.25	92	56282m	0.73	ppb	
53) Methyl Isobutyl Ketone	14.41	43	81734m	1.40	ppb	
54) Dibromochloromethane	16.16	129	87751m	0.84	ppb	
55) Methyl Butyl Ketone	15.66	43	104959m	2.61	ppb	
56) 1,2-dibromoethane	16.40	107	58721	0.77	ppb	97
57) Tetrachloroethylene	16.22	164	52036	0.77	ppb	100
58) Chlorobenzene	17.15	112	81042	0.73	ppb	98
59) 1,1,1,2 tetrachloroethane	17.25	131	72235	0.96	ppb	100
60) Ethylbenzene	17.38	91	116894m	0.72	ppb	
61) m&p-xylene	17.58	91	194069m	1.52	ppb	
62) Nonane	17.91	43	55168m	0.75	ppb	
63) Styrene	17.99	104	62825	0.71	ppb	89
64) Bromoform	18.13	173	85626	0.84	ppb	100
65) o-xylene	18.02	91	120279	0.74	ppb	97
66) Cumene	18.55	105	106184	0.65	ppb	# 97
68) 1,1,2,2 tetrachloroethane	18.45	83	106325	0.83	ppb	100
69) Propylbenzene	19.06	91	132432m	0.78	ppb	
70) 2-Chlorotoluene	19.11	91	131416m	0.77	ppb	
71) 4-ethyltoluene	19.22	105	120809m	0.79	ppb	
72) 1,3,5-trimethylbenzene	19.27	105	152391m	0.83	ppb	
73) 1,2,4-trimethylbenzene	19.71	105	102556m	0.77	ppb	
74) 1,3-dichlorobenzene	20.01	146	75683	0.76	ppb	99
75) benzyl chloride	20.08	91	52970	1.05	ppb	97
76) 1,4-dichlorobenzene	20.14	146	69013	0.74	ppb	98
77) 1,2,3-trimethylbenzene	20.18	105	92366	0.74	ppb	99
78) 1,2-dichlorobenzene	20.45	146	87010	0.86	ppb	97
79) 1,2,4 trichlorobenzene	22.26	180	39353m	0.99	ppb	
80) Naphthalene	22.46	128	68620m	1.01	ppb	
81) Hexachloro-1,3-butadiene	22.54	225	110968	1.00	ppb	97

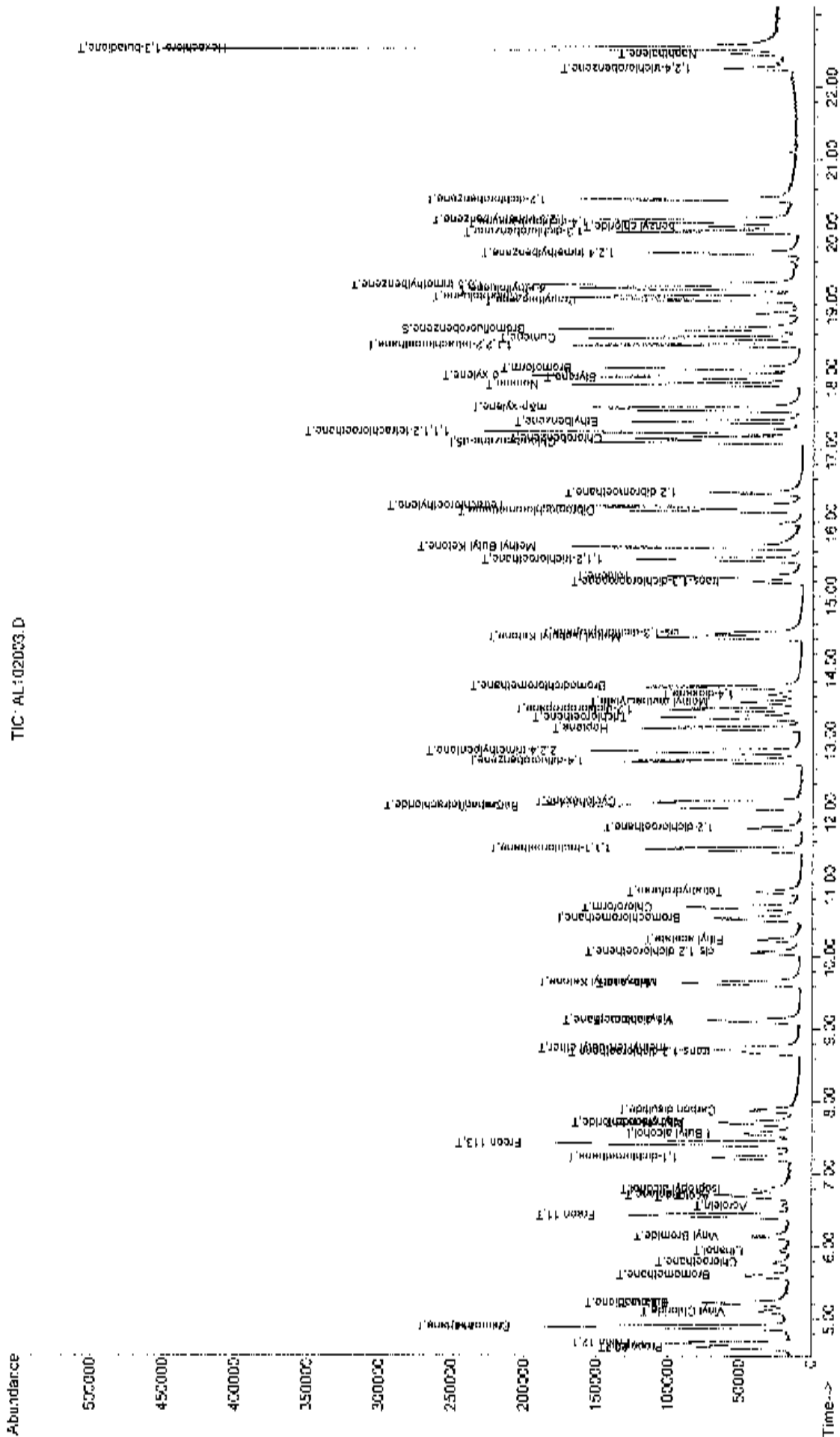
Data File : C:\HPCHEM\1\DATA\AL102003.D
 Acq On : 20 Oct 2014 10:11 am
 Sample : A10G 1.0
 Misc : A910_1UG
 MS Integration Params: 3CEINT.F
 Quant Time: Oct 20 11:02 2014

Vial: 4
 Operator: RJF
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Initial Calibration

TIC: AL102003.D



Data File : C:\HPCHEM\1\DATA2\AL102106.D
 Acq On : 21 Oct 2014 1:59 pm
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A910 1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2 T	Freon 22	2.384	2.146	10.0	95	0.00
3 T	Propylene	1.008	0.708	29.8	76	0.00
4 T	Freon 12	4.890	3.759	23.1	82	0.00
5 T	Chloromethane	1.179	1.100	6.7	103	0.00
6 T	Freon 114	3.785	3.313	12.5	94	0.00
7 T	Vinyl Chloride	1.040	0.913	12.2	101	0.00
8 T	Butane	1.170	1.099	6.1	101	0.00
9 T	1,3-butadiene	0.841	0.847	-0.7	111	0.00
10 T	Bromomethane	1.220	1.070	12.3	97	0.00
11 T	Chloroethane	0.448	0.430	4.0	102	0.00
12 T	Ethanol	0.236	0.343	45.3#	167#	0.00
13 T	Acrolein	0.185	0.191	-3.2	116	0.00
14 T	Vinyl Bromide	1.147	1.019	11.2	96	0.00
15 T	Freon 11	4.661	4.281	8.2	101	0.00
16 T	Acetone	0.332	0.334	-0.6	109	0.00
17 T	Pentane	0.850	0.863	-1.5	109	0.00
18 T	Isopropyl alcohol	1.136	1.286	-13.2	123	0.00
19 T	1,1-dichloroethene	1.201	0.997	17.0	92	0.00
20 T	Freon 113	3.081	2.830	8.1	98	0.00
21 t	t-Butyl alcohol	1.538	1.634	-6.2	120	0.00
22 T	Methylene chloride	0.865	0.888	-2.7	112	0.00
23 T	Allyl chloride	0.657	0.751	14.3	115	0.00
24 T	Carbon disulfide	3.187	2.573	19.3	82	0.00
25 T	trans-1,2-dichloroethene	1.556	1.175	24.5	78	0.00
26 T	methyl tert-butyl ether	3.113	2.174	30.2#	70	0.00
27 T	1,1-dichloroethane	2.859	2.140	25.1	81	0.00
28 T	Vinyl acetate	1.634	1.188	27.3	77	0.00
29 T	Methyl Ethyl Ketone	0.466	0.394	15.5	88	0.00
30 T	cis-1,2-dichloroethene	1.604	1.145	28.6	75	0.00
31 T	Hexane	1.915	1.359	29.0	75	0.00
32 T	Ethyl acetate	1.765	1.695	4.0	99	0.00
33 T	Chloroform	3.739	2.808	24.9	80	0.00
34 T	Tetrahydrofuran	0.909	0.770	15.3	87	0.00
35 T	1,2-dichloroethane	2.053	1.707	16.9	87	0.00
36 T	1,4-difluorobenzene	1.000	1.000	0.0	90	0.00
37 T	1,1,1-trichloroethane	0.818	0.696	14.9	80	0.00
38 T	Cyclohexane	0.414	0.290	30.0	67	0.00
39 T	Carbon tetrachloride	0.978	0.814	16.8	85	0.00
40 T	Benzene	0.978	0.747	23.6	72	0.00
41 T	Methyl methacrylate	0.200	0.164	18.0	75	0.00
42 T	1,4-dioxane	0.119	0.121	-1.7	100	0.00
43 T	2,2,4-trimethylpentane	1.276	0.875	31.4#	64	0.00
44 T	Heptane	0.411	0.286	30.4#	63	0.00
45 T	Trichloroethene	0.470	0.343	27.0	73	0.00
46 T	1,2-dichloropropane	0.380	0.272	28.4	67	0.00
47 T	Bromodichloromethane	0.844	0.667	21.0	74	0.00
48 T	cis-1,3-dichloropropene	0.411	0.290	29.4	65	0.00
49 T	trans-1,3-dichloropropene	0.321	0.228	29.0	68	0.00
50 T	1,1,2-trichloroethane	0.459	0.334	27.2	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\AL102106.D
 Acq On : 21 Oct 2014 1:59 pm
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
52 T	Toluene	0.693	0.496	28.4	58	0.00
53 T	Methyl Isobutyl Ketone	0.526	0.656	-24.7	105	0.00
54 T	Dibromochloromethane	0.947	0.758	20.0	68	0.00
55 T	Methyl Butyl Ketone	0.363	0.815	-124.5#	194#	0.00
56 T	1,2 dibromoethane	0.693	0.526	24.1	63	0.00
57 T	Tetrachloroethylene	0.610	0.452	25.9	63	0.00
58 T	Chlorobenzene	1.007	0.711	29.4	58	0.00
59 T	1,1,1,2-tetrachloroethane	0.682	0.640	6.2	78	0.00
60 T	Ethylbenzene	1.457	0.941	35.4#	51	0.00
61 T	m&p-xylene	1.149	0.803	30.1#	53	0.00
62 T	Nonane	0.663	0.475	28.4	56	0.00
63 T	Styrene	0.795	0.571	28.2	56	0.00
64 T	Bromoform	0.923	0.729	21.0	66	0.00
65 T	o-xylene	1.472	1.204	18.2	66	0.00
66 T	Cumene	1.466	0.919	37.3#	49#	0.00
67 S	Bromofluorobenzene	0.708	0.697	1.6	76	0.00
68 T	1,1,2,2-tetrachloroethane	1.152	0.923	19.9	65	0.00
69 T	Propylbenzene	1.534	1.086	29.2	56	0.00
70 T	2 Chlorotoluene	1.544	1.082	29.9	58	0.00
71 T	4-ethyltoluene	1.387	1.019	26.5	56	0.00
72 T	1,3,5-trimethylbenzene	1.663	1.288	22.5	58	0.00
73 T	1,2,4-trimethylbenzene	1.198	0.732	38.9#	48#	0.00
74 T	1,3-dichlorobenzene	0.894	0.661	26.1	57	0.00
75 T	benzyl chloride	0.454	0.471	-3.7	78	0.00
76 T	1,4-dichlorobenzene	0.837	0.616	26.4	58	0.00
77 T	1,2,3-trimethylbenzene	1.134	0.840	25.9	59	0.00
78 T	1,2-dichlorobenzene	0.915	0.734	19.8	60	0.00
79 T	1,2,4-trichlorobenzene	0.358	0.257	28.2	62	0.00
80 T	Naphthalene	0.611	0.494	19.1	69	0.00
81 T	Hexachloro-1,3-butadiene	1.006	1.000	0.6	82	0.00

Data File : C:\HPCHEM\1\DATA2\AL102106.D
 Acq On : 21 Oct 2014 1:59 pm
 Sample : ALUG_1.0
 Misc : A910_LUG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 14:29:43 2014

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_LUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_LUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : LUG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	35315	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	146040	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	113898	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QTon	Response	Conc	Units	Dev(Min)
67) Bromofluorobenzene	18.66	95	79420	0.99	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds	R.T.	QTon	Response	Conc	Units	Qvalue
2) Freon 22	4.61	51	75784	0.90	ppb	98
3) Propylene	4.61	41	24994m	0.70	ppb	
4) Freon 12	4.67	85	132745	0.77	ppb	99
5) Chloromethane	4.89	50	38834	0.93	ppb	99
6) Freon 114	4.89	85	116989	0.88	ppb	97
7) Vinyl Chloride	5.11	62	32235	0.88	ppb	100
8) Butane	5.22	43	38809	0.94	ppb	90
9) 1,3-butadiene	5.22	39	29918	1.01	ppb	82
10) Bromomethane	5.61	94	37778	0.88	ppb	91
11) Chloroethane	5.79	64	15191	0.96	ppb	88
12) Ethanol	5.94	45	12104	1.45	ppb	92
13) Acrolein	6.57	56	6731	1.03	ppb	98
14) Vinyl Bromide	6.15	106	35988	0.89	ppb	94
15) Freon 11	6.43	101	151199	0.92	ppb	100
16) Acetone	6.68	58	11812m	1.01	ppb	
17) Pentane	6.72	42	30482	1.02	ppb	93
18) Isopropyl alcohol	6.79	45	45416	1.13	ppb	# 100
19) 1,1-dichloroethene	7.23	96	35194	0.83	ppb	# 83
20) Freon 113	7.43	101	99943	0.92	ppb	99
21) t-Butyl alcohol	7.56	59	57690	1.06	ppb	# 79
22) Methylene chloride	7.73	84	31358	1.03	ppb	91
23) Allyl chloride	7.70	41	26536	1.14	ppb	87
24) Carbon disulfide	7.90	76	90851	0.81	ppb	100
25) trans-1,2-dichloroethene	8.69	61	41484	0.75	ppb	98
26) methyl tert-butyl ether	8.73	73	76790	0.70	ppb	68
27) 1,1-dichloroethane	9.13	63	75577	0.75	ppb	99
28) Vinyl acetate	9.13	43	41961	0.73	ppb	98
29) Methyl Ethyl Ketone	9.66	72	13931	0.85	ppb	4 1
30) cis-1,2-dichloroethene	10.07	61	40428	0.71	ppb	89
31) Hexane	9.64	57	48009m	0.71	ppb	
32) Ethyl acetate	10.25	43	59846	0.96	ppb	96
33) Chloroform	10.69	83	99173	0.75	ppb	99
34) Tetrahydrofuran	10.90	42	27192	0.85	ppb	97
35) 1,2-dichloroethane	11.79	62	60300	0.83	ppb	98
37) 1,1,1-trichloroethane	11.49	97	101696	0.85	ppb	98
38) Cyclohexane	12.15	56	42382m	0.70	ppb	
39) Carbon tetrachloride	12.10	117	118916	0.83	ppb	98
40) Benzene	12.08	78	109046	0.76	ppb	91
41) Methyl methacrylate	13.53	41	23981	0.82	ppb	96
42) 1,4-dioxane	13.63	88	17736	1.02	ppb	95
43) 2,2,4-trimethylpentane	12.85	57	127790m	0.69	ppb	
44) Heptane	13.17	43	41776	0.70	ppb	97
45) Trichloroethene	13.32	130	50054m	0.73	ppb	

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA2\AL102106.D
 Acq On : 21 Oct 2014 1:59 pm
 Sample : A1UG_1.0
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 14:29:43 2014

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc	Unit	Qvalue
46) 1,2-dichloropropane	13.43	63	39725	0.72	ppb	98
47) Bromodichloromethane	13.74	83	97456	0.79	ppb	97
48) cis-1,3-dichloropropene	14.49	75	42395	0.71	ppb	97
49) trans-1,3-dichloropropene	15.19	75	33235	0.71	ppb	94
50) 1,1,2-trichloroethane	15.50	97	48768	0.73	ppb	97
52) Toluene	15.26	92	56474m	0.72	ppb	
53) Methyl Isobutyl Ketone	14.42	43	74765	1.25	ppb	91
54) Dibromochloromethane	16.16	129	86343m	0.80	ppb	
55) Methyl Butyl Ketone	15.66	43	92808	2.24	ppb	94
56) 1,2-dibromoethane	16.41	107	59883	0.76	ppb	98
57) Tetrachloroethylene	16.23	164	51498	0.74	ppb	98
58) Chlorobenzene	17.17	112	81029	0.71	ppb	97
59) 1,1,1,2-tetrachloroethane	17.26	131	72898	0.94	ppb	97
60) Ethylbenzene	17.40	91	107198	0.65	ppb	99
61) m,p-xylene	17.58	91	182935	1.40	ppb	97
62) Nonane	17.91	43	54143	0.72	ppb	91
63) Styrene	18.00	104	65078	0.72	ppb	90
64) Bromoform	18.13	173	83043	0.79	ppb	100
65) o-xylene	18.03	91	137167	0.82	ppb	90
66) Cumene	18.56	105	104721	0.63	ppb	# 97
68) 1,1,2,2-tetrachloroethane	18.46	83	105124	0.80	ppb	99
69) Propylbenzene	19.07	91	123667m	0.71	ppb	
70) 2-Chlorotoluene	19.12	91	123235m	0.70	ppb	
71) 4-ethyltoluene	19.23	105	116056m	0.73	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	146719m	0.77	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	83346	0.61	ppb	96
74) 1,3-dichlorobenzene	20.02	146	75290	0.74	ppb	99
75) benzyl chloride	20.09	91	53675	1.04	ppb	100
76) 1,4-dichlorobenzene	20.15	146	70199	0.74	ppb	97
77) 1,2,3-trimethylbenzene	20.18	105	95655	0.74	ppb	99
78) 1,2-dichlorobenzene	20.46	146	83560	0.80	ppb	98
79) 1,2,4-trichlorobenzene	22.27	180	29304	0.72	ppb	100
80) Naphthalene	22.46	128	56251	0.81	ppb	95
81) Hexachloro-1,3-butadiene	22.55	225	113909	0.99	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL102106.D A910_1UG.M Mon Nov 17 15:08:40 2014 MSD1

GC/MS VOLATILES-WHOLE AIR

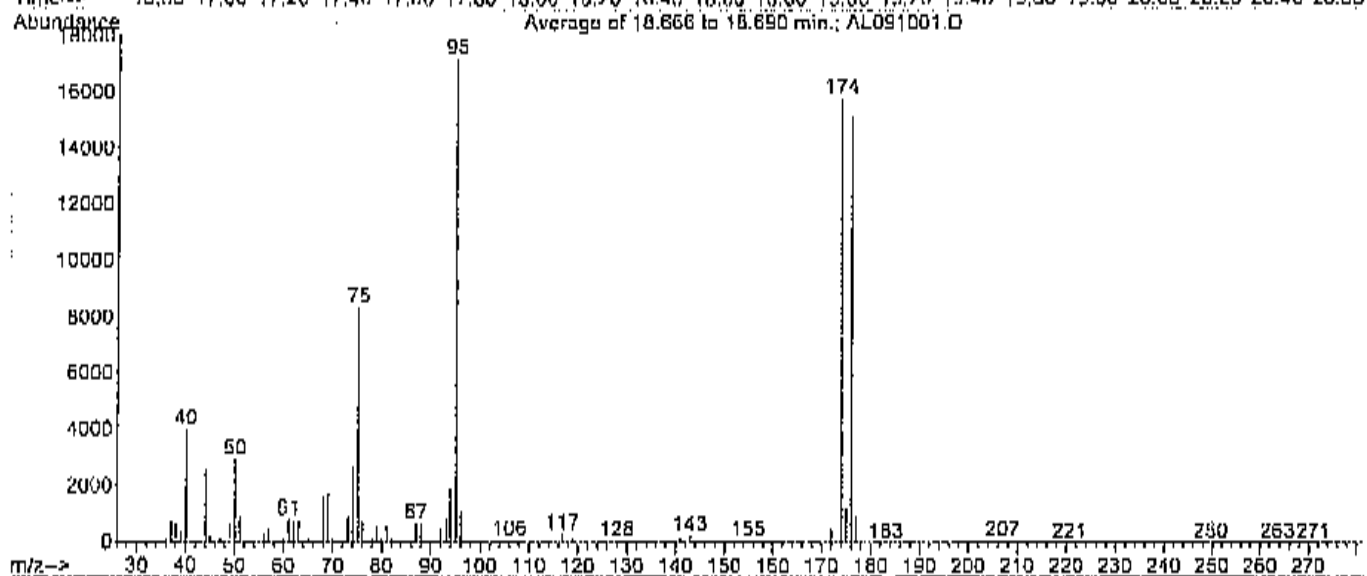
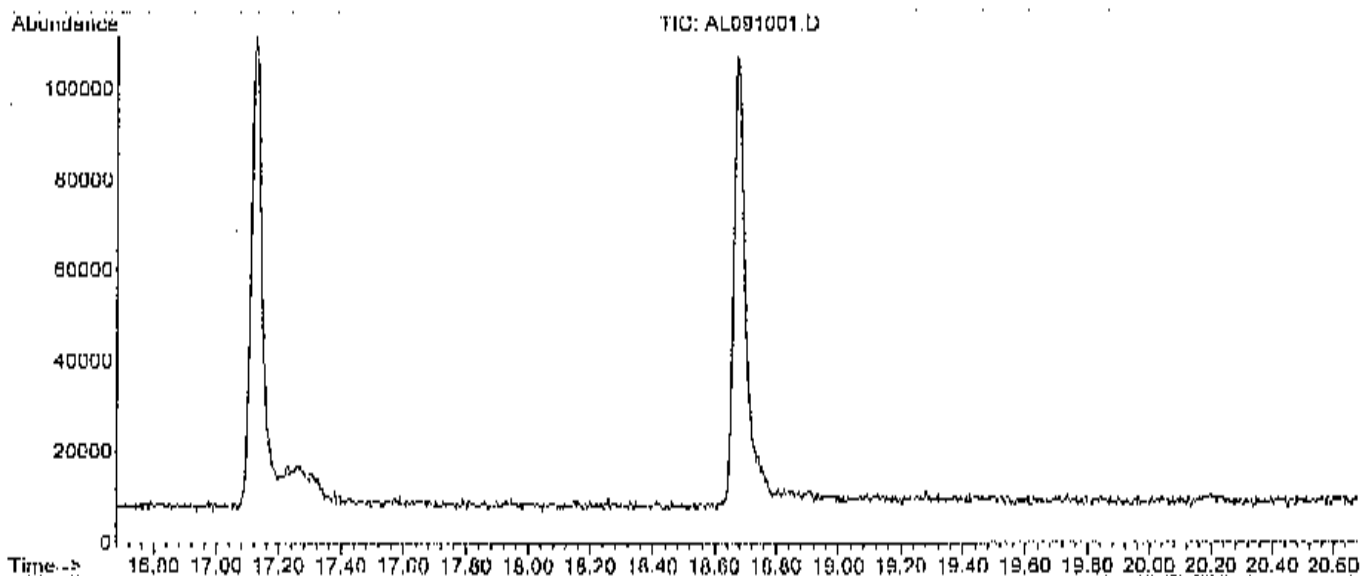
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AL091001.D
 Acq On : 10 Sep 2014 9:43 pm
 Sample : BFB1UG
 Misc :
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration

Vial: 21
 Operator: RJP
 Inst: MSD #1
 Multiplr: 1.00



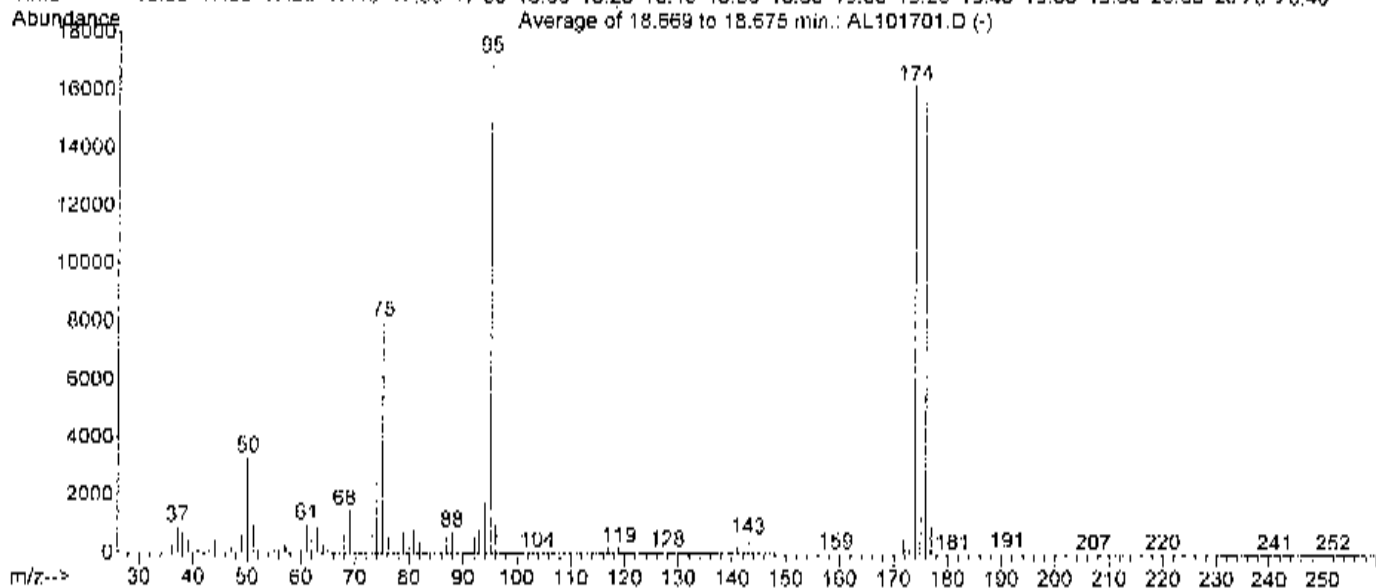
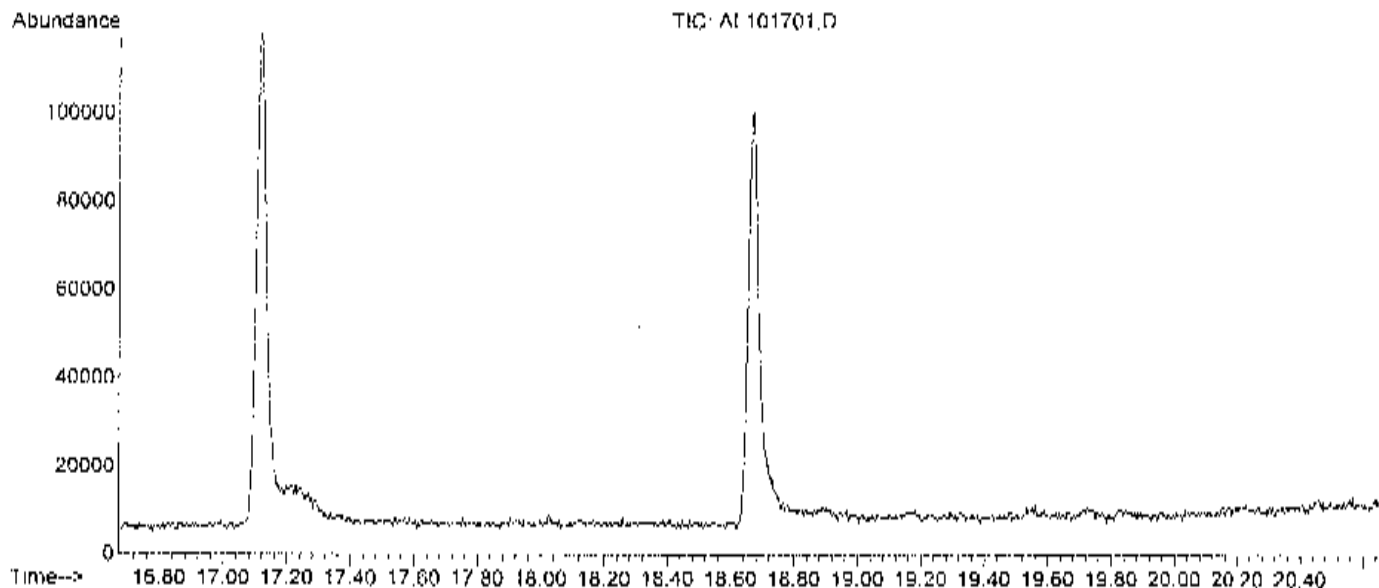
Spectrum Information: Average of 18.666 to 18.690 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	2921	PASS
75	95	30	66	48.4	8323	PASS
95	95	100	100	100.0	17199	PASS
96	95	5	9	6.4	1099	PASS
173	174	0.00	2	0.3	47	PASS
174	95	50	120	91.9	15804	PASS
175	174	4	9	7.8	1225	PASS
176	174	95	101	95.9	15151	PASS
177	176	5	9	6.3	947	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AL101701.D
 Acq On : 17 Oct 2014 10:57 am
 Sample : BFB1UG
 Misc : A910_IUC
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
 Operator: RJP
 Test: MSD #1
 Multiplr: 1.00



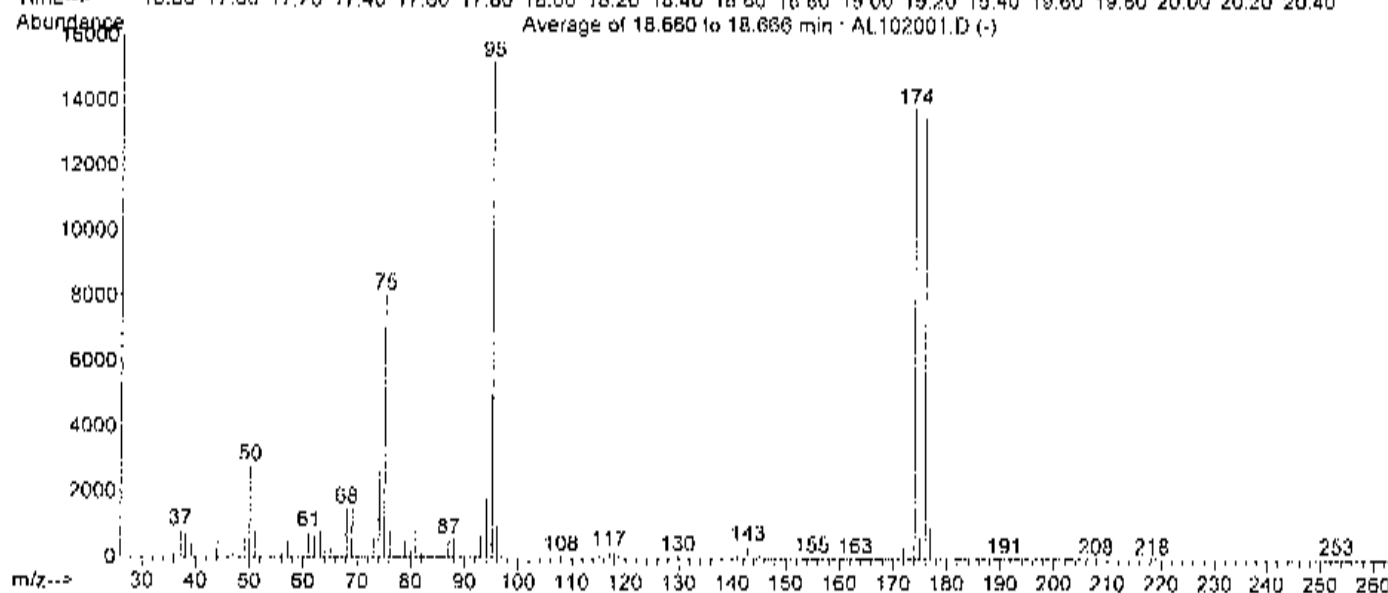
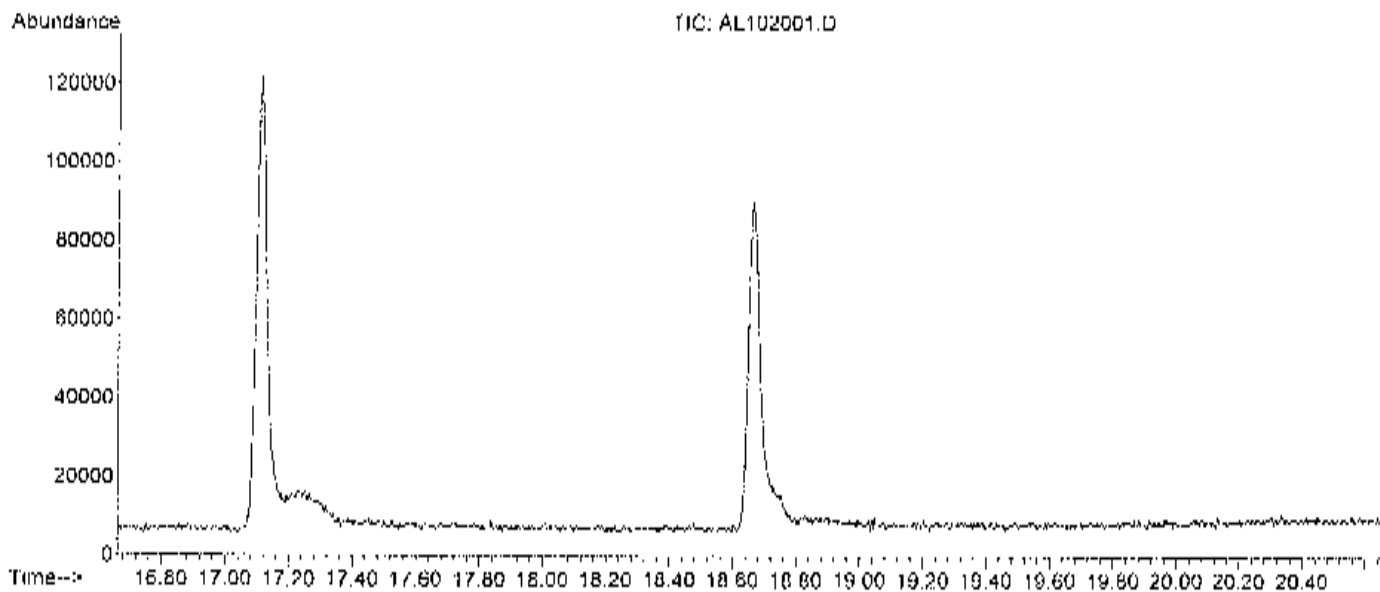
Spectrum Information: Average of 18.669 to 18.675 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	3293	PASS
75	95	30	66	46.8	8026	PASS
95	95	100	100	100.0	17160	PASS
96	95	5	9	6.1	1042	PASS
173	174	0.00	2	1.4	226	PASS
174	95	50	120	94.7	16245	PASS
175	174	4	9	8.0	1307	PASS
176	174	95	101	99.2	16123	PASS
177	176	5	9	6.4	1030	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AL102001.D
 Acq On : 20 Oct 2014 7:06 am
 Sample : BFB1UG
 Misc : A910 1UG
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

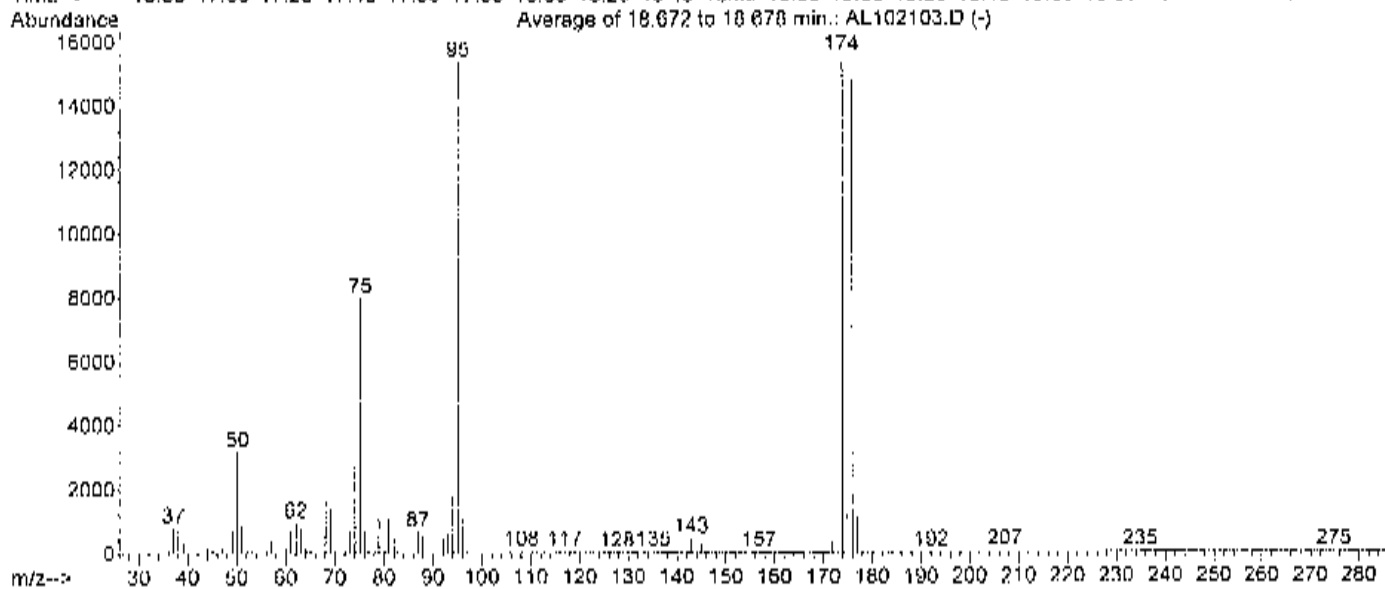
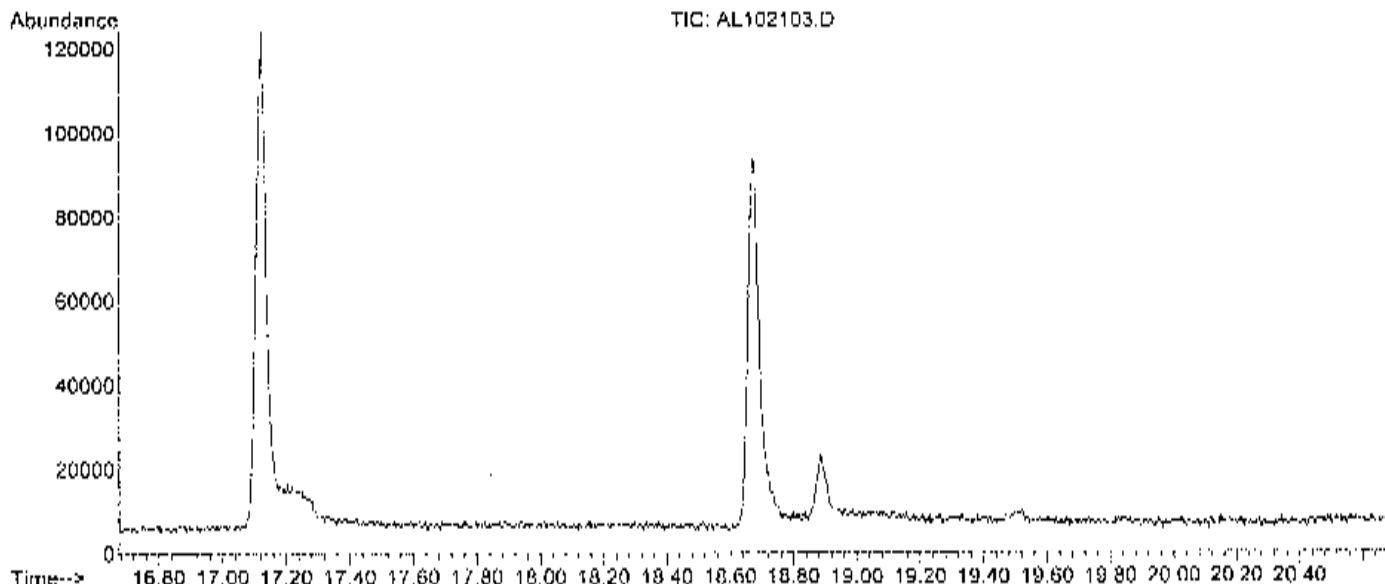


Spectrum Information: Average of 18.660 to 18.666 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	2812	PASS
75	95	30	66	52.9	8069	PASS
95	95	100	100	100.0	15241	PASS
96	95	5	9	6.5	997	PASS
173	174	0.00	2	0.7	92	PASS
174	95	50	120	90.8	13842	PASS
175	174	4	9	4.8	668	PASS
176	174	95	101	97.8	13536	PASS
177	176	5	9	7.2	971	PASS

RJR

Data File : C:\HPCHEM\1\DATA2\AL102103.D Vial: 3
 Acq On : 21 Oct 2014 11:43 am Operator: RJR
 Sample : BFE1UG Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.672 to 18.678 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.6	3173	PASS
75	95	30	66	52.0	7996	PASS
95	95	100	100	100.0	15373	PASS
96	95	5	9	7.2	1113	PASS
173	174	0.00	2	1.2	186	PASS
174	95	50	120	101.0	15530	PASS
175	174	4	9	7.9	1222	PASS
176	174	95	101	95.4	14818	PASS
177	176	5	9	7.6	1131	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Date: 31-Oct-14

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY
TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-101714	Sample Type: MBLK	TestCode: 0.25CT-TCE	Units: ppbv	Prep Date:	Run No: 8946						
Client ID: ZZZZZ	Batch ID: R8946	TestNo: TO-15		Analysis Date: 10/17/2014	Seq No: 106372						
Analyte	Result	PQL	SPK value	SPK Ref Va.	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromobenzene	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromochloromethane	< 0.15	0.15									
Bromobenzene	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:
 J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 KD Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410037
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-101714 Batch ID: R8946 TestCode: 0.25CT-TCE- Units: ppbv Prep Date: RunNo: 8946
 Client ID: ZZZZ TestNo: TO-15 Analysis Date: 10/17/2014 SeqNo: 106372

Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethane	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded
 S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-f01714	Sample Type	MBLK	TestCode	0.25CT-TCE-	Units	ppbV	Prep Date:		RunNo:	8946		
Client ID	ZZZZZ	Batch ID	R8946	TestNo:	TO-15			Analysis Date:	10/17/2014	SeqNo:	106372		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLim	RPD Ref Val	%RPD	RPD.Lim?	Qual

Toluene	< 0.15	0.15											
trans-1,2-Dichloroethene	< 0.15	0.15											
trans-1,3-Dichloropropene	< 0.15	0.15											
Trichloroethene	< 0.040	0.040											
Vinyl acetate	< 0.15	0.15											
Vinyl Bromide	< 0.15	0.15											
Vinyl chloride	< 0.040	0.040											

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 1ugMJ_TO15

Sample ID: AMB1UG-102014 Batch ID: R8960 Prep Date: Run#: 8964
 Client ID: ZZZZ TestCode: 1ugM3_TO15 Units: ppbV Analysis Date: 10/20/2014 Seq#: 106727
 TestNo: TO-15

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromobenzene	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromochloromethane	< 0.15	0.15									
Bromoforn	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									

Qualifiers:
 J Results reported are not blank corrected
 K Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at Use Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: Site 40 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID: ZZZZZ	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: B96B					
Client ID: ZZZZZ	TestNo: TO-15	SPK RefVal	Analysis Date: 10/20/2014	SeqNo: 106727					
Analyte	PGC	SPK value	%REC	LowLimit	HighLim:	RPD Ref Va:	%RPD	RPDLimit	Qual

cs-1,2-Dichloroethene		<0.15							
cs-1,3-Dichloropropene		<0.15							
Cyclohexane		<0.15							
Dibromochloromethane		<0.15							
Ethyl acetate		<0.25							
Ethylbenzene		<0.15							
Freon 11		<0.15							
Freon 113		<0.15							
Freon 114		<0.15							
Freon 12		<0.15							
Heptane		<0.15							
Hexachloro-1,3-butadiene		<0.15							
Hexane		<0.15							
Isopropyl alcohol		<0.15							
m,p-Xylene		<0.30							
Methyl Butyl Ketone		<0.30							
Methyl Ethyl Ketone		<0.30							
Methyl isobutyl ketone		<0.30							
Methyl tert-butyl ether		<0.15							
Methylene chloride		<0.15							
o-Xylene		<0.15							
Propylene		<0.15							
Styrene		<0.15							
Tetrachloroethylene		<0.15							
Tetrahydrofuran		<0.15							
Toluene		<0.15							
trans-1,2-Dichloroethene		<0.15							
trans-1,3-Dichloropropene		<0.15							
Trichloroethene		<0.15							
Vinyl acetate		<0.15							
Vinyl Bromide		<0.15							

Qualifiers:
 J Results reported are not blank corrected
 K Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 E Holding times for preparation or analysis exceeded

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-102014	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 8960						
Client ID: ZZZZ	Batch ID: R8960	TestNo: TO-15		Analysis Date: 10/20/2014	SeqNo: 106737						
Analyte	Result	PCL	SPK value	SPK RetVal	%REC	LowLimit	HighLimit	RPD RetVal	%RPD	RPDLimit	Qual
Vinyl chloride	< 0.15		0.15								

Sample ID: AMB1UG-102114	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 8968						
Client ID: ZZZZ	Batch ID: R8968	TestNo: TO-15		Analysis Date: 10/23/2014	SeqNo: 106738						
Analyte	Result	PCL	SPK value	SPK RetVal	%REC	LowLimit	HighLimit	RPD RetVal	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15		0.15								
1,1,2,2-Tetrachloroethane	< 0.15		0.15								
1,1,2-Trichloroethane	< 0.15		0.15								
1,1-Dichloroethane	< 0.15		0.15								
1,1-Dichloroethene	< 0.15		0.15								
1,2,4-Trichlorobenzene	< 0.15		0.15								
1,2,4-Trimethylbenzene	< 0.15		0.15								
1,2-Dibromoethane	< 0.15		0.15								
1,2-Dichlorobenzene	< 0.15		0.15								
1,2-Dichloroethane	< 0.15		0.15								
1,2-Dichloropropane	< 0.15		0.15								
1,3,5-Trimethylbenzene	< 0.15		0.15								
1,3-butadiene	< 0.15		0.15								
1,3-Dichlorobenzene	< 0.15		0.15								
1,4-Dichlorobenzene	< 0.15		0.15								
1,4-Dioxane	< 0.30		0.30								
2,2,4-Trimethylpentane	< 0.15		0.15								
4-ethyltoluene	< 0.15		0.15								
Acetone	< 0.30		0.30								
Allyl chloride	< 0.15		0.15								
Benzene	< 0.15		0.15								
Benzyl chloride	< 0.15		0.15								
Bromochloromethane	< 0.15		0.15								
Bromoform	< 0.15		0.15								

Qualifier:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spikes Recovery outside accepted recovery limits				

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-102114 Sample Type: MBLK Batch ID: R8968 TestCode: 1ugM3_TO15 Units: ppbv Prep Date: RunNo: 8968
 Client ID: ZZZZ Analysis Date: 10/21/2014 SeqNo: 106738

Analyte	Result	PCU	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomel name	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethane	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m,p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									

Qualifiers: Results reported are not blank corrected E Value above quantitation range 31 Holding times for preparation or analysis exceeded
 J Analytic detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102114	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 8968					
Client ID: ZZZZZ	Batch ID: R8968	Batch ID: R8968	TestNo: TO-15		Analysis Date: 10/21/2014	SeqNo: 106738					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

- J Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- MD Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

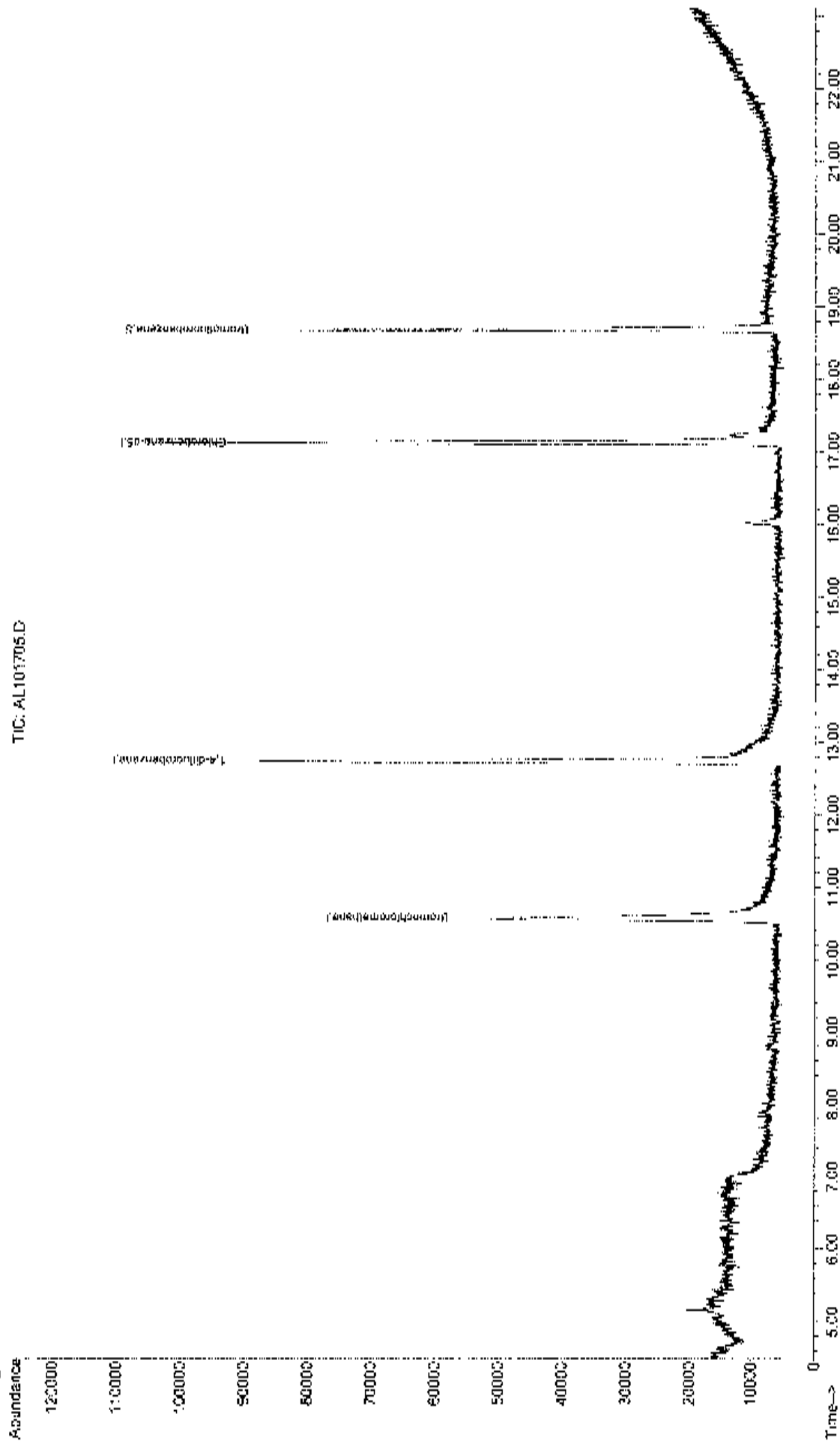
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Acq On : 17 Oct 2014 1:29 PM
Sample : A910UG-101714
Misc : A910 UG
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:53 2014

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A910_UG.RES

Method : C:\HPCHEM\1\METHODS\A910_UG.M (ATE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration

TIC: AL101705.D



Data File : C:\HPCHEM\1\DATA\AL102005.D Vial: 6
 Acq On : 20 Oct 2014 12:05 pm Operator: RJP
 Sample : AMB1UG-102014 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant. Time: Oct 20 15:50:21 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	31940	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.72	114	119669	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	80473	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.67 95 42120m 0.74 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery - 74.00%

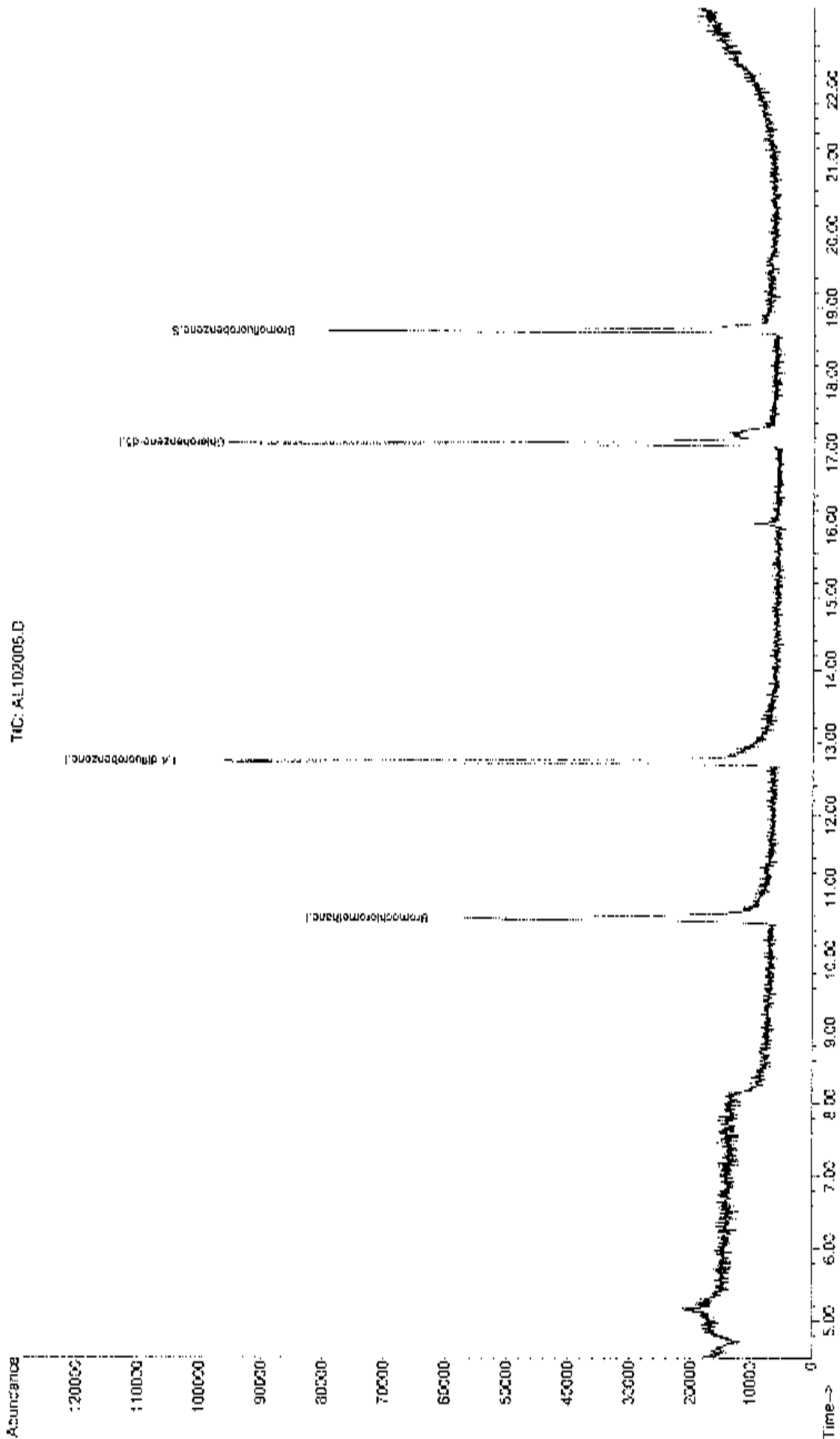
Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA\AL102005.D
Acq On : 20 Oct 2014 12:05 pm
Sample : 8MB10G-102014
Misc : A910_IUG
MS Integration Params: RTEINT.P
Quant Time: Oct 20 16:01 2014

Vial: 6
Operator: REP
Inst : MSD #1
Multiplx: 1.00

Quant Results File: A910_IUG.RES

Method : C:\HPCHEM\1\METHODS\A910_LEG.M (RTS Integrator)
Title : TO-15 VOC Standards for 5 point calibration
Last Update : Fri Oct 31 13:55:31 2014
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AL102111.D Vial: 11
 Acq On : 21 Oct 2014 6:29 pm Operator: RJP
 Sample : AMB1UG-102114 Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 23 09:28:42 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	29710	1.00	ppb	0.01
36) 1,4 difluorobenzene	12.72	114	113022	1.00	ppb	0.00
51) Chlorobenzene d5	17.12	117	74470m <i>f</i>	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 38786m *N* 0.74 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 74.00%

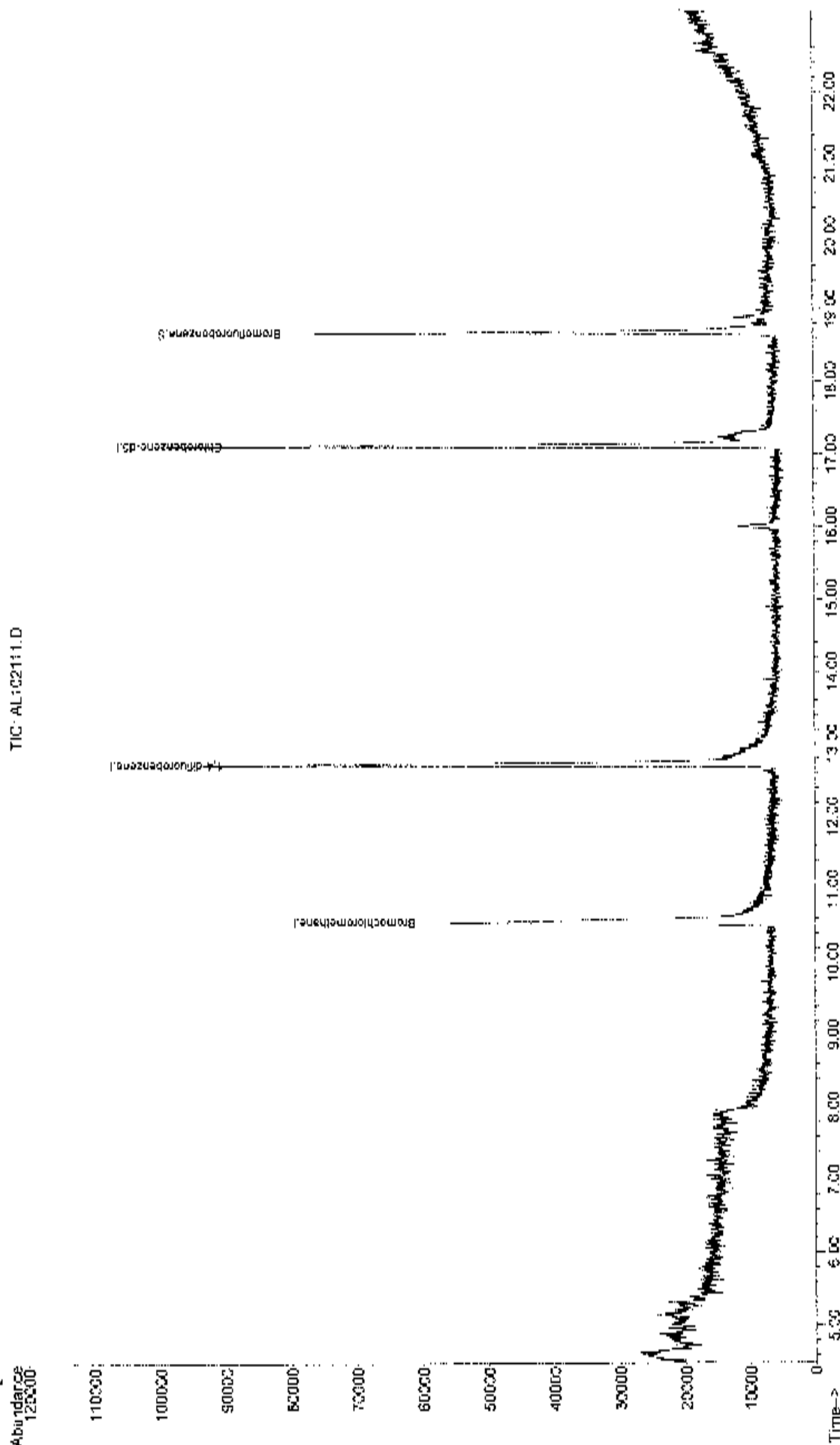
Target Compounds Qvalue

Data File : C:\FPCHEM\1\DATA2\AL102111.D
 Acq On : 21 Oct 2014 6:29 pm
 Sample : A910UG-102114
 Misc : A910_1EG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 27 13:11 2014

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\FPCHEM\1\METHODS\A910_1EG.M (RTS Integrator)
 Title : 10-15 WGA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Initial Calibration



Date: 17-Nov-14

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: WSP Environment and Energy

Work Order: C1410057

Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-101714	Sample Type: LCS	TestCode: 0.25CT-TCE	Units: ppbv	Prep Date:	RJrnNo: 8946
Client ID: ZZZZZ	Batch ID: R8946	TestNo: 70-15		Analysis Date: 10/17/2014	SeqNo: 106373

Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	1.200	0.15	1	0	120	70	130				
1,1,2-Trichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethane	0.9600	0.15	1	0	96.0	70	130				
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130				
1,2,4-Trichlorobenzene	1.080	0.15	1	0	108	70	130				
1,2,4-Trimethylbenzene	1.120	0.15	1	0	112	70	130				
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,2-Dichlorobenzene	1.230	0.15	1	0	123	70	130				
1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
1,2-Dichloropropane	1.040	0.15	1	0	104	70	130				
1,3,5-Trimethylbenzene	1.240	0.15	1	0	124	70	130				
1,3-butadiene	1.180	0.15	1	0	118	70	130				
1,3-Dichlorobenzene	1.240	0.15	1	0	124	70	130				
1,4-Dichlorobenzene	1.260	0.15	1	0	126	70	130				
1,4-Dioxane	1.230	0.30	1	0	123	70	130				
2,2,4-Trimethylpentane	1.110	0.15	1	0	111	70	130				
4-ethyltoluene	1.250	0.15	1	0	125	70	130				
Acetone	1.270	0.30	1	0	127	70	130				
Allyl chloride	1.230	0.15	1	0	123	70	130				
Benzene	1.090	0.15	1	0	109	70	130				S
Benzyl chloride	1.650	0.15	1	0	165	70	130				
Bromodichloromethane	1.180	0.15	1	0	118	70	130				
Bromoform	1.210	0.15	1	0	121	70	130				
Bromomethane	1.170	0.15	1	0	117	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410037
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCSTUG-101714	Sample Type	LCS	TestCode: 0.25CT-TCE-	Units	ppbv	Prep Date	RunNo: 8946
Client ID	ZZZZZ	Batch ID	R8946	TestNo: TO-15			Analysis Date: 10/17/2014	SeqNo: 106373

Analyte	Result	POL	S/PK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.039	0.15	1	0	130	70	130				
Carbon tetrachloride	1.159	0.40	1	0	116	70	130				
Chlorobenzene	1.053	0.15	1	0	126	70	130				
Chloroethane	1.219	0.15	1	0	121	70	130				
Chloroform	0.9700	0.15	1	0	57.0	70	130				
Chloromethane	1.152	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	0.9200	0.15	1	0	52.0	70	130				
cis-1,3-Dichloropropene	1.060	0.15	1	0	108	70	130				
Cyclohexane	1.060	0.15	1	0	106	70	130				
Dibromochloromethane	1.060	0.15	1	0	105	70	130				
Ethyl acetate	1.259	0.25	1	0	123	70	130				
Ethylbenzene	0.9800	0.15	1	0	58.0	70	130				
Freon 11	1.160	0.15	1	0	115	70	130				
Freon 113	1.130	0.15	1	0	113	70	130				
Freon 114	0.9900	0.15	1	0	99.0	70	130				
Freon 12	0.9700	0.15	1	0	97.0	70	130				
Heptane	1.140	0.15	1	0	114	70	130				
Hexachloro-1,3-butadiene	1.230	0.15	1	0	123	70	150				
Hexane	0.9200	0.15	1	0	92.0	70	130				
Isopropyl alcohol	1.260	0.15	1	0	126	70	130				
m,p-Xylene	2.360	0.30	2	0	118	70	130				
Methyl Butyl Ketone	1.580	0.30	1	0	158	70	130				
Methyl Ethyl Ketone	1.260	0.30	1	0	126	70	130				
Methyl Isobutyl Ketone	1.250	0.30	1	0	125	70	130				
Veihyl tert-butyl ether	0.9200	0.15	1	0	92.0	70	130				
Methylene chloride	1.170	0.15	1	0	117	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.9400	0.15	1	0	94.0	70	130				
Styrene	1.160	0.15	1	0	116	70	130				
Tetrachloroethylene	1.040	0.15	1	0	104	70	130				
Tetrahydrofuran	1.240	0.15	1	0	124	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantization limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantization range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS10G-101714	Sample Type: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date	RunNo: 8946					
Client ID	ZZZZZ	Batch ID: R8946	TestNo: TO-F5		Analysis Date: 10/17/2014	SeqNo: 806373					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.040	0.15	1	0	154	70	130				
trans-1,2-Dichloroethene	1.033	0.15	1	0	133	70	130				
trans-1,3-Dichloropropene	1.050	0.15	1	0	156	70	130				
Trichloroethene	0.9600	0.040	1	0	96.0	70	130				
Vinyl acetate	1.019	0.15	1	0	101	70	130				
Vinyl Bromide	1.050	0.15	1	0	105	70	130				
Vinyl chloride	1.050	0.040	1	0	105	70	130				
Surr: Bromofluorobenzene	1.050	0	1	0	105	70	130				

Qualifiers: J Results repaired and not blank corrected
 S Analyte detected at or below quantitation limits
 F Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102614	Sample Type	LCS	Batch ID	R8960	TestCode	1ugM3_TO15	Units	ppbv	Pres Date	RunNo	8960
Client ID	ZZZZ					TestNo	TO-15			Analysis Date	SeqNo	106728

Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.230	0.15	0	0	123	70	130				
1,1,2,2-Tetrachloroethane	1.200	0.15	0	0	120	70	130				
1,1,2-Trichloroethane	1.200	0.15	0	0	120	70	130				
1,1-Dichloroethane	1.090	0.15	0	0	109	70	130				
1,1-Dichloroethene	1.180	0.15	0	0	118	70	130				
1,2,4-Trichlorobenzene	0.5800	0.15	0	0	98.0	70	130				
1,2,4-Trimethylbenzene	1.100	0.15	0	0	110	70	130				
1,2-Dibromoethane	1.060	0.15	0	0	106	70	130				
1,2-Dichlorobenzene	1.220	0.15	0	0	122	70	130				
1,2-Dichloroethane	1.240	0.15	0	0	124	70	130				
1,2-Dichloroethene	1.230	0.15	0	0	123	70	130				
1,3,5-Trimethylbenzene	1.220	0.15	0	0	122	70	130				
1,3-butadiene	1.220	0.15	0	0	122	70	130				
1,3-Dichlorobenzene	1.220	0.15	0	0	122	70	130				
1,4-Dichlorobenzene	1.260	0.15	0	0	126	70	130				
1,4-Dioxane	0.2300	0.30	0	0	23.0	70	130				JS
2,2,4-trimethylpentane	1.260	0.15	0	0	126	70	130				
4-ethyltoluene	1.270	0.15	0	0	127	70	130				
Acetone	1.270	0.30	0	0	127	70	130				
Allyl chloride	1.050	0.15	0	0	105	70	130				
Benzene	1.250	0.15	0	0	125	70	130				
Benzyl chloride	1.820	0.15	0	0	182	70	130				S
Bromodichloromethane	1.250	0.15	0	0	125	70	130				
Bromoforn	1.230	0.15	0	0	123	70	130				
Bromomethane	1.260	0.15	0	0	126	70	130				
Carbon disulfide	0.9700	0.15	0	0	97.0	70	130				
Carbon tetrachloride	1.220	0.15	0	0	122	70	130				
Chlorobenzene	1.080	0.15	0	0	108	70	130				
Chloroethane	1.280	0.15	0	0	128	70	130				
Chloroform	1.120	0.15	0	0	112	70	130				
Chloromethane	1.250	0.15	0	0	125	70	130				

Qualifiers: J Result reported as not blank corrected
 S Analyte detected at or below quantitation limits
 E Spike Recovery outside accepted recovery limits
 ND Value above quantitation range
 MD Not Detected at the Reporting Limit
 E Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: S140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102014	Sample Type	LCS	Test Code	1ugM3_TO15	Units	ppbv	Prep Date	10/20/2014	Run No.	8960
Client ID	ZZZZ	Batch ID	R8960	Test Name	TO-15			Analysis Date	10/20/2014	Seq No.	106728
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Lim	Qual

cis-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
cis-1,3-Dichloropropene	1.160	0.15	1	0	116	70	130				
Cyclohexane	1.230	0.15	1	0	123	70	130				
Dibromochloromethane	1.150	0.15	1	0	115	70	130				
Ethyl acetate	1.180	0.25	1	0	118	70	130				
Ethylbenzene	1.100	0.15	1	0	110	70	130				
Freon 11	1.260	0.15	1	0	126	70	130				
Freon 113	1.250	0.15	1	0	125	70	130				
Freon 114	1.100	0.15	1	0	110	70	130				
Freon 12	1.110	0.15	1	0	111	70	130				
Heptane	1.220	0.15	1	0	122	70	130				
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130				
Hexane	1.070	0.15	1	0	107	70	130				
Isopropyl alcohol	1.050	0.15	1	0	105	70	130				S
m,p-Xylene	2.630	0.30	2	0	132	70	130				S
Methyl Butyl Ketone	0.5000	0.30	1	0	50.0	70	130				S
Methyl Ethyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl isobutyl ketone	0.3300	0.30	1	0	33.0	70	130				
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130				
Methylene chloride	1.160	0.15	1	0	116	70	130				
o-Xylene	1.170	0.15	1	0	117	70	130				
Propylene	1.020	0.15	1	0	102	70	130				
Styrene	1.130	0.15	1	0	113	70	130				
Tetrachloroethylene	1.120	0.15	1	0	112	70	130				
Tetrahydrofuran	1.270	0.15	1	0	127	70	130				
Toluene	1.170	0.15	1	0	117	70	130				
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
trans-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130				
Trichloroethene	1.150	0.15	1	0	115	70	130				
Vinyl acetate	1.170	0.15	1	0	117	70	130				
Vinyl Bromide	1.220	0.15	1	0	122	70	130				

Qualifiers:
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C3410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102014	Sample Type:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	B960
Client ID:	ZZZZ	Batch ID:	R8960	TestNo:	TO-15			Analysis Date:	10/20/2014	SeqNo:	106728
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl chloride	1.180	0.15	1	0	118	70	130				
Surr: Bromochlorobenzene	0.9620	0	1	0	96.0	70	130				

Sample ID	ALCS1UG-102114	Sample Type:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	B968
Client ID:	ZZZZ	Batch ID:	R8968	TestNo:	TO-15			Analysis Date:	10/21/2014	SeqNo:	107658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130				
1,1,2,2-Tetrachloroethane	1.250	0.15	1	0	125	70	130				
1,1,2-Trichloroethane	1.110	0.15	1	0	111	70	130				
1,1-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,1-Dichloroethane	1.210	0.15	1	0	121	70	130				
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	70	130				
1,2,4-Trimethylbenzene	1.160	0.15	1	0	116	70	130				
1,2-Dibromoethane	1.150	0.15	1	0	115	70	130				
1,2-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.090	0.15	1	0	109	70	130				
1,3,5-Trimethylbenzene	1.280	0.15	1	0	128	70	130				
1,3-butadiene	1.280	0.15	1	0	128	70	130				
1,3-Dichlorobenzene	1.230	0.15	1	0	123	70	130				
1,4-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,4-Dioxane	1.950	0.30	1	0	195	70	130				
2,2,4-trimethylpentane	1.150	0.15	1	0	115	70	130				S
4-ethyltoluene	1.270	0.15	1	0	127	70	130				
Acetone	1.240	0.30	1	0	124	70	130				
Allyl chloride	1.120	0.15	1	0	112	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	2.030	0.15	1	0	203	70	130				S
Bromodichloromethane	1.230	0.15	1	0	123	70	130				

Qualifiers:
 J Results reported are not blank corrected
 S Analyte detected at or below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102114	Sample Type	LCS	TestCode	1ugM3_TO15	Units	ppbV	Prep Date:	RunNo:	8968
Client ID	ZZZZ	Batch ID	R8968	TestNo:	TO-15			Analysis Date:	SeqNo:	107658

Analyte	Result	PCL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Bromoform	1.220	0.15	1	0	122	70	130				
Bromomethane	1.230	0.15	1	0	123	70	130				
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130				
Carbon tetrachloride	1.250	0.15	1	0	125	70	130				
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.200	0.15	1	0	120	70	130				
Chloroform	1.050	0.15	1	0	105	70	130				
Chloromethane	1.230	0.15	1	0	123	70	130				
cis-1,2-Dichloroethane	1.030	0.15	1	0	103	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	1.110	0.15	1	0	111	75	130				
Dibromochloromethane	1.200	0.15	1	0	120	70	130				
Ethyl acetate	1.270	0.25	1	0	127	70	130				
Ethylbenzene	1.040	0.15	1	0	104	70	130				
Freon 11	1.220	0.15	1	0	122	70	130				
Freon 113	1.220	0.15	1	0	122	70	130				
Freon 114	1.050	0.15	1	0	105	70	130				
Freon 12	1.050	0.15	1	0	105	70	130				
Heptane	1.170	0.15	1	0	117	70	130				
Hexachloro-1,3-butadiene	1.750	0.15	1	0	175	70	130				S
Hexane	0.9900	0.15	1	0	99.0	70	130				
Isopropyl alcohol	1.250	0.15	1	0	125	70	130				
m&p-Xylene	2.430	0.30	2	0	122	70	130				
Methyl Ethyl Ketone	4.310	0.30	1	0	431	70	130				S
Methyl Ethyl Ketone	1.010	0.30	1	0	101	70	130				
Methyl Isobutyl Ketone	2.220	0.30	1	0	222	70	130				S
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130				
Methylene chloride	1.240	0.15	1	0	124	70	130				
o-Xylene	1.210	0.15	1	0	121	70	130				
Propylene	0.9300	0.15	1	0	99.0	70	130				
Styrene	1.210	0.15	1	0	121	70	130				

Qualifiers: J Results reported are not blank corrected
 K Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 I Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102114	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	Run No: 8968					
Client ID:	ZZZZ	Batch ID: R8968	TestNo TO-15		Analysis Date: 10/21/2014	Sec No: 107658					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPC	RPCLimit	Qual
Tetrachloroethylene	1.180	0.15	1	0	118	70	130				
Tetrahydrofuran	1.200	0.15	1	0	120	70	130				
Toluene	1.110	0.15	1	0	111	70	130				
Trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
Trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.090	0.15	1	0	109	70	130				
Vinyl Bromide	1.230	0.15	1	0	123	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				
Sur: Bromofluorobenzene	1.050	0	1	0	105	70	130				

Qualifiers:

- J Results reported are not blank corrected
- K Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AL101707.D
 Acq On : 17 Oct 2014 3:30 pm
 Sample : ALCS1UG-101714
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 21:57:09 2014

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : JUC RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.53	128	41546m	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.71	114	159752	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	135891	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.66	95	101719	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

	R.T.	QTon	Response	Conc	Units	Qvalue
3) Propylene	4.62	41	39205	0.94	ppb	88
4) Freon 12	4.67	85	197715	0.97	ppb	99
5) Chloromethane	4.90	50	56531	1.15	ppb	99
6) Freon 114	4.90	85	154172	0.98	ppb	99
7) Vinyl Chloride	5.11	62	47125	1.09	ppb	100
8) Butane	5.23	43	57470	1.18	ppb	86
9) 1,3-butadiene	5.23	39	41331	1.18	ppb	83
10) Bromomethane	5.61	94	59434	1.17	ppb	90
11) Chloroethane	5.80	64	22576m	1.21	ppb	
12) Ethanol	5.95	45	11090	1.13	ppb	79
13) Acrolein	6.58	56	9335m	1.22	ppb	
14) Vinyl Bromide	6.15	106	50708	1.06	ppb	94
15) Freon 11	6.44	101	224605	1.16	ppb	99
16) Acetone	6.68	58	17476m	1.27	ppb	
17) Pentane	6.73	42	42299m	1.20	ppb	
18) Isopropyl alcohol	6.79	45	59465	1.26	ppb	# 100
19) 1,1 dichloroethane	7.24	96	53586	1.07	ppb	92
20) Freon 113	7.44	101	144391	1.13	ppb	99
21) t-Butyl alcohol	7.57	59	80958	1.27	ppb	# 82
22) Methylene chloride	7.72	84	42017m	1.17	ppb	
23) Allyl chloride	7.70	41	33468m	1.23	ppb	
24) Carbon disulfide	7.89	76	136648	1.03	ppb	100
25) trans 1,2 dichloroethane	8.69	61	64584	1.00	ppb	96
26) methyl tert-butyl ether	8.74	73	118864	0.92	ppb	71
27) 1,1-dichloroethane	9.13	63	113869	0.96	ppb	97
28) Vinyl acetate	9.13	43	68534	1.01	ppb	98
29) Methyl Ethyl Ketone	9.66	72	24432	1.26	ppb	98
30) cis 1,2 dichloroethane	10.07	61	61369	0.92	ppb	92
31) Hexane	9.64	57	73543	0.92	ppb	# 82
32) Ethyl acetate	10.25	43	89980m	1.23	ppb	
33) Chloroform	10.69	83	150639	0.97	ppb	100
34) Tetrahydrofuran	10.90	42	46925	1.24	ppb	98
35) 1,2-dichloroethane	11.78	62	89909	1.05	ppb	98
37) 1,1,1 trichloroethane	11.49	97	152289	1.17	ppb	98
38) Cyclohexane	12.15	56	69843	1.06	ppb	# 81
39) Carbon tetrachloride	12.10	117	180436	1.16	ppb	99
40) Benzene	12.07	78	170514	1.09	ppb	91
41) Methyl methacrylate	13.53	41	47188m	1.48	ppb	
42) 1,4-dioxane	13.63	88	23343m	1.23	ppb	
43) 2,2,4-trimethylpentane	12.85	57	226450	1.11	ppb	89
44) Heptane	13.16	43	75128	1.14	ppb	98
45) Trichloroethane	13.31	130	71985	0.96	ppb	99
46) 1,2-dichloropropane	13.43	63	63088	1.04	ppb	100

(#) - qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AL101707.D
 Acq On : 17 Oct 2014 3:30 pm
 Sample : ALCS1UG-101714
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 17 21:57:09 2014

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Bromodichloromethane	13.74	83	158451	1.18	ppb	100
48) cis-1,3-dichloropropene	14.48	75	70655	1.08	ppb	94
49) trans-1,3-dichloropropene	15.19	75	54232	1.06	ppb	94
50) 1,1,2-trichloroethane	15.49	97	80196	1.09	ppb	97
52) Toluene	15.26	92	97558	1.04	ppb	100
53) Methyl Isobutyl Ketone	14.42	43	89359m	1.25	ppb	
54) Dibromochloromethane	16.17	129	139277m	1.08	ppb	
55) Methyl Butyl Ketone	15.66	43	78113m	1.58	ppb	
56) 1,2-dibromoethane	16.41	107	100371	1.07	ppb	99
57) Tetrachloroethylene	16.23	164	86068	1.04	ppb	99
58) Chlorobenzene	17.16	112	144513	1.06	ppb	96
60) Ethylbenzene	17.39	91	194812	0.98	ppb	99
61) m&p xylene	17.58	91	368778	2.36	ppb	97
62) Nonane	17.91	43	115973	1.29	ppb	94
63) Styrene	18.00	104	124837	1.16	ppb	92
64) Bromoform	18.13	173	152230	1.21	ppb	99
65) o-xylene	18.03	91	232822	1.16	ppb	98
66) Cumene	18.55	105	237269	1.19	ppb	# 98
68) 1,1,2,2-tetrachloroethane	18.45	83	187174	1.20	ppb	99
69) Propylbenzene	19.07	91	255042m	1.22	ppb	
70) 2-Chlorotoluene	19.11	91	247276m	1.18	ppb	
71) 4-ethyltoluene	19.22	105	235273m	1.25	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	279142m	1.24	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	182838	1.12	ppb	99
74) 1,3-dichlorobenzene	20.01	146	150751	1.24	ppb	100
75) benzyl chloride	20.09	91	102098m	1.65	ppb	
76) 1,4-dichlorobenzene	20.15	146	143625	1.26	ppb	98
78) 1,2-dichlorobenzene	20.46	146	153071m	1.23	ppb	
79) 1,2,4-trichlorobenzene	22.26	180	52319m	1.08	ppb	
80) Naphthalene	22.46	128	134562m	1.62	ppb	
81) Hexachloro-1,3-butadiene	22.54	225	168377m	1.23	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AL101707.D A910_1UG.M Fri Oct 31 14:25:58 2014 MSD1

Data File : C:\HPCHEM\1\DATA\AL102004.D
 Acq On : 20 Oct 2014 11:30 am
 Sample : ALC91UC-102014
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 15:50:20 2014

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.53	128	40425m	1.00	ppb	-0.02
36) 1,4-difluorobenzene	12.70	114	149098	1.00	ppb	-0.02
51) Chlorobenzene-d5	17.11	117	129611m	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.66	95	89857	0.98	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds

	R.T.	Qion	Response	Conc	Units	Qvalue
3) Propylene	4.60	41	41710	1.02	ppb	89
4) Freon 12	4.66	85	220107	1.11	ppb	99
5) Chloromethane	4.89	50	59540m	1.25	ppb	
6) Freon 114	4.89	85	167860	1.10	ppb	98
7) Vinyl Chloride	5.10	62	49778	1.18	ppb	97
8) Butane	5.21	43	59850m	1.27	ppb	
9) 1,3-butadiene	5.22	39	41464m	1.22	ppb	
10) Bromomethane	5.60	94	62252m	1.26	ppb	
11) Chloroethane	5.78	64	23154m	1.28	ppb	
12) Ethanol	5.93	45	10640m	1.12	ppb	
13) Acrolein	6.56	56	8919m	1.19	ppb	
14) Vinyl Bromide	6.14	106	56402	1.22	ppb	96
15) Freon 11	6.42	101	238105m	1.26	ppb	
16) Acetone	6.66	58	17026m	1.27	ppb	
17) Pentane	6.71	42	52405	1.53	ppb	85
18) isopropyl alcohol	6.77	45	48673	1.06	ppb	# 100
19) 1,1-dichloroethene	7.23	96	57520	1.18	ppb	# 87
20) Freon 113	7.42	101	156071	1.25	ppb	100
21) t-Butyl alcohol	7.56	59	19731	0.32	ppb	# 58
22) Methylene chloride	7.71	84	41279m	1.18	ppb	
23) Allyl chloride	7.70	41	27854m	1.05	ppb	
24) Carbon disulfide	7.88	76	125039	0.97	ppb	98
25) trans-1,2-dichloroethene	8.68	61	70095	1.11	ppb	98
26) methyl tert butyl ether	8.71	73	126440	1.00	ppb	73
27) 1,1-dichloroethane	9.12	63	125704	1.09	ppb	97
28) Vinyl acetate	9.11	43	77411	1.17	ppb	97
29) Methyl Ethyl Ketone	9.64	72	18891	1.00	ppb	# 1
30) cis-1,2-dichloroethene	10.06	61	68112	1.05	ppb	93
31) Hexane	9.63	57	78322	1.01	ppb	# 77
32) Ethyl acetate	10.23	43	84165m	1.18	ppb	
33) Chloroform	10.69	83	169532	1.12	ppb	100
34) Tetrahydrofuran	10.89	42	46758	1.27	ppb	99
35) 1,2-dichloroethane	11.78	62	103233	1.24	ppb	98
37) 1,1,1-trichloroethane	11.49	97	150239m	1.23	ppb	
38) Cyclohexane	12.14	56	75752	1.23	ppb	# 78
39) Carbon tetrachloride	12.09	117	178062m	1.22	ppb	
40) Benzene	12.07	78	181808m	1.25	ppb	
41) Methyl methacrylate	13.52	41	41523	1.39	ppb	94
42) 1,4-dioxane	13.64	88	4019m	0.23	ppb	
43) 2,2,4-trimethylpentane	12.84	57	239507m	1.26	ppb	
44) Heptane	13.17	43	74856m	1.22	ppb	
45) Trichloroethene	13.31	130	80444	1.15	ppb	99
46) 1,2-dichloropropane	13.42	63	69678	1.23	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AL102004.D
 Acq On : 20 Oct 2014 11:30 am
 Sample : ALCS1UG 102014
 Misc : A910 1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 15:50:20 2014

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910 1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910 1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc	Unit	Qvalue
47) Bromodichloromethane	13.73	83	156737m	1.25	ppb	
48) cis 1,3-dichloropropene	14.48	75	70894	1.16	ppb	95
49) trans-1,3-dichloropropene	15.19	75	60011	1.25	ppb	95
50) 1,1,2-trichloroethane	15.49	97	82187m	1.20	ppb	
52) Toluene	15.25	92	104942	1.17	ppb	98
53) Methyl Isobutyl Ketone	14.42	43	22715m	0.33	ppb	
54) Dibromochloromethane	16.16	129	140814m	1.15	ppb	
55) Methyl Butyl Ketone	15.66	43	23554m	0.50	ppb	
56) 1,2 dibromoethane	16.41	107	95392m	1.06	ppb	
57) Tetrachloroethylene	16.22	164	88194m	1.12	ppb	
58) Chlorobenzene	17.16	112	140682m	1.08	ppb	
60) Ethylbenzene	17.39	91	208512	1.10	ppb	97
61) m&p-xylene	17.58	91	369227m	2.48	ppb	
62) Nonane	17.91	43	121695	1.42	ppb	96
63) Styrene	18.00	104	116328m	1.13	ppb	
64) Bromoform	18.13	173	147183m	1.23	ppb	
65) o-xylene	18.03	91	223049m	1.17	ppb	
66) Cumene	18.55	105	237286	1.25	ppb	98
68) 1,1,2,2-tetrachloroethane	18.45	83	179661m	1.20	ppb	
69) Propylbenzene	19.07	91	212669m	1.07	ppb	
70) 2-Chlorotoluene	19.11	91	243785m	1.22	ppb	
71) 4-ethyltoluene	19.22	105	227912m	1.27	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	263783m	1.22	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	170712	1.10	ppb	97
74) 1,3-dichlorobenzene	20.01	146	141762m	1.22	ppb	
75) benzyl chloride	20.08	91	106975	1.82	ppb	97
76) 1,4-dichlorobenzene	20.14	146	136911m	1.26	ppb	
78) 1,2 dichlorobenzene	20.46	146	144938m	1.22	ppb	
79) 1,2,4-trichlorobenzene	22.27	180	45239	0.98	ppb	99
80) Naphthalene	22.46	128	28227m	0.36	ppb	
81) Hexachloro-1,3-butadiene	22.54	225	153581m	1.18	ppb	

Quantitation Report (QI Reviewed)

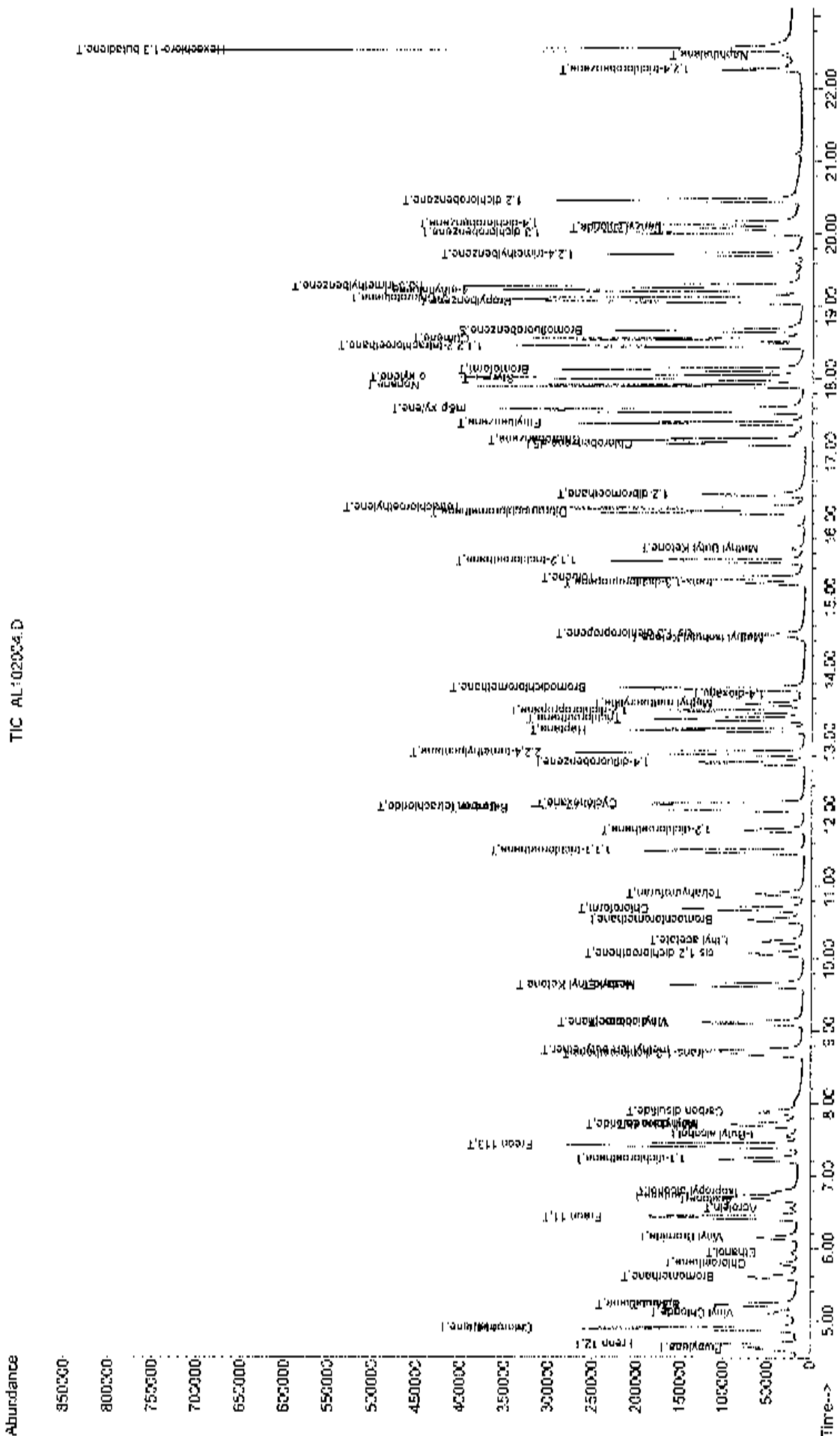
Data File : C:\HPCHEM\1\DATA\ALL102004.D
 Acq On : 20 Oct 2014 11:36 am
 Sample : A1CS1UG-102014
 Misc : A91C_1UG
 MS Integrator Params: RTEINT.F
 Quant Time: Oct 20 21:27 2014

Vial: 5
 Operator: RJF
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.FIS

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : 20-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 13:55:31 2014
 Response via : Initial Calibration

TIC: ALL102004.D



Data File : C:\HPCHEM\1\DATA2\AL102110.D
 Acq On : 21 Oct 2014 5:13 pm
 Sample : ALCS1UG-102114
 Misc : A910 UG

Vial: 10
 Operator: RJP
 Inst : MSD #1
 Multiple: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Oct 21 17:38:14 2014

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Oct 06 11:33:09 2014

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QTon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.54	128	39509m	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.71	114	152889	1.00	ppb	-0.01
51) Chlorobenzene-d5	17.11	117	123865	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.66	95	92130	1.05	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	-	105.00%

Target Compounds

	R.T.	QTon	Response	Conc	Units	Qvalue
3) Propylene	4.61	41	39341	0.99	ppb	86
4) Freon 12	4.66	85	204766	1.06	ppb	99
5) Chloromethane	4.89	50	57239m	1.23	ppb	
6) Freon 114	4.89	85	163456	1.09	ppb	98
7) Vinyl Chloride	5.11	62	48547	1.18	ppb	99
8) Butane	5.22	43	58108m	1.26	ppb	
9) 1,3 butadiene	5.22	39	42559m	1.28	ppb	
10) Bromomethane	5.61	94	59511m	1.23	ppb	
11) Chloroethane	5.79	64	21292m	1.20	ppb	
12) Ethanol	5.95	45	12286	1.32	ppb	86
13) Acrolein	6.55	56	8513m	1.17	ppb	
14) Vinyl Bromide	6.14	106	55650	1.23	ppb	92
15) Freon 11	6.43	101	225428m	1.22	ppb	
16) Acetone	6.67	58	16307m	1.24	ppb	
17) Pentane	6.72	42	47324	1.41	ppb	94
18) Isopropyl alcohol	6.77	45	55428m	1.23	ppb	
19) 1,1-dichloroethane	7.24	96	57221	1.21	ppb	93
20) Freon 113	7.42	101	149061	1.22	ppb	99
21) t-Butyl alcohol	7.54	59	86991	1.43	ppb	# 83
22) Methylene chloride	7.72	84	42479	1.24	ppb	# 85
23) Allyl chloride	7.70	41	29181m	1.12	ppb	
24) Carbon disulfide	7.89	76	121003	0.96	ppb	99
25) trans-1,2-dichloroethane	8.68	61	68531	1.11	ppb	97
26) methyl tert-butyl ether	8.72	73	123125	1.00	ppb	74
27) 1,1-dichloroethane	9.12	63	114697	1.02	ppb	96
28) Vinyl acetate	9.12	43	70449	1.09	ppb	96
29) Methyl Ethyl Ketone	9.65	72	18636m	1.01	ppb	
30) cis-1,2-dichloroethane	10.07	61	65206	1.03	ppb	91
31) Hexane	9.64	57	74761	0.99	ppb	82
32) Ethyl acetate	10.24	43	88289m	1.27	ppb	
33) Chloroform	10.69	83	155699	1.05	ppb	99
34) Tetrahydrofuran	10.90	42	42948m	1.20	ppb	
35) 1,2-dichloroethane	11.79	62	96560	1.19	ppb	100
37) 1,1,1-trichloroethane	11.49	97	158847	1.27	ppb	98
38) Cyclohexane	12.15	56	70309	1.11	ppb	# 80
39) Carbon tetrachloride	12.10	117	187471	1.25	ppb	100
40) Benzene	12.07	78	172783	1.15	ppb	92
41) Methyl methacrylate	13.53	41	50476	1.65	ppb	96
42) 1,4-dioxane	13.62	88	35518	1.95	ppb	93
43) 2,2,4-trimethylpentane	12.85	57	224879	1.15	ppb	89
44) Heptane	13.16	43	73246	1.17	ppb	99
45) Trichloroethene	13.31	130	72340	1.01	ppb	98
46) 1,2-dichloropropane	13.43	63	63447	1.09	ppb	99

(#) = qualifier out of range (m) = manual integration

AL102110.D A910_1UG.M

Mon Nov 17 15:11:15 2014

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA2\AL102110.D
 Acq On : 21 Oct 2014 5:13 pm
 Sample : ALCS1UG-102114
 Misc : A910_1UG

Vial: 10
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Oct 21 17:38:14 2014

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Oct 06 11:33:09 2014

Response via : Initial Calibration

DataAcq Meth : 1UG RUN

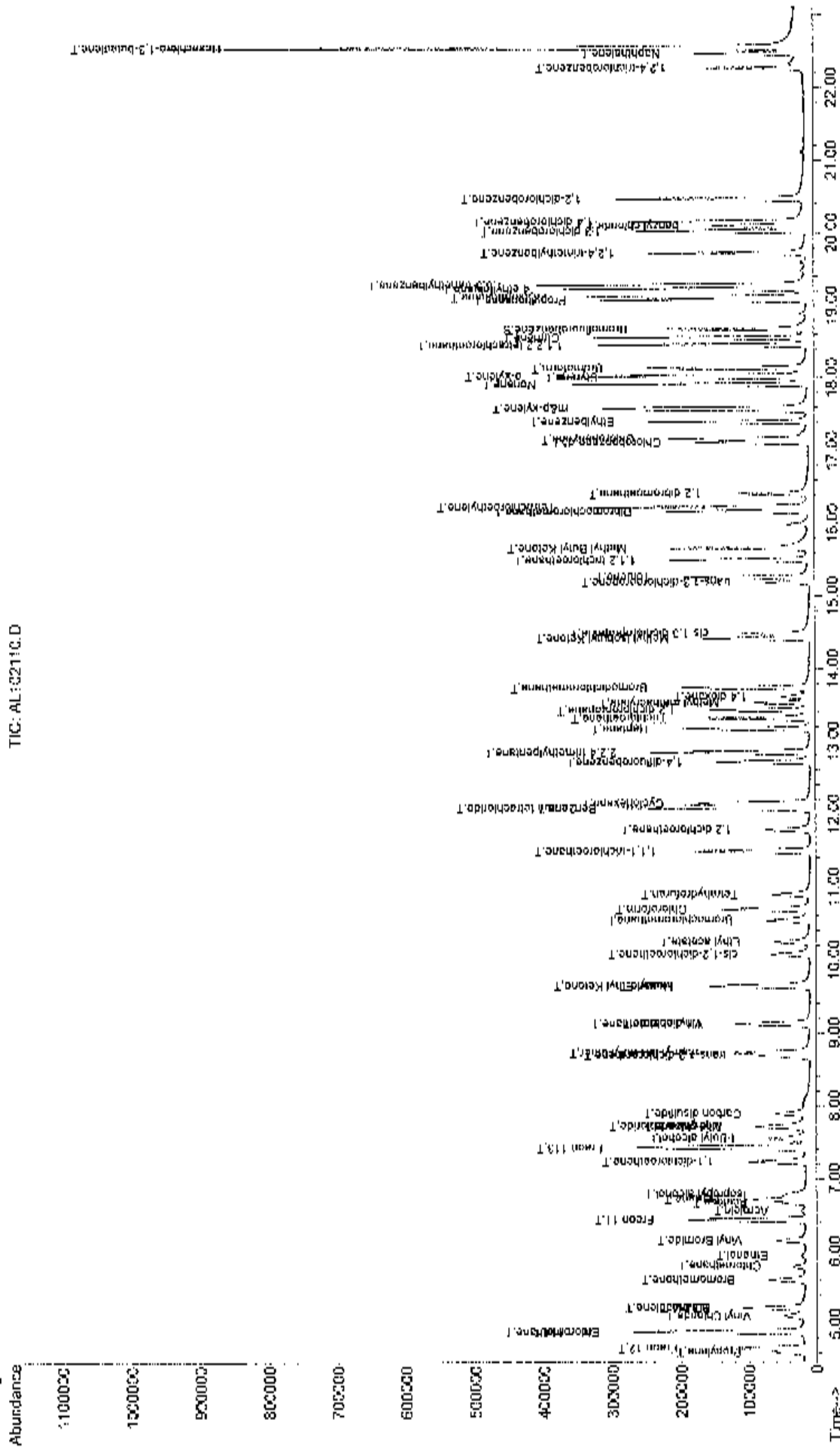
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Bromodichloromethane	13.74	83	158242	1.23	ppb	100
48) cis-1,3 dichloropropene	14.48	75	70848	1.13	ppb	96
49) trans-1,3-dichloropropene	15.19	75	54010	1.10	ppb	95
50) 1,1,2-trichloroethane	15.50	97	78015	1.11	ppb	100
52) Toluene	15.26	92	94921	1.11	ppb	97
53) Methyl Isobutyl Ketone	14.41	43	144440	2.22	ppb	95
54) Dibromochloromethane	16.17	129	140391m	1.20	ppb	
55) Methyl Butyl Ketone	15.66	43	194037	4.31	ppb	96
56) 1,2-dibromoethane	16.41	107	99642	1.16	ppb	98
57) Tetrachloroethylene	16.22	164	88784	1.18	ppb	97
58) Chlorobenzene	17.16	112	140066	1.12	ppb	98
60) Ethylbenzene	17.40	91	186822	1.04	ppb	98
61) m&p-xylene	17.58	91	346451	2.43	ppb	98
62) Nonane	17.91	43	99699m	1.21	ppb	
63) Styrene	18.00	104	118974	1.21	ppb	90
64) Bromoform	18.13	173	139372m	1.22	ppb	
65) o-xylene	18.03	91	219974	1.21	ppb	99
66) Cumene	18.55	105	217902	1.20	ppb	98
68) 1,1,2,2-tetrachloroethane	18.45	83	178342	1.25	ppb	100
69) Propylbenzene	19.07	91	245738m	1.29	ppb	
70) 2 Chlorotoluene	19.12	91	243282m	1.27	ppb	
71) 4 ethyltoluene	19.23	105	217731m	1.27	ppb	
72) 1,3,5 trimethylbenzene	19.28	105	263275m	1.28	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	171830	1.16	ppb	99
74) 1,3-dichlorobenzene	20.02	146	136191m	1.23	ppb	
75) benzyl chloride	20.09	91	117667	2.09	ppb	97
76) 1,4-dichlorobenzene	20.15	146	133972m	1.29	ppb	
78) 1,2 dichlorobenzene	20.46	146	146163m	1.29	ppb	
79) 1,2,4 trichlorobenzene	22.27	180	53274m	1.20	ppb	
80) Naphthalene	22.46	128	151329m	2.00	ppb	
81) Hexachloro-1,3-butadiene	22.55	225	218830	1.76	ppb	97

(#) - qualifier out of range (m) = manual integration (+) = signals summed
 AL102110.D A910 1UG.M Mon Nov 17 15:11:15 2014 MSD1

Data File : C:\MSDCHEM\1\DATA2\AL102110.D
 Acq On : 21 Oct 2014 5:13 pm
 Sample : ACS:UG-102114
 Misc : A910_LUG
 MS Integration Params: RTEINT.P
 Quant Time: Nov 17 15:11 2014

Vial: 10
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A910_LUG.RES

Method : C:\MSDCHEM\1\METHODS\A910_LUG.M (RT3 Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Nov 17 14:54:27 2014
 Response via : Initial Calibration



Date: 31-Oct-14

CEN TEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: WSP Environment and Energy
Work Order: C1410057
Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-trichloroethane	1.080	0.15	1	0	106	70	130	1.17	8.00	30	
1,1,2,2-Tetrachloroethane	0.9600	0.15	1	0	96.0	70	130	1.2	19.2	30	
1,1,2-Trichloroethane	1.000	0.15	1	0	100	70	130	1.09	8.61	30	
1,1-Dichloroethane	0.9700	0.15	1	0	97.0	70	130	0.96	1.04	30	
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130	1.07	0	30	
1,2,4-Trichlorobenzene	1.220	0.15	1	0	122	70	130	1.08	12.2	30	
1,2,4-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.2	6.45	30	
1,2-Dibromobethane	0.9600	0.15	1	0	99.0	70	130	1.07	7.77	30	
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.23	8.47	30	
1,2-Dichloroethane	1.010	0.15	1	0	101	70	130	1.05	3.88	30	
1,2-Dichloropropane	0.9900	0.15	1	0	99.0	70	130	1.04	4.93	30	
1,3,5-Trimethylbenzene	1.260	0.15	1	0	106	70	130	1.24	15.7	30	
1,3-butadiene	1.260	0.15	1	0	126	70	130	1.18	6.56	30	
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.24	11.1	30	
1,4-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.26	12.7	30	
1,4-Dioxane	0.4300	0.30	1	0	43.0	70	130	1.23	96.4	30	SR
2,2,4-trimethylpentane	1.110	0.15	1	0	111	70	130	1.1	0	30	
4-ethyltoluene	1.110	0.15	1	0	111	70	130	1.25	11.3	30	
Acetone	1.160	0.30	1	0	119	70	130	1.27	6.50	30	
Allyl chloride	1.210	0.15	1	0	121	70	130	1.23	1.84	30	
Benzene	1.050	0.15	1	0	106	70	130	1.09	2.79	30	
Benzyl chloride	1.250	0.15	1	0	128	70	130	1.65	25.3	30	
Bromodichloromethane	1.050	0.15	1	0	105	70	130	1.18	11.7	30	
Bromoform	0.9800	0.15	1	0	98.0	70	130	1.21	21.0	30	
Bromomethane	1.240	0.15	1	0	124	70	130	1.17	5.81	30	

Sample ID: ALCS105D-101714 Sample Type: LCSD Batch ID: R8946 TestCode: 0.25CT-TCE Units: ppbv Prep Date: RunNo: 8946
 Client ID: ZZZZZ TestNo: TO-15 Analysis Date: 10/17/2014 SeqNo: 106374

Qualifiers: Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCSTUGD-101714	Sample Type	LCSD	TestCode	0.25CT-TCE	Units	ppbv	Prep Date	RunNo	8946	
Client ID	ZZZZ	Batch ID	R8946	TestNo	TO-15			Analysis Date	SeqNo	106374	
Analyte	Result	PQL	SPK varje	SPK Ref Val	%REC	LowLimit	HighLimit	RFD Ref Val	%RFD	RPDumr	Qual
Carbon disulfide	0.8700	0.15	1	0	87.0	70	130	1.03	16.8	30	
Carbon tetrachloride	1.030	0.40	1	0	103	70	130	1.16	11.9	30	
Chlorobenzene	0.9900	0.15	1	0	99.0	70	130	1.06	6.83	30	
Chloroethane	1.240	0.15	1	0	424	70	130	1.21	2.45	30	
Chloroform	0.9400	0.15	1	0	94.0	70	130	0.97	3.14	30	
Chloroethane	1.180	0.15	1	0	118	70	130	1.15	2.58	30	
o,s-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
o,s-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Cyclohexane	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
Dibromochloromethane	0.9200	0.15	1	0	92.0	70	130	1.08	16.0	30	
Ethyl acetate	1.180	0.25	1	0	119	70	130	1.23	3.31	30	
Ethylbenzene	1.240	0.15	1	0	124	70	130	0.98	23.4	30	
Freon 11	1.080	0.15	1	0	108	70	130	1.16	7.14	30	
Freon 113	1.080	0.15	1	0	108	70	130	1.13	4.52	30	
Freon 114	1.050	0.15	1	0	105	70	130	0.98	6.90	30	
Freon 12	1.070	0.15	1	0	107	70	130	0.97	9.80	30	
Heptane	1.100	0.15	1	0	110	70	130	1.14	3.57	30	
Hexachloro-1,3-butadiene	1.130	0.15	1	0	113	70	130	1.23	8.47	30	
Hexane	0.9600	0.15	1	0	96.0	70	130	0.92	6.32	30	
Isopropyl alcohol	0.9200	0.15	1	0	92.0	70	130	1.26	31.2	30	R
m,p-Xylene	2.400	0.30	2	0	120	70	130	2.36	1.68	30	
Methyl Butyl Ketone	0.7800	0.30	1	0	78.0	70	130	1.58	67.8	30	R
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	1.26	21.1	30	
Methyl Isobutyl Ketone	0.6000	0.30	1	0	60.0	70	130	1.26	70.3	30	SR
Methyl tert-butyl ether	0.9600	0.15	1	0	96.0	70	130	0.92	4.26	30	
Methylene chloride	1.150	0.15	1	0	110	70	130	1.17	6.7	30	
o-Xylene	1.000	0.15	1	0	100	70	130	1.16	14.8	30	
Propylene	1.150	0.15	1	0	115	70	130	0.94	20.1	30	
Styrene	1.050	0.15	1	0	105	70	130	1.16	9.95	30	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	70	130	1.04	11.2	30	
Tetrahydrofuran	1.170	0.15	1	0	117	70	130	1.24	5.81	30	

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-101714	Sample Type	LCSB	TestCode	0.25CT-TCE-	Units	ppbV	Prep Date	RunNo	8946	
Client ID	ZZZZ	Batch ID	R8946	TestNo	TO-15	Analysis Date	10/17/2014	SeqNo	106374		
Analyte	Res:U	PCL	SPK value	SPK Ref Val	%SEC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	0.9600	0.15	1	0	96.0	70	130	1.04	8.30	30	
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130	1	4.88	30	
trans-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130	1.06	1.90	30	
Trichloroethene	0.9300	0.040	1	0	93.0	70	130	0.96	3.17	30	
Vinyl acetate	1.090	0.15	1	0	109	70	130	1.01	7.62	30	
Vinyl Bromide	1.140	0.15	1	0	114	70	130	1.06	7.27	30	
Vinyl chloride	1.140	0.040	1	0	114	70	130	1.09	4.48	30	

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Ste Yorkville, NY

TestCode: EUGMJ_TO15

Sample ID	ALCS1UGD-102014	SamprType: LCSD	Batch ID: R8960	TestCode: EUGMJ_TO15	Units: ppbV	Prep Date	RunNo: 8960				
Client: D: ZZZZ				TestNo: TO-15	Analysis Date: 10/20/2014		SeqNo: 106729				
Analyte	Result	PQL	SPK value	SPK Ref Vg.	%REC	LowLimit	HighLimit	RSD Ref Val	%RPD	R2D_Lim:	Qual
1,1,1-Trichloroethane	1.230	0.15	1	0	126	70	130	1.23	0	30	
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130	1.2	5.13	30	
1,1,2-Trichloroethane	1.070	0.15	1	0	107	70	130	1.2	11.5	30	
1,1-Dichloroethane	1.130	0.15	1	0	113	70	130	1.09	3.60	30	
1,1-Dichloroethene	1.310	0.15	1	0	131	70	130	1.18	10.4	30	S
1,2,4-Trichlorobenzene	0.9700	0.15	1	0	97.0	70	130	0.98	1.03	30	
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130	1.1	29.2	30	
1,2-Dibromomethane	1.090	0.15	1	0	109	70	130	1.06	2.79	30	
1,2-Dichlorobenzene	1.160	0.15	1	0	116	70	130	1.22	5.04	30	
1,2-Dichloroethane	1.260	0.15	1	0	126	70	130	1.24	1.60	30	
1,2-Dichloropropane	1.050	0.15	1	0	105	70	130	1.23	15.8	30	
1,3,5-Trimethylbenzene	1.040	0.15	1	0	104	70	130	1.22	15.9	30	S
1,3-bis(4)ene	1.540	0.15	1	0	154	70	130	1.22	23.2	30	
1,3-Dichlorobenzene	1.140	0.15	1	0	114	70	130	1.22	6.78	30	
1,4-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
1,4-Dioxane	0.6200	0.30	1	0	62.0	70	130	0.23	91.8	30	SR
2,2,4-trimethylpentane	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
4-ethyltoluene	1.050	0.15	1	0	105	70	130	1.27	19.0	30	
Acetone	1.480	0.30	1	0	148	70	130	1.27	15.3	30	S
Allyl chloride	1.490	0.15	1	0	149	70	130	1.06	34.6	30	SR
Benzene	1.110	0.15	1	0	111	70	130	1.25	11.9	30	
Benzyl chloride	1.270	0.15	1	0	127	70	130	1.82	35.6	30	R
Bromodichloromethane	1.200	0.15	1	0	120	70	130	1.25	4.08	30	
Bromoform	1.240	0.15	1	0	124	70	130	1.23	0.810	30	
Bromomethane	1.480	0.15	1	0	148	70	130	1.26	16.1	30	S
Carbon disulfide	1.140	0.15	1	0	114	70	130	0.97	16.1	30	
Carbon tetrachloride	1.200	0.15	1	0	120	70	130	1.22	1.65	30	
Chlorobenzene	1.090	0.15	1	0	109	70	130	1.08	0.922	30	
Chloroethane	1.620	0.15	1	0	162	70	130	1.28	23.4	30	S
Chloroform	1.150	0.15	1	0	115	70	130	1.12	2.64	30	
Chloromethane	1.490	0.15	1	0	149	70	130	1.25	17.5	30	S

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: EUGM3_TO15

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	Prep Date	Run No	Sec No	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sample ID: ALCS1UGD-102014	Batch ID: RJ960	TestCode: EUGM3_TO15	Units: ppbV	Prep Date: 10/20/2014	Run No: 8960	Sec No: 106729									
Client ID: ZZZZ															
cis-1,2-Dichloroethene	1.060	0.15	1	0		70	8960	106729	106	130	130	1.05	9.948	30	
cis-1,3-Dichloropropene	1.040	0.15	1	0		70			104	130	130	1.16	10.9	30	
Cyclohexane	1.070	0.15	1	0		70			107	130	130	1.23	13.9	30	
Dibromochloromethane	1.150	0.15	1	0		70			115	130	130	1.15	0	30	
Ethyl acetate	1.110	0.25	1	0		70			111	130	130	1.18	6.11	30	
Ethylbenzene	0.9500	0.15	1	0		70			95.0	130	130	1.1	14.6	30	S
Freon 11	1.420	0.15	1	0		70			142	130	130	1.26	11.9	30	
Freon 113	1.360	0.15	1	0		70			136	130	130	1.25	8.43	30	S
Freon 114	1.200	0.15	1	0		70			120	130	130	1.1	8.70	30	
Freon 12	1.180	0.15	1	0		70			118	130	130	1.11	6.11	30	
Heptane	1.130	0.15	1	0		70			113	130	130	1.22	7.66	30	
Hexachloro-1,3-butadiene	1.170	0.15	1	0		70			117	130	130	1.18	9.851	30	
Hexane	1.030	0.15	1	0		70			103	130	130	1.01	1.96	30	
Isopropyl alcohol	1.140	0.15	1	0		70			114	130	130	1.06	7.27	30	
m,p-Xylene	2.250	0.30	2	0		70			112	130	130	2.63	15.6	30	S
Methy. Butyl Ketone	0.5700	0.30	1	0		70			67.0	130	130	0.5	29.1	30	
Methy. Ethyl Ketone	0.9600	0.30	1	0		70			96.0	130	130	1	4.08	30	
Methy. Isobutyl Ketone	0.8200	0.30	1	0		70			82.0	130	130	0.30	85.2	30	R
Methy. tert-butyl ether	0.8800	0.15	1	0		70			88.0	130	130	1	12.8	30	
Methylene chloride	1.390	0.15	1	0		70			139	130	130	1.18	16.3	30	S
o-Xylene	1.130	0.15	1	0		70			113	130	130	1.17	3.48	30	
Propylene	1.090	0.15	1	0		70			109	130	130	1.02	6.64	30	
Styrene	1.090	0.15	1	0		70			109	130	130	1.13	3.50	30	
Tetrachloroethylene	1.090	0.15	1	0		70			109	130	130	1.12	2.71	30	
Tetrahydrofuran	1.140	0.15	1	0		70			114	130	130	1.27	10.8	30	
To-toluene	1.030	0.15	1	0		70			103	130	130	1.17	12.7	30	
trans-1,2-Dichloroethene	1.130	0.15	1	0		70			113	130	130	1.11	1.79	30	
trans-1,3-Dichloropropene	1.020	0.15	1	0		70			102	130	130	1.25	20.3	30	
Trichloroethene	1.010	0.15	1	0		70			101	130	130	1.15	13.0	30	
Vinyl acetate	1.050	0.15	1	0		70			105	130	130	1.17	7.05	30	
Vinyl Bromide	1.310	0.15	1	0		70			131	130	130	1.22	7.11	30	S

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-102014	SampleType	LCSD	TestCode	1ugM3_TO15	Units	ppbV	Pres Date:	RunNo:	8960	
Client ID:	ZZZZ	Batch ID:	R8960	TestNo:	TO-15			Analysis Date:	SeqNo:	106729	
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Vinyl chloride	1.300	0.15	1	0	130	70	130	1.18	9.66	30	

Sample ID	ALCS1UGD-102114	SampleType	LCSD	TestCode	1ugM3_TO15	Units	ppbV	Pres Date:	RunNo:	8968	
Client ID:	ZZZZ	Batch ID:	R8968	TestNo:	TO-15			Analysis Date:	SeqNo:	106740	
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	1.390	0.15	1	0	139	70	130	1.27	9.02	30	S
1,1,2,2-Tetrachloroethane	1.210	0.15	1	0	121	70	130	1.25	3.25	30	
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130	1.11	6.11	30	
1,1-Dichloroethane	1.160	0.15	1	0	116	70	130	1.12	3.51	30	
1,1-Dichloroethene	1.360	0.15	1	0	136	70	130	1.33	2.23	30	S
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130	1.32	50.2	30	R
1,2,4-Trimethylbenzene	0.6900	0.15	1	0	69.0	70	130	1.16	50.6	30	SR
1,2-Dibromoethane	1.220	0.15	1	0	122	70	130	1.16	5.04	30	
1,2-Dichlorobenzene	1.040	0.15	1	0	104	70	130	1.35	25.9	30	
1,2-Dichloroethane	1.360	0.15	1	0	136	70	130	1.31	3.75	30	S
1,2-Dichloropropane	1.140	0.15	1	0	114	70	130	1.09	4.48	30	
1,3,5-Trimethylbenzene	1.020	0.15	1	0	102	70	130	1.37	29.3	30	
1,3-Butadiene	1.600	0.15	1	0	160	70	130	1.52	5.13	30	S
1,3-Dichlorobenzene	1.140	0.15	1	0	114	70	130	1.32	14.6	30	
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.35	22.2	30	
1,4-Dioxane	0.400	0.30	1	0	14.0	70	130	1.95	0	30	JS
2,2,4-Trimethylpentane	1.210	0.15	1	0	121	70	130	1.15	5.08	30	
4-ethyltoluene	0.9500	0.15	1	0	95.0	70	130	1.41	39.0	30	R
Acetone	1.170	0.30	1	0	117	70	130	1.37	15.7	30	
Allyl cyanide	1.490	0.15	1	0	149	70	130	1.5	0.669	30	S
Benzene	1.200	0.15	1	0	120	70	130	1.15	4.26	30	
Benzyl chloride	0.7500	0.15	1	0	75.0	70	130	2.09	94.4	30	R
Bromodichloromethane	1.320	0.15	1	0	132	70	130	1.23	7.06	30	S
Bromoform	1.430	0.15	1	0	143	70	130	1.3	9.52	30	S

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded
 S Analytic detected at or below quantitation limits MD Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 Spike Recovery outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1416057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-102114	SampleType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 8968					
Client ID	ZZZZ	Batch ID: R6968	TestNo: TO-15		Analysis Date: 10/22/2014	SeqNo: 106740					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPOLimit	Qual
Bromomethane	1.550	0.15	1	0	155	70	130	1.45	6.67	30	S
Carbon disulfide	1.060	0.15	1	0	106	70	130	1.05	C	30	S
Carbon tetrachloride	1.380	0.15	1	0	138	70	130	1.25	9.69	30	S
Chlorobenzene	1.170	0.15	1	0	117	70	130	1.12	4.37	30	S
Chloroethane	1.560	0.15	1	0	156	70	130	1.56	C	30	S
Chloroform	1.230	0.15	1	0	123	70	130	1.15	5.65	30	S
Chloromethane	1.480	0.15	1	0	148	70	130	1.45	1.35	30	S
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.13	C	30	S
cis-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130	1.13	6.29	30	S
Cyclohexane	1.120	0.15	1	0	112	70	130	1.11	0.897	30	S
Dibromochloromethane	1.310	0.15	1	0	131	70	130	1.2	6.75	30	S
Ethyl acetate	0.7000	0.25	1	0	70.0	70	130	1.67	61.9	30	R
Ethylbenzene	1.020	0.15	1	0	102	70	130	1.04	1.94	30	S
Freon 11	1.510	0.15	1	0	151	70	130	1.43	5.44	30	S
Freon 113	1.430	0.15	1	0	143	70	130	1.35	5.75	30	S
Freon 114	1.220	0.15	1	0	122	70	130	1.2	1.65	30	S
Freon 12	1.220	0.15	1	0	122	70	130	1.17	4.16	30	S
Heptane	1.170	0.15	1	0	117	70	130	1.17	0	30	S
Hexachloro-1,3-butadiene	0.7500	0.15	1	0	75.0	70	130	1.76	80.5	30	R
Hexane	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	30	S
Isopropyl alcohol	0.6400	0.15	1	0	64.0	70	130	1.56	85.6	30	SR
m,p-Xylene	2.400	0.30	2	0	122	70	130	2.43	0	30	S
Methyl Butyl Ketone	0.4200	0.30	1	0	42.0	70	130	4.31	164	30	SR
Methyl Ethyl Ketone	0.4500	0.30	1	C	45.0	70	130	1.5	156	30	SR
Methyl Isobutyl Ketone	0.1300	0.30	1	C	13.0	70	130	2.22	C	30	JS
Methyl tert-butyl ether	0.8000	0.15	1	C	80.0	70	130	1.1	31.6	30	R
Methylene chloride	1.410	0.15	1	C	141	70	130	1.37	2.68	30	S
o-Xylene	1.210	0.15	1	C	121	70	130	1.21	C	30	S
Propylene	0.9200	0.15	1	C	92.0	70	130	1.09	16.9	30	S
Styrene	1.130	0.15	1	C	113	70	130	1.21	5.64	30	S
Tetrachloroethylene	1.230	0.15	1	C	123	70	130	1.15	4.15	30	S

Qualifiers: 0 Results reported are not blank corrected
 1 Analyte detected at or below quantitation limits
 5 Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding limits for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: WSP Environment and Energy
 Work Order: C1410057
 Project: 5140 Site Yorkville, NY

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-102114	Sample Type	LCSD	TestCode	1ugM3_TO15	Units	ppbV	Prep Date	RunNo	8968	
Client ID	ZZZZZ	Batch ID	R8968	Analysis Date	10/22/2014				SeqNo	106740	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	G.Jal
Tetrahydrofuran	0.6500	0.15	1	0	85.0	70	130	1.46	5.7	30	R
Toluene	1.350	0.15	1	0	115	70	130	1.11	3.54	30	
Trans-1,2-Dichloroethene	1.170	0.15	1	0	117	70	130	1.23	5.00	30	
Trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.1	0	30	
Trichloroethene	1.110	0.15	1	0	111	70	130	1.01	9.43	30	
Vinyl acetate	1.050	0.15	1	0	105	70	130	1.2	13.3	30	
Vinyl Bromide	1.290	0.15	1	0	129	70	130	1.35	4.55	30	
Vinyl chloride	1.300	0.15	1	0	130	70	130	1.3	0	30	

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 I: Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AL101719.D
 Acq On : 17 Oct 2014 11:07 pm
 Sample : ALCS1UCD-101714
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:53 2014

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	50384m	1.00	ppb	0.00
36) 1,4 difluorobenzene	12.72	114	197875	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	186154	1.00	ppb	0.00

System Monitoring Compounds:
 67) Bromofluorobenzene 18.67 95 126280 0.96 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery - 96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Propylene	4.63	41	58449m	1.15	ppb	
4) Freon 12	4.69	85	262825	1.07	ppb	99
5) Chloromethane	4.90	50	70090m	1.18	ppb	
6) Freon 114	4.91	85	199801	1.05	ppb	97
7) Vinyl Chloride	5.13	62	59967	1.14	ppb	99
8) Butane	5.23	43	77055	1.31	ppb	98
9) 1,3 butadiene	5.24	39	53365	1.26	ppb	85
10) Bromomethane	5.62	94	75984m	1.24	ppb	
11) Chloroethane	5.80	64	28001m	1.24	ppb	
12) Ethanol	5.97	45	14318	1.20	ppb	88
13) Acrolein	6.59	56	11352m	1.22	ppb	
14) Vinyl Bromide	6.16	106	65740	1.14	ppb	97
15) Freon 11	6.44	101	253633	1.08	ppb	98
16) Acetone	6.70	58	19894m	1.19	ppb	
17) Pentane	6.73	42	55861	1.30	ppb	87
18) Isopropyl alcohol	6.81	45	52729	0.92	ppb	# 100
19) 1,1-dichloroethene	7.24	96	64762	1.07	ppb	92
20) Freon 113	7.44	101	167076	1.08	ppb	99
21) t-Butyl alcohol	7.60	59	44156	0.57	ppb	# 80
22) Methylene chloride	7.74	84	47961	1.10	ppb	# 81
23) Allyl chloride	7.72	41	40185	1.21	ppb	99
24) Carbon disulfide	7.91	76	138907	0.87	ppb	100
25) trans-1,2-dichloroethene	8.69	61	82213	1.05	ppb	97
26) methyl tert-butyl ether	8.75	73	149885	0.96	ppb	79
27) 1,1-dichloroethane	9.13	63	139342	0.97	ppb	99
28) Vinyl acetate	9.14	43	89853	1.09	ppb	98
29) Methyl Ethyl Ketone	9.68	72	23980	1.02	ppb	# 84
30) cis-1,2-dichloroethene	10.08	61	76573	0.95	ppb	91
31) Hexane	9.65	57	94211	0.98	ppb	86
32) Ethyl acetate	10.26	43	105789	1.19	ppb	97
33) Chloroform	10.71	83	176427	0.94	ppb	100
34) Tetrahydrofuran	10.91	42	53416	1.17	ppb	100
35) 1,2-dichloroethane	11.79	62	104312	1.01	ppb	99
37) 1,1,1-Trichloroethane	11.50	97	175498	1.08	ppb	99
38) Cyclohexane	12.16	56	88809	1.08	ppb	87
39) Carbon tetrachloride	12.10	117	200121	1.03	ppb	99
40) Benzene	12.08	78	205234	1.06	ppb	93
41) Methyl methacrylate	13.53	41	49472	1.25	ppb	92
42) 1,4-dioxane	13.66	88	10072m	0.43	ppb	
43) 2,2,4-trimethylpentane	12.85	57	280587	1.11	ppb	93
44) Heptane	13.17	43	89766	1.10	ppb	98
45) Trichloroethene	13.32	130	86771	0.93	ppb	99
46) 1,2-dichloropropane	13.43	63	74275	0.99	ppb	99

Data File : C:\HPCHEM\1\DATA\AL101719.D
 Acq On : 17 Oct 2014 11:07 pm
 Sample : ALC91UGD-101714
 Misc : A910_IUG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 18 07:21:53 2014

Vial: 3
 Operator: RJF
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_IUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 12:31:36 2014
 Response via : Initial Calibration
 DataAcq Meth : IUG RUN

Compound	R.T.	QTon	Response	Conc	Unit	Qvalue
47) Bromodichloromethane	13.74	83	174617	1.05	ppb	98
48) cis-1,3-dichloropropene	14.49	75	82304	1.01	ppb	97
49) trans-1,3-dichloropropene	15.20	75	65989	1.04	ppb	97
50) 1,1,2-trichloroethane	15.50	97	90786	1.00	ppb	98
52) Toluene	15.26	92	123444	0.96	ppb	100
53) Methyl Isobutyl Ketone	14.43	43	58354m	0.60	ppb	
54) Dibromochloromethane	16.17	129	162339m	0.92	ppb	
55) Methyl Butyl Ketone	15.68	43	52544m	0.78	ppb	
56) 1,2-dibromoethane	16.42	107	128208	0.99	ppb	99
57) Tetrachloroethylene	16.23	164	105348	0.93	ppb	100
58) Chlorobenzene	17.17	112	185299	0.99	ppb	97
60) Ethylbenzene	17.40	91	334956	1.24	ppb	98
61) m&p-xylene	17.59	91	513539	2.40	ppb	98
62) Nonane	17.91	43	149818	1.21	ppb	98
63) Styrene	18.00	104	155136	1.05	ppb	91
64) Bromoform	18.14	173	168436	0.98	ppb	100
65) o-xylene	18.03	91	273924	1.00	ppb	97
66) Cumene	18.55	105	306684	1.12	ppb	98
68) 1,1,2,2 tetrachloroethane	18.46	83	211536	0.99	ppb	100
69) Propylbenzene	19.07	91	324069m	1.13	ppb	
70) 2-Chlorotoluene	19.12	91	296058m	1.03	ppb	
71) 4-ethyltoluene	19.23	105	287155m	1.11	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	328024m	1.06	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	234035	1.05	ppb	100
74) 1,3-dichlorobenzene	20.02	146	185310	1.11	ppb	99
75) benzyl chloride	20.09	91	108185m	1.28	ppb	
76) 1,4-dichlorobenzene	20.15	146	172302	1.11	ppb	99
78) 1,2-dichlorobenzene	20.46	146	192214	1.13	ppb	97
79) 1,2,4-Trichlorobenzene	22.27	180	81124	1.22	ppb	100
80) Naphthalene	22.46	128	131328	1.15	ppb	94
81) Hexachloro-1,3-butadiene	22.55	225	211916	1.13	ppb	98

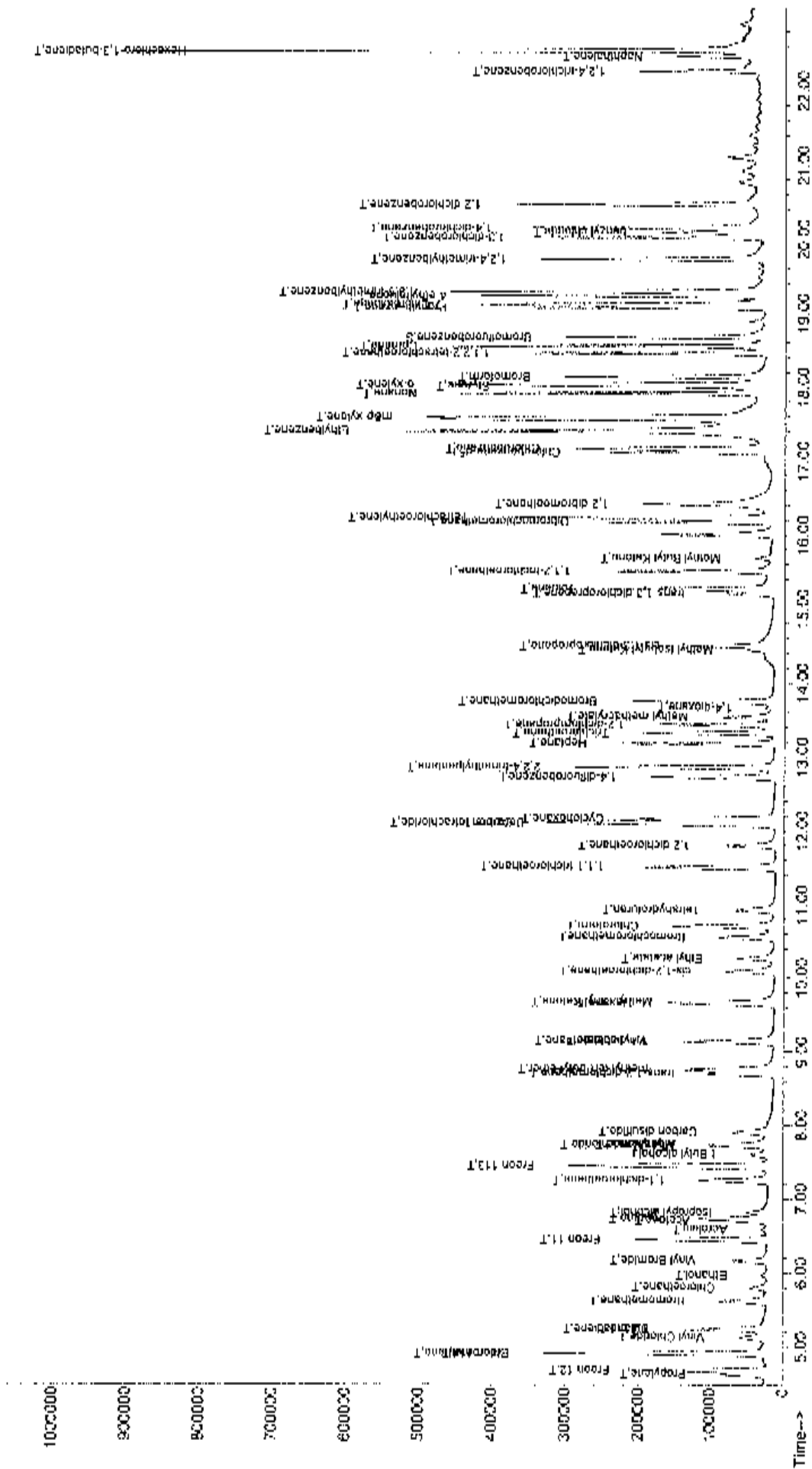
Data File : C:\HPCHEM\1\DATA\AL101719.D
 Acq On : 17 Oct 2014 11:07 pm
 Sample : ALCS1UGD-101714
 Misc : A910_1UG
 MS Integration Params: RTEINT.F
 Quant Time: Oct 20 14:08 2014

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multi-px: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last update : Fri Oct 31 23:55:31 2014
 Response via : Initial Calibration

Abundance TIC: AL101719.D



Data File : C:\HPCHEM\1\DATA\AL102021.D
 Acq On : 20 Oct 2014 9:56 pm
 Sample : ALCS1UGD-102014
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 04:20:18 2014

Vial: 56
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant. Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	32834	1.00	ppb	0.00
36) 1,4-difluorobenzene	12.71	114	143304	1.00	ppb	0.00
51) Chlorobenzene-d5	17.11	117	117910	1.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	18.67	95	88615	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Propylene	4.62	41	36015	1.09	ppb	86
4) Freon 12	4.68	85	189219	1.18	ppb	100
5) Chloromethane	4.90	50	57630m	1.49	ppb	
6) Freon 114	4.90	85	149429	1.20	ppb	99
7) Vinyl Chloride	5.11	62	44456m	1.30	ppb	
8) Butane	5.23	43	56612	1.47	ppb	96
9) 1,3 butadiene	5.23	39	42581	1.54	ppb	81
10) Bromomethane	5.61	94	59135	1.48	ppb	93
11) Chloroethane	5.79	64	23804	1.62	ppb	# 82
12) Ethanol	5.97	45	8785	1.13	ppb	89
13) Acrolein	6.59	56	8942	1.47	ppb	79
14) Vinyl Bromide	6.16	106	49289	1.31	ppb	95
15) Freon 11	6.44	101	210668	1.42	ppb	99
16) Acetone	6.69	58	16092	1.48	ppb	# 38
17) Pentane	6.73	42	39394m	1.41	ppb	
18) Isopropyl alcohol	6.81	45	42577	1.14	ppb	# 100
19) 1,1-dichloroethene	7.24	96	51817	1.31	ppb	95
20) Freon 113	7.43	103	137633	1.36	ppb	100
21) t-Butyl alcohol	7.60	59	40726	0.81	ppb	# 75
22) Methylene chloride	7.73	84	39455	1.39	ppb	# 83
23) Allyl chloride	7.70	41	32075	1.49	ppb	97
24) Carbon disulfide	7.90	76	119607	1.14	ppb	98
25) trans-1,2-dichloroethene	8.69	61	57615	1.13	ppb	98
26) methyl tert butyl ether	8.74	73	90407	0.88	ppb	66
27) 1,1-dichloroethane	9.13	63	105628	1.13	ppb	97
28) Vinyl acetate	9.14	43	58456	1.09	ppb	94
29) Methyl Ethyl Ketone	9.67	72	14699	0.96	ppb	# 64
30) cis-1,2-dichloroethene	10.07	61	55650	1.06	ppb	92
31) Hexane	9.64	57	65047	1.03	ppb	# 76
32) Ethyl acetate	10.25	43	64088	1.11	ppb	# 78
33) Chloroform	10.69	83	141171	1.15	ppb	99
34) Tetrahydrofuran	10.91	42	33914	1.14	ppb	96
35) 1,2-dichloroethane	11.78	62	84676	1.26	ppb	99
37) 1,1,1-trichloroethane	11.49	97	143704	1.23	ppb	100
38) Cyclohexane	12.15	56	63653	1.07	ppb	# 80
39) Carbon tetrachloride	12.10	117	167410	1.20	ppb	100
40) Benzene	12.08	78	155666	1.11	ppb	91
41) Methyl methacrylate	13.53	41	28815	1.01	ppb	98
42) 1,4-dioxane	13.66	88	10548m	0.62	ppb	
43) 2,2,4-trimethylpentane	12.85	57	205534	1.12	ppb	88
44) Heptane	13.17	43	66661	1.13	ppb	98
45) Trichloroethene	13.31	130	67823	1.01	ppb	99
46) 1,2-dichloropropane	13.43	63	56957	1.05	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AL102021.D
 Acq On : 20 Oct 2014 9:56 pm
 Sample : ATCS1UGD-102014
 Misc : A910 1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 04:20:18 2014

Vial: 56
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Bromodichloromethane	13.74	83	144638	1.20	ppb	100
48) cis 1,3 dichloropropene	14.49	75	61168	1.04	ppb	95
49) trans-1,3-dichloropropene	15.19	75	47014	1.02	ppb	94
50) 1,1,2-trichloroethane	15.50	97	70453	1.07	ppb	97
52) Toluene	15.26	92	84510	1.03	ppb	98
53) Methyl Tertiary Butyl Ketone	14.43	43	50725	0.82	ppb	94
54) Dibromochloromethane	16.17	129	128287m	1.15	ppb	
55) Methyl Butyl Ketone	15.68	43	28771m	0.67	ppb	
56) 1,2-dibromoethane	16.41	107	89345	1.09	ppb	99
57) Tetrachloroethylene	16.23	164	78067	1.09	ppb	99
58) Chlorobenzene	17.17	112	129616	1.09	ppb	96
60) Ethylbenzene	17.40	91	162818	0.95	ppb	97
61) m,p-xylene	17.58	91	304645	2.25	ppb	99
62) Nonane	17.91	43	96116	1.23	ppb	95
63) Styrene	18.00	104	102246	1.09	ppb	89
64) Bromoform	18.13	173	134916	1.24	ppb	99
65) o-xylene	18.03	91	196665	1.13	ppb	98
66) Cumene	18.56	105	175337	1.01	ppb	# 98
68) 1,1,2,2-tetrachloroethane	18.45	83	154925	1.14	ppb	99
69) Propylbenzene	19.07	91	179200m	0.99	ppb	
70) 2-Chlorotoluene	19.12	91	211432m	1.16	ppb	
71) 4-ethyltoluene	19.23	105	171341m	1.05	ppb	
72) 1,3,5-trimethylbenzene	19.28	105	204247m	1.04	ppb	
73) 1,2,4-trimethylbenzene	19.72	105	115541	0.82	ppb	100
74) 1,3-dichlorobenzene	20.01	146	119843	1.14	ppb	99
75) benzyl chloride	20.08	91	67821	1.27	ppb	97
76) 1,4-dichlorobenzene	20.14	146	110958	1.12	ppb	99
78) 1,2 dichlorobenzene	20.46	146	125082	1.16	ppb	97
79) 1,2,4-trichlorobenzene	22.27	180	40880	0.97	ppb	98
80) Naphthalene	22.46	128	84049	1.17	ppb	95
81) Hexachloro-1,3-butadiene	22.55	225	138455	1.17	ppb	97

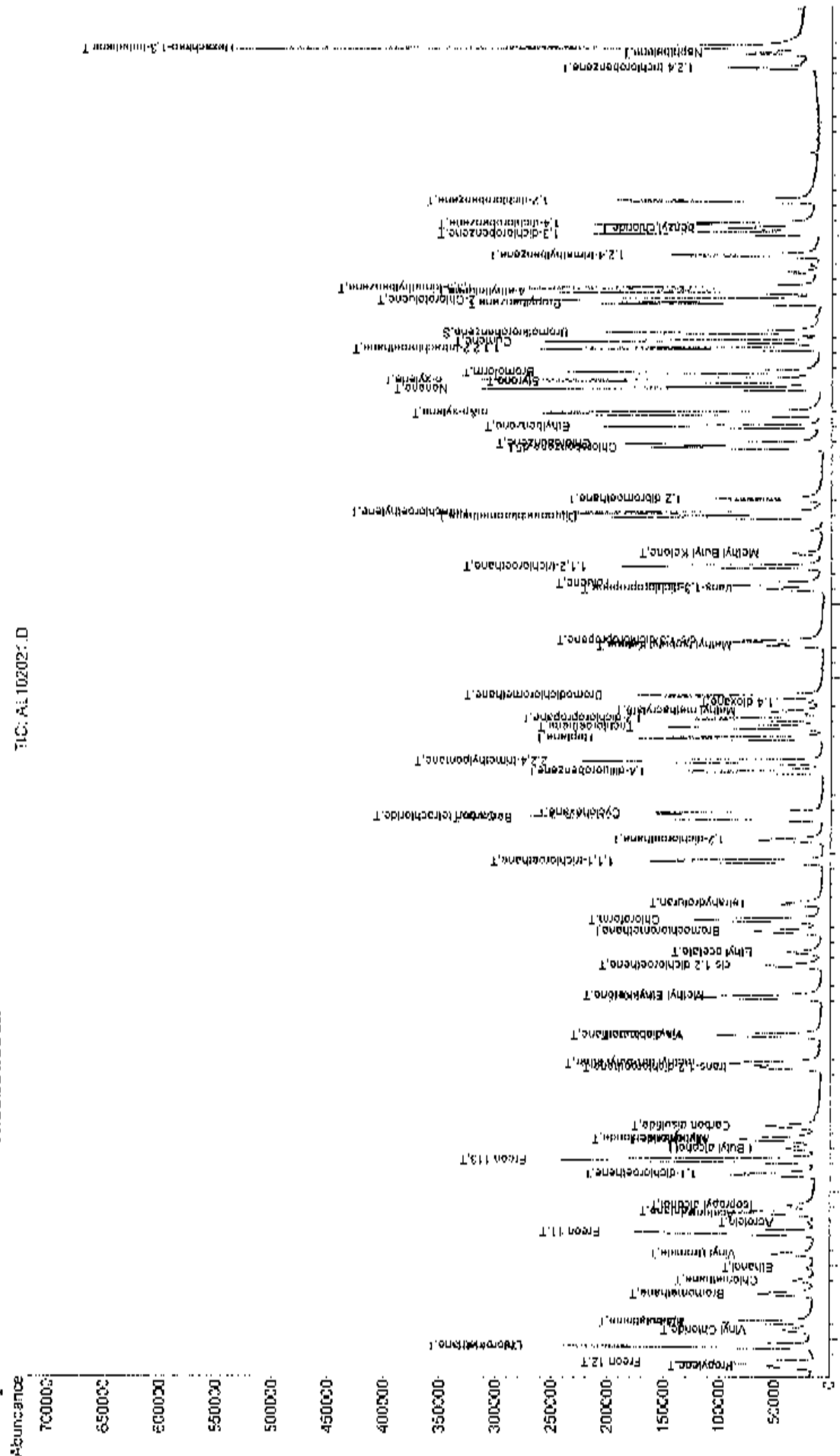
Quantitation Report (QC Reviewed)

Data File : C:\HPCHEM\1\DATA\AL102021.D
 Acq On : 20 Oct 2014 9:56 pm
 Sample : ALCS1UGD-102014
 Misc : A910_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Oct 22 12:35 2014

Vial: 56
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Fri Oct 31 15:55:31 2014
 Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

46471
46472
46473

Directory: C:\NPLChem\1\data

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
276	1	AI101701.d	1.	BFB1UG	A910_1UG	17 Oct 2014 10:57
277	2	AI101702.d	1.	A1UG	A910_1UG	17 Oct 2014 11:38
278	3	AI101703.d	1.	A1UG_1.0	A910_1UG	17 Oct 2014 12:18
279		AI101704.d	1.	No MS or GC data present		
280	5	AI101705.d	1.	AMB1UG-101714	A910_1UG	17 Oct 2014 13:29
281	6	AI101706.d	1.	ALCS1UG	A910_1UG	17 Oct 2014 14:52
282	7	AI101707.d	1.	ALCS1UG-101714	A910_1UG	17 Oct 2014 15:30
283	21	AI101708.d	1.	C1410057-011A	A910_1UG	17 Oct 2014 16:05
284	22	AI101709.d	1.	C1410057-010A	A910_1UG	17 Oct 2014 16:42
285	23	AI101710.d	1.	C1410057-001A	A910_1UG	17 Oct 2014 17:20
286	24	AI101711.d	1.	C1410057-003A	A910_1UG	17 Oct 2014 17:59
287	25	AI101712.d	1.	C1410057-005A	A910_1UG	17 Oct 2014 18:36
288	26	AI101713.d	1.	C1410057-007A	A910_1UG	17 Oct 2014 19:13
289	27	AI101714.d	1.	C1410057	A910_1UG	17 Oct 2014 19:53
290	28	AI101715.d	1.	C1410057	A910_1UG	17 Oct 2014 20:33
291	29	AI101716.d	1.	C1410057	A910_1UG	17 Oct 2014 21:13
292	1	AI101717.d	1.	C1410057-008A	A910_1UG	17 Oct 2014 21:50
293	2	AI101718.d	1.	C1410057-009A	A910_1UG	17 Oct 2014 22:30
294	3	AI101719.d	1.	ALCS1UGD-101714	A910_1UG	17 Oct 2014 23:07
295	4	AI101720.d	1.	C1410057-010A 5X	A910_1UG	17 Oct 2014 23:42
296	5	AI101721.d	1.	C1410057-001A 5X	A910_1UG	18 Oct 2014 00:19
297	6	AI101722.d	1.	C1410057-003A 5X	A910_1UG	18 Oct 2014 00:55
298	7	AI101723.d	1.	C1410057-005A 5X	A910_1UG	18 Oct 2014 01:32
299	8	AI101724.d	1.	C1410057-007A 5X	A910_1UG	18 Oct 2014 02:08
300	9	AI101725.d	1.	C1410057	A910_1UG	18 Oct 2014 02:48
301	10	AI101726.d	1.	C1410057	A910_1UG	18 Oct 2014 03:29
302	11	AI101727.d	1.	C1410057	A910_1UG	18 Oct 2014 04:08
303	12	AI101728.d	1.	C1410057-008A 10X	A910_1UG	18 Oct 2014 04:45
304	13	AI101729.d	1.	C1410057	A910_1UG-008A 40X	18 Oct 2014 05:21
305	13	AI101730.d	1.	C1410057-009A 10X	A910_1UG	18 Oct 2014 05:57
306	14	AI101731.d	1.	C1410057	A910_1UG-009A 40X	18 Oct 2014 06:33
307		AI101732.d	1.	No MS or GC data present		
308	1	AI102001.d	1.	BFB1UG	A910_1UG	20 Oct 2014 07:06
309	3	AI102002.d	1.	A1UG	A910_1UG	20 Oct 2014 09:33
310	4	AI102003.d	1.	A1UG_1.0	A910_1UG	20 Oct 2014 10:11
311	5	AI102004.d	1.	ALCS1UG-102014	A910_1UG	20 Oct 2014 11:30
312	6	AI102005.d	1.	AMB1UG-102014	A910_1UG	20 Oct 2014 12:05
313	41	AI102006.d	1.	C1410064-001A	A910_1UG	20 Oct 2014 12:41
314	42	AI102007.d	1.	C1410064-003A	A910_1UG	20 Oct 2014 13:18
315	43	AI102008.d	1.	C1410064-006A	A910_1UG	20 Oct 2014 13:57
316	44	AI102009.d	1.	C1410064-002A	A910_1UG	20 Oct 2014 14:35
317	45	AI102010.d	1.	C1410064-005A	A910_1UG	20 Oct 2014 15:13
318	46	AI102011.d	1.	C1410064-004A	A910_1UG	20 Oct 2014 15:50
319	47	AI102012.d	1.	C1410064-007A	A910_1UG	20 Oct 2014 16:28
320	48	AI102013.d	1.	C1410064-005A 10X	A910_1UG	20 Oct 2014 17:04
321	49	AI102014.d	1.	C1410064-005A 243X	A910_1UG	20 Oct 2014 17:42
322	50	AI102015.d	1.	C1410064-005A 2430X	A910_1UG	20 Oct 2014 18:18
323	51	AI102016.d	1.	C1410064-007A 10X	A910_1UG	20 Oct 2014 18:53
324	52	AI102017.d	1.	C1410064-003A 5X	A910_1UG	20 Oct 2014 19:29
325	53	AI102018.d	1.	C1410064-006A 90X	A910_1UG	20 Oct 2014 20:04
326	54	AI102019.d	1.	C1410064-002A 5X	A910_1UG	20 Oct 2014 20:40
327	55	AI102020.d	1.	ALCS1UGD	A910_1UG	20 Oct 2014 21:18
328	56	AI102021.d	1.	ALCS1UGD 102014	A910_1UG	20 Oct 2014 21:56
329	48	AI102022.d	1.	C1410063-008A	A910_1UG	20 Oct 2014 22:31
330	49	AI102023.d	1.	C1410063-001A	A910_1UG	20 Oct 2014 23:09

Injection Log

Directory: C:\HPC\Chem\1\data

1
 10/20/2014 9:58 AM A0471
 10/20/2014 10:03 AM A0472
 10/20/2014 10:08 AM A0473

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
131	21	AI102024.d	1	C1410063-002A	A910_1UG	20 Oct 2014 23:48
132	22	AI102025.d	1	C1410063-003A	A910_1UG	21 Oct 2014 00:26
133	23	AI102026.d	1	C1410063-004A	A910_1UG	21 Oct 2014 01:04
134	24	AI102027.d	1	C1410063-005A	A910_1UG	21 Oct 2014 01:42
135	25	AI102028.d	1	C1410063-006A	A910_1UG	21 Oct 2014 02:19
136	26	AI102029.d	1	C1410063-007A	A910_1UG	21 Oct 2014 02:57
137	27	AI102030.d	1	C1410057-002A	A910_1UG	21 Oct 2014 03:34
138	28	AI102031.d	1	C1410057-004A	A910_1UG	21 Oct 2014 04:12
139	29	AI102032.d	1	C1410057-006A	A910_1UG	21 Oct 2014 04:50
140	30	AI102033.d	1	C1410057-008A 810X	A910_1UG	21 Oct 2014 05:26
141	31	AI102034.d	1	C1410057-009A 810X	A910_1UG	21 Oct 2014 06:01
142	32	AI102035.d	1	C1410057-002A 10X	A910_1UG	21 Oct 2014 06:37
143	33	AI102036.d	1	C1410057-004A 10X	A910_1UG	21 Oct 2014 07:12
144	34	AI102037.d	1	C1410057-006A 10X	A910_1UG	21 Oct 2014 07:48
145	1	AI102101.d	1	BFB1UG	A910_1UG	21 Oct 2014 09:40
146	2	AI102102.d	1	BFB1UG	A910_1UG	21 Oct 2014 10:30
147	3	AI102103.d	1	BFB1UG	A910_1UG	21 Oct 2014 11:43
148	4	AI102104.d	1	A1UG_2.0	A910_1UG	21 Oct 2014 12:34
149	5	AI102105.d	1	A1UG	A910_1UG	21 Oct 2014 13:11
150	6	AI102106.d	1	A1UG_1.0	A910_1UG	21 Oct 2014 13:59
151	7	AI102107.d	1	ALCS	A910_1UG	21 Oct 2014 14:57
152	8	AI102108.d	1	ALCS	A910_1UG	21 Oct 2014 15:44
153	9	AI102109.d	1	ALCS	A910_1UG	21 Oct 2014 16:28
154	10	AI102110.d	1	ALCS1UG-102114	A910_1UG	21 Oct 2014 17:13
155	11	AI102111.d	1	AMB1UG-102114	A910_1UG	21 Oct 2014 18:29
156	49	AI102112.d	1	C1410063-001A RE	A910_1UG Sample ...	21 Oct 2014 19:08
157	21	AI102113.d	1	C1410063-002A RE	A910_1UG Sample ...	21 Oct 2014 19:47
158	22	AI102114.d	1	C1410063-003A RE	A910_1UG Sample ...	21 Oct 2014 20:27
159	23	AI102115.d	1	C1410063-004A RE	A910_1UG Sample ...	21 Oct 2014 21:07
160	24	AI102116.d	1	C1410063-005A RE	A910_1UG Sample ...	21 Oct 2014 21:47
161	25	AI102117.d	1	C1410063-006A RE	A910_1UG Sample ...	21 Oct 2014 22:26
162	26	AI102118.d	1	C1410063-007A RE	A910_1UG Sample ...	21 Oct 2014 23:04
163	27	AI102119.d	1	C1410057-002A 160X	A910_1UG	21 Oct 2014 23:40
164	27	AI102120.d	1	C1410057-002A 640X	A910_1UG	22 Oct 2014 00:17
165	28	AI102121.d	1	C1410057-004A 640X	A910_1UG	22 Oct 2014 00:53
166	29	AI102122.d	1	C1410057-006A 640X	A910_1UG	22 Oct 2014 01:29
167	31	AI102123.d	1	C1410069-001A	A910_1UG	22 Oct 2014 02:07
168	31	AI102124.d	1	C1410069-001A 10X	A910_1UG	22 Oct 2014 02:43
169	31	AI102125.d	1	C1410069-001A 40X	A910_1UG	22 Oct 2014 03:19
170	32	AI102126.d	1	C1410065-001A 10X	A910_1UG	22 Oct 2014 03:54
171	33	AI102127.d	1	C1410065-002A 10X	A910_1UG	22 Oct 2014 04:30
172	34	AI102128.d	1	C1410065-003A 10X	A910_1UG	22 Oct 2014 05:06
173	35	AI102129.d	1	C1410065-004A 10X	A910_1UG	22 Oct 2014 05:42
174	36	AI102130.d	1	ALCS1UGD-102114	A910_1UG	22 Oct 2014 06:19
175	32	AI102131.d	1	C1410066-001A	A910_1UG	22 Oct 2014 06:57
176	33	AI102132.d	1	C1410066-002A	A910_1UG	22 Oct 2014 07:34
177	34	AI102133.d	1	C1410066-003A	A910_1UG	22 Oct 2014 08:12
178	35	AI102134.d	1	C1410066-004A	A910_1UG	22 Oct 2014 08:50
179	36	AI102135.d	1	Blank	A910_1UG	22 Oct 2014 09:25
180	37	AI102136.d	1	Blank	A910_1UG	22 Oct 2014 10:01
181	38	AI102137.d	1	Blank	A910_1UG	22 Oct 2014 10:36
182	1	AI102401.d	1	BFB1UG	A024_1UG	24 Oct 2014 13:01
183	2	AI102402.d	1	BFB1UG	A024_1UG	24 Oct 2014 13:48
184	3	AI102403.d	1	BFB1UG	A024_1UG	24 Oct 2014 14:32
185	15	AI102415.d	1	A1UG_2.0	A024_1UG INIT CAL	24 Oct 2014 22:15

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Sig #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc:ppbv	Prep by	Chkcd by
9552	4/8/13	4/15/13	TO15 SULF	9446	1 ppm	1.5psig	30psia	50ppb	J.F.	
9553	↓	↓	↓	9482	500ppb	3.0psig	30psia	50ppb	↓	
9554	4/8/13	4/15/13	TO15 IUG IS	9546	50ppb	0.9psig	45psia	1ppb	M	
9555	↓	↓	↓	9547	↓	↓	↓	↓	↓	
9556	↓	↓	↓	9548	↓	↓	↓	↓	↓	
9557	4/8/13	4/15/13	TO15 4RCH 5ppb	9549	50ppb	3.0psig	30psia	5ppb	J.F.	
9558	4/15/13	4/22/13	TO15 IS	9253	1ppm	1.5psig	30psia	50ppb	J.F.	
9559	↓	↓	↓	9082/975	↓	↓	↓	↓	↓	
9560	↓	↓	↓	8472	↓	↓	↓	↓	↓	
9561	↓	↓	↓	9519	↓	↓	↓	↓	↓	
9562	↓	↓	↓	9537	37% in H ₂ O	1.1ul	50psig	10 ppm	↓	
9563	↓	↓	↓	9562	10ppm	0.23psig	45psia	50ppb	↓	
9564	↓	↓	↓	9446	1ppm	1.5psig	30psia	50ppb	↓	
9565	↓	↓	↓	9482	500ppb	3.0psig	30psia	50ppb	↓	
9566	4/15/13	4/22/13	TO15 IUG IS	9558	50ppb	0.9psig	45psia	1ppb	M	
9567	↓	↓	↓	9559	↓	↓	↓	↓	↓	
9568	↓	↓	↓	9560	↓	↓	↓	↓	↓	
9569	4/15/13	4/22/13	TO15 4RCH 5ppb	9561	50ppb	3.0psig	30psia	5ppb	J.F.	
9570	4/17/13	4/12/14	TO15 STD	STANDARD# CLM003658	AIR	100psig	200psig	1ppm	J.F.	
9571	4/17/13	4/29/13	TO15 STD	9570	1ppm	1.5psig	30psia	50ppb	↓	
9572	3/29/13	4/1/14	TO15 LCS MAX AB-1977	1ppm	1800psig	LINDE GAS			J.F.	

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Stc #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc	Prep by	Chkd by
9887	11/1/13	10/29/14	TO15 IS	FF7235	LINDF. GAS	2200PSIG	1 ppm		L.L.	
			TO15 IS	9557	1 ppm	1.5 psia	30 psia	50 ppb		
			STU	9558						
			LCS	9559						
			4PCX	9560						
			4PCX	9561	50 ppb	3 psia	30 psia	50 ppb		
			Forum SD	9562	50 ppb	3 psia	30 psia	50 ppb		
			4PCX	9563	50 ppb	3 psia	30 psia	50 ppb		
			Forum SD	9564	50 ppb	3 psia	30 psia	50 ppb		
			STU	9565	1 ppm	1.5 psia	30 psia	50 ppb		
			LCS	9566	1 ppm	1.5 psia	30 psia	50 ppb		
			4PCX	9567	1 ppm	1.5 psia	30 psia	50 ppb		
			Forum SD	9568	1 ppm	1.5 psia	30 psia	50 ppb		
			STU	9569	1 ppm	1.5 psia	30 psia	50 ppb		
			LCS	9570	1 ppm	1.5 psia	30 psia	50 ppb		
9901	11/1/13	11/18/13	TO15 IS	9887	1 ppm	1.5 psia	30 psia	50 ppb	WD	
9902			STU	9570						
9903			LCS	9572						
9904			4PCX	9519						
9905			4PCX (5pb)	9904	50 ppb	30 psia	30 psia	50 ppb		
9906			Forum SD	9520	8.9 ppm	0.2 psia	45 psia	50 ppb		
9907			STU	9584	500 ppb	3.0 psia	30 psia			

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-0462	10/20/17	10/23/17	TO15 IS	5887 A0058/A000	1ppm	1.5	30	50	M	
A-0463			STD							
A-0464			LCS	9570						
A-0465			4PCH	9519						
A-0466			4PCH	A0465	50ppb	3.0	30	5		
A-0467			FORM50	9520	8.9ppm	0.25	45	50		
A-0468			SILOX	9587	500ppb	3.0	45 30			
A-0469			SUL	A0270	1ppm	1.5	30	500		
A-0470			H2S	9667	10ppm	6	30			
A-0471			TO15106 IS	A0462	50ppb	0.9	45			
A-0472			STD	A0463						
A-0473			LCS	A0464						
A-0474	10/27/17	11/3/17	TO15 IS	9887 A0058/A000	1ppb	1.5	30	50	M	
A-0475			STD							
A-0476			LCS	9570						
A-0477			4PCH	9519						
A-0478			4PCH	A0477	50ppb	3.0	30	5		
A-0479			FORM50	9520	8.9ppm	0.25	45	50		
A-0480			SILOX	9587	500ppb	3.0	30			
A-0481			SUL	A0270	1ppm	1.5	6	500		
A-0482			H2S	9667	10ppm	6	6			

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Sid #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-0085	2/10/14	2/17/14	TO15 IUG LCS	A0076	50 ppb	0.9	45	1	Y.Z.	
A-0086	2/17/14	2/24/14	TO15 IS	9887 9570/A000	1 ppm	1.5	30	50	L.P.	
A-0087			STD	9572/9385						
A-0088			LCS							
A-0089			4PCH	9579						
A-0090			4PCH5	A0089	50 ppb	3.0	30	5		
A-0091			FORM50	9520	8.9 ppm	0.25	45	50		
A-0092			SILOX	9584	500 ppb	3.0	30			
A-0093			SULF	9446	1 ppm	1.5				
A-0094			H2S	9667	10 ppm			500		
A-0095			TO15 IUG IS	A0086	50 ppb	0.9 psig	45	1		
A-0096			STD	A0087						
A-0097			LCS	A0088						
A-0098	2/19/14	2/13/15	Stock TO15 STD	FF19781	AIR LIQUIDE	2000 psig		1 ppm	Y.Z.	
A-0099	2/24/14	3/3/14	TO15 IS	9887 A0087	1 ppm	1.5	30	50	W.D.	
A-0100			STD	A0088/A0001						
A-0101			LCS	9570/9385						
A-0102			4PCH	9519						
A-0103			4PCH5	A0102	50 ppb	3.0	30	5		
A-0104			FORM50	9520	8.9 ppm	0.25	45	50		
A-0105			SILOX	9584	500 ppb	3.0	30			

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig stristp)
290	316	30	9.23.14	WAZ092314A	1.24, 1.34, 0.25	+ 30 + 30
221						+ +
170						+ +
287						+ +
316	189			WAZ092314B		+ +
289						+ +
317						+ +
366						+ +
95						+ +
189						+ +
192	226			WAZ092314C		+ +
133						+ +
190						+ +
389						+ +
226						+ +
192	99			WAZ092314D		+ +
450						+ +
136						+ +
205						+ +
192						+ +
201	552			WAZ092314E		+ +
1100						+ +
233						+ +
133						+ +
552						+ +

Cleaned by: _____ Page # _____

Form C151

QC Canister Cleaning Logbook

Centek Laboratories, LLC

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)
239	432	30	9-25-14	WAR092514A	1.0, 3.0, 0.25	- 30 +
100						+ +
362						+ +
225						- +
232						- +
191	87			WAR092514B		- +
325						+ +
562						+ +
1188						+ +
87						+ +
332	458			WAR092514C		+ +
553						+ +
545						+ +
318						+ +
458						+ +
324	236			WAR092514D		+ +
102						+ +
328						+ +
130						+ +
236						+ +
177	327			WAR092514E		+ +
174						+ +
173						- +
94						+ +
327						+ +

Cleaned by: _____ Form C151 Page # _____

Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092322.D Vial: 3
 Acq On : 24 Sep 2014 2:42 am Operator: RJP
 Sample : WAC092314C Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 24 08:20:53 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

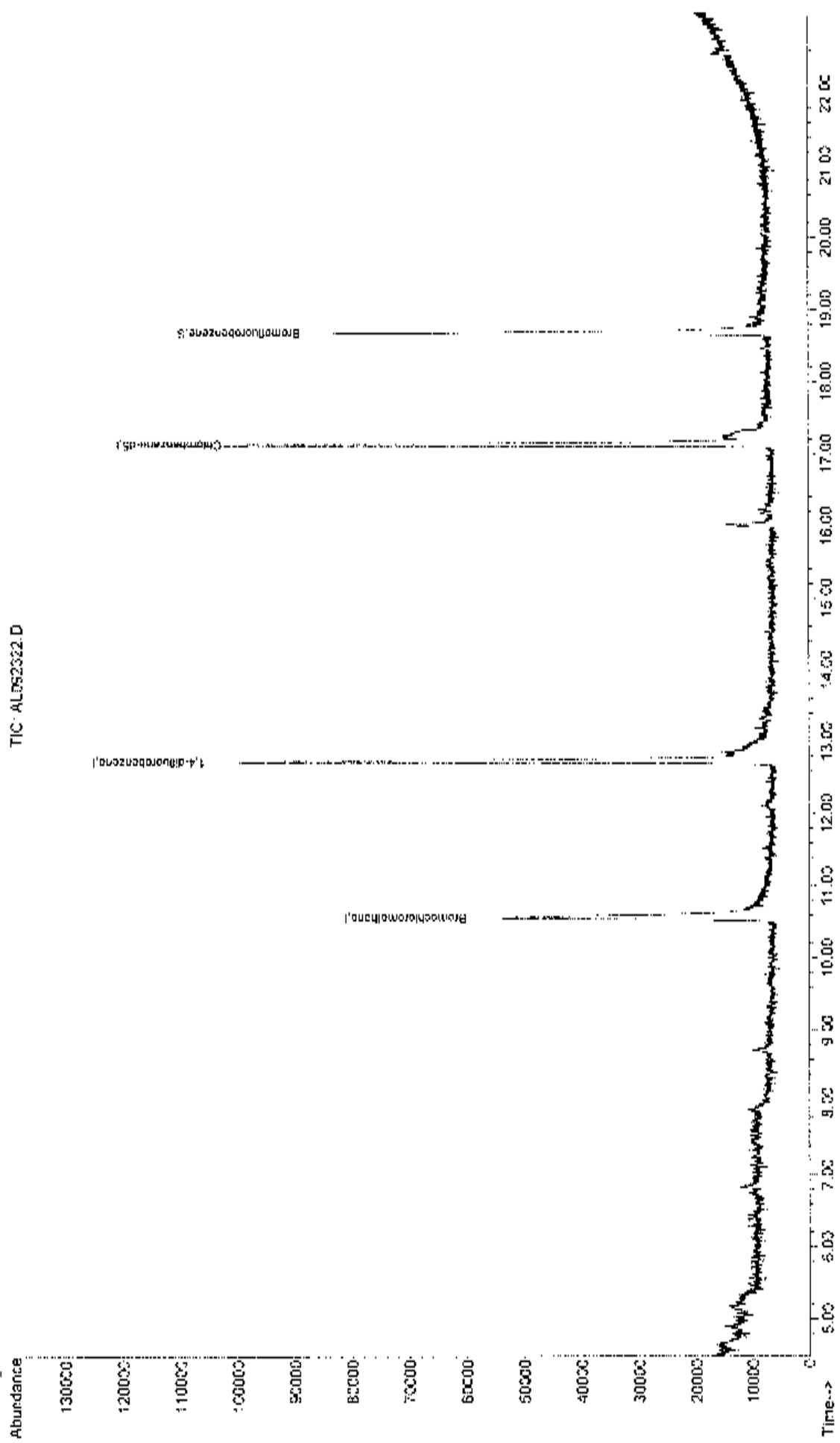
Internal Standards	R.T.	QTon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	32848	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	132082	1.00	ppb	0.00
51) Chlorobenzene-d5	17.13	117	94552	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 48472m 0.72 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery - 72.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2014SEPT\A1092322.D Vial: 3
 Acq On : 24 Sep 2014 2:42 am Operator: RJP
 Sample : WAC092314C Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 25 10:59 2014 Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092323.D Vial: 4
 Acq On : 24 Sep 2014 3:20 am Operator: RJP
 Sample : WAC092314D Inst : MSD #1
 Misc : A910 LUG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 24 08:20:54 2014 Quant Results File: A910_LUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_LUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : LUG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	32109	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	130778	1.00	ppb	0.00
51) Chlorobenzene-d5	17.13	117	93357	1.00	ppb	0.00

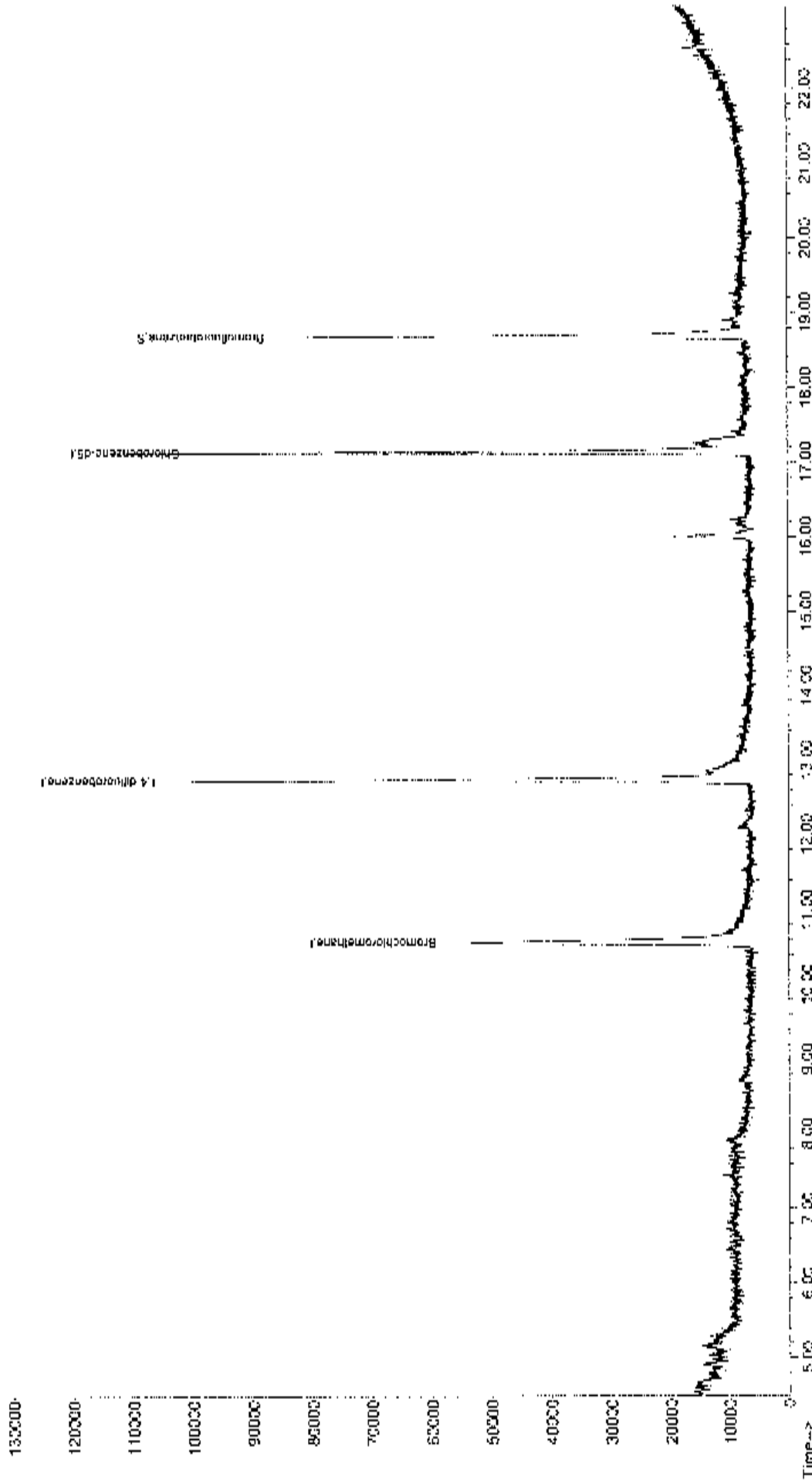
System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 48319m 0.73 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 73.00%

Target Compounds Qvalue

Data File : C:\MSDCHEM\1\DATA2\2014SEPT\ALC92323.D Vial: 4
 Acq Co : 24 Sep 2014 3:20 am Operator: RJP
 Sample : WAC092314D Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 25 10:59 2014 Quant Results File: A910_1UG.RES

Method : C:\MSDCHEM\1\METHODS\A910_1UG.M (RTB Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration

Abundance TIC: ALC92323.D



Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092325.D Vial: 6
 Acq On : 24 Sep 2014 4:35 am Operator: RJP
 Sample : WAC092314F Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 24 08:20:56 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	31744	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	129214	1.00	ppb	0.01
51) Chlorobenzene-d5	17.13	117	94883	1.00	ppb	0.00

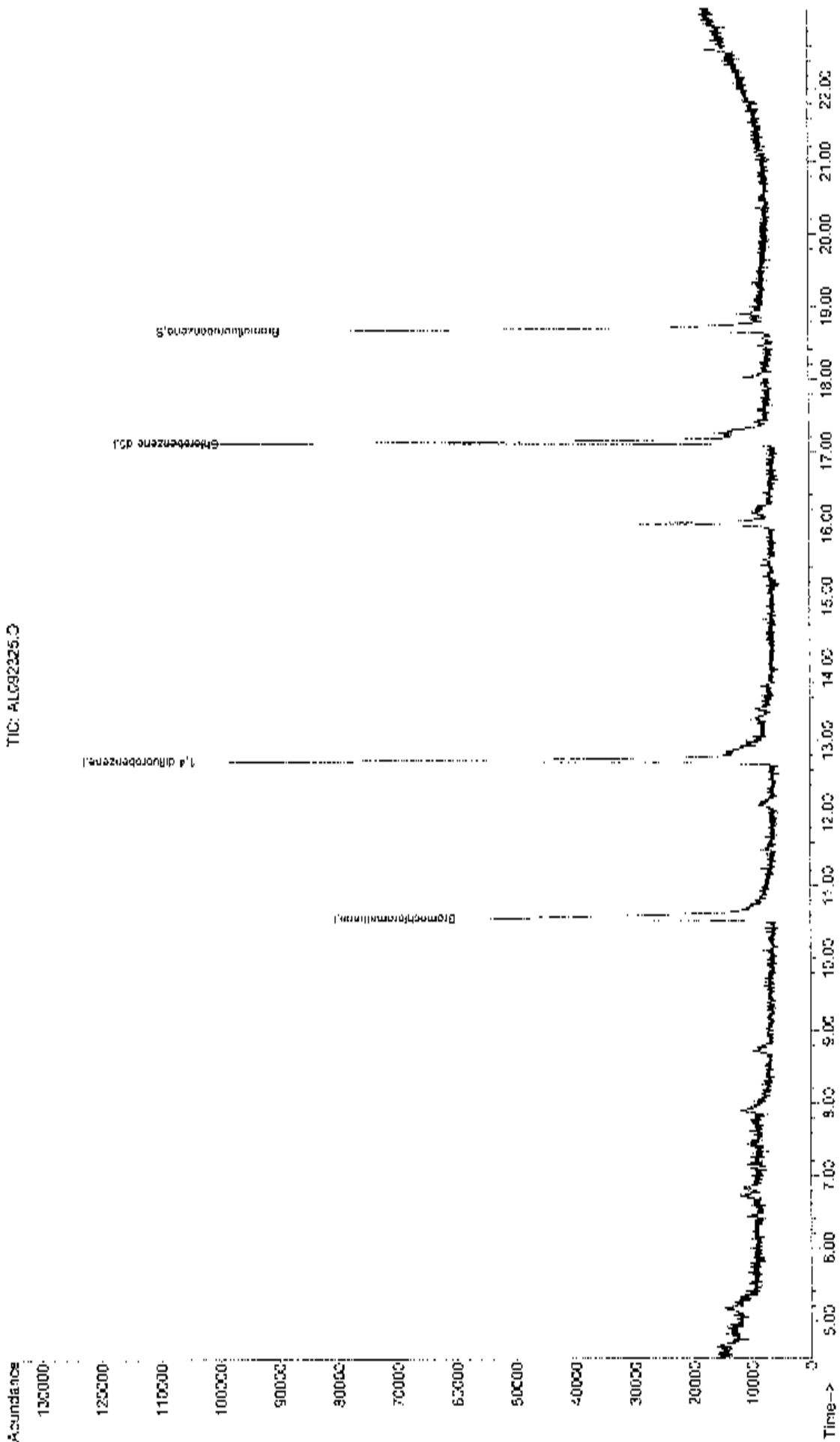
System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 50747m 0.76 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 76.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092325.D Vial: 6
Acq On : 24 Sep 2014 4:35 am Operator: RJP
Sample : WAC092314F Inst : MSD #1
Misc : A91C_1UG Multiplr: 1.00
MS Integration Params: REEINT.P
Quant Time: Sep 25 11:00 2014 Quant Results File: A91C_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RIE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 06 11:33:09 2014
Response via : Initial Calibration

TIC: AL092325.D



Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092507.D Vial: 3
 Acq On : 25 Sep 2014 4:42 pm Operator: RJP
 Sample : WAC092514C Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 25 22:08:46 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

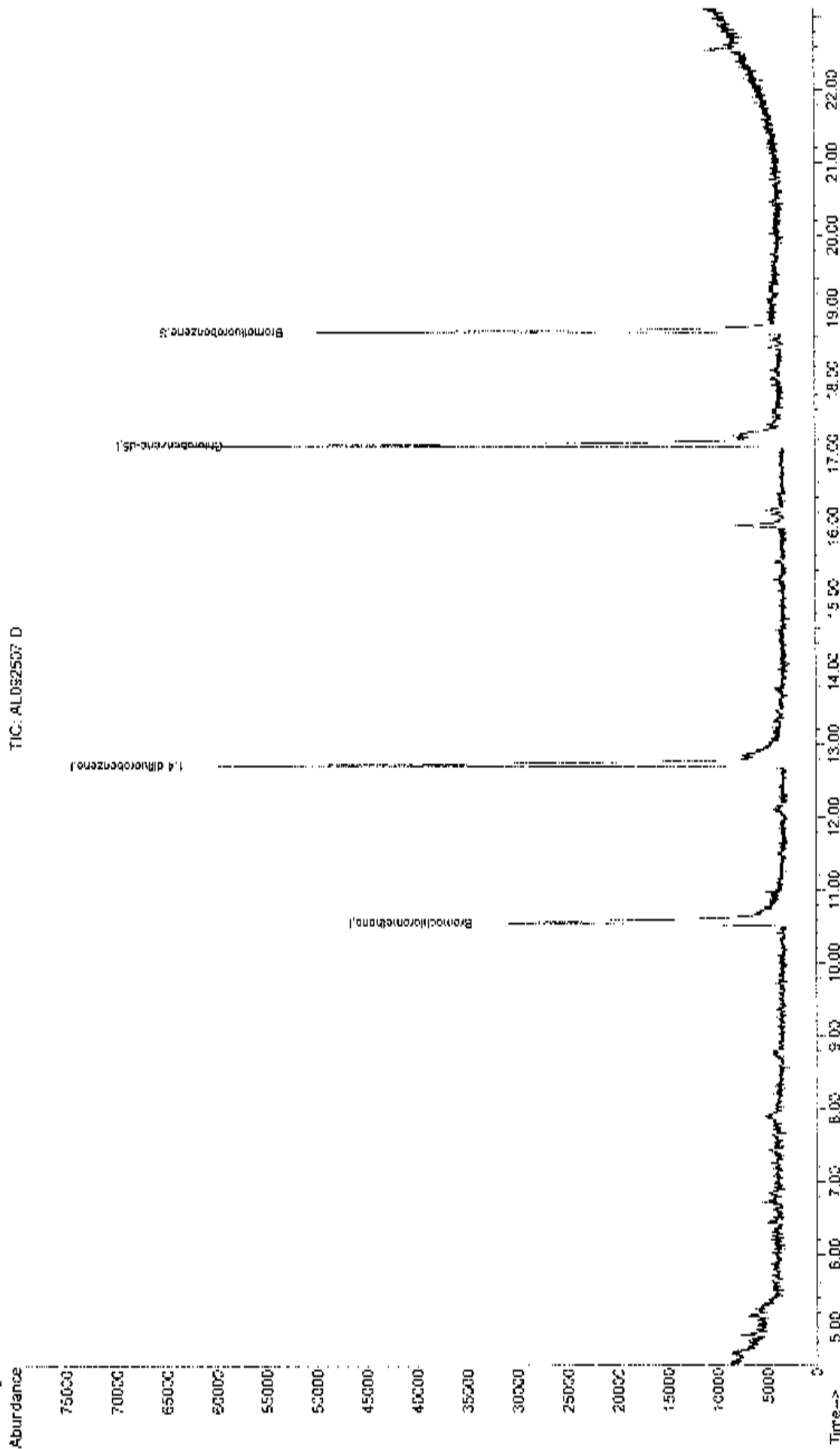
Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	20116	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.72	114	79845	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	57549	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.67 95 30305m 0.74 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 74.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092507.D Vial: 3
Acq On : 25 Sep 2014 4:42 pm Operator: RJP
Sample : WAC092514C Inst : MSD #1
Misc : A910_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 8:38 2014 Quant Results File: A910_1UG.RES

Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 06 11:35:09 2014
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092508.D Vial: 4
 Acq On : 25 Sep 2014 5:18 pm Operator: RJP
 Sample : WAC092514D Inst : MSD #1
 Misc : A910 IUG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 25 22:08:47 2014 Quant Results File: A910_IUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : IUG_RUN

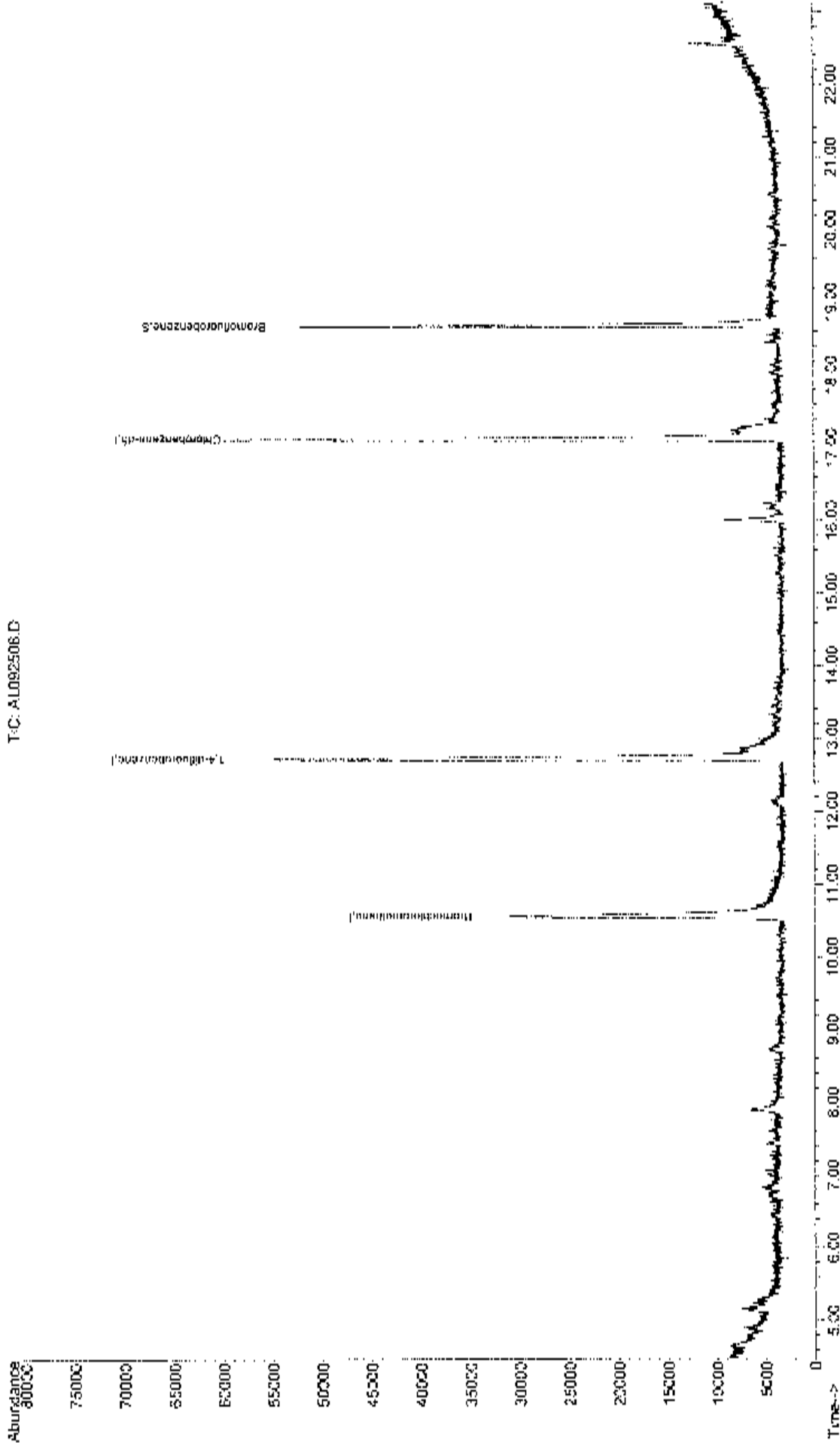
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	20663	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	80086	1.00	ppb	0.01
51) Chlorobenzene-d5	17.13	117	59515	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 30329m 0.72 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 72.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2014SEPT\ALC92508.D Vial: 5
 Acq On : 25 Sep 2014 5:18 pm Operator: RJF
 Sample : WAC092514D Inst : MSD #1
 Misc : A910_IUG Multiplr: 1.00
 MS Integration Params: REFINE.P
 Quant Time: Sep 29 8:38 2014 Quant Results File: A910_IUG.RES

Method : C:\HPCHEM\1\METHODS\A910_IUG.M (RTE Integration)
 Title : 50-15 VOA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092509.D Vial: 5
 Acq On : 25 Sep 2014 5:55 pm Operator: RJP
 Sample : WAC092514E Inst : MSD #1
 Misc : A910 1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 25 22:08:48 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

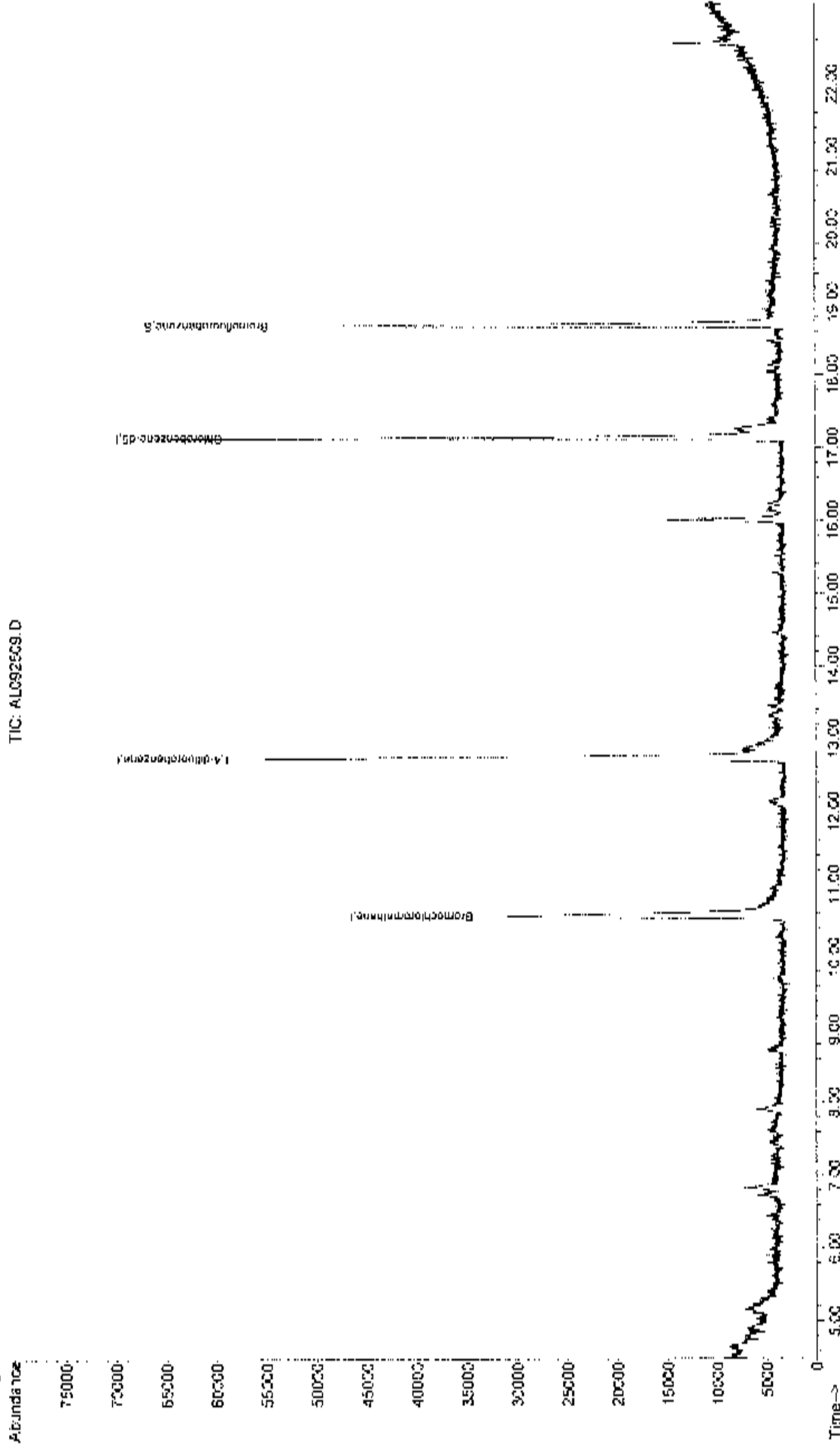
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.56	128	20269	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	79100	1.00	ppb	0.01
51) Chlorobenzene-d5	17.13	117	58226	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 30566m 0.74 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 74.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092509.D Vial: 5
 Acq On : 25 Sep 2014 5:55 pm Operator: RJP
 Sample : WACC92514E Inst : MSD #1
 Misc : A910_10G Multiplr: 1.00
 MS Integrator Params: RTEINT.P
 Quant Time: Sep 29 8:45 2014 Quant Results File: A910_10G.RES

Method : C:\HPCHEM\1\METHODS\A910_10G.M (RTE Integrator)
 Title : 10-15 VCM Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\2014SEPT\AL092510.D Vial: 6
 Acq On : 25 Sep 2014 6:30 pm Operator: RJP
 Sample : WAC092514F Inst : MSD #1
 Misc : A910 1UG Multiplr: 1.00
 MS Integration Params: RTEINT.F
 Quant Time: Sep 25 22:08:49 2014 Quant Results File: A910_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A910_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Sep 11 09:20:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.56	128	19957	1.00	ppb	0.02
36) 1,4-difluorobenzene	12.73	114	80292	1.00	ppb	0.00
51) Chlorobenzene-d5	17.12	117	57310	1.00	ppb	0.00

System Monitoring Compounds
 67) Bromofluorobenzene 18.68 95 29577m 0.73 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 73.00%

Target Compounds Qvalue

Data File : C:\EPCHEM\1\DATA2\2014SEPT\AL092510.D Vial: 5
 Acq On : 25 Sep 2014 6:30 pm Operator: RJF
 Sample : WAC092514F Inst : MSD #1
 Misc : A910_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 29 8:46 2014 Quant Results File: A910_1UG.RES

Method : C:\EPCHEM\1\METHODS\A910_1UG.M (RT3 Integrator)
 Title : TO-15 VCA Standards for 5 point calibration
 Last Update : Mon Oct 06 11:33:09 2014
 Response via : Initial Calibration

