



June 17, 2010
Ref. No. 31129-073

Mr. Jaspal Walia
Project Manager
New York State Department of Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

Subject: Vapor Intrusion Sampling Results, 130 and 134 Preston Road
Leica, Inc. Site; Erie County, Cheektowaga, New York
Inactive Hazardous Waste Disposal Site No. 915156

Dear Mr. Walia:

Enclosed you will find a copy of the "Vapor Intrusion Sampling Results, 130 and 134 Preston Road, Cheektowaga, New York" report prepared by EnviroGroup Limited for your review.

If you have any questions regarding this report, please feel free to call me at 801-303-1092.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert E. McPeak, Jr.", written in a cursive style.

Robert E. McPeak, Jr., P.E., LEP
Department Manager, Environmental Services

REM/lhc

Enclosure

cc: J. Egan (w/enclosure)
C. Grabinski (w/enclosure)
E. Lovenduski (w/out enclosure)
C. O'Connor, NYSDOH (w/enclosure)



June 16, 2010

Mr. Robert McPeak, PE, LEP
Energy Solutions
100 Mill Plain Road, Second Floor
Mailbox No. 106
Danbury, CT

RE: Vapor Intrusion Sampling Results
130 and 134 Preston Road, Cheektowaga, New York

Dear Bob:

This letter presents a summary of the final laboratory data reports (Attachment A, B and C) for air (indoor and ambient) and sub-slab vapor samples collected from the two homes at 130 and 134 Preston Road on February 25, March 25, and March 25-April 9, 2010 in accordance with the January 21, 2009 approval of the revised Vapor Intrusion Investigation Work Plan from the New York State Department of Environmental Conservation (NYSDEC). The following sections of the letter describe the sampling procedures, results, and conclusions of the investigation.

Sampling Procedures

On February 25, 2010, one indoor air and one sub-slab vapor sample were collected at 130 Preston Road, and two indoor air samples and one sub-slab vapor sample were collected at 134 Preston Road. One ambient air sample was collected between the homes.

On March 25, 2010, a second round of samples was collected from each residence, as well as three ambient air samples and two air samples from the Leica on-site treatment system. Also, one longer term (14 day) passive indoor air sample from each residence and one long term passive ambient air sample was collected from March 25 through April 9, 2010. The sampling procedures are described below.

Sub-Slab Vapor Samples

In accordance with our December 23, 2009 Indoor Air Sampling and Analysis Plan, two sub-slab vapor samples (130 PRE-SS and 134 PRE-SS) were collected from the residences at 130 and 134 Preston Road (Figure 1) on February 25, 2010. A second, confirmatory round of sub-slab vapor samples was collected on March 25, 2010.

During both the February and March sampling events, the two temporary sub-slab vapor implants (Figure 1) were constructed by drilling ½ inch diameter holes through the building slab using a rotary hammer drill to a depth of approximately 2 inches below the bottom of the slab. Sub-slab vapor probes were constructed using 1/4 inch outside diameter (O.D.) Nylaflo[®] tubing with acrylic screens. Screens were placed at approximately 2 inches below the bottom of the concrete. The tubing was extended up the center of the borehole to approximately 3 feet above ground surface and was fitted with an air-tight valve.

The annulus surrounding the tubing was backfilled with clean, glass beads to approximately 3 inches below the slab surface. The remaining annulus was backfilled to grade with hydrated bentonite clay.

Sub-slab vapor probes were not disturbed for at least 1/2 hour after installation and before sampling. Sub-slab vapor samples were collected utilizing the same sampling procedure at each location, as follows:

- Three probe volumes (i.e., the volume of tubing and screen) were calculated based on the diameter of the tubing and purged prior to sample collection;
- The flow rate for purging did not exceed 200 milliliters (ml) per minute;
- The flow rate for sampling was set for approximately 0.7 ml per minute for the February sampling event (24 hours for 1 liter) and 4.2 ml per minute for the March sampling event (24 hours for 6 liters) and was controlled by laboratory-set regulators installed on the sample canisters;
- For the February sampling event, sub-slab vapor samples were collected in 1 liter stainless steel canisters certified clean by Centek Laboratory (Centek). For the March sampling event, sub-slab vapor samples were collected into 6 liter stainless steel canisters certified clean by Air Toxics, LTD. Both laboratories are Environmental Laboratory Approval Program (ELAP)-certified;
- Sample canisters were connected to the probe tubing by an air-tight valve, which allowed purging and tracer gas testing using a 60 milliliter (ml) calibrated gas-tight syringe; and
- The volume of each sub-slab vapor sample collected exceeded the minimum volume required to achieve the minimum reporting limit.

Tracer gas (helium) shrouds were placed over each sub-slab vapor sample location prior to sampling to ensure that ambient air was not being pulled into the canisters during sampling. This was accomplished by placing a clean, small plastic shroud over each probe location. An air-tight seal was placed on the ground surface around the edge of the shroud where it contacted the ground. Prior to purging or sampling activities, helium tracer gas was released via a small diameter tube, placed through the side of the shroud, into the enclosure beneath the shroud. The sub-slab vapor tube, fitted with an air-tight valve, extended up through the air-tight seal to the exterior side of the shroud. The valve was then connected to the sampling tube and canister (both outside of the shroud). A sample of the air inside the shroud was measured through a second port using a portable helium detector to determine the concentration of helium within the enclosure beneath the shroud.

Three purge volumes (calculated based on the volume of probe tubing and screen) were purged from the sub-slab vapor tube through the shroud and into a tedlar bag. The tedlar bag was then connected to a portable helium detector to measure the presence of helium gas in the purged vapors. If high concentrations (>10% of the shroud concentration as per sampling plan and NYSDOH guidance) of helium had been observed in the sample, the sub-slab seal and shroud seal would have been checked and/or enhanced to reduce the infiltration of ambient air into the enclosure and another sample collected. If helium concentrations were less than 10%, a sample was collected and submitted for laboratory analysis. Helium gas was not detected in sub-slab vapor at any location during sub-slab sampling.

Samples collected during the February sampling event were submitted to Centek. Due to apparent anomalous detections of trichloroethylene (TCE) during the February sampling event, a second round of samples was collected in March, 2010 and submitted to a different laboratory; Air Toxics. Furthermore, Air Toxics provided passive sample media and analysis for indoor and ambient air to provide an additional data set for evaluation.

Indoor Air and Ambient Air Samples

During each sampling event, indoor air samples (130-PRE-IA and 134-PRE-IA) were collected contemporaneously with each sub-slab vapor sample at locations away from vents and windows using stainless steel canisters, certified clean by the laboratory (Centek or Air Toxics) with laboratory set 24-hour flow regulators. Indoor air samples were collected at approximately 3 to 5 feet above the floor in the basement of the home. One duplicate indoor air sample was collected during each of the sampling events (134 PRE-IA2DUP and 134 PRE-IA2DUP) from 134 Preston Road.

One ambient air sample was collected during each sampling event using a stainless steel canister certified clean by the laboratory (Centek or Air Toxics) with a laboratory set 24-hour flow regulator. The ambient air samples were collected at a location on the west side of 134 Preston Road approximately 3 feet above ground surface, to be representative of air which might be drawn into the building. The ambient air sample canisters were placed on a garden hose reel at the location shown on Figure 1.

During the March, 2010 sampling event, two (AA-TS and AA-PL) additional ambient air samples were collected from the Leica site. Sample AA-TS was placed on the chain link fence immediately south of the on-site treatment system. Sample AA-PL was placed on the chain link fence which runs along the southeastern property line approximately 300 feet south of the on-site treatment system, or half the distance between the treatment system and 134/130 Preston Road (Figure 1).

In addition, between March 25 and April 9, 2010, two passive indoor air and one passive ambient air samples were collected using Radiello® 130 samplers provided by Air Toxics, LTD. One passive indoor air sample was collocated with each of the Summa canister indoor air samples at each of the residences, and the passive ambient air sample was collocated with the ambient air sampling location on the west side of 134 Preston Road.

Laboratory Analyses

Sub-slab vapor, indoor air and ambient air samples collected on February 25, 2010 were submitted to Centek Laboratory in Syracuse, New York for VOC analysis by EPA Method TO-15. Samples collected on March 25, 2010 were submitted to Air Toxics LTD in Folsom, California for VOC analysis by EPA Method TO-15. The 14-day passive indoor and ambient air samples were submitted to Air Toxics LTD for analysis of VOCs by Air Toxics Limited (ATL) Applications Method (GC/MS Application #48).

Centek Laboratory results are provided in Appendix A, Air Toxics Summa canister results in Appendix B, and the Air Toxics Radiello® results in Appendix C. Sampling information is provided in the field notes in Appendix D.

Data Validation

All air samples have been subjected to data validation by EnviroGroup personnel. This was conducted to verify that samples were collected and tested according to the procedures specified in the *Indoor Air Sampling and Analysis Plan* (EnviroGroup, 2009). Data validation included the items discussed below for each sampling event

February 2010

Sample documentation, chain of custody, and holding time requirements were met for all samples with the exception of chain of custody documentation of sample dates, start times, analysis request, and

start/stop vacuum readings for the February sampling event. This information was not recorded on the chain of custody document at the time of sampling. The information was related to the laboratory via a telephone call.

An evaluation of the duplicate sample (134-PRE-IA DUP) indicates that it yielded good reproducibility (i.e., relative percent differences (RPDs) < 50%) for all detected compounds except isopropyl alcohol and tetrachloroethylene.

An evaluation of pre-test and post-test vacuum levels indicated that pre-test vacuum levels met acceptance criteria for all samples. In three cases (PRE-AA, 134-PRE-IA, and 134-PRE-SS), the canisters reached atmospheric pressure within the nominal 24-hour testing period (i.e., they were at 0 inches of mercury (" Hg) gauge pressure when picked up after 24 hours). These canisters may represent time-integrated samples over a period shorter than 24 hours. For each of the February samples, the sample duration was greater than 24 hours. This is unlikely to have a significant impact on the measured concentration of compounds in the air in these samples.

Laboratory control samples (LCSs), surrogate recoveries, and standards were within laboratory specified control ranges for all compounds with the exception of 1,1,1-trichloroethane, carbon tetrachloride, and TCE. The results for these compounds may be biased high due to a laboratory control sample duplicate (LCSD) being above control limits for percent recovery.

In addition, method blanks were all non-detect at the reporting limit; instrument tuning procedures are appropriately documented; canister batch cleaning is documented; and the data summary sheets are correct, based on an evaluation of the raw data.

March 2010

Sample documentation, chain of custody, and holding time requirements were met for all samples for the March sampling event.

An evaluation of the duplicate sample (134-PRE-IA2 DUP) indicates that it yielded good reproducibility (i.e., relative percent differences (RPDs) < 50%) for all detected compounds.

An evaluation of pre-test and post-test vacuum levels indicated that pre-test vacuum levels met acceptance criteria for all samples except sample 134-PRE-SS-2 (initial pressure 23.0" Hg). In one case (134-PRE-SS2), the canisters reached atmospheric pressure within the nominal 24-hour testing period (i.e., they were at 0 inches Hg gauge pressure when picked up after 24 hours). This canister may represent time-integrated samples over a period shorter than 24 hours. For sample AA-TS, the sample receipt pressure was 2.5" Hg lower than the final field sample pressure.

Laboratory control samples (LCSs), surrogate recoveries, and standards were within laboratory specified control ranges for all compounds

In addition, method blanks were all non-detect at the reporting limit; instrument tuning procedures are appropriately documented; canister batch cleaning is documented; and the data summary sheets are correct, based on an evaluation of the raw data.

March – April 2010

Laboratory quality assurance and quality control measures provided were all acceptable for the passive samples with one exception. Styrene recovery was below acceptance limits in the LCS, but was not detected in any of the Radiello[®] samples.

Where applicable, values have been flagged. A validation summary is provided as Appendix E.

Investigation Results

The results of the indoor air, ambient air, and sub-slab vapor tests for 130 and 134 Preston Road are summarized on Tables 1A, 1B, 2A, and 2B, which show concentrations for all TO-15 compounds that were detected above laboratory reporting limits in one or more samples (plus cis-1,2-dichloroethene and vinyl chloride, groundwater compounds of concern). Also shown are the New York State Department of Health (NYSDOH) Air Guidance Values (AGV) concentrations (as available); the NYSDOH Decision Matrices to which certain compounds have been assigned (Matrix 1 or 2); and residential¹ and commercial² indoor air background concentrations (NYSDOH 2006, USEPA 2001). The tables also indicate which volatile organic compounds (VOCs) have been detected in groundwater monitoring wells in the vicinity of the residences, and which VOCs were specifically identified in consumer product(s), if any, during the building survey.

Ambient Air Concentrations

With the exception of TCE during the February sampling event, several VOCs were detected in the Preston Road ambient air samples (PRE-AA (2/25/10 and 3/25/10) and AA-PRE-RAD) at concentrations that are generally typical for a suburban setting. Indoor air concentrations are shaded green when they were similar to or lower than the ambient air concentrations, indicating ambient air as a potential source of these compounds. It should be noted that TCE was detected in ambient air sample PRE-AA on February 25, 2010 at a concentration of 25 µg/m³. The source of this detection was uncertain. This anomalous concentration of TCE in ambient air (as well as in indoor and sub-slab vapor, discussed below) prompted the collection of a second round of canister sampling, as well as passive indoor air and ambient air sampling. The results of the second round of sampling yielded non-detectable concentrations of TCE in ambient air, confirming that the February results were not representative of actual conditions in the area.

For the ambient air samples (AA-TS and AA-PL) collected on the Leica site on March 25, 2010, the detected VOCs were within NYSDOH (2006) residential background outdoor air ranges, with a maximum TCE concentration of 0.31 µg/m³.

Cis-1,2 dichloroethene (cis-1,2-DCE), and vinyl chloride (compounds detected in groundwater near the Preston Road homes) were not detected in the Preston Road ambient air samples from February or March. Vinyl chloride was detected in the Leica on-site ambient air sample AA-TS collected in March at a concentration of 0.037 µg/m³ which is below the NYSDOH (2006) residential indoor and outdoor air background upper fence value of 0.4 µg/m³.

¹ Both 90th percentile and upper fence concentrations are shown for residential indoor air.

² 90th percentile concentrations shown for commercial indoor air.

130 Preston Road Indoor Air and Sub-Slab Vapor Results

The indoor air and sub-slab analytical results for the samples collected from 130 Preston Road are presented on Tables 1A and 1B and discussed below.

Indoor Air

The indoor air concentrations for all tested compounds at 130 Preston Road were generally low, being either below the reporting limit (blue shading on Tables 1A and 1B), similar to or lower than the maximum ambient air levels measured (green shading), or within NYSDOH (2006) residential background ranges (light yellow shading)³.

TCE was detected at 20 µg/m³ in indoor air on February 25, 2010. As noted above, the ambient air concentration of TCE at this time was 25 µg/m³ which suggests that ambient air was a likely source of the TCE measured in indoor air. Because of these elevated TCE concentrations, follow up sampling was conducted by 24-hour Summa canister sampling on March 25, and 14-day Radiello[®] passive sampling from March 25 through April 9. This subsequent sampling indicated non detectable indoor air concentrations of TCE.

With the exception of the anomalous TCE concentration in the February sample, none of the indoor air concentrations exceeded the AGVs, where applicable, in any of the indoor air samples. As noted above, TCE concentrations were elevated during the February sampling event, but were well below the AGVs at not detectable concentrations in the March and April samples.

Sub-Slab Vapor Concentrations and Ratios

The sub-slab vapor concentrations of several VOCs at 130 Preston Road were either below detection (including cis-1,2-DCE and vinyl chloride) or similar to ambient air levels, as indicated by the blue and green shading on Tables 1A and 1B.

The potential source and significance of the other VOCs, detected in sub-slab vapor above ambient air levels, can be evaluated by examining the sub-slab to indoor air concentration ratio⁴, as shown on Tables 1A and 1B. When contaminants were detected in the sub-slab vapor sample, sub-slab to indoor air ratios less than 1 (indoor air concentration higher than the sub-slab vapor concentration, shaded grey on Tables 1A and 1B) strongly suggest that the source of the VOCs detected in the sub-slab vapor is the building air. Ratios greater than 1 may indicate a subsurface source of at least a portion of the vapors, but do not necessarily indicate discernable impacts to indoor air, depending on the degree of attenuation that occurs as the vapors migrate across the slab. The potential for vapor intrusion impacts increases with higher sub-slab to indoor air ratios, and ratios above 100 are typically seen where the vapor intrusion pathway is complete. The highest sub-slab to indoor air ratios observed at 130 Preston Road were for cyclohexane (21.28) and carbon disulfide (21.15) in the February samples. However, these compounds were not detected in nearby groundwater or indoor air on the day when the sub-slab vapor samples were collected. Overall, the lines of evidence indicate that vapor intrusion is not occurring at discernable levels for these two compounds.

TCE was detected at 38 µg/m³ in the sub-slab sample collected on February 25, 2010. However, TCE was not detected in the sub-slab sample collected on March 25, 2010. As noted above, the presence of

³ In the case of 4-ethyltoluene, ethyl acetate, and isopropyl alcohol, concentrations are compared to the USEPA commercial background range, as no NYSDOH residential background value is available.

⁴ Note that this ratio is the inverse of the attenuation factor defined by Johnson and Ettinger (1991), or α .

TCE in the sub-slab vapor is likely a result of a temporary source in ambient air nearby the property indicated by similar high TCE concentrations in both ambient air and indoor air on that date.

The remaining principle compounds of concern in groundwater (cis-1,2-DCE and vinyl chloride) were not detected in any of the samples collected.

134 Preston Road Indoor Air and Sub-Slab Vapor Results

The indoor air and sub-slab analytical results for the samples collected from 134 Preston Road are presented on Tables 2A and 2B.

Indoor Air

The indoor air concentrations for most compounds tested at 134 Preston Road were generally low, either being below the reporting limit (blue shading on Tables 2A and 2B), similar to or lower than the maximum ambient air levels measured (green shading), or within NYSDOH (2006) residential background ranges (light yellow shading)⁵.

Results from the February 25, 2010 sampling event indicate three compounds (1,2-dichloroethane, cis-1,2-DCE), and, tetrachloroethene (PCE) were detected in indoor air above typical indoor air background values (in addition to the anomalous TCE in all media). However, with the possible exception of cis-1,2-DCE, when compared to the associated sub-slab sample results, as discussed below, the detection of these compounds is more likely due to indoor air source(s). A further discussion of cis-1,2-DCE is provided below.

Results from the March 25, 2010 24-hour Summa canister sampling and the 14-day Radiello[®] passive sampling events indicate that only 1,2-dichloroethane was detected in indoor air above typical indoor air background values. Note that it was also detected at slightly lower concentrations in the sub-slab, as indicated by the grey shading on Tables 2A and 2B. Vinyl chloride was detected in both the sample and the duplicate at 0.16 and 0.17 $\mu\text{g}/\text{m}^3$ which is below the NYSDOH Matrix 1 threshold for action of 0.25 $\mu\text{g}/\text{m}^3$. In addition, vinyl chloride was not detected in the sub-slab in either sampling event. TCE was detected at low background levels (0.084 $\mu\text{g}/\text{m}^3$) in the 14-day Radiello[®] passive indoor air sample from this home.

Sub-Slab Vapor Concentrations and Ratios

In most cases the sub-slab vapor concentrations of VOCs were either below detection or similar to ambient air levels, as indicated by the blue and green shading on Tables 2A and 2B. In some cases however, VOCs were detected in sub-slab vapor above ambient air levels. As described in detail above, the potential source and significance of VOCs detected in sub-slab vapor above ambient air levels can be evaluated by examining the sub-slab to indoor air concentration ratio, based on collocated samples. A sub-slab to indoor air ratio of 100 was not exceeded for any of the VOCs analyzed at 134 Preston Road. During the February sampling event, cis-1,2-DCE was detected in the sub-slab vapor and indoor air at a ratio of 12.99. It is possible, based on the ratio and the presence of this compound in nearby groundwater, that a portion of the cis-1,2-DCE noted in indoor air was due to vapor intrusion. The highest ratios seen in both the February and March sampling event for any compound were less than 20, indicating a low potential for the compounds detected in indoor air to be due to vapor intrusion. However, during the March sampling event, cis-1,2-DCE was detected at low concentrations in the sub-slab (8.7 $\mu\text{g}/\text{m}^3$), but

⁵ In the case of ethyl acetate and isopropyl alcohol, concentrations are compared to the USEPA commercial background range, as no NYSDOH residential background value is available.

not in indoor air. When compared to the NYSDOH decision matrix, these February and March sub-slab vapor and indoor air detections of cis-1,2-DCE suggest no further action. Note that only trace levels of TCE, well below NYSDOH Decision matrix levels of concern, were detected in the sub-slab in the March event.

On-Site Treatment System Sample Results

The March on-site treatment system sample results are presented on Table 3. These data, along with the on-site ambient air samples (AA-TS and AA-PL), were collected to assist in a determination of whether the on-site treatment system was a plausible source for the TCE detections in the February 25, 2010 sample results from Preston Road.

Although several VOCs were detected in both treatment system samples (TREATMENT IN and TREATMENT OUT) collected in March, there was little evidence of chlorinated VOCs in ambient air samples collected at the treatment system (AA-TS) or to the south on the southeastern property line (AA-PL). Vinyl chloride and TCE were the only chlorinated VOCs detected at a concentration of 0.031 and 0.31 $\mu\text{g}/\text{m}^3$ respectively at AA-TS. All chlorinated VOCs were at non-detectable concentrations at sample locations AA-PL to the south located directly in line between the treatment system and the Preston Road homes. Furthermore, the wind direction during both the February and March sampling events was similar for approximately half of the sampling events duration. Based on the on-site ambient air sample results from the March 25, 2010 sampling event and the residential 14-day passive sample results (non-detectable or very low concentrations of TCE), it does not appear that the treatment system was a likely source for the TCE detected in the February samples. No further evaluation was conducted for the treatment system air samples.

Conclusions

During the February, 2010 sampling event, an apparent ambient air source of TCE affected the sampling data. The source of these TCE detections is unknown, but it is not likely to be a result of effluent from the treatment system at the Leica site. Based on these analogous TCE concentrations, this February data is considered suspect for this compound, and therefore may not be representative of TCE concentrations in ambient air, indoor air, and sub-slab vapor at the locations tested.

During the March 2010 and the 14-day passive indoor air sampling events, none of the VOCs detected in indoor air at 130 or 134 Preston Road exceeded the NYSDOH AGVs or the minimum indoor air decision matrix values where applicable. March data is considered more representative of the local ambient, indoor air, and sub-slab vapor conditions.

The probable source of each VOC detected in the indoor air at 130 and 134 Preston Road is indicated by the color shading of each compound name on Tables 1A, 1B, 2A, and 2B, (far left column) based on the various lines of evidence discussed above. First, several compounds are shaded blue, because all indoor air concentrations were below detection. Other compounds are attributed to ambient air (green shading), because all indoor air concentrations were similar to or lower than ambient air concentrations.

The color used to shade each compound (far left column) indicates the predominant line of evidence, although more than one line of evidence usually supports the source attribution decision. In general, compounds with consistently low sub-slab to indoor air ratios (less than 1) are shaded gray, indicating that an indoor source is highly likely. The compounds shaded light yellow indicate the concentrations are within NYSDOH residential background, based on consistency with typical background concentration levels, relatively low sub-slab vapor to indoor air ratios, and a lack of detection in groundwater (as

Mr. Robert McPeak
16 June 2010
Page 9

applicable). The remaining compound (cis-1,2-DCE on Table 2A) is shaded bright yellow indicating an indoor air detection above residential background during the February sampling event. The sub-slab to indoor air ratio for this compound from February samples, although greater than 1, is still modest indicating some potential for vapor intrusion contribution. However, for the March samples, cis-1,2-DCE was detected at a similar concentration in the sub-slab, but was not detected in indoor air. When both the February and March sample results for cis-1,2-DCE are compared to NYSDOH Matrix 2, no further action is indicated.

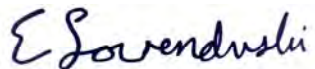
The data shows that the VOCs detected in nearby groundwater monitoring wells (MW-26 and MW-26A) have not affected the sub-slab vapor or indoor air of these two selected "worst case" residences above NYSDOH Decision Matrix criteria.

Recommendations

When the March indoor air and sub-slab vapor concentrations of those compounds assigned to NYSDOH (2006) decision matrices are compared to the matrices, no further action is indicated for the vapor intrusion pathway. This finding is also consistent with our evaluation of the various lines of evidence for all compounds detected in the indoor air at both 130 and 134 Preston Road, as discussed above.

Should you have any questions regarding the information included in this letter, please contact us at 518-258-3859.

Respectfully submitted,
Eric Lovenduski

A handwritten signature in blue ink that reads "E Lovenduski".

Senior Project Manager

Cc: Carl Grabinski
John Egan

Attachments:

Table 1A – Summary of Indoor Air, Sub-slab and Ambient Air Analytical Results, 130 Preston Road, February, 2010
Table 1B – Summary of Indoor Air, Sub-slab and Ambient Air Analytical Results, 130 Preston Road, March & April, 2010
Table 2A – Summary of Indoor Air, Sub-slab and Ambient Air Analytical Results, 134 Preston Road, February, 2010
Table 2B – Summary of Indoor Air, Sub-slab and Ambient Air Analytical Results, 134 Preston Road, March & April, 2010
Table 3 – Summary of Ambient Air and Treatment System Air Analytical Results, Former Leica Site.

Figure 1 – Sample Location Map

Appendix A - Final laboratory analytical results – Centek
Appendix B - Final laboratory analytical results – Air Toxics Summa samples
Appendix C - Final laboratory analytical results – Air Toxics Radiello[®] passive samples
Appendix D – Resident questionnaires and chemical inventories
Appendix E – Data validation summary

TABLES

TABLE 1A
SUMMARY OF INDOOR AIR, SUB-SLAB VAPOR, AND AMBIENT AIR ANALYTICAL RESULTS (µG/M³)
130 PRESTON ROAD
CHEEKTOWAGA, NEW YORK
FEBRUARY, 2010

FEBRUARY, 2010											
SAMPLE TYPE: SAMPLE LOCATION: SAMPLE IDENTIFICATION: SAMPLE DATE: PARAMETERS	Detected in Groundwater Near Building	NYSDOH Air Guideline Value	NYSDOH Decision Matrix	Sub-slab	Indoor Air		Outdoor Air		NYSDOH Residential Indoor Air Background (90th%)	NYSDOH Residential Indoor Air Background (Upper Fence)	EPA BASE (2001) Commercial Indoor Air Background (90%)
130-PRE-SS				130-PRE-IA	130-PRE-SS/130-PRE-IA	PRE-AA					
2/25/2010				2/25/2010	2/25/2010	2/25/2010					
1,1,1-Trichloroethane			2	ND < 0.83 C >	ND < 0.83 C >		ND < 0.83 C <>	3.1	2.5	20.6	
1,1-Dichloroethene			2	ND < 0.60 C >	ND < 0.60 C >		ND < 0.60 C <>	<0.25	0.4	<0.9	
1,2,4-Trimethylbenzene				2.5 C >	ND < 0.75 C >	> 3.33	ND < 0.75 C <>	9.5	9.8	9.5	
1,2-Dichloroethane				ND < 0.62 C >	ND < 0.62 C >		ND < 0.62 C <>	<0.25	0.4	<0.9	
1,3,5-Trimethylbenzene				0.75 C >	ND < 0.75 C >		ND < 0.75 C <>	3.6	3.9	3.7	
2,2,4-trimethylpentane				0.90 C >	ND < 0.71 C >	> 1.27	ND < 0.71 C <>	6.5	5	4.5	
2-Butanone (MEK)				ND < 0.90 C >	0.60 J C >	< 1.5	ND < 0.90 C <>	16	16	12	
4-Ethyltoluene				1.0 C >	ND < 0.75 C >	> 1.33	ND < 0.75 C <>	NV	NV	3.6	
Acetone				18 C >	9.7 C >	1.86	7.0 C <>	110	115	99	
Benzene				3.8 C >	0.65 C >	5.85	0.65 C <>	15	13	9.4	
Bromodichloromethane				NA	NA	NA	NA	NV	NV	NV	
Carbon Disulfide				10 C >	ND < 0.47 C >	> 21.28	ND < 0.47 C <>	NV	NV	4.2	
Carbon Tetrachloride			1	ND < 0.96 C >	ND < 0.26 C >	< 3.69	0.77 C <> HB	0.8	1.3	<1.3	
Chloroform				4.8 C >	ND < 0.74 C >	> 6.49	ND < 0.74 C <>	1.4	1.2	1.1	
Chloromethane				ND < 0.31 C >	0.69 C >	< 0.45	0.78 C <>	3.3	4.2	3.7	
cis-1,2-Dichloroethene	Yes		2	ND < 0.60 C >	ND < 0.60 C >		ND < 0.60 C <>	<0.25	0.4	<1.9	
Cyclohexane				11 C >	ND < 0.52 C >	> 21.15	ND < 0.52 C <>	8.1	6.3	NV	
Dichlorodifluoromethane (Freon 12)				2.3 C >	2.4 C >	0.96	2.3 C <>	15	10	16.5	
Ethanol				NA	NA	NA	NA	1400	1300	210	
Ethyl acetate				ND < 0.92 C >	3.2 C >	< 0.29	ND < 0.92 C <>	NV	NV	5.4	
Ethylbenzene				2.0 C >	ND < 0.66 C >	> 3.03	ND < 0.66 C <>	7.3	6.4	5.7	
Heptane				7.3 C >	ND < 0.62 C >	> 11.77	ND < 0.62 C <>	19	18	NV	
Hexane				7.2 C >	ND < 0.54 C >	> 13.33	ND < 0.54 C <>	18	14	10.2	
Isopropyl alcohol				ND < 0.37 C >	7.9 C >	< 0.05	4.1 C <>	NV	NV	250	
Methylene chloride		60		ND < 0.53 C >	0.53 C >	< 1.0	ND < 0.53 C <>	22	16	10	
Propylbenzene				NA	NA	NA	NA	1.7	1.5	NV	
Styrene				ND < 0.65 C >	ND < 0.65 C >		ND < 0.65 C <>	1.3	1.4	1.9	
Tetrachloroethene		100	2	ND < 1.0 C >	ND < 1.0 C >		0.97 J C <>	2.9	2.5	15.9	
Toluene	Yes			8.8 C >	1.4 C >	6.29	0.92	58	57	43	
Trichloroethene		5	1	38 C > HB	20 C > HB	1.9	25 C <> HB	0.5	0.5	4.2	
Trichlorofluoromethane (Freon 11)				1.1 C >	1.4 C >	0.79	1.1 C <>	17	12	18.1	
m,p-Xylene	Yes			6.2 C >	0.44 J C >	14.09	ND < 1.3 C <>	12	11	22.2	
o-Xylene				2.0 C >	ND < 0.66 C >	> 3.03	ND < 0.66 C <>	7.6	7.1	7.9	
Vinyl Chloride	Yes		1	ND < 0.39 C >	ND < 0.10 C >	< 3.9	ND < 0.10 C <>	<0.25	0.4	<1.9	

Notes:

- 1) µg/m³ - Microgram per cubic meter.
- 2) Parameters listed were detected in a minimum of one sample.
- 3) ND - Not detected at the reporting limit shown.
- 4) J - estimated concentration
- 5) NV - No value determined for this compound.
- 6) g - initial canister pressure below 27 inches Hg
- 7) < - final canister pressure = 0 inches Hg.
- 8) G - sample receipt pressure below final field pressure.
- 9) C - missing information on chain of custody form.
- 10) > - Sample time greater than 24 hours.
- 11) P - duplicate result greater than 50% RPD.
- 12) HB - high bias due to LCSD above control limits for recovery
- 13) Samples from 2/25/10 were analyzed by Centek Laboratories and from 3/25/10 by Air Toxics
- 14) Samples from 4/9/10 were solvent extractable Radiello samples, left in place for 14 days
- 15) NA - Not Analyzed

Explanation of Color Coding

	not detected
	Similar to ambient air concentrations (likely due to ambient air)
	indoor air higher than sub-slab concentration (probable above ground source)
	less than or equal to upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	above upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	sub-slab vapor to indoor air ratio > 100:1
	probable source identified (not related to known groundwater or soil contamination)

Color coding applied to compound name denotes predominant line of evidence indicating probable source.

TABLE 1B
SUMMARY OF INDOOR AIR, SUB-SLAB VAPOR, AND AMBIENT AIR ANALYTICAL RESULTS (µG/M³)
130 PRESTON ROAD
CHEEKTOWAGA, NEW YORK
MARCH & APRIL, 2010

SAMPLE TYPE: SAMPLE LOCATION: SAMPLE IDENTIFICATION: SAMPLE DATE: PARAMETERS	Detected in Groundwater Near Building	NYSDOH Air Guideline Value	NYSDOH Decision Matrix	Sub-Slab	Indoor Air	SS to IA Ratio	Outdoor Air	Indoor Air	Outdoor Air	NYSDOH Residential Indoor Air Background (90th%)	NYSDOH Residential Indoor Air Background (Upper Fence)	EPA BASE (2001) Commercial Indoor Air Background (90%)
				130 PRE SS-2 3/25/2010	130 PRE-IA-2 3/25/2010	130 PRE SS-2/IA-2 3/25/2010	PRE-AA 3/25/2010	130 PRE-IA RAD 4/9/2010	AA-PRE RAD 4/9/2010			
1,1,1-Trichloroethane			2	ND < 0.80	ND < 0.92		ND < 0.76	ND < 0.080	ND < 0.080	3.1	2.5	20.6
1,1-Dichloroethene			2	ND < 0.58	ND < 0.67		ND < 0.55	NA	NA	<0.25	0.4	<0.9
1,2,4-Trimethylbenzene				1.0	ND < 0.82	> 1.22	ND < 0.68	0.41 J	0.29 J	9.5	9.8	9.5
1,2-Dichloroethane				0.96	ND < 0.68	> 1.41	ND < 0.56	0.10	ND < 0.064	<0.25	0.4	<0.9
1,3,5-Trimethylbenzene				ND < 0.72	ND < 0.82		ND < 0.68	NA	NA	3.6	3.9	3.7
2,2,4-trimethylpentane				NA	NA	NA	NA	NA	NA	6.5	5	4.5
2-Butanone (MEK)				2.2	ND < 0.50	> 4.40	0.62	0.93	0.16	16	16	12
4-Ethyltoluene				1.3	ND < 0.82	> 1.59	ND < 0.68	NA	NA	NV	NV	3.6
Acetone				2.3	8.4	0.27	3.9	0.91	0.36	110	115	99
Benzene				ND < 0.47	ND < 0.54		0.50	0.73	0.80	15	13	9.4
Bromodichloromethane				ND < 0.98	ND < 1.1		ND < 0.93	NA	NA	NV	NV	NV
Carbon Disulfide				2.3	ND < 2.6	> 0.88	ND < 2.2	NA	NA	NV	NV	4.2
Carbon Tetrachloride			1	0.37	0.43	0.86	0.46	0.34	0.43	0.8	1.3	<1.3
Chloroform				ND < 0.71	ND < 0.82		ND < 0.68	0.69	ND < 0.066	1.4	1.2	1.1
Chloromethane				ND < 0.30	1.0	< 0.30	0.97	NA	NA	3.3	4.2	3.7
cis-1,2-Dichloroethene	Yes		2	ND < 0.58	ND < 0.67		ND < 0.55	NA	NA	<0.25	0.4	<1.9
Cyclohexane				2.6	ND < 0.58	> 4.48	ND < 0.48	0.29	0.12	8.1	6.3	NV
Dichlorodifluoromethane (Freon 12)				2.5	2.6	0.96	2.6	NA	NA	15	10	16.5
Ethanol				NA	NA	NA	NA	3.3	ND < 0.049	1400	1300	210
Ethyl acetate				NA	NA	NA	NA	1.7	ND < 0.25	NV	NV	5.4
Ethylbenzene				0.84	ND < 0.73	> 1.15	ND < 0.60	0.39	0.28	7.3	6.4	5.7
Heptane				ND < 0.60	ND < 0.69		ND < 0.57	0.36	0.34	19	18	NV
Hexane				ND < 0.51	ND < 0.59		ND < 0.49	0.78	0.67	18	14	10.2
Isopropyl alcohol				ND < 1.8	39	< 0.05	ND < 1.7	7.9	ND < 0.19	NV	NV	250
Methylene chloride		60		ND < 1.0	ND < 1.2		ND < 0.96	NA	NA	22	16	10
Propylbenzene				NA	NA	NA	NA	0.095	ND < 0.087	1.7	1.5	NV
Styrene				1.3	ND < 0.72	> 1.81	ND < 0.59	ND < 0.081	ND < 0.081	1.3	1.4	1.9
Tetrachloroethene		100	2	ND < 0.99	ND < 1.1		ND < 0.94	0.15	0.19	2.9	2.5	15.9
Toluene	Yes			4.9	1.2	4.08	0.83	2.0	1.8	58	57	43
Trichloroethene		5	1	ND < 0.16	ND < 0.18		ND < 0.15	ND < 0.072	ND < 0.072	0.5	0.5	4.2
Trichlorofluoromethane (Freon 11)				1.2	1.6	0.75	1.3	NA	NA	17	12	18.1
m,p-Xylene	Yes			2.3	ND < 0.73	> 3.15	ND < 0.60	1.2	0.84	12	11	22.2
o-Xylene				0.85	ND < 0.73	> 1.16	ND < 0.60	0.37	0.33	7.6	7.1	7.9
Vinyl Chloride	Yes		1	ND < 0.037	ND < 0.043		ND < 0.036	NA	NA	<0.25	0.4	<1.9

Notes:

- 1) ug/m³ - Microgram per cubic meter.
- 2) Parameters listed were detected in a minimum of one sample.
- 3) ND - Not detected at the reporting limit shown.
- 4) J - estimated concentration
- 5) NV - No value determined for this compound.
- 6) g - initial canister pressure below 27 inches Hg
- 7) < - final canister pressure = 0 inches Hg.
- 8) G - sample receipt pressure below final field pressure.
- 9) C - missing information on chain of custody form.
- 10) > - Sample time greater than 24 hours.
- 11) P - duplicate result greater than 50% RPD.
- 12) HB - high bias due to LCSD above control limits for recovery
- 13) Samples from 2/25/10 were analyzed by Centek Laboratories and from 3/25/10 by Air Toxics
- 14) Samples from 4/9/10 were solvent extractable Radiello samples, left in place for 14 days
- 15) NA - Not Analyzed

Explanation of Color Coding

	not detected
	Similar to ambient air concentrations (likely due to ambient air)
	indoor air higher than sub-slab concentration (probable above ground source)
	less than or equal to upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	above upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	sub-slab vapor to indoor air ratio > 100:1
	probable source identified (not related to known groundwater or soil contamination)

Color coding applied to compound name denotes predominant line of evidence indicating probable source.

TABLE 2A
SUMMARY OF INDOOR AIR, SUB-SLAB VAPOR, AND AMBIENT AIR ANALYTICAL RESULTS (µG/M³)
134 PRESTON ROAD
CHEEKTOWAGA, NEW YORK
FEBRUARY, 2010

SAMPLE TYPE:	Detected in Groundwater Near Building	NYSDOH Air Guideline Value	NYSDOH Decision Matrix	Sub-slab	Indoor Air		Sub-slab/Indoor Air Ratio	Ambient Air	NYSDOH Residential Indoor Air Background (90th%)	NYSDOH Residential Indoor Air Background (Upper Fence)	EPA BASE (2001) Commercial Indoor Air Background (90%)	
SAMPLE LOCATION:				134 PRE SS	134 PRE IA	134 PRE IADUP	134PRESS/134PRE IA	PRE AA				
SAMPLE IDENTIFICATION:				2/25/2010	2/25/2010	2/25/2010	2/25/2010	2/25/2010				
SAMPLE DATE:												
PARAMETERS												
1,1,1-Trichloroethane			2	4.0 C <=> HB	ND < 0.83 C <=>	ND < 0.83 C <=>	>	4.82	ND < 0.83 C <=>	3.1	2.5	20.6
1,1-Dichloroethene			2	ND < 0.60 C <=>	ND < 0.60 C <=>	ND < 0.60 C <=>		NA	ND < 0.60 C <=>	<0.25	0.4	<0.9
1,2,4-Trimethylbenzene				2.3 C <=>	ND < 0.75 C <=>	ND < 0.75 C <=>	>	3.07	ND < 0.75 C <=>	9.5	9.8	9.5
1,2-Dichloroethane				ND < 0.62 C <=>	1.4 C <=>	1.4 C <=>	<	0.44	ND < 0.62 C <=>	<0.25	0.4	<0.9
1,3,5-Trimethylbenzene				0.60 J C <=>	ND < 0.75 C <=>	ND < 0.75 C <=>	>	0.8	ND < 0.75 C <=>	3.6	3.9	3.7
2,2,4-trimethylpentane				0.47 J C <=>	0.47 J C <=>	ND < 0.71 C <=>		1.0	ND < 0.71 C <=>	6.5	5	4.5
2-Butanone (MEK)				ND < 0.90 C <=>	1.4 C <=>	1.4 C <=>	<	0.64	ND < 0.90 C <=>	16	16	12
4-Ethyltoluene				1.0 C <=>	ND < 0.75 C <=>	ND < 0.75 C <=>	>	1.33	ND < 0.75 C <=>	NV	NV	3.6
Acetone				20 C <=>	16 C <=>	15 C <=>		1.25	7.0 C <=>	110	115	99
Benzene				2.5 C <=>	0.78 C <=>	0.71 C <=>		3.21	0.65 C <=>	15	13	9.4
Bromodichloromethane				NA	NA	NA		NA	NA	NV	NV	NV
Carbon Disulfide				8.2 C <=>	ND < 0.47 C <=>	ND < 0.47 C <=>	>	17.45	ND < 0.47 C <=>	NV	NV	4.2
Carbon Tetrachloride			1	ND < 0.96 C <=>	ND < 0.26 C <=>	0.70 C <=> HB	<	3.69	0.77 C <=>	0.8	1.3	<1.3
Chloroform				9.7 C <=>	0.65 J C <=>	0.65 J C <=>		14.92	ND < 0.74 C <=>	1.4	1.2	1.1
Chloromethane				ND < 0.31 C <=>	0.67 C <=>	0.73 C <=>	<	0.46	0.78 C <=>	3.3	4.2	3.7
cis-1,2-Dichloroethene	Yes		2	10 C <=>	0.77 C <=>	0.69 C <=>		12.99	ND < 0.60 C <=>	<0.25	0.4	<1.9
Cyclohexane				5.9 C <=>	ND < 0.52 C <=>	ND < 0.52 C <=>	>	11.35	ND < 0.52 C <=>	8.1	6.3	NV
Dichlorodifluoromethane (Freon 12)				2.2 C <=>	2.5 C <=>	2.5 C <=>		0.88	2.3 C <=>	15	10	16.5
Ethanol				NA	NA	NA		NA	NA	1400	1300	210
Ethyl acetate				ND < 0.92 C <=>	ND < 0.92 C <=>	ND < 0.92 C <=>			ND < 0.92 C <=>	NV	NV	5.4
Ethylbenzene				1.6 C <=>	0.44 J C <=>	ND < 0.66 C <=>		3.64	ND < 0.66 C <=>	7.3	6.4	5.7
n-Heptane				7.5 C <=>	0.50 J C <=>	ND < 0.62 C <=>		15	ND < 0.62 C <=>	19	18	NV
Hexane				7.3 C <=>	ND < 0.54 C <=>	ND < 0.54 C <=>	>	13.52	ND < 0.54 C <=>	18	14	10.2
Isopropyl alcohol				ND < 0.37 C <=>	14 C <=>	7.5 C <=> P	<	0.03	4.1 C <=>	NV	NV	250
Methylene chloride		60		ND < 0.53 C <=>	0.42 J C <=>	ND < 0.53 C <=>	<	1.26	ND < 0.53 C <=>	22	16	10
Propylbenzene				NA	NA	NA		NA	NA	1.7	1.5	NV
Styrene				ND < 0.65 C <=>	ND < 0.65 C <=>	ND < 0.65 C <=>		NA	ND < 0.65 C <=>	1.3	1.4	1.9
Tetrachloroethene		100	2	1.8 C <=>	8.8 C <=>	0.90 J C <=> P		0.20	0.97 J C <=>	2.9	2.5	15.9
Toluene	Yes			7.9 C <=>	1.8 C <=>	1.6 C <=>		4.39	0.92 C <=>	58	57	43
Trichloroethene		5	1	57 C <=> HB	26 C <=> HB	37 C <=> HB		2.19	25 C <=> HB	0.5	0.5	4.2
Trichlorofluoromethane (Freon 11)				0.97 C <=>	1.3 C <=>	2.1 C <=>		0.75	1.1 C <=>	17	12	18.1
m,p-Xylene	Yes			5.5 C <=>	0.97 J C <=>	0.88 C <=>		5.67	ND < 1.3 C <=>	12	11	22.2
o-Xylene				1.9 C <=>	ND < 0.66 C <=>	ND < 0.66 C <=>	>	2.88	ND < 0.66 C <=>	7.6	7.1	7.9
Vinyl Chloride	Yes		1	ND < 0.39 C <=>	0.31 C <=>	0.31 C <=>	<	1.26	ND < 0.10 C <=>	<0.25	0.4	<1.9

Notes:

- 1) ug/m³ - Microgram per cubic meter.
- 2) Parameters listed were detected in a minimum of one sample.
- 3) ND - Not detected at the reporting limit shown.
- 4) J - estimated concentration
- 5) NV - No value determined for this compound.
- 6) g - initial canister pressure below 27 inches Hg
- 7) < - final canister pressure = 0 inches Hg.
- 8) G - sample receipt pressure below final field pressure.
- 9) C - missing information on chain of custody form.
- 10) > - Sample time greater than 24 hours.
- 11) P - duplicate result greater than 50% RPD.
- 12) HB - high bias due to LCSD above control limits for recovery
- 13) Samples from 2/25/10 were analyzed by Centek Laboratories and from 3/25/10 by Air Toxics
- 14) Samples from 4/9/10 were solvent extractable Radiello samples, left in place for 14 days
- 15) NA - Not Analyzed

Explanation of Color Coding

	not detected
	Similar to ambient air concentrations (likely due to ambient air)
	indoor air higher than sub-slab concentration (probable above ground source)
	less than or equal to upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	above upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	sub-slab vapor to indoor air ratio > 100:1
	probable source identified (not related to known groundwater or soil contamination)

Color coding applied to compound name denotes predominant line of evidence indicating probable source.

TABLE 2B
SUMMARY OF INDOOR AIR, SUB-SLAB VAPOR, AND AMBIENT AIR ANALYTICAL RESULTS (µG/M³)
134 PRESTON ROAD
CHEEKTOWAGA, NEW YORK
MARCH & APRIL, 2010

SAMPLE TYPE:	Detected in Groundwater Near Building	NYSDOH Air Guideline Value	NYSDOH Decision Matrix	Sub-slab	Indoor Air		SS/IA Ratio	Ambient Air	Indoor Air	Ambient Air	NYSDOH Residential Indoor Air Background (90th%)	NYSDOH Residential Indoor Air Background (Upper Fence)	EPA BASE (2001) Commercial Indoor Air Background (90%)
SAMPLE LOCATION:				134 PRE SS-2	134 PRE IA2	134 PRE IA2DUP	134PRE SS3/IA2	PRE-AA	14 Day Passive	14 Day Passive			
SAMPLE IDENTIFICATION:				3/25/2010	3/25/2010	3/25/2010	3/25/2010	3/25/2010	134 PRE-IA RAD	AA-PRE RAD			
SAMPLE DATE:				3/25/2010	3/25/2010	3/25/2010	3/25/2010	3/25/2010	4/9/2010	4/9/2010			
PARAMETERS													
1,1,1-Trichloroethane			2	1.7 g <	ND < 0.83	ND < 0.81	> 2.05	ND < 0.76	0.089	ND < 0.080	3.1	2.5	20.6
1,1-Dichloroethene			2	ND < 0.54 g <	ND < 0.60	ND < 0.59		ND < 0.55	NA	NA	<0.25	0.4	<0.9
1,2,4-Trimethylbenzene				1.6 g <	1.1	ND < 0.73	1.45	ND < 0.68	0.48 J	0.29 J	9.5	9.8	9.5
1,2-Dichloroethane				1.2 g <	1.6	1.7	0.75	ND < 0.56	1.9	ND < 0.064	<0.25	0.4	<0.9
1,3,5-Trimethylbenzene				ND < 0.67 g <	ND < 0.75	ND < 0.73		ND < 0.68	NA	NA	3.6	3.9	3.7
2,2,4-trimethylpentane				NA	NA	NA		NA	NA	NA	6.5	5	4.5
2-Butanone (MEK)				6.6 g <	1.6	1.2	4.13	0.62	0.92	0.16	16	16	12
4-Ethyltoluene				1.6 g <	ND < 0.75	ND < 0.73	> 2.13	ND < 0.68	NA	NA	NV	NV	3.6
Acetone				17 g <	26	24	0.65	3.9	2.8	0.36	110	115	99
Benzene				1.6 g <	0.65	0.55	2.46	0.50	0.80	0.80	15	13	9.4
Bromodichloromethane				1.8 g <	ND < 1.0	ND < 1.0	> 1.80	ND < 0.93	NA	NA	NV	NV	NV
Carbon Disulfide				5.0 g <	ND < 2.4	ND < 2.3	> 2.08	ND < 2.2	NA	NA	NV	NV	4.2
Carbon Tetrachloride			1	0.41 g <	0.44	0.43	0.93	0.46	0.39	0.43	0.8	1.3	<1.3
Chloroform				10 g <	ND < 0.74	ND < 0.73	> 13.51	ND < 0.68	0.55	ND < 0.066	1.4	1.2	1.1
Chloromethane				0.38 g <	0.90	0.85	0.42	0.97	NA	NA	3.3	4.2	3.7
cis-1,2-Dichloroethene	Yes		2	8.7 g <	ND < 0.60	ND < 0.59	> 14.50	ND < 0.55	NA	NA	<0.25	0.4	<1.9
Cyclohexane				10 g <	0.80	ND < 0.51	12.50	ND < 0.48	0.20	0.12	8.1	6.3	NV
Dichlorodifluoromethane (Freon 12)				2.5 g <	2.6	2.4	0.96	2.6	NA	NA	15	10	16.5
Ethanol				NA	NA	NA		NA	9.9	ND < 0.049	1400	1300	210
Ethyl acetate				NA	NA	NA		NA	0.30	ND < 0.25	NV	NV	5.4
Ethylbenzene				2.4 g <	ND < 0.66	ND < 0.65	> 3.64	ND < 0.6	0.58	0.28	7.3	6.4	5.7
n-Heptane				3.2 g <	ND < 0.62	ND < 0.61	> 5.16	ND < 0.57	0.44	0.34	19	18	NV
Hexane				3.9 g <	0.61	ND < 0.52	6.39	ND < 0.49	0.77	0.67	18	14	10.2
Isopropyl alcohol				8.8 g <	2.4	ND < 1.8	3.67	ND < 1.7	4.7	ND < 0.19	NV	NV	250
Methylene chloride		60		4.0 g <	ND < 1.0	ND < 1.0	> 4.00	ND < 0.96	NA	NA	22	16	10
Propylbenzene				NA	NA	NA		NA	ND < 0.087	ND < 0.087	1.7	1.5	NV
Styrene				1.9 g <	ND < 0.65	ND < 0.63	> 2.92	ND < 0.59	ND < 0.081	ND < 0.081	1.3	1.4	1.9
Tetrachloroethene		100	2	ND < 0.92 g <	ND < 1.0	ND < 1.0		ND < 0.94	0.29	0.19	2.9	2.5	15.9
Toluene	Yes			29 g <	2.9	1.5	b	0.83	2.2	1.8	58	57	43
Trichloroethene		5	1	0.42 g <	ND < 0.16	ND < 0.16	> 2.63	ND < 0.15	0.084	ND < 0.072	0.5	0.5	4.2
Trichlorofluoromethane (Freon 11)				1.2 g <	1.5	1.4	0.80	1.3	NA	NA	17	12	18.1
m,p-Xylene	Yes			5.4 g <	1.6	1.2	3.38	ND < 0.6	1.6	0.84	12	11	22.2
o-Xylene				1.8 g <	ND < 0.66	ND < 0.65	2.73	ND < 0.6	0.52	0.33	7.6	7.1	7.9
Vinyl Chloride	Yes		1	ND < 0.035 g <	0.16	0.17	< 0.22	ND < 0.036	NA	NA	<0.25	0.4	<1.9

Notes:

- 1) ug/m³ - Microgram per cubic meter.
- 2) Parameters listed were detected in a minimum of one sample.
- 3) ND - Not detected at the reporting limit shown.
- 4) J - estimated concentration
- 5) NV - No value determined for this compound.
- 6) g - initial canister pressure below 27 inches Hg
- 7) < - final canister pressure = 0 inches Hg.
- 8) G - sample receipt pressure below final field pressure.
- 9) C - missing information on chain of custody form.
- 10) > - Sample time greater than 24 hours.
- 11) P - duplicate result greater than 50% RPD.
- 12) HB - high bias due to LCSD above control limits for recovery
- 13) Samples from 2/25/10 were analyzed by Centek Laboratories and from 3/25/10 by Air Toxics
- 14) Samples from 4/9/10 were solvent extractable Radiello samples, left in place for 14 days

Explanation of Color Coding

	not detected
	Similar to ambient air concentrations (likely due to ambient air)
	Indoor air higher than sub-slab concentration (probable above ground source)
	less than or equal to upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	above upper fence residential background concentration or commercial background where no residential values (NYSDOH, 2006)
	sub-slab vapor to indoor air ratio > 100:1
	probable source identified (not related to known groundwater or soil contamination)

Color coding applied to compound name denotes predominant line of evidence indicating probable source.

TABLE 3
SUMMARY OF MARCH ON-SITE TREATMENT SYSTEM AND AMBIENT AIR ANALYTICAL RESULTS (µg/M³)
FORMER LEICA FACILITY
CHEEKTOWAGA, NEW YORK

SAMPLE TYPE: SAMPLE LOCATION: SAMPLE IDENTIFICATION: SAMPLE DATE: PARAMETERS	Detected in Groundwater Near Building	NYSDOH Air Guideline Value	NYSDOH Decision Matrix	On-Site Treatment System		Ambient Air	
				Before Carbon	After Carbon		
				Treatment In	Treatment Out	AA-PL	AA-TS
				3/25/2010	3/25/2010	3/25/2010	3/25/2010
1,1,1-Trichloroethane			2	18000	3000	ND < 0.84	ND < 0.77 G
1,1-Dichloroethane				12000	960	ND < 0.63	ND < 0.57 G
1,1-Dichloroethene			2	750	110	ND < 0.61	ND < 0.56 G
1,2,4-Trimethylbenzene				130	ND < 16	ND < 0.76	ND < 0.69 G
1,2-Dichloroethane				ND < 65	ND < 13	ND < 0.63	ND < 0.57 G
1,3,5-Trimethylbenzene				ND < 79	ND < 16	ND < 0.76	ND < 0.69 G
1,4-Dichlorobenzene				ND < 97	ND < 19	ND < 0.93	ND < 0.85 G
2,2,4-Trimethylpentane				NV	NV	NV	NV
2-Butanone (MEK)				ND < 47	12	0.73	0.48 G
4-Ethyltoluene				ND < 79	ND < 16	ND < 0.76	ND < 0.69 G
Acetone				ND < 150	ND < 38	3.5	3.1 G
Benzene				ND < 51	ND < 10	ND < 0.50	0.47 G
Carbon Disulfide				ND < 50	ND < 50	ND < 2.4	ND < 2.2 G
Carbon Tetrachloride			1	ND < 100	ND < 4.0	0.42	0.36 G
Chloroethane				2000	ND < 8.5	ND < 0.41	ND < 0.37 G
Chloroform				ND < 79	ND < 16	ND < 0.76	ND < 0.69 G
Chloromethane				ND < 130	ND < 6.6	0.95	0.80 G
cis-1,2-Dichloroethene	Yes		2	48000	1300	ND < 0.61	ND < 0.56 G
Cyclohexane				310	ND < 11	ND < 0.53	0.85 G
Dichlorodifluoromethane (Freon 12)				ND < 80	ND < 16	2.4	2.1 G
Ethyl acetate				NV	NV	NV	NV
Ethylbenzene				660	ND < 14	ND < 0.67	ND < 0.61 G
Heptane				ND < 66	ND < 13	ND < 0.64	ND < 0.58 G
Hexane				ND < 57	ND < 11	ND < 0.55	ND < 0.50 G
Isopropyl alcohol				ND < 160	ND < 40	ND < 1.9	ND < 1.7 G
Methyl Isobutyl ketone				ND < 66	ND < 13	ND < 0.63	ND < 0.58 G
Methyl tert-Butyl Ether				ND < 58	ND < 12	ND < 0.56	ND < 0.51 G
Methylene chloride		60		ND < 56	ND < 22	ND < 1.1	ND < 0.98 G
Styrene				ND < 68	ND < 14	ND < 0.66	ND < 0.60 G
Tetrachloroethene		100	2	ND < 110	ND < 22	ND < 1.0	ND < 0.96 G
Toluene	Yes			610	ND < 12	ND < 0.58	2.0 G
trans-1,2-Dichloroethene				660	14	ND < 0.61	ND < 0.56 G
Trichloroethene	Yes	5	1	30000	ND < 3.5	ND < 0.17	0.31 G
Trichlorofluoromethane (Freon 11)				ND < 90	ND < 18	1.2	1.0 G
m,p-Xylene	Yes			1300	ND < 14	ND < 0.67	ND < 0.61 G
o-Xylene				570	ND < 14	ND < 0.67	ND < 0.61 G
Vinyl Chloride	Yes		1	27000	1200	ND < 0.040	0.037 G

Notes:

- 1) ug/m³ - Microgram per cubic meter.
- 2) Parameters listed were detected in a minimum of one sample.
- 3) ND - Not detected at the reporting limit shown.
- 4) J - estimated concentration
- 5) NV - No value determined for this compound.
- 6) 3/25/10 samples analyzed by Air Toxics
- 7) G - sample receipt pressure was lower than final field pressure.

FIGURE



APPENDIX A

TO-15 Package Review Checklist

Client: Enviro Group Limited Project: LEICA SDG: 21003003

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

Comments: _____

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

Comments: SEE CASE NARRATIVE

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

Comments: SEE CASE NARRATIVE

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

Comments: _____

TO-15 Package Review Checklist

Client: Enviro Group Limited Project: LEICA SDG: C1003003

		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: *SEE LAB NARRATIVE

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: [Signature] Date: 4/25/10

QC Supervisor: [Signature] Date: 4/25/10



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CEN TEK LABORATORIES, LLC143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752**Analytical Report**NYSDOH ELAP
Certificate No. 11830

Eric Lovenduski
EnviroGroup Limited
46 Lake Avenue, Suite 102
Saratoga Springs, NY 12866

Monday, March 08, 2010
Order No.: C1003003

TEL: (518) 258-3859
FAX
RE: LEICA

Dear Eric Lovenduski:

Centek Laboratories, LLC received 6 sample(s) on 3/1/2010 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. 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.

Please contact us at (315) 431-9730, if you would like any additional information regarding this report.

Sincerely,

Russell Pellegrino
Laboratory 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.

ASP CAT B LIKE DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List
2. Case Narrative
 - a. Corrective actions
3. Sample Summary Form
4. Sample Tracking History
5. Bottle Order
6. Analytical Results
 - a. Form-1
7. Quality Control Summary
 - a. QC Summary Report
 - b. IS Summary Report
 - c. MB Summary Report
 - d. LCS Summary Report
 - e. MSD Summary Report
 - f. IDL's
 - g. Calculation
8. Sample Data
 - a. Form I and (if requested) TIC's
 - b. Quantitation Report with Spectra
9. Standards Data
 - a. Initial Calibration with Quant Report
 - b. Continuing Calibration with Quant Report
10. Raw Data
 - a. Tuning Data
11. Raw QC Data
 - a. Method Blank
 - b. LCS
 - c. MS/MSD
12. Log Books
 - a. Injection Log Book
 - b. Standards Log Book
 - c. QC Canister Log Book

**Centek Laboratories****Date:** 25-Apr-10**CLIENT:** EnviroGroup Limited**Project:** -LEICA**Lab Order:** C1003003

CASE NARRATIVE

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. 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.

See Corrective Action: [1849] LCSD did not meet criteria.

See Corrective Action: [1850] Continuing Calibration did not meet criteria.

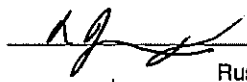
See Corrective Action: [1852] IS did not meet criteria.

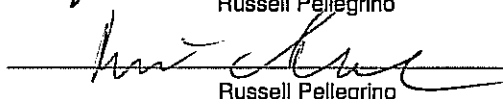
Centek Laboratories, LLC**Corrective Action Report****Date Initiated:** 03-Mar-10**Corrective Action Report ID:** 1849**Initiated By:** Russell Pellegrino**Department:** MSVOA

Corrective Action Description**CAR Summary:** LCSD did not meet criteria.**Description of Nonconformance:** LCS1UTD-030310 did not meet criteria for several RPD's & recovery. The compound was more sensitive. All other QC met criteria.**Description of Corrective Action:** The system appears to have come slightly more sensitive at the heavier compounds. Since all other QC met criteria for the compound of interest, no corrective action taken at this time. All sets of data submitted.**Performed By:** Russell Pellegrino**Completion Date:** 04-Mar-10

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

Quality Assurance Review**Nonconformance Type:** Deficiency**Further Action required by QA:** At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and ClosureTechnical Director /
Deputy Tech. Dir.:

Russell Pellegrino**Close Date:** 06-Mar-10**QA Officer Approval:**

Russell Pellegrino**QA Date:** 05-Mar-10

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 03-Mar-10

Corrective Action Report ID: 1850

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: Continuing Calibration did not meet criteria.

Description of Nonconformance: Continuing calibration did not meet criteria on 3/3/10 for bromoform & benzyl chloride. The compounds in question was more sensitive.

Description of Corrective Action: The compounds are more sensitive and was not found in the associated samples.

Performed By: Russell Pellegrino

Completion Date: 04-Mar-10

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

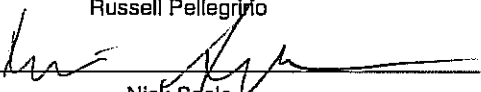
Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director /
Deputy Tech. Dir.:
Russell Pellegrino

Close Date: 05-Mar-10

QA Officer Approval:


Nick ScalaQA Date: 05-Mar-10

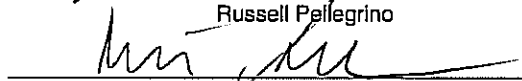
Centek Laboratories, LLC**Corrective Action Report****Date Initiated:** 03-Mar-10**Corrective Action Report ID:** 1852**Initiated By:** Russell Pellegrino**Department:** MSVOA

Corrective Action Description**CAR Summary:** IS did not meet criteria.**Description of Nonconformance:** IS was high and did not meet criteria for samples C1003003-002 & 005. Based on the chromatographic evidence this is most likely due to matrix interference.**Description of Corrective Action:** Samples were analyzed further as dilutions with results meeting criteria.**Performed By:** Russell Pellegrino**Completion Date:** 05-Mar-10

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 ClosureTechnical Director /
Deputy Tech. Dir.:

Russell Pellegrino**Close Date:** 05-Mar-10**QA Officer Approval:**

Nick Scala**QA Date:** 05-Mar-10

[illegible]

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CD1013003

Centek Laboratories, LLC

Date: 25-Apr-10

CLIENT: EnviroGroup Limited
Project: LEICA
Lab Order: C1003003

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1003003-001A	PRE-AA	579,649	2/25/2010	3/1/2010
C1003003-002A	134-PRE-SS	219,666	2/25/2010	3/1/2010
C1003003-003A	134-PRE-IA	575,660	2/25/2010	3/1/2010
C1003003-004A	134-PRE-IADUP	591,652	2/25/2010	3/1/2010
C1003003-005A	130-PRE-SS	630,522	2/25/2010	3/1/2010
C1003003-006A	130-PRE-IA	621,630	2/25/2010	3/1/2010

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: ENVIROGROUP - ALBANY

Date and Time Received:

3/1/2010

Work Order Number C1003003

Received by: DL

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name: Courier (Centek)

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: _____

SampleTrackingHistory

4/25/2010

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1003003-001A	Login	3/1/2010 2:12:20 PM	ruess	Sample Log In
C1003003-002A	Login	3/1/2010 2:13:37 PM	ruess	Sample Log In
C1003003-003A	Login	3/1/2010 2:14:37 PM	ruess	Sample Log In
C1003003-004A	Login	3/1/2010 2:15:27 PM	ruess	Sample Log In
C1003003-005A	Login	3/1/2010 2:16:25 PM	ruess	Sample Log In
C1003003-006A	Login	3/1/2010 2:19:09 PM	ruess	Sample Log In
C1003003-005A	Transfer	3/3/2010 11:54:14 AM	ADM	GC/MS Lab
C1003003-004A	Transfer	3/3/2010 11:54:14 AM	ADM	GC/MS Lab
C1003003-003A	Transfer	3/3/2010 11:54:14 AM	ADM	GC/MS Lab
C1003003-006A	Transfer	3/3/2010 11:54:14 AM	ADM	GC/MS Lab
C1003003-002A	Transfer	3/3/2010 11:54:14 AM	ADM	GC/MS Lab
C1003003-001A	Transfer	3/3/2010 11:54:14 AM	ADM	GC/MS Lab
C1003003-003A	Mark as Consumed	3/5/2010 1:04:23 PM	ADM	Consumed
C1003003-006A	Mark as Consumed	3/5/2010 1:04:23 PM	ADM	Consumed
C1003003-004A	Mark as Consumed	3/5/2010 1:04:23 PM	ADM	Consumed
C1003003-002A	Mark as Consumed	3/5/2010 1:04:23 PM	ADM	Consumed
C1003003-001A	Mark as Consumed	3/5/2010 1:04:23 PM	ADM	Consumed
C1003003-005A	Mark as Consumed	3/5/2010 1:04:23 PM	ADM	Consumed

Lab Order: C1003003
Client: EnviroGroup Limited
Project: LEICA

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1003003-001A	PRE-AA	2/25/2010	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/4/2010
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2010
C1003003-002A	134-PRE-SS			1ug/M3 by Method TO15			3/4/2010
				1ug/M3 by Method TO15			3/3/2010
C1003003-003A	134-PRE-IA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/4/2010
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2010
C1003003-004A	134-PRE-IADUP			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/4/2010
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2010
C1003003-005A	130-PRE-SS			1ug/M3 by Method TO15			3/4/2010
				1ug/M3 by Method TO15			3/3/2010
C1003003-006A	130-PRE-IA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/4/2010
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2010

Centek Laboratories, LLC

143 Midler Park Drive
Syracuse, NY 13206

TEL: 3154319730

FAX: 3154319731

BOTTLE ORDER

1679

25-Apr-10

SHIPPED TO:

Company: EnviroGroup Limited

Contact: Eric Lovenduski

Address: 46 Lake Avenue, Suite 102
Saratoga Springs, NY 12866

Phone: (518) 258-3859

Quote ID: 795

Project:

Submitted By:

Ship Date: 2/23/2010

VIA: UPS

Due Date: 2/24/2010

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC	7

Can / Reg ID	Description

219	1L Mini-Can - 1181
518	Time-Set Reg - 2785 E-series
522	Time-Set Reg - 2789 E-series
530	Time-Set Reg - 2797 E-series
569	1L Mini-Can - 141
575	1L Mini-Can - 1204
579	1L Mini-Can - 1209
591	1L Mini-Can - 1222
621	1L Mini-Can - 1252
630	1L Mini-Can - 261
649	Time-Set Reg - 3919
652	Time-Set Reg - 3922
660	Time-Set Reg - 3930
666	Time-Set Reg - 3936

Comments: 7 1L @ 24 hrs. include approximately 20 feet of the nylaflow tubing, and 6 inches of the tygon that we ordered for the Kodak project WAC 021810G-I

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			FLD			Analyst: RJP
			TO-15			
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	2.9	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.20	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	0.12	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	< 0.15	0.15		ppbV	1	3/3/2010
Chloromethane	0.37	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 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	3/3/2010
Freon 11	0.20	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.46	0.15		ppbV	1	3/3/2010
Heptane	< 0.15	0.15		ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	1.6	0.15		ppbV	1	3/3/2010
m&p-Xylene	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	0.14	0.15	J	ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.24	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	4.6	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	72.0	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	7.0	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.65	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	0.77	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	< 0.74	0.74		ug/m3	1	3/3/2010
Chloromethane	0.78	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/3/2010
Freon 11	1.1	0.86		ug/m3	1	3/3/2010

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.

. 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.3	0.75		ug/m3	1	3/3/2010
Heptane	< 0.62	0.62		ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	4.1	0.37		ug/m3	1	3/3/2010
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	0.97	1.0	J	ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	0.92	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	25	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2010

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.

. 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited

Client Sample ID: 134-PRE-SS

Lab Order: C1003003

Tag Number: 219,666

Project: LEICA

Collection Date: 2/25/2010

Lab ID: C1003003-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 BY METHOD TO15						
			FLD			Analyst: RJP
			TO-15			
1,1,1-Trichloroethane	0.73	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	0.46	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	3/3/2010
4-ethyltoluene	0.21	0.15		ppbV	1	3/3/2010
Acetone	8.2	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.77	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	0.39	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	2.6	0.75		ppbV	5	3/4/2010
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	2.0	0.15		ppbV	1	3/3/2010
Chloromethane	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	2.5	0.75		ppbV	5	3/4/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	1.7	0.75		ppbV	5	3/4/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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.

. 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-002A

Client Sample ID: 134-PRE-SS
 Tag Number: 219,666
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Ethylbenzene	0.37	0.15		ppbV	1	3/3/2010
Freon 11	0.17	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.43	0.15		ppbV	1	3/3/2010
Heptane	1.8	0.75		ppbV	5	3/4/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	2.0	0.75		ppbV	5	3/4/2010
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/3/2010
m&p-Xylene	1.2	0.30		ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	0.43	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	0.26	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	2.1	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	10	0.75		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Surr. Bromofluorobenzene	103	70-130		%REC	1	3/3/2010

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.

. 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-002A

Client Sample ID: 134-PRE-SS
 Tag Number: 219,666
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	4.0	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	2.3	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	0.60	0.75	J	ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	0.47	0.71	J	ug/m3	1	3/3/2010
4-ethyltoluene	1.0	0.75		ug/m3	1	3/3/2010
Acetone	20	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	2.5	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	2.7	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	8.2	2.4		ug/m3	5	3/4/2010
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	9.7	0.74		ug/m3	1	3/3/2010
Chloromethane	< 0.31	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	10	3.0		ug/m3	5	3/4/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	5.9	2.6		ug/m3	5	3/4/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	1.6	0.66		ug/m3	1	3/3/2010
Freon 11	0.97	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited

Client Sample ID: 134-PRE-SS

Lab Order: C1003003

Tag Number: 219,666

Project: LEICA

Collection Date: 2/25/2010

Lab ID: C1003003-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.2	0.75		ug/m3	1	3/3/2010
Heptane	7.5	3.1		ug/m3	5	3/4/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	7.3	2.7		ug/m3	5	3/4/2010
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/3/2010
m&p-Xylene	5.5	1.3		ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	1.9	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	1.8	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	7.9	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	57	4.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/3/2010

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.

ND 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	0.34	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	6.6	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.24	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	< 0.040	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	0.13	0.15	J	ppbV	1	3/3/2010
Chloromethane	0.32	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	0.19	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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.

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
Lab Order: C1003003
Project: LEICA
Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
Tag Number: 575,660
Collection Date: 2/25/2010
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15	Analyst: RJP	
Ethylbenzene	0.10	0.15	J	ppbV	1	3/3/2010
Freon 11	0.23	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.50	0.15		ppbV	1	3/3/2010
Heptane	0.12	0.15	J	ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	5.4	0.75		ppbV	5	3/4/2010
m&p-Xylene	0.22	0.30	J	ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	0.47	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	0.12	0.15	J	ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	1.3	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.46	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	4.8	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	0.12	0.040		ppbV	1	3/3/2010
Surr. Bromofluorobenzene	79.0	70-130		%REC	1	3/3/2010

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



Centek Laboratories

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	1.4	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	0.47	0.71	J	ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	16	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.78	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	0.65	0.74	J	ug/m3	1	3/3/2010
Chloromethane	0.67	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	0.77	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	0.44	0.66	J	ug/m3	1	3/3/2010
Freon 11	1.3	0.86		ug/m3	1	3/3/2010

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.

. 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.5	0.75		ug/m3	1	3/3/2010
Heptane	0.50	0.62	J	ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	14	1.9		ug/m3	5	3/4/2010
m&p-Xylene	0.97	1.3	J	ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	1.4	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	0.42	0.53	J	ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	8.8	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	1.8	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	26	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	0.31	0.10		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	0.34	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	6.0	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.22	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	0.11	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	0.13	0.15	J	ppbV	1	3/3/2010
Chloromethane	0.35	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	0.17	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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.

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 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	3/3/2010
Freon 11	0.36	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.50	0.15		ppbV	1	3/3/2010
Heptane	< 0.15	0.15		ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	3.0	0.75		ppbV	5	3/4/2010
m&p-Xylene	0.20	0.30	J	ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	0.46	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	0.13	0.15	J	ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.42	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	6.8	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	0.12	0.040		ppbV	1	3/3/2010
Surr. Bromofluorobenzene	73.0	70-130		%REC	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	1.4	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	15	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.71	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromofom	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	0.70	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	0.65	0.74	J	ug/m3	1	3/3/2010
Chloromethane	0.73	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	0.69	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/3/2010
Freon 11	2.1	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited

Client Sample ID: 134-PRE-IADUP

Lab Order: C1003003

Tag Number: 591,652

Project: LEICA

Collection Date: 2/25/2010

Lab ID: C1003003-004A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.5	0.75		ug/m3	1	3/3/2010
Heptane	< 0.62	0.62		ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	7.5	1.9		ug/m3	5	3/4/2010
m&p-Xylene	0.88	1.3	J	ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	1.4	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	0.90	1.0	J	ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	1.6	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	37	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	0.31	0.10		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-005A

Client Sample ID: 130-PRE-SS
 Tag Number: 630,522
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 BY METHOD TO15						
		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	0.50	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	0.19	0.15		ppbV	1	3/3/2010
4-ethyltoluene	0.21	0.15		ppbV	1	3/3/2010
Acetone	7.3	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	1.2	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	3.2	0.75		ppbV	5	3/4/2010
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	0.96	0.15		ppbV	1	3/3/2010
Chloromethane	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	3.0	0.75		ppbV	5	3/4/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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.

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-005A

Client Sample ID: 130-PRE-SS
 Tag Number: 630,522
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15		Analyst: RJP	
Ethylbenzene	0.45	0.15		ppbV	1	3/3/2010
Freon 11	0.20	0.15		ppbV	1	3/3/2010
Freon 113	0.10	0.15	J	ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.46	0.15		ppbV	1	3/3/2010
Heptane	1.8	0.75		ppbV	5	3/4/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	2.0	0.75		ppbV	5	3/4/2010
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/3/2010
m&p-Xylene	1.4	0.30		ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	0.45	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	2.3	0.75		ppbV	5	3/4/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	7.0	0.75		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	109	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited

Client Sample ID: 130-PRE-SS

Lab Order: C1003003

Tag Number: 630,522

Project: LEICA

Collection Date: 2/25/2010

Lab ID: C1003003-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	2.5	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	0.90	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	1.0	0.75		ug/m3	1	3/3/2010
Acetone	18	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	3.8	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	10	2.4		ug/m3	5	3/4/2010
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	4.8	0.74		ug/m3	1	3/3/2010
Chloromethane	< 0.31	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	11	2.6		ug/m3	5	3/4/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	2.0	0.66		ug/m3	1	3/3/2010
Freon 11	1.1	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited

Client Sample ID: 130-PRE-SS

Lab Order: C1003003

Tag Number: 630,522

Project: LEICA

Collection Date: 2/25/2010

Lab ID: C1003003-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Freon 113	0.78	1.2	J	ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.3	0.75		ug/m3	1	3/3/2010
Heptane	7.3	3.1		ug/m3	5	3/4/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	7.2	2.7		ug/m3	5	3/4/2010
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/3/2010
m&p-Xylene	6.2	1.3		ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	2.0	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	8.8	2.9		ug/m3	5	3/4/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	38	4.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/3/2010

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.

. 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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
 Tag Number: 621,630
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	4.0	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.20	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	< 0.040	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	< 0.15	0.15		ppbV	1	3/3/2010
Chloromethane	0.33	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	0.86	0.25		ppbV	1	3/3/2010

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.

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
Lab Order: C1003003
Project: LEICA
Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
Tag Number: 621,630
Collection Date: 2/25/2010
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	3/3/2010
Freon 11	0.24	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.47	0.15		ppbV	1	3/3/2010
Heptane	< 0.15	0.15		ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	3.2	0.75		ppbV	5	3/4/2010
m&p-Xylene	0.10	0.30	J	ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	0.20	0.30	J	ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	0.15	0.15		ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.36	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	3.7	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	80.0	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
 Tag Number: 621,630
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	9.7	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.65	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	< 0.74	0.74		ug/m3	1	3/3/2010
Chloromethane	0.69	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	3.2	0.92		ug/m3	1	3/3/2010
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/3/2010
Freon 11	1.4	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
 Tag Number: 621,630
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15	Analyst: RJP	
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.4	0.75		ug/m3	1	3/3/2010
Heptane	< 0.62	0.62		ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	7.9	1.9		ug/m3	5	3/4/2010
m&p-Xylene	0.44	1.3	J	ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	0.60	0.90	J	ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	1.4	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	20	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2010

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.

. 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

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek Laboratories, LLC

Date: 22-Apr-10

CLIENT: EnviroGroup Limited

Work Order: C1003003

Project: LEICA

Test No: TO-15

Matrix: A

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID	BR4FBZ						
C1003003-001A	72.0						
C1003003-002A	103						
C1003003-003A	79.0						
C1003003-004A	73.0						
C1003003-005A	109						
C1003003-006A	80.0						
LCS1UG-030310	96.0						
LCS1UG-030410	95.0						
LCS1UGD-030310	94.0						
MB1UG-030310	75.0						
MB1UG-030410	72.0						

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

* Surrogate recovery outside acceptance limits

Tune File : C:\HPCHEM\1\DATA\AH030302.D
Tune Time : 3 Mar 2010 12:24

Daily Calibration File : C:\HPCHEM\1\DATA\AH030302.D

		(BFB)	(IS1)	(IS2)	(IS3)
			12157	25520	23440
File	Sample	Surrogate Recovery %	Internal Standard Responses		
AH030304.D	LCS1UG-030310	96	11453	25808	24114
AH030305.D	MB1UG-030310	75	11323	25189	20956
AH030327.D	LCS1UGD-03031	94	12793	25614	23138
AH030328.D	C1003003-001A	72	11498	22361	21350
AH030329.D	C1003003-002A	103	12854	30161	44908*
AH030330.D	C1003003-003A	79	12221	25137	28382
AH030331.D	C1003003-004A	73	11616	23639	25658
AH030332.D	C1003003-005A	109	12460	30116	45602*
AH030333.D	C1003003-006A	80	12389	25451	24819

t - fails 24hr time check * - fails criteria

Created: Thu Apr 22 13:14:25 2010 MSD #1/

Run File : C:\HPCHEM\1\DATA\AH030402.D
Run Time : 4 Mar 2010 13:43

Daily Calibration File : C:\HPCHEM\1\DATA\AH030402.D

File	Sample	Surrogate	Recovery %	(IS1)	(IS2)	(IS3)
				12871	28620	25624
Internal Standard Responses						
AH030403.D	LCS1UG-030410	95		12949	28196	25143
AH030404.D	MB1UG-030410	72		12675	26413	21265
AH030415.D	C1003003-001A	75	DL5x	11276	22367	19243
AH030416.D	C1003003-002A	77	DL5x	11487	24477	24864
AH030417.D	C1003003-003A	76	DL5x	11111	21967	20208
AH030418.D	C1003003-004A	78	DL5x	11081	21346	19088
AH030419.D	C1003003-005A	73	DL5x	11426	23616	24983
AH030420.D	C1003003-006A	77	DL5x	11121	20467	17853

t - fails 24hr time check * - fails criteria

Created: Thu Apr 22 13:17:51 2010 MSD #1/

CLIENT: EnviroGroup Limited
 Work Order: C1003003
 Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UG-030310	Sample Type: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	70	130				
1,1,2-Trichloroethane	1.270	0.15	1	0	127	70	130				
1,1-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,2,4-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130				
1,2-Dibromoethane	1.250	0.15	1	0	125	70	130				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	70	130				
1,2-Dichloroethane	1.040	0.15	1	0	104	70	130				
1,2-Dichloropropane	1.200	0.15	1	0	120	70	130				
1,3,5-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,3-butadiene	1.130	0.15	1	0	113	70	130				
1,3-Dichlorobenzene	0.9700	0.15	1	0	97.0	70	130				
1,4-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dioxane	1.070	0.30	1	0	107	70	130				
2,2,4-trimethylpentane	1.090	0.15	1	0	109	70	130				
4-ethyltoluene	0.8900	0.15	1	0	89.0	70	130				
Acetone	1.230	0.30	1	0	123	70	130				
Allyl chloride	1.080	0.15	1	0	108	70	130				
Benzene	1.120	0.15	1	0	112	70	130				
Benzyl chloride	1.760	0.15	1	0	176	70	130				S
Bromodichloromethane	1.280	0.15	1	0	128	70	130				
Bromoform	1.590	0.15	1	0	159	70	130				
Bromomethane	1.080	0.15	1	0	108	70	130				S
Carbon disulfide	0.7200	0.15	1	0	72.0	70	130				
Carbon tetrachloride	1.280	0.040	1	0	128	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.100	0.15	1	0	110	70	130				

Qualifiers: J Results reported are not blank corrected
 S 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: EnviroGroup Limited
 Work Order: C1003003
 Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UG-030310	Sample Type: LCS	TestCode: 0.25CT-TCE- Units: ppbV	RunNo: 3317								
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15	SeqNo: 41349								
		Prep Date:									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.140	0.15	1	0	114	70	130				
cis-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	70	130				
cis-1,3-Dichloropropene	1.170	0.15	1	0	117	70	130				
Cyclohexane	1.100	0.15	1	0	110	70	130				
Dibromochloromethane	1.240	0.15	1	0	124	70	130				
Ethyl acetate	1.000	0.25	1	0	100	70	130				
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130				
Freon 11	1.120	0.15	1	0	112	70	130				
Freon 113	1.000	0.15	1	0	100	70	130				
Freon 114	1.130	0.15	1	0	113	70	130				
Freon 12	1.180	0.15	1	0	118	70	130				
Heptane	1.120	0.15	1	0	112	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	0.7800	0.15	1	0	78.0	70	130				
m&p-Xylene	1.980	0.30	2	0	99.0	70	130				
Methyl Butyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl tert-butyl ether	0.8000	0.15	1	0	80.0	70	130				
Methylene chloride	0.8800	0.15	1	0	88.0	70	130				
o-Xylene	0.9900	0.15	1	0	99.0	70	130				
Propylene	0.9600	0.15	1	0	96.0	70	130				
Styrene	0.8700	0.15	1	0	87.0	70	130				
Tetrachloroethylene	1.210	0.15	1	0	121	70	130				
Tetrahydrofuran	0.8400	0.15	1	0	84.0	70	130				
Toluene	1.000	0.15	1	0	100	70	130				
trans-1,2-Dichloroethane	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	1.180	0.15	1	0	118	70	130				
Trichloroethene	1.280	0.040	1	0	128	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

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

CLIENT: EnviroGroup Limited
 Work Order: C1003003
 Project: LEICA

Sample ID: LCS1UG-030310	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	0.8600	0.15	1	0	86.0	70	130				
Vinyl Bromide	1.000	0.15	1	0	100	70	130				
Vinyl chloride	1.130	0.040	1	0	113	70	130				

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: lugM3_TO15

Sample ID: LCS1UG-030410	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.280	0.15	1	0	128	70	130				
1,1,2,2-Tetrachloroethane	1.260	0.15	1	0	126	70	130				
1,1,2-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
1,2,4-Trichlorobenzene	0.9600	0.15	1	0	96.0	70	130				
1,2,4-Trimethylbenzene	0.7100	0.15	1	0	71.0	70	130				
1,2-Dibromoethane	1.220	0.15	1	0	122	70	130				
1,2-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,2-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichloropropane	1.250	0.15	1	0	125	70	130				
1,3,5-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130				
1,3-butadiene	0.8800	0.15	1	0	88.0	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	0.9000	0.30	1	0	90.0	70	130				
2,2,4-trimethylpentane	0.8600	0.15	1	0	86.0	70	130				
4-ethyltoluene	0.8900	0.15	1	0	89.0	70	130				
Acetone	1.050	0.30	1	0	105	70	130				
Allyl chloride	0.8700	0.15	1	0	87.0	70	130				
Benzene	1.090	0.15	1	0	109	70	130				S
Benzyl chloride	1.700	0.15	1	0	170	70	130				
Bromodichloromethane	1.270	0.15	1	0	127	70	130				
Bromoform	1.600	0.15	1	0	160	70	130				S
Bromomethane	0.9700	0.15	1	0	97.0	70	130				
Carbon disulfide	0.7200	0.15	1	0	72.0	70	130				
Carbon tetrachloride	1.450	0.15	1	0	145	70	130				S
Chlorobenzene	1.030	0.15	1	0	103	70	130				
Chloroethane	0.9300	0.15	1	0	93.0	70	130				
Chloroform	0.9800	0.15	1	0	98.0	70	130				
Chloromethane	1.020	0.15	1	0	102	70	130				

Qualifiers:

J Results reported are not blank corrected

S 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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID: LCS1UG-030410	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130				
Cyclohexane	0.9000	0.15	1	0	90.0	70	130				
Dibromochloromethane	1.250	0.15	1	0	125	70	130				
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130				
Ethylbenzene	0.8700	0.15	1	0	87.0	70	130				
Freon 11	1.000	0.15	1	0	100	70	130				
Freon 113	0.9100	0.15	1	0	91.0	70	130				
Freon 114	1.020	0.15	1	0	102	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	0.8900	0.15	1	0	89.0	70	130				
Hexachloro-1,3-butadiene	1.300	0.15	1	0	130	70	130				
Hexane	0.7900	0.15	1	0	79.0	70	130				
Isopropyl alcohol	0.7800	0.15	1	0	78.0	70	130				
m&p-Xylene	1.840	0.30	2	0	92.0	70	130				
Methyl Butyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Ethyl Ketone	0.8300	0.30	1	0	83.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	0.7400	0.15	1	0	74.0	70	130				
Methylene chloride	0.7600	0.15	1	0	76.0	70	130				
o-Xylene	0.8900	0.15	1	0	89.0	70	130				
Propylene	0.7500	0.15	1	0	75.0	70	130				
Styrene	0.8500	0.15	1	0	85.0	70	130				
Tetrachloroethylene	1.220	0.15	1	0	122	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				
Toluene	0.9600	0.15	1	0	96.0	70	130				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	1.210	0.15	1	0	121	70	130				
Vinyl acetate	0.7200	0.15	1	0	72.0	70	130				
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130				

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
	Spike Recovery outside accepted recovery limits				

CLIENT: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID: LCS1UG-030410	SampleType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.000	0.15	1	0	100	70	130				

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: EnviroGroup Limited

Work Order: C1003003

Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UGD-030310	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.380	0.15	1	0	138	70	130	1.2	14.0	30	S
1,1,2,2-Tetrachloroethane	1.400	0.15	1	0	140	70	130	1.18	17.1	30	S
1,1,2-Trichloroethane	1.520	0.15	1	0	152	70	130	1.27	17.9	30	S
1,1-Dichloroethane	1.020	0.15	1	0	102	70	130	1.11	8.45	30	
1,1-Dichloroethene	0.9500	0.15	1	0	95.0	70	130	1.06	10.9	30	
1,2,4-Trichlorobenzene	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	
1,2,4-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.79	7.89	30	
1,2-Dibromoethane	1.290	0.15	1	0	129	70	130	1.25	3.15	30	
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130	0.96	5.08	30	
1,2-Dichloroethane	0.9600	0.15	1	0	96.0	70	130	1.04	8.00	30	
1,2-Dichloropropane	1.520	0.15	1	0	152	70	130	1.2	23.5	30	S
1,3,5-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130	0.77	0	30	
1,3-butadiene	0.9200	0.15	1	0	92.0	70	130	1.13	20.5	30	
1,3-Dichlorobenzene	1.040	0.15	1	0	104	70	130	0.97	6.97	30	
1,4-Dichlorobenzene	1.050	0.15	1	0	105	70	130	1	4.88	30	
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130	1.07	8.78	30	
2,2,4-trimethylpentane	1.050	0.15	1	0	105	70	130	1.09	3.74	30	
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
Acetone	1.130	0.30	1	0	113	70	130	1.23	8.47	30	
Allyl chloride	0.8500	0.15	1	0	85.0	70	130	1.08	23.8	30	
Benzene	1.170	0.15	1	0	117	70	130	1.12	4.37	30	
Benzyl chloride	2.070	0.15	1	0	207	70	130	1.76	16.2	30	S
Bromodichloromethane	1.480	0.15	1	0	148	70	130	1.28	14.5	30	S
Bromoform	1.630	0.15	1	0	163	70	130	1.59	2.48	30	S
Bromomethane	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Carbon disulfide	0.8900	0.15	1	0	89.0	70	130	0.72	21.1	30	
Carbon tetrachloride	1.560	0.040	1	0	156	70	130	1.28	19.7	30	S
Chlorobenzene	1.050	0.15	1	0	105	70	130	1.08	2.82	30	
Chloroethane	1.020	0.15	1	0	102	70	130	1.1	7.55	30	

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

CLIENT: EnviroGroup Limited
 Work Order: C1003003
 Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UGD-030310	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	1.030	0.15	1	0	103	70	130	1.12	8.37	30	
Chloromethane	1.090	0.15	1	0	109	70	130	1.14	4.48	30	
cis-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70	130	0.92	14.0	30	
cis-1,3-Dichloropropene	1.150	0.15	1	0	115	70	130	1.17	1.72	30	
Cyclohexane	1.070	0.15	1	0	107	70	130	1.1	2.76	30	
Dibromochloromethane	1.320	0.15	1	0	132	70	130	1.24	6.25	30	S
Ethyl acetate	0.8000	0.25	1	0	80.0	70	130	1	22.2	30	
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130	0.91	6.82	30	
Freon 11	1.000	0.15	1	0	100	70	130	1.12	11.3	30	
Freon 113	1.290	0.15	1	0	129	70	130	1	25.3	30	
Freon 114	1.030	0.15	1	0	103	70	130	1.13	9.26	30	
Freon 12	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Heptane	1.020	0.15	1	0	102	70	130	1.12	9.35	30	
Hexachloro-1,3-butadiene	1.260	0.15	1	0	126	70	130	1.18	6.56	30	
Hexane	0.8600	0.15	1	0	86.0	70	130	1.01	16.0	30	
Isopropyl alcohol	0.7400	0.15	1	0	74.0	70	130	0.78	5.26	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	1.98	2.56	30	
Methyl Butyl Ketone	1.280	0.30	1	0	128	70	130	1.14	11.6	30	
Methyl Ethyl Ketone	0.8400	0.30	1	0	84.0	70	130	1.02	19.4	30	
Methyl Isobutyl Ketone	1.010	0.30	1	0	101	70	130	1	0.995	30	
Methyl tert-butyl ether	0.7300	0.15	1	0	73.0	70	130	0.8	9.15	30	
Methylene chloride	1.120	0.15	1	0	112	70	130	0.88	24.0	30	
o-Xylene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
Propylene	0.9700	0.15	1	0	97.0	70	130	0.96	1.04	30	
Styrene	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Tetrachloroethylene	1.270	0.15	1	0	127	70	130	1.21	4.84	30	
Tetrahydrofuran	1.180	0.15	1	0	118	70	130	0.84	33.7	30	R
Toluene	0.9600	0.15	1	0	96.0	70	130	1	4.08	30	
trans-1,2-Dichloroethene	0.8200	0.15	1	0	82.0	70	130	0.99	18.8	30	
trans-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Trichloroethene	1.300	0.040	1	0	130	70	130	1.28	1.55	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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 0.25CT-TCE-VC

ANALYTICAL QC SUMMARY REPORT

Sample ID: LCS1UGD-030310	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	0.7300	0.15	1	0	73.0	70	130	0.86	16.4	30	
Vinyl Bromide	0.9200	0.15	1	0	92.0	70	130	1	8.33	30	
Vinyl chloride	1.050	0.040	1	0	105	70	130	1.13	7.34	30	

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				

ANALYTICAL QC SUMMARY REPORT

CLIENT: EnviroGroup Limited

Work Order: C1003003

Project: LEICA

TestCode: 0.25CT-TCE-VC

Sample ID: MB1UG-030310	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41348						
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-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									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: MB1UG-030310	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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									
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									

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 0.25CT-TCE-VC

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB1UG-030310	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID: MB1UG-030410	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41357						
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-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									
Bromodichloromethane	< 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:

•	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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID: MB1UG-030410	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41357						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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									
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:	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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 1ugM3_TO15

Sample ID: MB1UG-030410	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41357
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Vinyl chloride	< 0.15				
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

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

Page 6 of 6

Centek Laboratories, LLC
IDL Study

1 ug/m3 Detection Limit
September 2009

Method TO-15
Units=ppb

Compound	Amount	IDL 1	IDL 2	IDL 3	IDL 4	IDL 5	IDL 6	IDL 7	Avg	Study	%Rec	IDL
Propylene	0.30	0.34	0.31	0.34	0.32	0.34	0.37	0.33	0.34	0.019	111.9	0.060
Freon 12	0.30	0.32	0.32	0.32	0.34	0.32	0.33	0.33	0.33	0.008	108.6	0.025
Chloromethane	0.30	0.36	0.34	0.35	0.37	0.36	0.36	0.37	0.36	0.011	119.5	0.034
Freon 114	0.30	0.33	0.36	0.35	0.35	0.35	0.36	0.36	0.35	0.011	117.1	0.034
Vinyl Chloride	0.30	0.3	0.3	0.31	0.31	0.32	0.32	0.33	0.31	0.011	104.3	0.035
1,3-butadiene	0.30	0.37	0.39	0.35	0.39	0.37	0.37	0.39	0.38	0.015	125.2	0.048
Bromomethane	0.30	0.35	0.35	0.37	0.36	0.36	0.37	0.38	0.36	0.011	121.0	0.035
Chloroethane	0.30	0.36	0.36	0.35	0.36	0.37	0.34	0.37	0.36	0.011	119.5	0.034
Vinyl Bromide	0.30	0.36	0.37	0.38	0.36	0.38	0.36	0.38	0.37	0.010	123.3	0.031
Freon 11	0.30	0.35	0.37	0.36	0.36	0.36	0.35	0.37	0.36	0.008	120.0	0.026
Acetone	0.30	0.38	0.38	0.36	0.38	0.39	0.38	0.41	0.38	0.015	127.6	0.047
Isopropyl alcohol	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.27	0.011	91.0	0.035
1,1-dichloroethene	0.30	0.31	0.34	0.34	0.37	0.35	0.34	0.37	0.35	0.021	115.2	0.065
Freon 113	0.30	0.35	0.36	0.37	0.38	0.36	0.35	0.36	0.36	0.011	120.5	0.034
Methylene chloride	0.30	0.35	0.37	0.36	0.36	0.33	0.35	0.38	0.36	0.016	119.0	0.050
Allyl chloride	0.30	0.39	0.34	0.4	0.37	0.37	0.35	0.4	0.37	0.024	124.8	0.075
Carbon disulfide	0.30	0.38	0.38	0.39	0.39	0.38	0.38	0.4	0.39	0.008	128.6	0.025
trans-1,2-dichloroethene	0.30	0.35	0.36	0.36	0.34	0.36	0.35	0.36	0.35	0.008	118.1	0.025
methyl tert-butyl ether	0.30	0.37	0.34	0.36	0.36	0.35	0.35	0.35	0.35	0.010	118.1	0.031
1,1-dichloroethane	0.30	0.36	0.34	0.35	0.31	0.35	0.38	0.36	0.35	0.022	116.7	0.068
Vinyl acetate	0.30	0.3	0.29	0.28	0.38	0.31	0.33	0.32	0.32	0.033	105.2	0.104
Methyl Ethyl Ketone	0.30	0.28	0.28	0.3	0.27	0.26	0.3	0.27	0.28	0.015	93.3	0.048
cis-1,2-dichloroethene	0.30	0.29	0.3	0.29	0.31	0.3	0.3	0.3	0.30	0.007	99.5	0.022
Hexane	0.30	0.29	0.28	0.29	0.33	0.29	0.29	0.28	0.29	0.017	97.6	0.054
Ethyl acetate	0.30	0.28	0.27	0.28	0.25	0.25	0.31	0.26	0.27	0.021	90.5	0.066
Chloroform	0.30	0.32	0.33	0.34	0.33	0.32	0.33	0.33	0.33	0.007	109.5	0.022
Tetrahydrofuran	0.30	0.34	0.31	0.32	0.29	0.25	0.28	0.32	0.30	0.030	100.5	0.095
1,2-dichloroethane	0.30	0.31	0.31	0.32	0.33	0.31	0.32	0.32	0.32	0.008	105.7	0.024
1,1,1-trichloroethane	0.30	0.34	0.33	0.36	0.33	0.34	0.32	0.35	0.34	0.013	112.9	0.042
Cyclohexane	0.30	0.28	0.3	0.29	0.32	0.3	0.23	0.3	0.29	0.029	96.2	0.090
Carbon tetrachloride	0.30	0.32	0.31	0.33	0.32	0.32	0.3	0.33	0.32	0.011	106.2	0.034
Benzene	0.30	0.29	0.28	0.3	0.29	0.28	0.29	0.3	0.29	0.008	96.7	0.026
1,4-dioxane	0.30	0.27	0.27	0.27	0.27	0.3	0.3	0.3	0.28	0.016	94.3	0.050
2,2,4-trimethylpentane	0.30	0.31	0.31	0.31	0.31	0.32	0.29	0.33	0.31	0.012	103.8	0.038

Compound	Amount	IDL 1	IDL 2	IDL 3	IDL 4	IDL 5	IDL 6	IDL 7	Avg	Stdev	Rec	DL
Heptane	0.30	0.32	0.3	0.33	0.28	0.3	0.3	0.37	0.31	0.029	104.8	0.092
Trichloroethene	0.30	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.005	94.3	0.015
1,2-dichloropropane	0.30	0.31	0.3	0.33	0.31	0.31	0.29	0.31	0.31	0.012	102.9	0.038
Bromodichloromethane	0.30	0.36	0.36	0.38	0.37	0.36	0.35	0.37	0.36	0.010	121.4	0.031
cis-1,3-dichloropropene	0.30	0.27	0.29	0.28	0.26	0.26	0.27	0.28	0.27	0.011	91.0	0.035
trans-1,3-dichloropropene	0.30	0.32	0.29	0.31	0.32	0.32	0.29	0.31	0.31	0.013	102.9	0.042
1,1,2-trichloroethane	0.30	0.32	0.31	0.34	0.32	0.32	0.31	0.33	0.32	0.011	107.1	0.034
Toluene	0.30	0.29	0.31	0.29	0.28	0.28	0.29	0.28	0.29	0.011	96.2	0.034
Methyl Isobutyl Ketone	0.30	0.35	0.3	0.27	0.28	0.33	0.27	0.27	0.30	0.033	98.6	0.102
Dibromochloromethane	0.30	0.39	0.41	0.41	0.4	0.41	0.39	0.43	0.41	0.014	135.2	0.044
Methyl Butyl Ketone	0.30	0.3	0.26	0.28	0.26	0.27	0.3	0.27	0.28	0.017	92.4	0.054
1,2-dibromoethane	0.30	0.3	0.34	0.34	0.33	0.33	0.31	0.34	0.33	0.016	109.0	0.050
Tetrachloroethylene	0.30	0.33	0.36	0.35	0.33	0.34	0.32	0.34	0.34	0.013	112.9	0.042
Chlorobenzene	0.30	0.31	0.34	0.32	0.33	0.32	0.32	0.33	0.32	0.010	108.1	0.031
Ethylbenzene	0.30	0.28	0.31	0.3	0.29	0.3	0.29	0.29	0.29	0.010	98.1	0.031
m&p-xylene	0.60	0.48	0.54	0.52	0.51	0.5	0.51	0.52	0.51	0.019	85.2	0.059
Styrene	0.30	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.007	99.5	0.022
Bromoform	0.30	0.42	0.43	0.42	0.41	0.42	0.4	0.43	0.42	0.011	139.5	0.034
o-xylene	0.30	0.29	0.31	0.24	0.31	0.31	0.29	0.3	0.29	0.025	97.6	0.079
Bromofluorobenzene	1.00	0.86	0.89	0.85	0.87	0.82	0.87	0.85	0.86	0.022	85.9	0.069
1,1,2,2-tetrachloroethane	0.30	0.33	0.33	0.34	0.33	0.34	0.32	0.33	0.33	0.007	110.5	0.022
4-ethyltoluene	0.30	0.34	0.37	0.36	0.35	0.35	0.35	0.35	0.35	0.010	117.6	0.030
1,3,5-trimethylbenzene	0.30	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	0.008	84.8	0.025
1,2,4-trimethylbenzene	0.30	0.27	0.28	0.28	0.28	0.26	0.28	0.28	0.28	0.008	91.9	0.025
1,3-dichlorobenzene	0.30	0.27	0.28	0.29	0.26	0.27	0.26	0.27	0.27	0.011	90.5	0.034
benzyl chloride	0.30	0.31	0.32	0.33	0.32	0.31	0.33	0.34	0.32	0.011	107.6	0.035
1,4-dichlorobenzene	0.30	0.25	0.26	0.26	0.25	0.25	0.24	0.26	0.25	0.008	84.3	0.024
1,2-dichlorobenzene	0.30	0.25	0.26	0.27	0.26	0.25	0.26	0.28	0.26	0.011	87.1	0.034
1,2,4-trichlorobenzene	0.30	0.26	0.29	0.28	0.26	0.28	0.26	0.27	0.27	0.012	90.5	0.038
Naphthalene	0.30	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22	0.008	74.3	0.024
Hexachloro-1,3-butadien	0.30	0.29	0.3	0.3	0.28	0.3	0.29	0.3	0.29	0.008	98.1	0.025

Compound	Amount	IDL 1	IDL 2	IDL 3	IDL 4	IDL 5	IDL 6	IDL 7	Avg	Stdev	%Rec	IDL
Vinyl Chloride	0.10	0.12	0.11	0.12	0.11	0.11	0.12	0.12	0.12	0.005	115.7	0.017
1,1-dichloroethene	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.005	124.3	0.017
Methylene chloride	0.10	0.11	0.13	0.13	0.11	0.12	0.12	0.12	0.12	0.008	120.0	0.026
trans-1,2-dichloroethene	0.10	0.11	0.13	0.11	0.1	0.11	0.11	0.09	0.11	0.012	108.6	0.038
1,1-dichloroethane	0.10	0.11	0.13	0.11	0.12	0.11	0.12	0.12	0.12	0.008	117.1	0.024
cis-1,2-dichloroethene	0.10	0.09	0.11	0.11	0.09	0.09	0.09	0.1	0.10	0.010	97.1	0.030
1,2-dichloroethane	0.10	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.007	108.6	0.022
1,1,1-trichloroethane	0.10	0.11	0.11	0.11	0.12	0.11	0.09	0.1	0.11	0.010	107.1	0.030
Carbon tetrachloride	0.10	0.11	0.1	0.1	0.11	0.09	0.1	0.1	0.10	0.007	101.4	0.022
Benzene	0.10	0.09	0.11	0.09	0.09	0.1	0.09	0.09	0.09	0.008	94.3	0.025
Trichloroethene	0.10	0.09	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.005	94.3	0.017
1,1,2-trichloroethane	0.10	0.11	0.09	0.09	0.11	0.09	0.11	0.1	0.10	0.010	100.0	0.031
Tetrachloroethylene	0.10	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.008	117.1	0.024
Bromofluorobenzene	1.00	0.79	0.84	0.82	0.82	0.82	0.82	0.81	0.82	0.015	81.7	0.047

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA

Tag Number: 579,649

Collection Date: 2/25/2010

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	2.9	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.20	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	0.12	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	< 0.15	0.15		ppbV	1	3/3/2010
Chloromethane	0.37	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 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	3/3/2010
Freon 11	0.20	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.46	0.15		ppbV	1	3/3/2010
Heptane	< 0.15	0.15		ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	1.6	0.15		ppbV	1	3/3/2010
m&p-Xylene	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	0.14	0.15	J	ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.24	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	4.6	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	72.0	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	7.0	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.65	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	0.77	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	< 0.74	0.74		ug/m3	1	3/3/2010
Chloromethane	0.78	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/3/2010
Freon 11	1.1	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-001A

Client Sample ID: PRE-AA
 Tag Number: 579,649
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.3	0.75		ug/m3	1	3/3/2010
Heptane	< 0.62	0.62		ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	4.1	0.37		ug/m3	1	3/3/2010
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	0.97	1.0	J	ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	0.92	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	25	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2010

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

Data File : C:\HPCHEM\1\DATA\AH030328.D

Vial: 1

Acq On : 4 Mar 2010 3:11

Operator: RJP

Sample : C1003003-001A

Inst : MSD #1

Misc : C1003003-001A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 03:33:19 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11498	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	22361	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	21350	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	7461	0.72	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	72.00%

Target Compounds

						Qvalue
3) Freon 12	2.97	85	32427	0.46	ppb	99
4) Chloromethane	3.11	50	5535	0.37	ppb	80
11) Freon 11	4.16	101	10145	0.20	ppb	98
12) Acetone	4.31	58	10328	2.46	ppb	# 60
13) Isopropyl alcohol	4.42	45	20164	1.63	ppb	# 1
33) Carbon tetrachloride	9.30	117	4693	0.12	ppb	91
34) Benzene	9.26	78	5233	0.20	ppb	94
38) Trichloroethene	10.75	130	84685	4.79	ppb	98
45) Toluene	13.00	92	4458	0.24	ppb	89
50) Tetrachloroethylene	14.02	164	2969	0.14	ppb	97

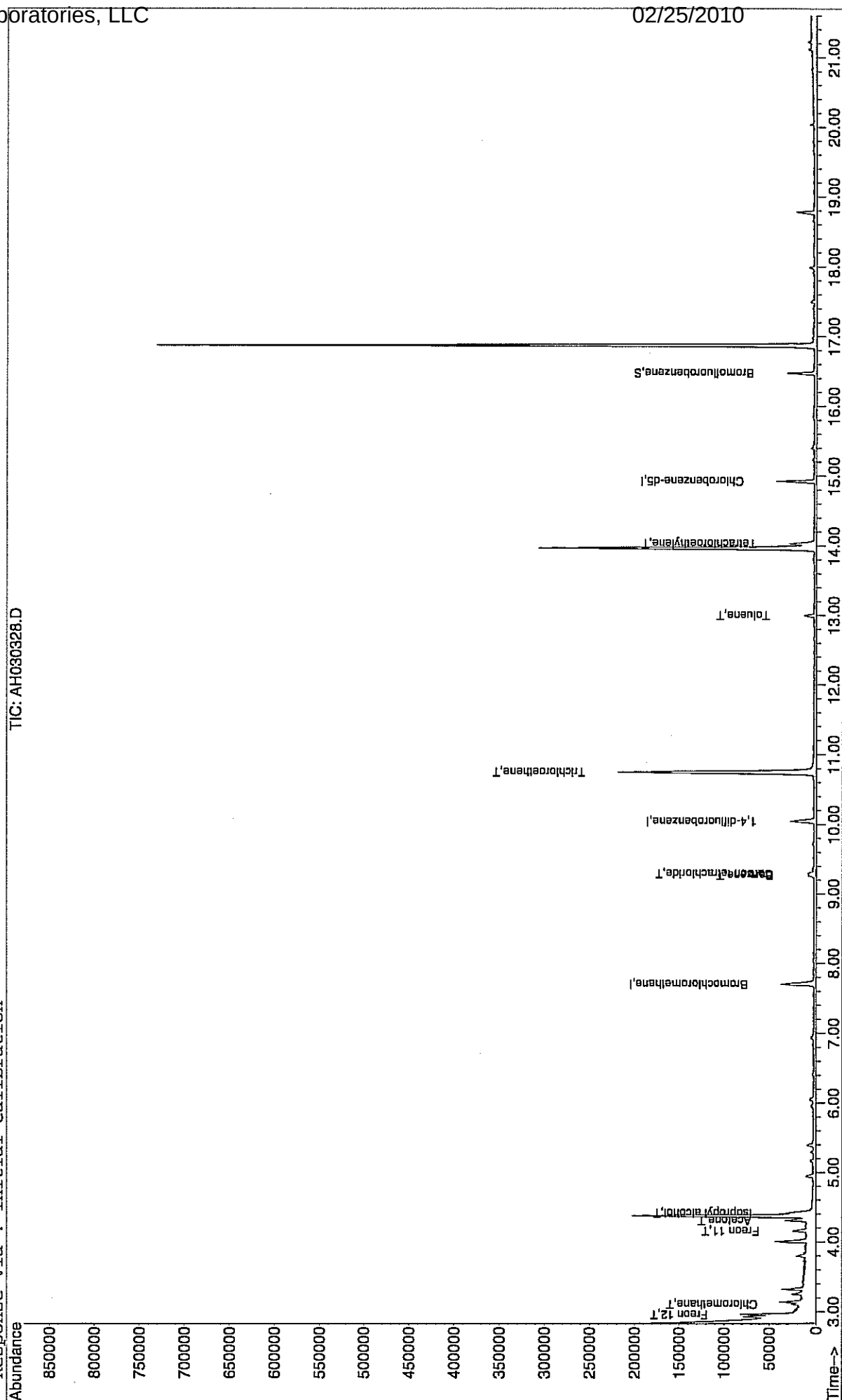
Data File : C:\HPCHEM\1\DATA\AH030328.D
Acq On : 4 Mar 2010 3:11
Sample : C1003003-001A
Misc : C1003003-001A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:28 2010

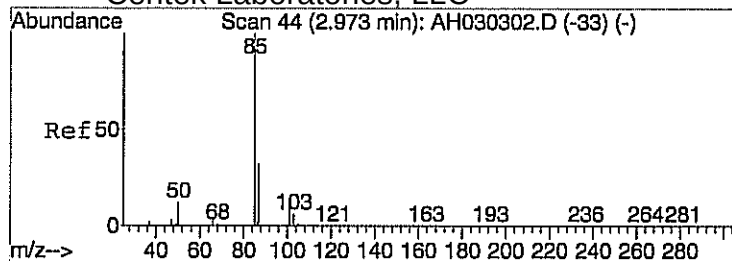
Vial: 1

Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration





#3

Freon 12

Concen: 0.46 ppb

RT: 2.97 min Scan# 43

Delta R.T. 0.00 min

Lab File: AH030328.D

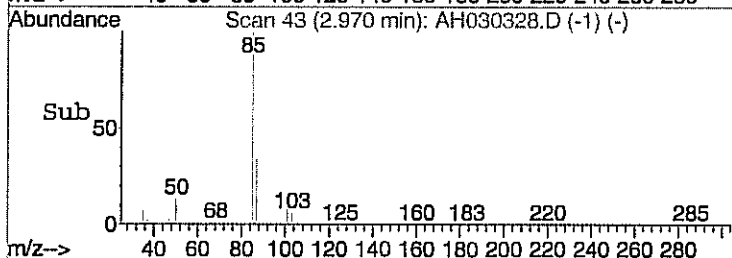
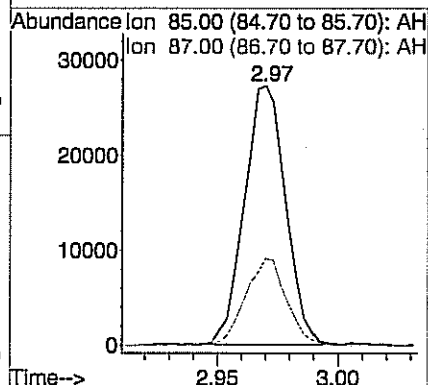
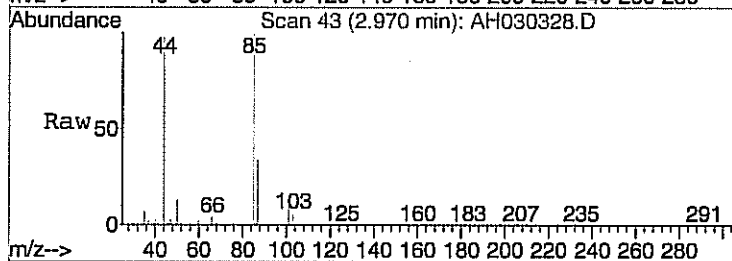
Acq: 4 Mar 2010 3:11

Tgt Ion: 85 Resp: 32427

Ion Ratio Lower Upper

85 100

87 33.7 13.2 53.2



#4

Chloromethane

Concen: 0.37 ppb

RT: 3.11 min Scan# 88

Delta R.T. 0.00 min

Lab File: AH030328.D

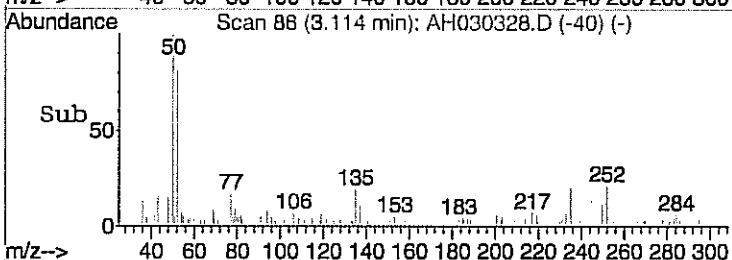
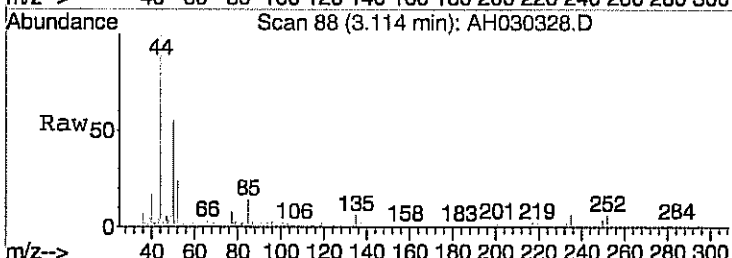
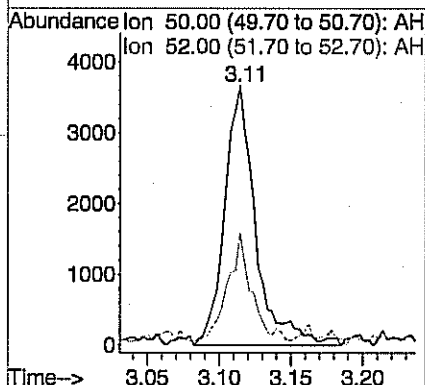
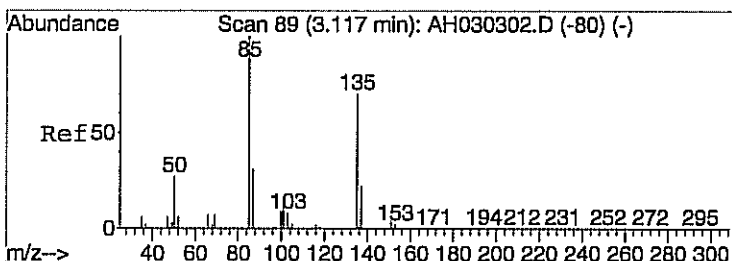
Acq: 4 Mar 2010 3:11

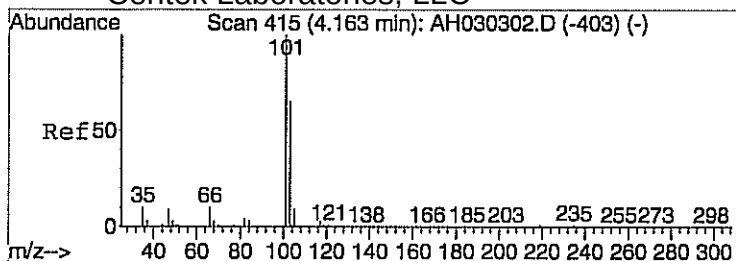
Tgt Ion: 50 Resp: 5535

Ion Ratio Lower Upper

50 100

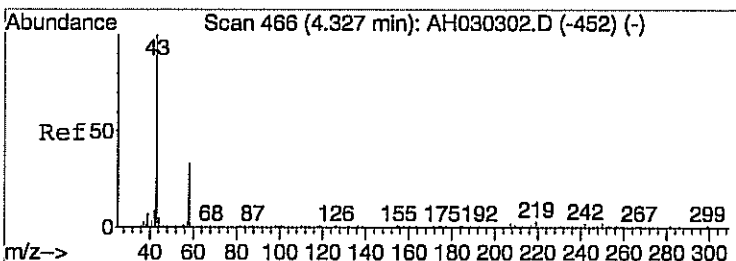
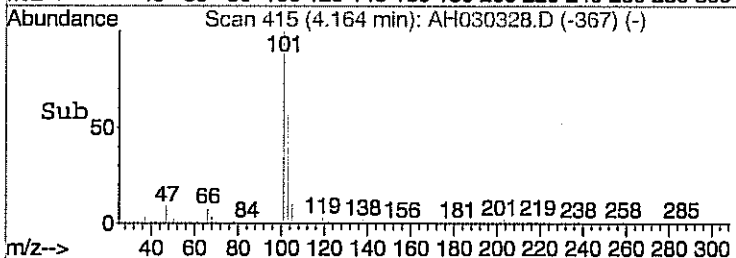
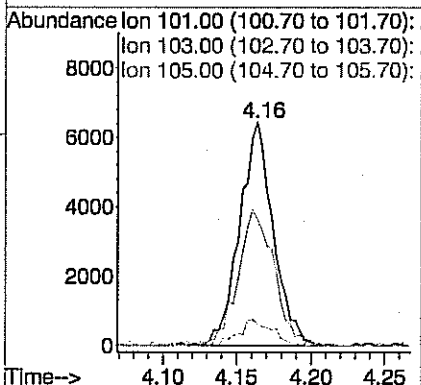
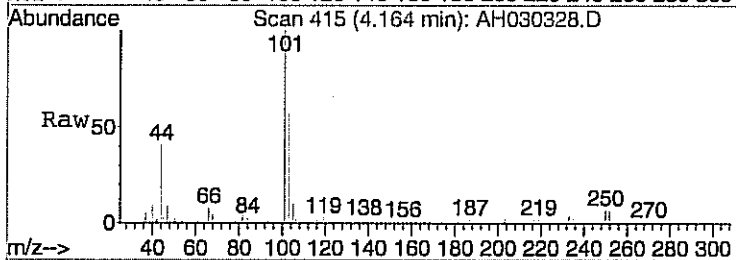
52 34.1 4.0 44.0





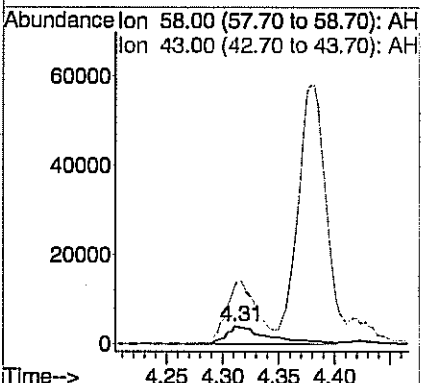
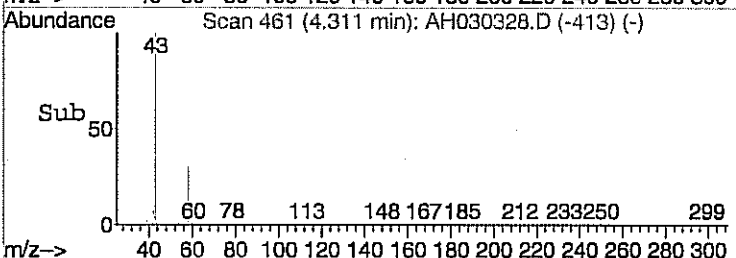
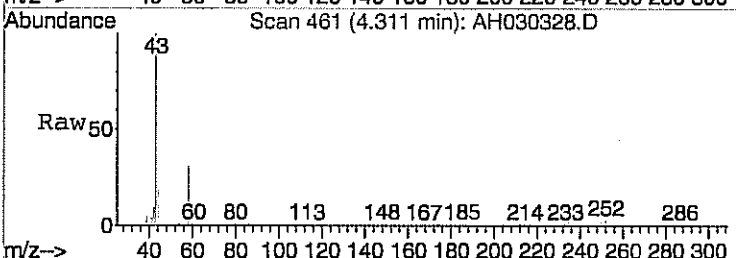
#11
Freon 11
Concen: 0.20 ppb
RT: 4.16 min Scan# 415
Delta R.T. 0.00 min
Lab File: AH030328.D
Acq: 4 Mar 2010 3:11

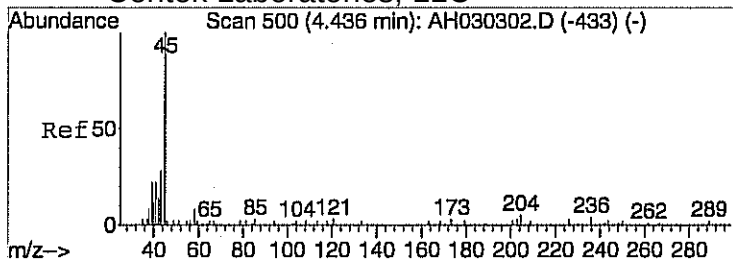
Tgt Ion: 101 Resp: 10145
Ion Ratio Lower Upper
101 100
103 65.1 43.9 83.9
105 11.9 0.0 30.7



#12
Acetone
Concen: 2.46 ppb
RT: 4.31 min Scan# 461
Delta R.T. 0.00 min
Lab File: AH030328.D
Acq: 4 Mar 2010 3:11

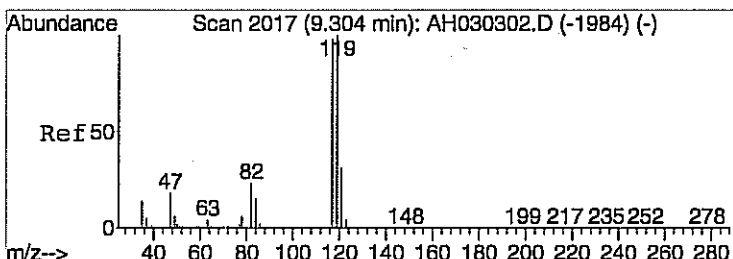
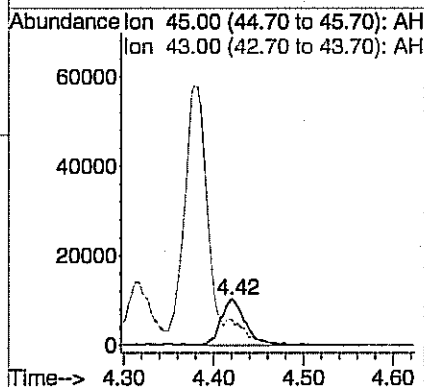
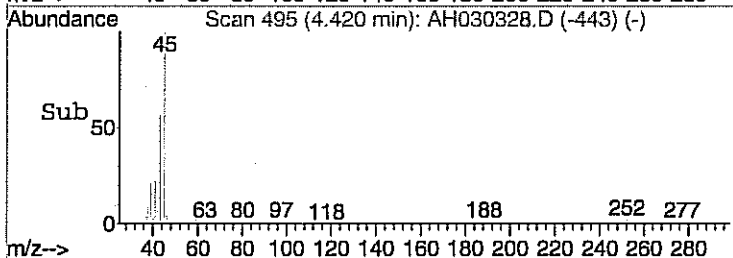
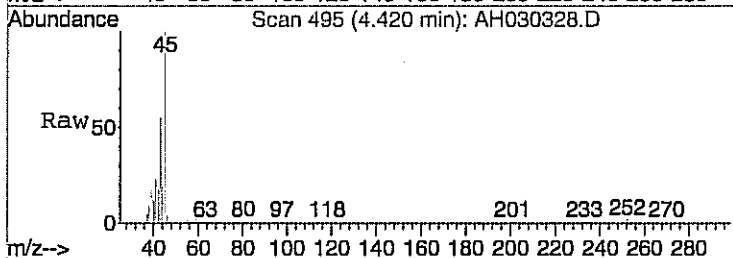
Tgt Ion: 58 Resp: 10328
Ion Ratio Lower Upper
58 100
43 264.3 320.6 380.6#





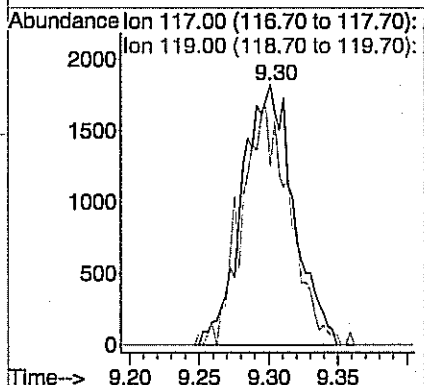
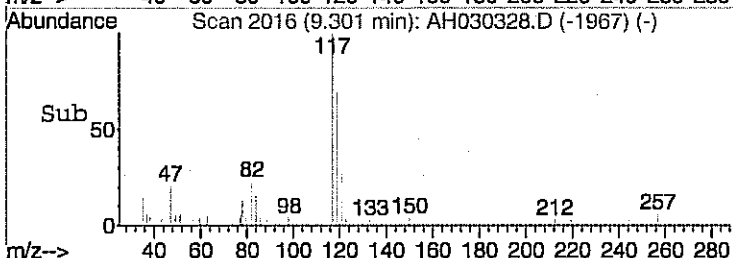
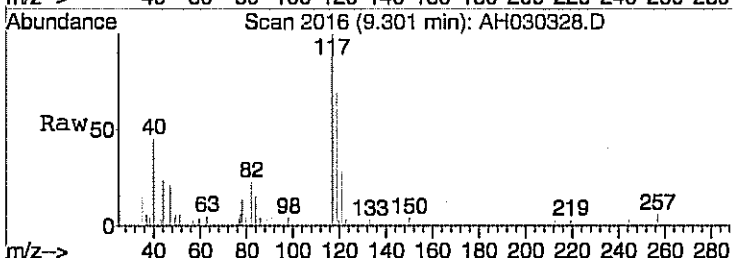
#13
Isopropyl alcohol
Concen: 1.63 ppb
RT: 4.42 min Scan# 495
Delta R.T. 0.02 min
Lab File: AH030328.D
Acq: 4 Mar 2010 3:11

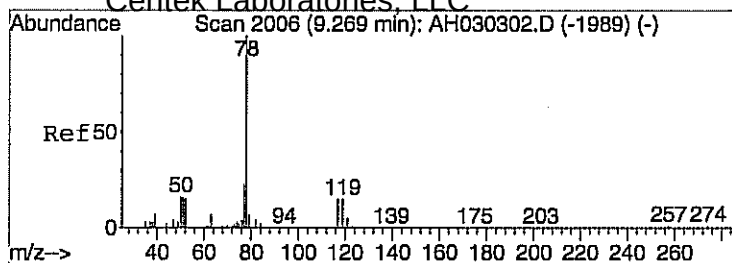
Tgt Ion: 45 Resp: 20164
Ion Ratio Lower Upper
45 100
43 548.3 14.6 54.6#



#33
Carbon tetrachloride
Concen: 0.12 ppb
RT: 9.30 min Scan# 2016
Delta R.T. 0.01 min
Lab File: AH030328.D
Acq: 4 Mar 2010 3:11

Tgt Ion: 117 Resp: 4693
Ion Ratio Lower Upper
117 100
119 86.8 75.3 115.3





#34

Benzene

Concen: 0.20 ppb

RT: 9.26 min Scan# 2004

Delta R.T. 0.01 min

Lab File: AH030328.D

Acq: 4 Mar 2010 3:11

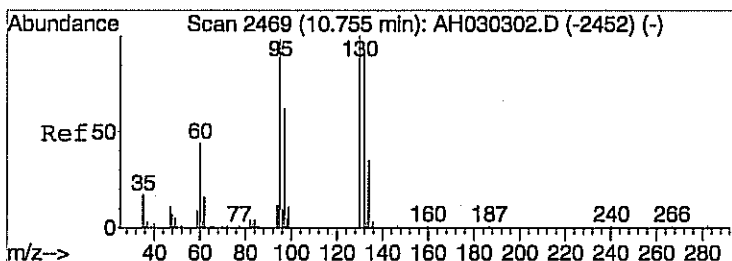
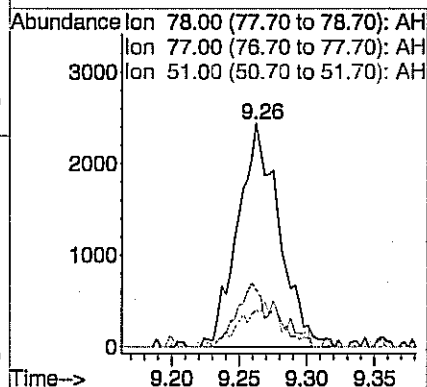
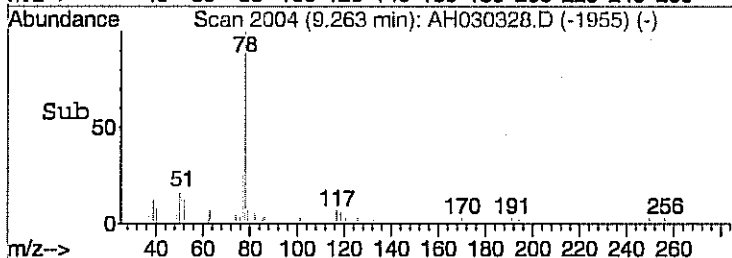
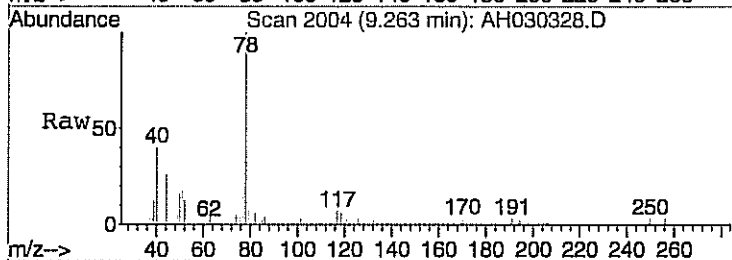
Tgt Ion: 78 Resp: 5233

Ion Ratio Lower Upper

78 100

77 26.5 2.7 42.7

51 19.1 1.1 41.1



#38

Trichloroethene

Concen: 4.79 ppb

RT: 10.75 min Scan# 2467

Delta R.T. 0.01 min

Lab File: AH030328.D

Acq: 4 Mar 2010 3:11

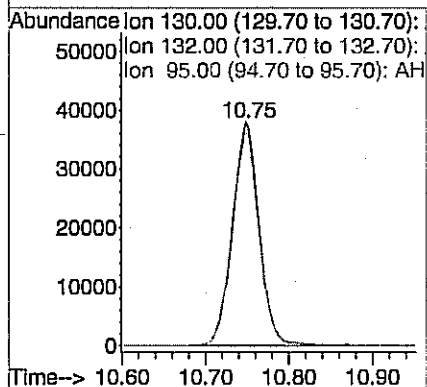
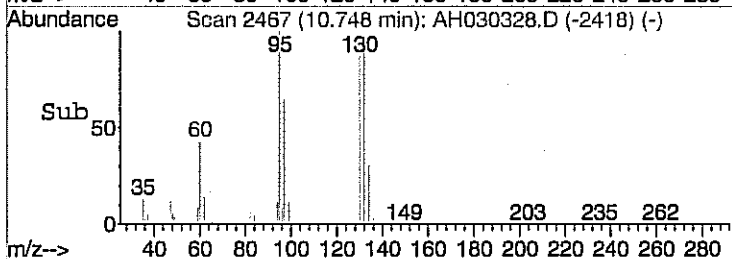
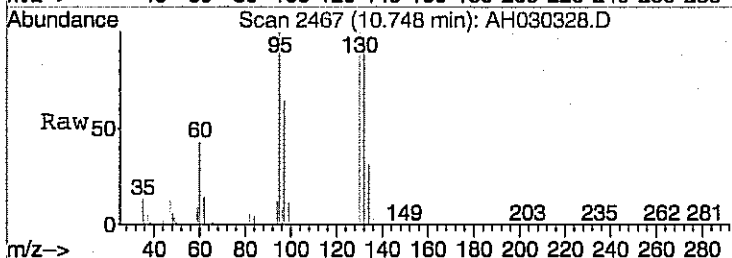
Tgt Ion: 130 Resp: 84685

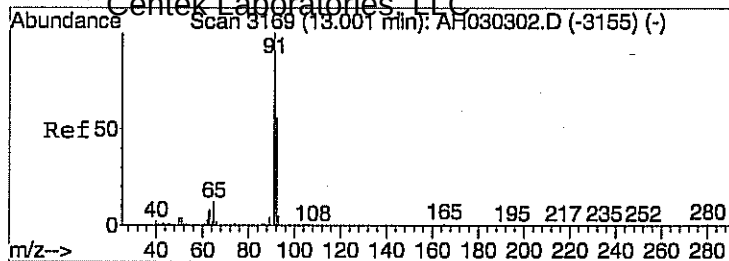
Ion Ratio Lower Upper

130 100

132 96.1 78.1 118.1

95 98.8 76.7 116.7





#45

Toluene

Concen: 0.24 ppb

RT: 13.00 min Scan# 3168

Delta R.T. 0.01 min

Lab File: AH030328.D

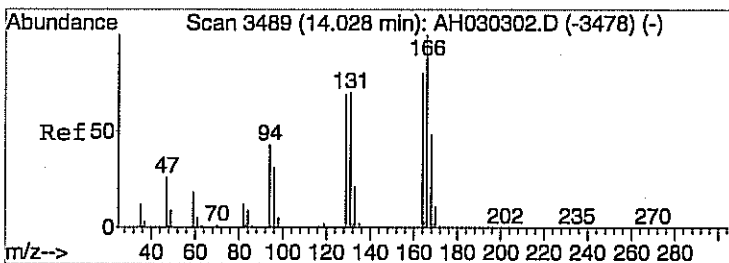
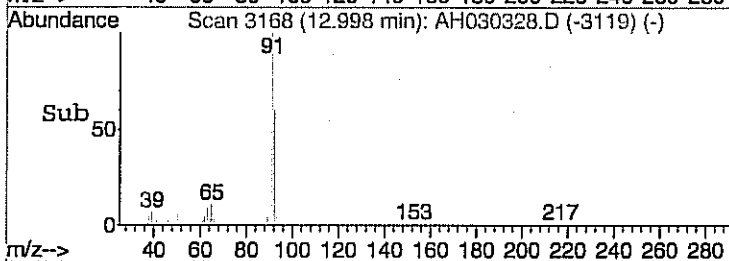
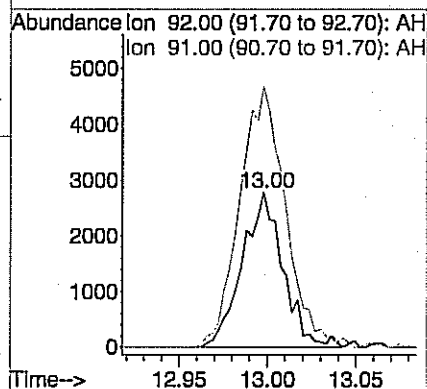
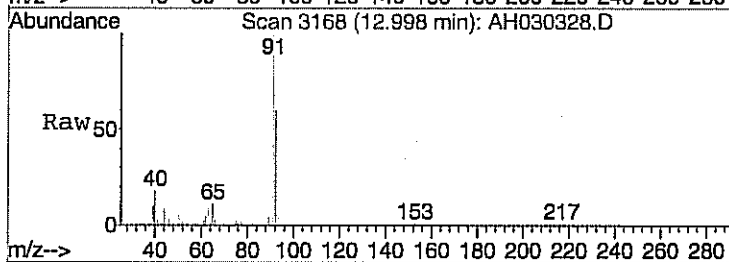
Acq: 4 Mar 2010 3:11

Tgt Ion: 92 Resp: 4458

Ion Ratio Lower Upper

92 100

91 188.6 152.9 192.9



#50

Tetrachloroethylene

Concen: 0.14 ppb

RT: 14.02 min Scan# 3488

Delta R.T. 0.00 min

Lab File: AH030328.D

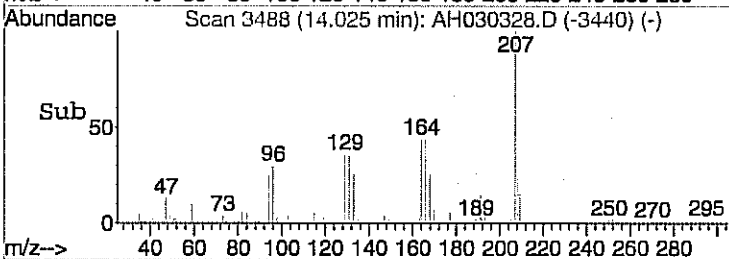
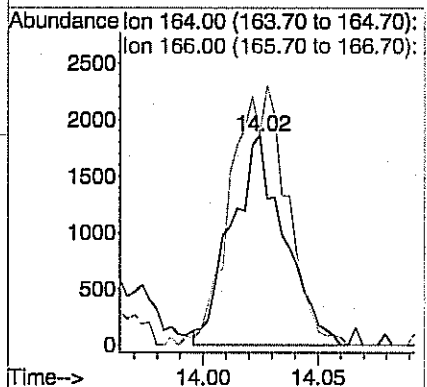
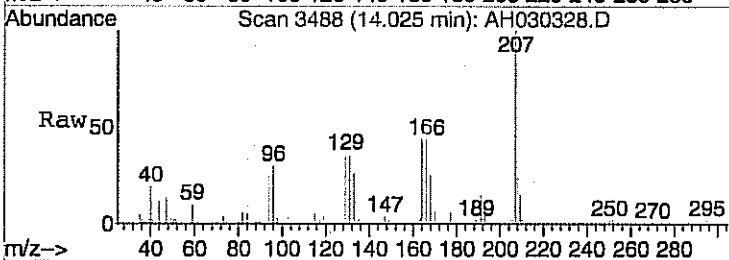
Acq: 4 Mar 2010 3:11

Tgt Ion: 164 Resp: 2969

Ion Ratio Lower Upper

164 100

166 131.7 107.9 147.9



Data File : C:\HPCHEM\1\DATA\AH030415.D

Vial: 11

Acq On : 4 Mar 2010 21:17

Operator: RJP

Sample : C1003003-001A 5X

Inst : MSD #1

Misc : C1003003-001A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 21:39:39 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	11276	1.00	ppb	0.02
30) 1,4-difluorobenzene	10.06	114	22367	1.00	ppb	0.02
44) Chlorobenzene-d5	14.92	117	19243	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	6991	0.75	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%

Target Compounds

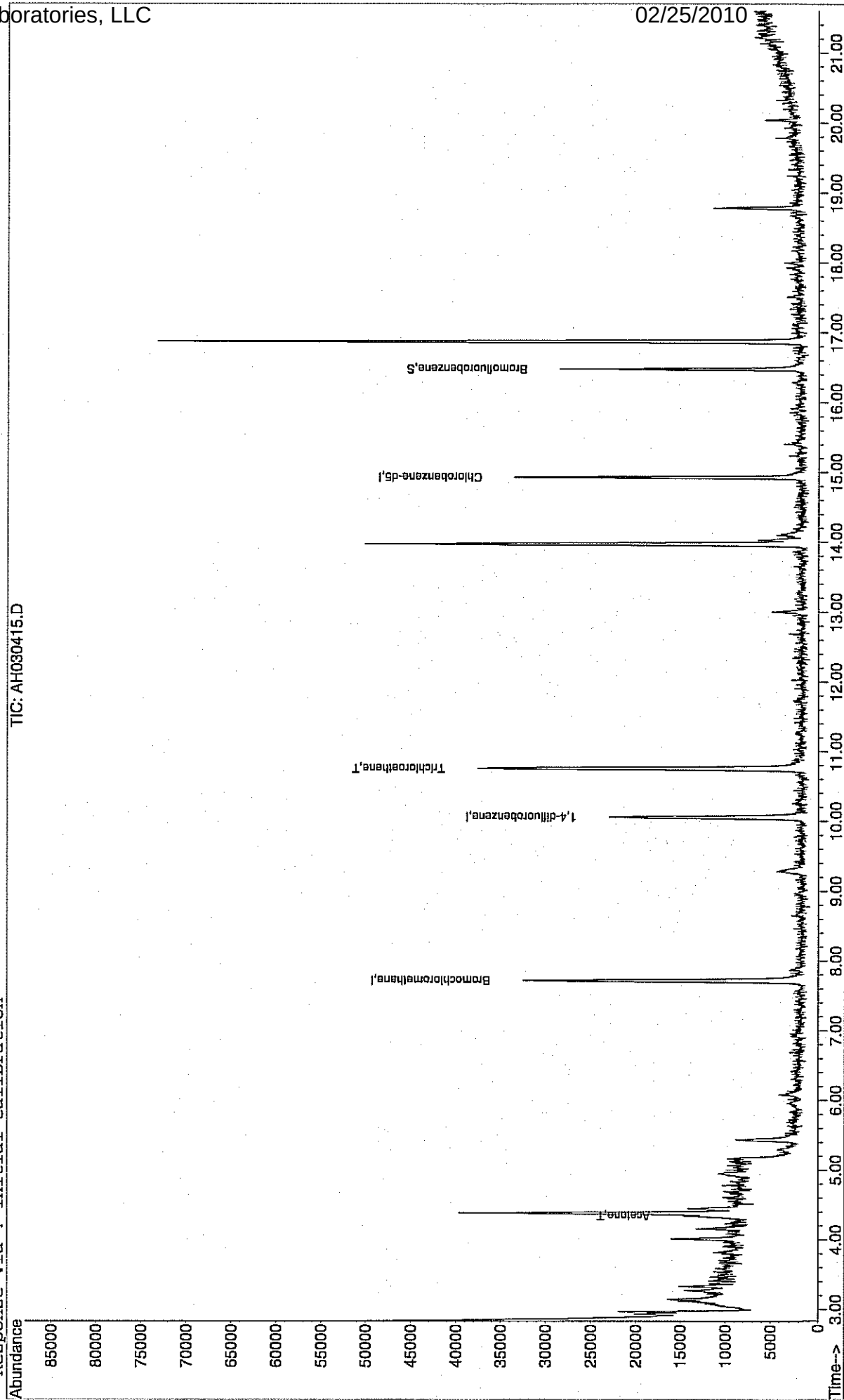
						Qvalue
12) Acetone	4.34	58	2409	0.58	ppb	# 69
38) Trichloroethene	10.76	130	16270	0.92	ppb	98

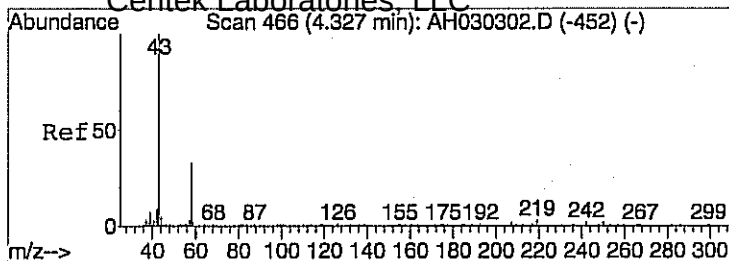
Data File : C:\HPCHEM\1\DATA\AH030415.D
Acq On : 4 Mar 2010 21:17
Sample : C1003003-001A 5X
Misc : C1003003-001A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:38 2010

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration





#12

Acetone

Concen: 0.58 ppb

RT: 4.34 min Scan# 469

Delta R.T. 0.03 min

Lab File: AH030415.D

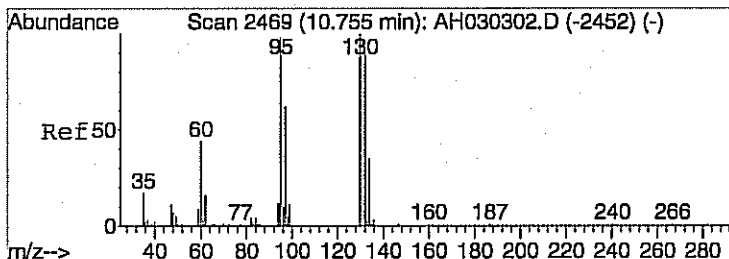
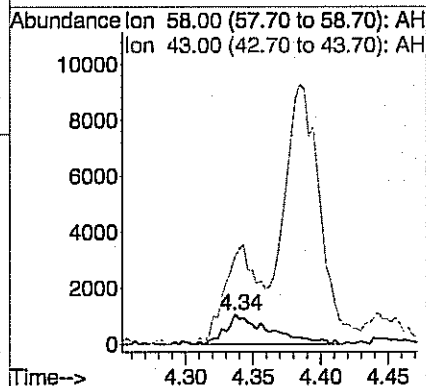
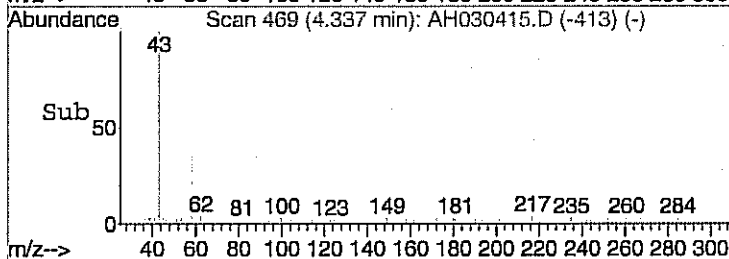
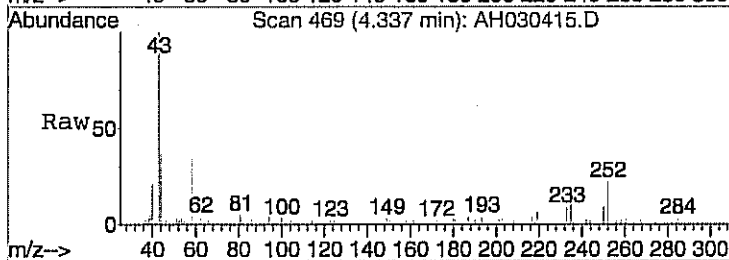
Acq: 4 Mar 2010 21:17

Tgt Ion: 58 Resp: 2409

Ion Ratio Lower Upper

58 100

43 282.9 320.6 380.6#



#38

Trichloroethene

Concen: 0.92 ppb

RT: 10.76 min Scan# 2471

Delta R.T. 0.02 min

Lab File: AH030415.D

Acq: 4 Mar 2010 21:17

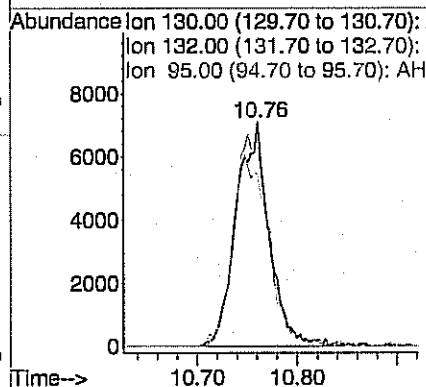
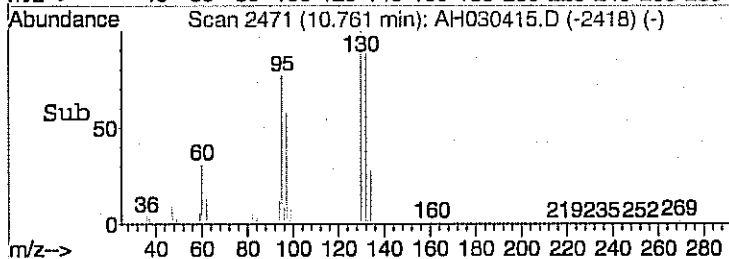
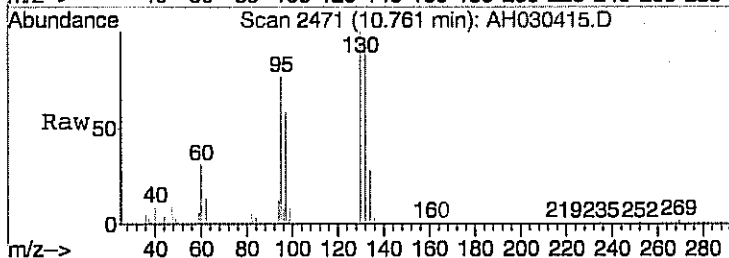
Tgt Ion: 130 Resp: 16270

Ion Ratio Lower Upper

130 100

132 98.4 78.1 118.1

95 92.4 76.7 116.7





Centek Laboratories

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-002A

Client Sample ID: 134-PRE-SS
 Tag Number: 219,666
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1		FLD	"Hg		Analyst: 3/1/2010
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	0.73	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	0.46	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	3/3/2010
4-ethyltoluene	0.21	0.15		ppbV	1	3/3/2010
Acetone	8.2	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.77	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	0.39	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	2.6	0.75		ppbV	5	3/4/2010
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	2.0	0.15		ppbV	1	3/3/2010
Chloromethane	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	2.5	0.75		ppbV	5	3/4/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	1.7	0.75		ppbV	5	3/4/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
Lab Order: C1003003
Project: LEICA
Lab ID: C1003003-002A

Client Sample ID: 134-PRE-SS
Tag Number: 219,666
Collection Date: 2/25/2010
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
Ethylbenzene	0.37	0.15		ppbV	1	3/3/2010
Freon 11	0.17	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.43	0.15		ppbV	1	3/3/2010
Heptane	1.8	0.75		ppbV	5	3/4/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	2.0	0.75		ppbV	5	3/4/2010
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/3/2010
m&p-Xylene	1.2	0.30		ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	0.43	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	0.26	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	2.1	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	10	0.75		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Surr. Bromofluorobenzene	103	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-002A

Client Sample ID: 134-PRE-SS
 Tag Number: 219,666
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
1,1,1-Trichloroethane	4.0	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	2.3	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	0.60	0.75	J	ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	0.47	0.71	J	ug/m3	1	3/3/2010
4-ethyltoluene	1.0	0.75		ug/m3	1	3/3/2010
Acetone	20	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	2.5	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	2.7	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	8.2	2.4		ug/m3	5	3/4/2010
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	9.7	0.74		ug/m3	1	3/3/2010
Chloromethane	< 0.31	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	10	3.0		ug/m3	5	3/4/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	5.9	2.6		ug/m3	5	3/4/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	1.6	0.66		ug/m3	1	3/3/2010
Freon 11	0.97	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-002A

Client Sample ID: 134-PRE-SS
 Tag Number: 219,666
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15	Analyst: RJP		
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.2	0.75		ug/m3	1	3/3/2010
Heptane	7.5	3.1		ug/m3	5	3/4/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	7.3	2.7		ug/m3	5	3/4/2010
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/3/2010
m&p-Xylene	5.5	1.3		ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	1.9	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	1.8	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	7.9	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	57	4.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/3/2010

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\AH030329.D

Vial: 2

Acq On : 4 Mar 2010 3:44

Operator: RJP

Sample : C1003003-002A

Inst : MSD #1

Misc : C1003003-002A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 04:06:18 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	12854	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	30161	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	44908	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	22432	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	103.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	2.97	85	33966	0.43	ppb	100
11) Freon 11	4.16	101	9926	0.17	ppb	94
12) Acetone	4.30	58	28587m	6.08	ppb	
18) Carbon disulfide	5.29	76	133966	2.39	ppb	98
24) cis-1,2-dichloroethene	7.29	61	67224	3.17	ppb	99
25) Hexane	6.92	41	48505	3.27	ppb	# 72
27) Chloroform	7.88	83	101761	1.95	ppb	99
31) 1,1,1-trichloroethane	8.66	97	28066	0.73	ppb	100
32) Cyclohexane	9.37	56	48145	4.13	ppb	# 40
33) Carbon tetrachloride	9.30	117	5048	0.10	ppb	97
34) Benzene	9.26	78	27503	0.77	ppb	95
36) 2,2,4-trimethylpentane	10.23	57	3466	0.10	ppb	# 38
37) Heptane	10.66	43	37368	3.44	ppb	96
38) Trichloroethene	10.75	130	203483	8.54	ppb	98
40) Bromodichloromethane	11.25	83	14305	0.39	ppb	98
45) Toluene	13.00	92	80765	2.07	ppb	99
50) Tetrachloroethylene	14.02	164	11906	0.26	ppb	100
52) Ethylbenzene	15.23	91	29085	0.37	ppb	98
53) m&p-xylene	15.40	91	86111	1.25	ppb	100
56) o-xylene	15.85	91	34123	0.43	ppb	96
59) 4-ethyltoluene	17.03	105	10046m	0.21	ppb	
60) 1,3,5-trimethylbenzene	17.10	105	8725m	0.12	ppb	
61) 1,2,4-trimethylbenzene	17.50	105	27268	0.46	ppb	99

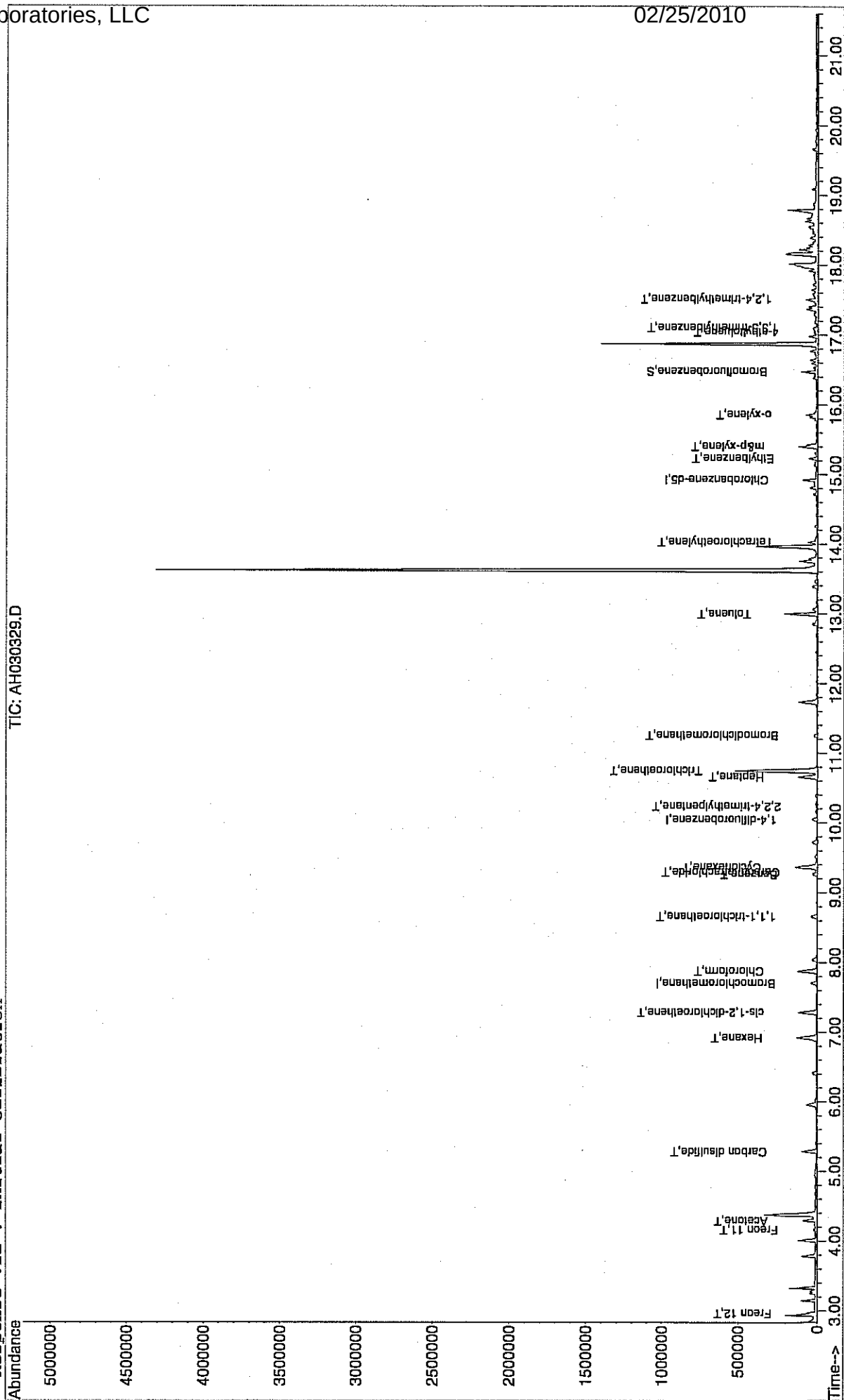
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Acq On : 4 Mar 2010 3:44
Sample : C1003003-002A
Misc : C1003003-002A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:30 2010

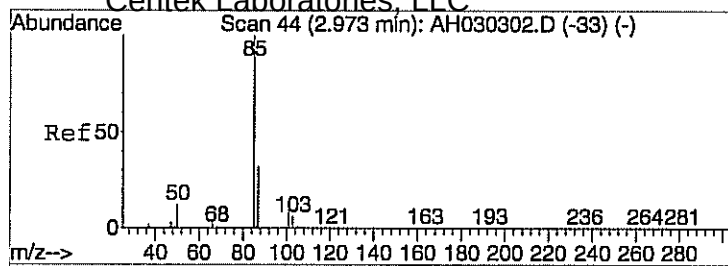
Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

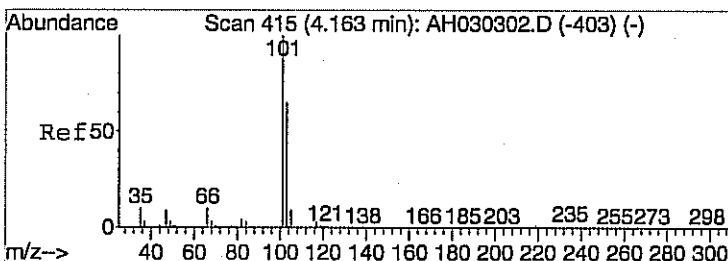
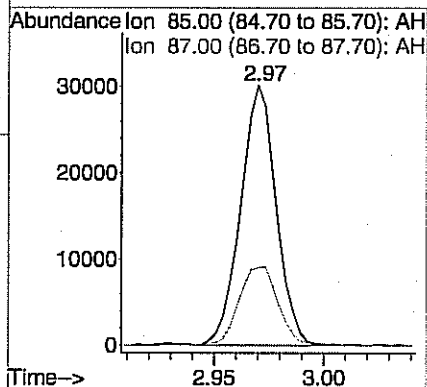
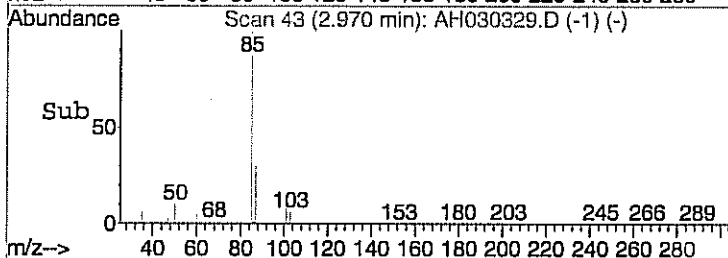
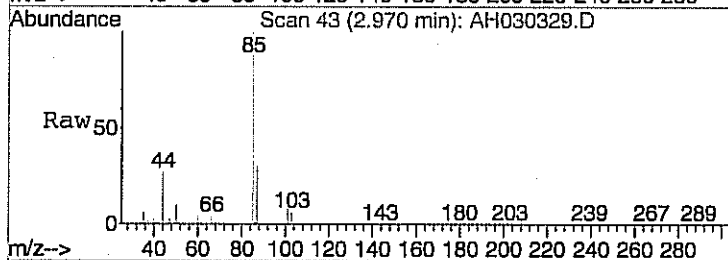
TIC: AH030329.D





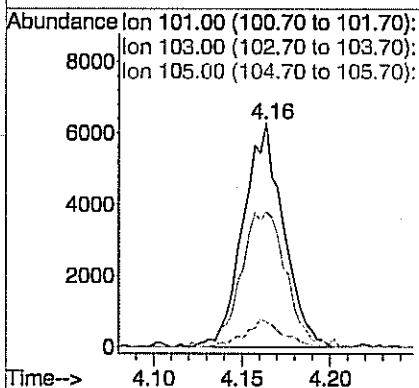
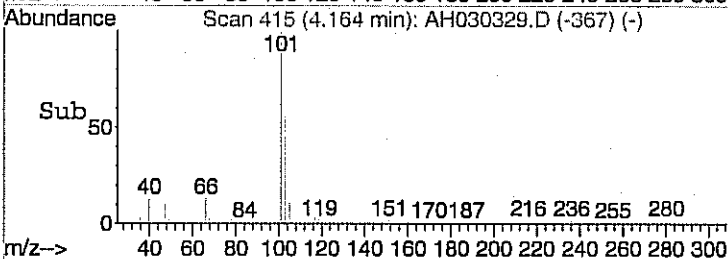
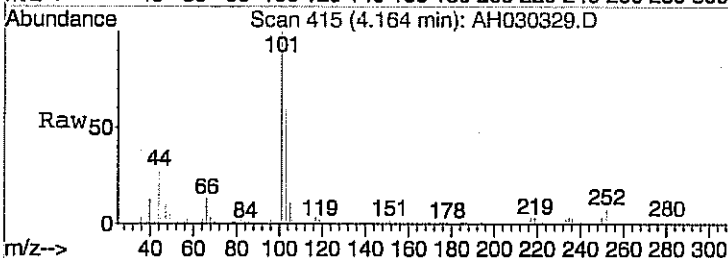
#3
Freon 12
Concen: 0.43 ppb
RT: 2.97 min Scan# 43
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

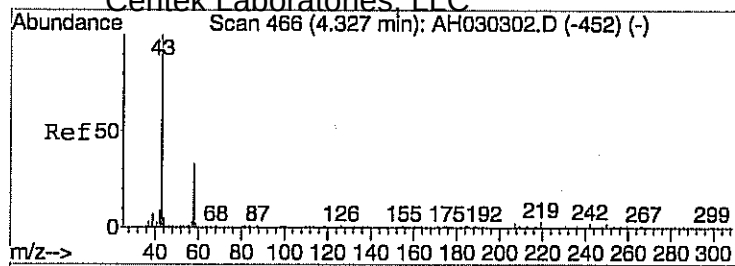
Tgt Ion: 85 Resp: 33966
Ion Ratio Lower Upper
85 100
87 33.3 13.2 53.2



#11
Freon 11
Concen: 0.17 ppb
RT: 4.16 min Scan# 415
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

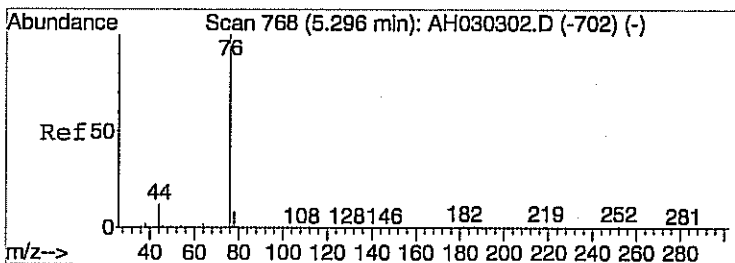
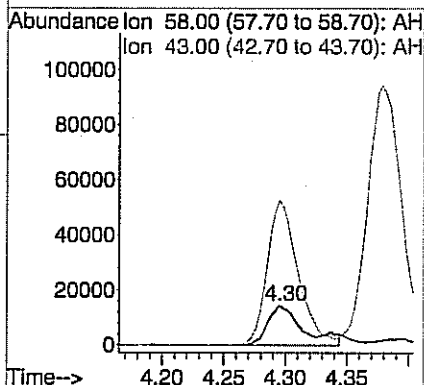
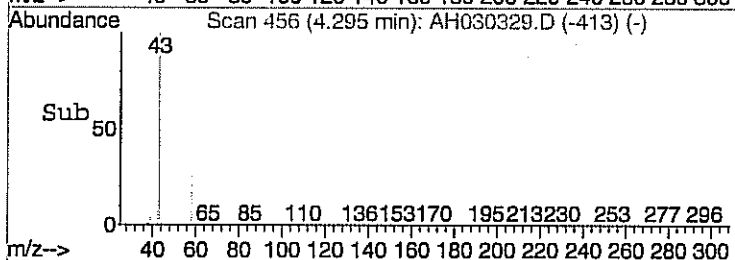
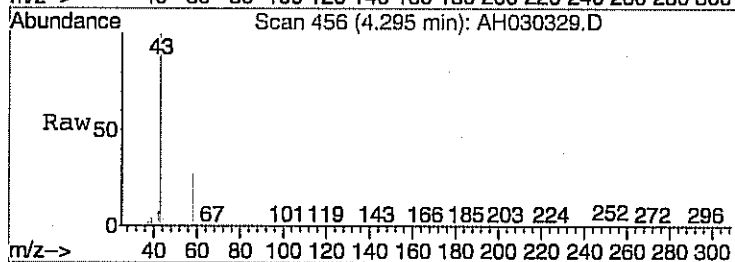
Tgt Ion: 101 Resp: 9926
Ion Ratio Lower Upper
101 100
103 68.6 43.9 83.9
105 11.7 0.0 30.7





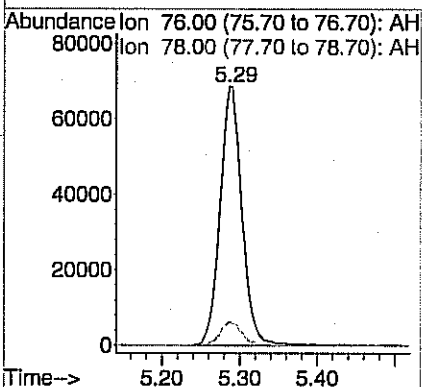
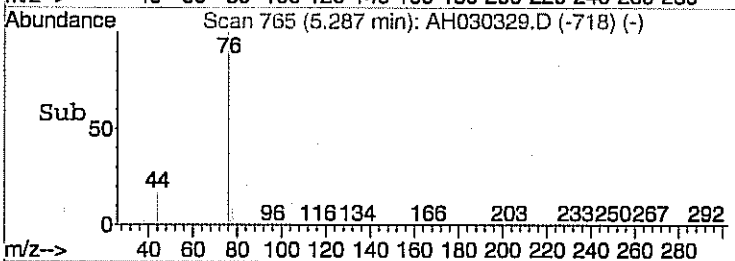
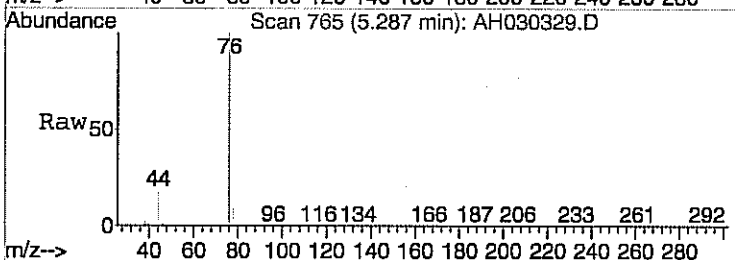
#12
Acetone
Concen: 6.08 ppb m
RT: 4.30 min Scan# 456
Delta R.T. -0.01 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

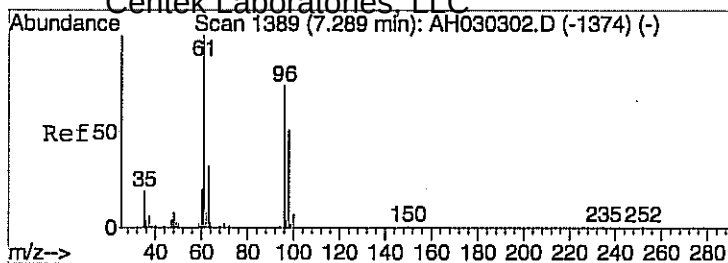
Tgt Ion: 58 Resp: 28587
Ion Ratio Lower Upper
58 100
43 321.7 320.6 380.6



#18
Carbon disulfide
Concen: 2.39 ppb
RT: 5.29 min Scan# 765
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

Tgt Ion: 76 Resp: 133966
Ion Ratio Lower Upper
76 100
78 9.2 0.0 30.0





#24

cis-1,2-dichloroethene

Concen: 3.17 ppb

RT: 7.29 min Scan# 1388

Delta R.T. 0.00 min

Lab File: AH030329.D

Acq: 4 Mar 2010 3:44

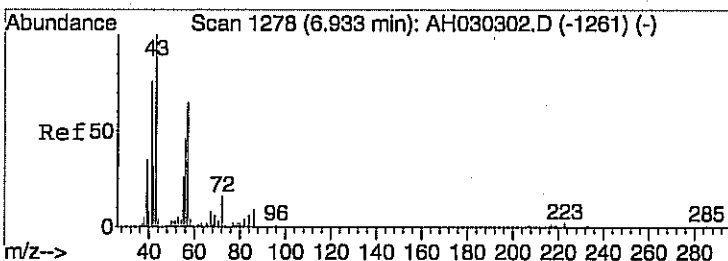
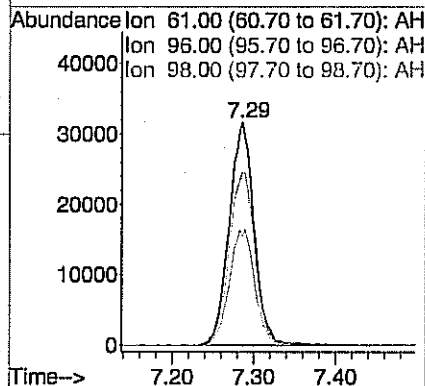
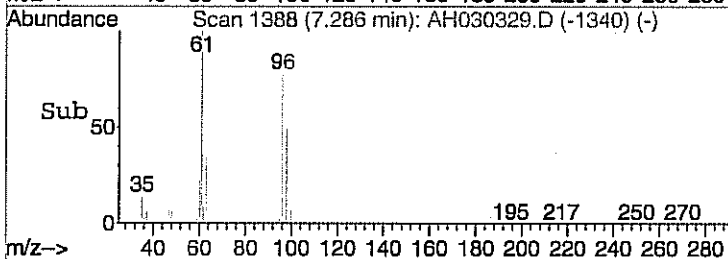
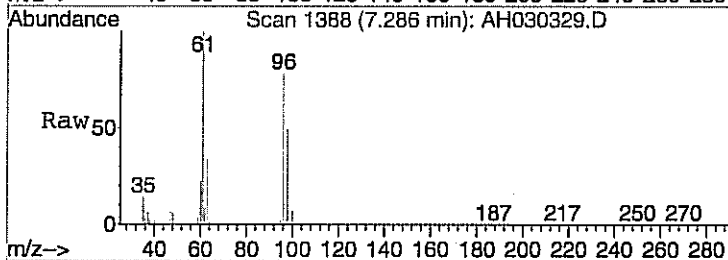
Tgt Ion: 61 Resp: 67224

Ion Ratio Lower Upper

61 100

96 81.4 61.2 101.2

98 53.7 32.6 72.6



#25

Hexane

Concen: 3.27 ppb

RT: 6.92 min Scan# 1274

Delta R.T. 0.00 min

Lab File: AH030329.D

Acq: 4 Mar 2010 3:44

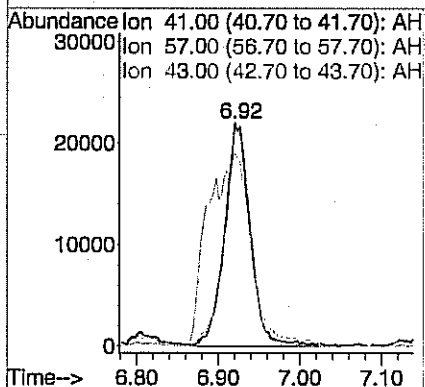
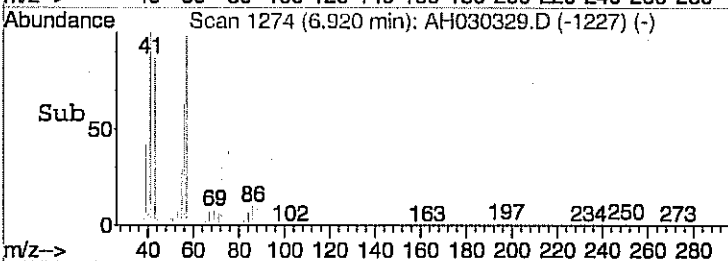
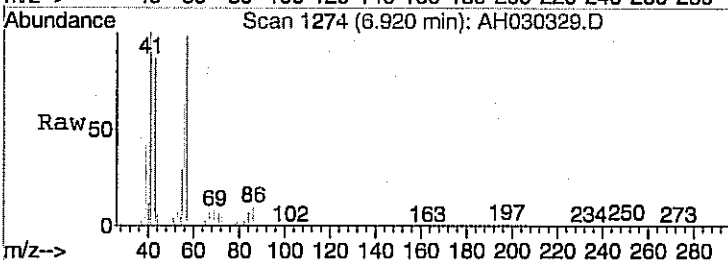
Tgt Ion: 41 Resp: 48505

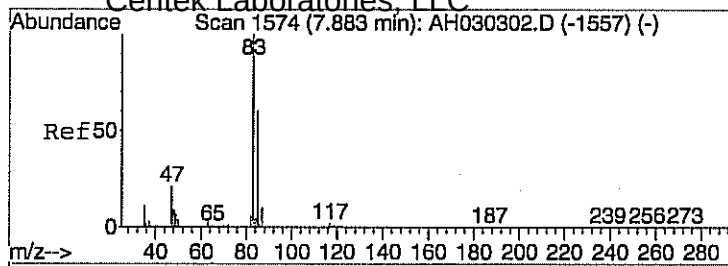
Ion Ratio Lower Upper

41 100

57 100.7 87.3 127.3

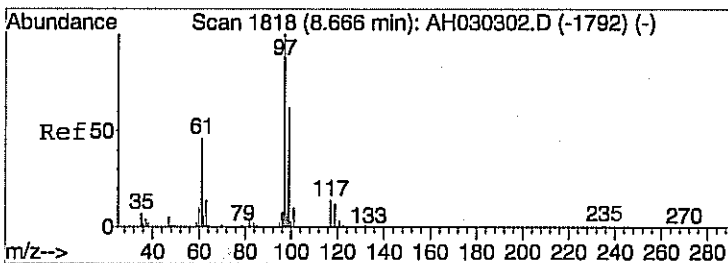
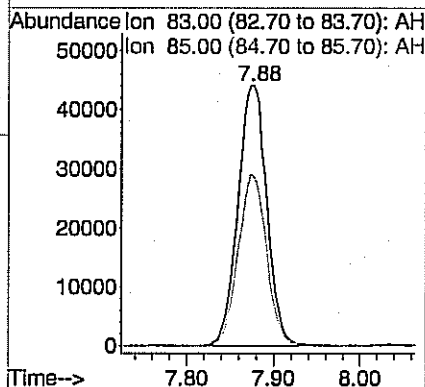
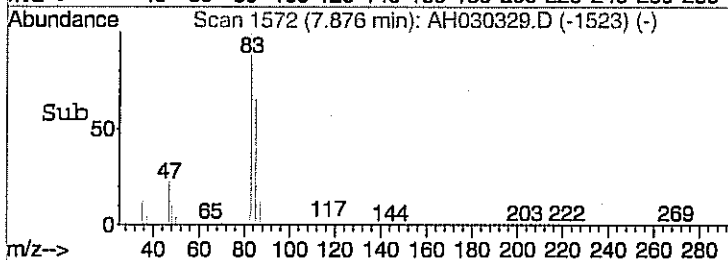
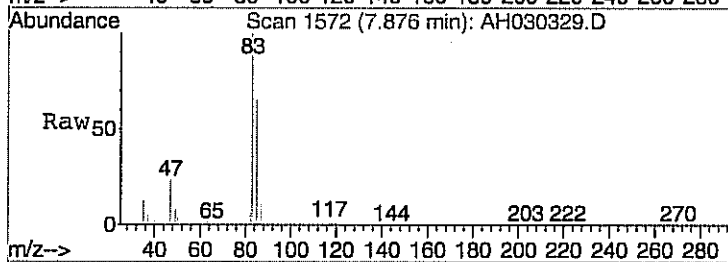
43 141.7 181.3 221.3#





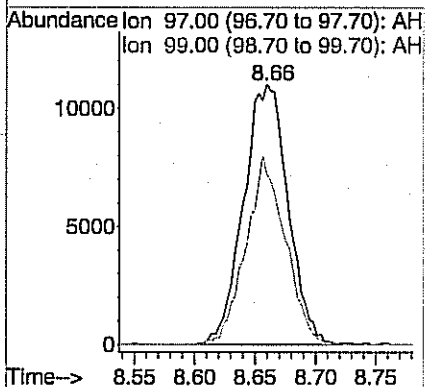
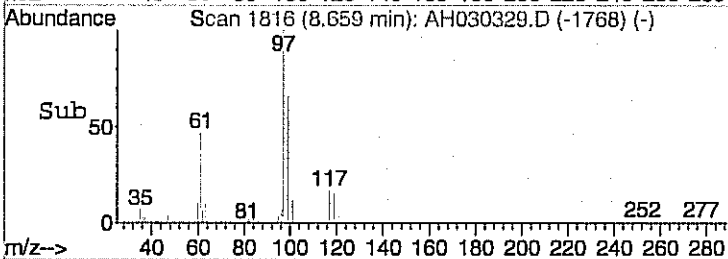
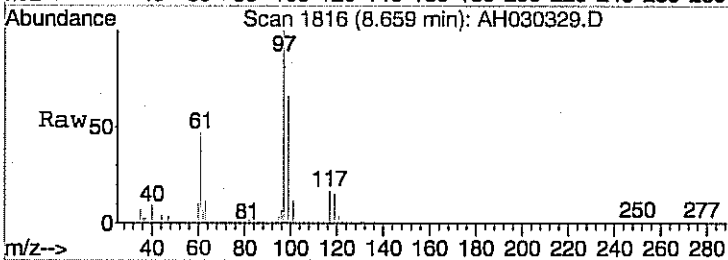
#27
Chloroform
Concen: 1.95 ppb
RT: 7.88 min Scan# 1572
Delta R.T. 0.01 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

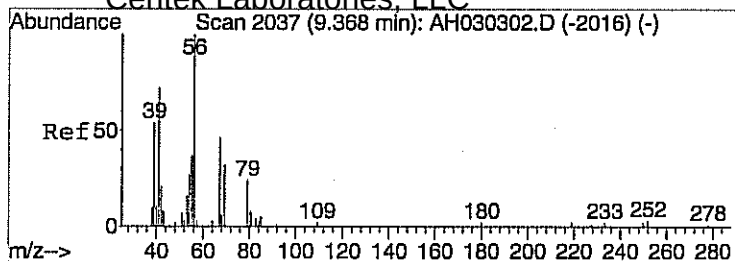
Tgt Ion: 83 Resp: 101761
Ion Ratio Lower Upper
83 100
85 65.2 45.9 85.9



#31
1,1,1-trichloroethane
Concen: 0.73 ppb
RT: 8.66 min Scan# 1816
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

Tgt Ion: 97 Resp: 28066
Ion Ratio Lower Upper
97 100
99 64.4 44.3 84.3





#32

Cyclohexane

Concen: 4.13 ppb

RT: 9.37 min Scan# 2036

Delta R.T. 0.01 min

Lab File: AH030329.D

Acq: 4 Mar 2010 3:44

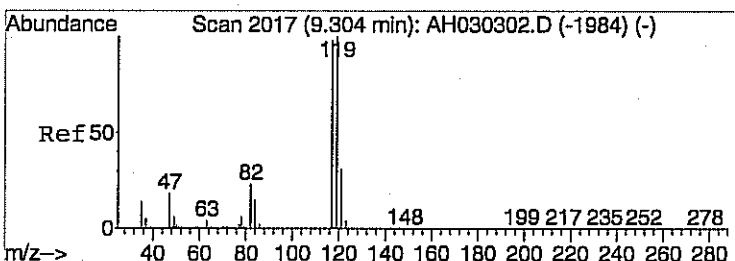
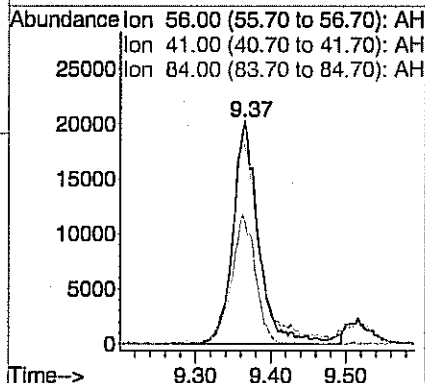
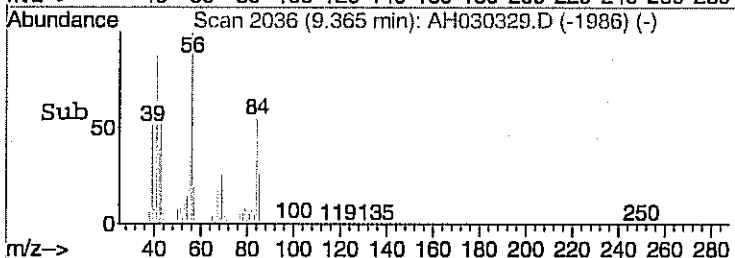
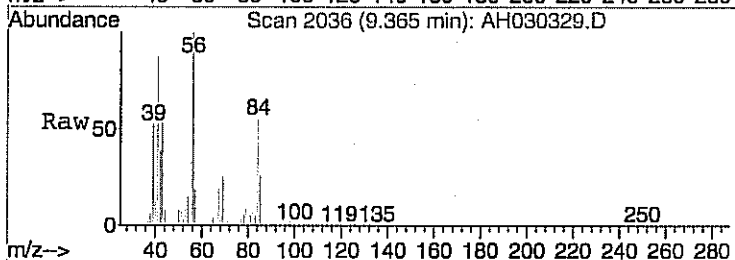
Tgt Ion: 56 Resp: 48145

Ion Ratio Lower Upper

56 100

41 96.8 51.6 91.6#

84 52.8 126.0 166.0#



#33

Carbon tetrachloride

Concen: 0.10 ppb

RT: 9.30 min Scan# 2016

Delta R.T. 0.01 min

Lab File: AH030329.D

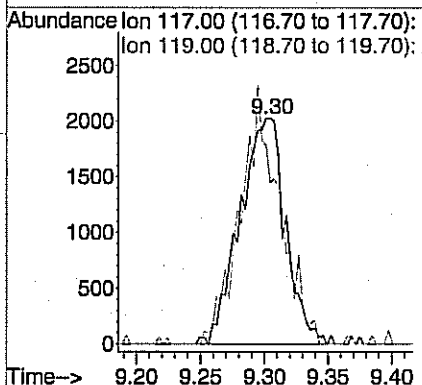
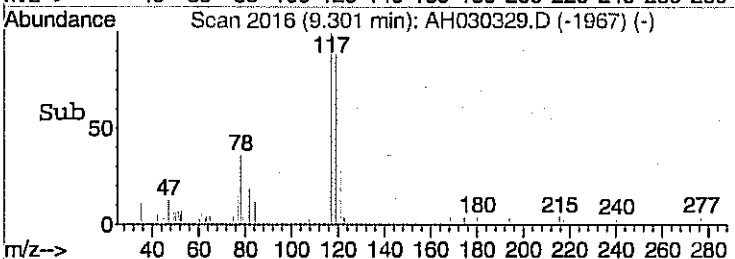
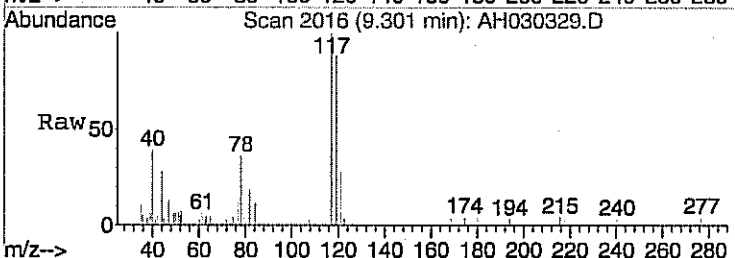
Acq: 4 Mar 2010 3:44

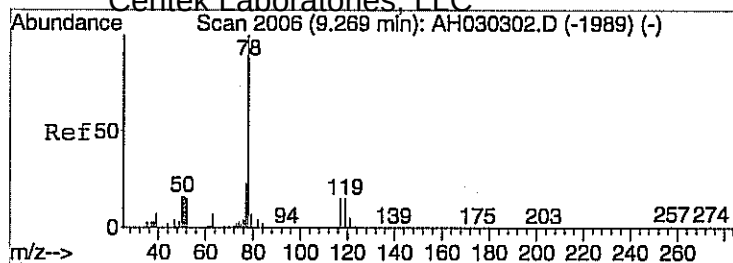
Tgt Ion: 117 Resp: 5048

Ion Ratio Lower Upper

117 100

119 98.3 75.3 115.3





#34

Benzene

Concen: 0.77 ppb

RT: 9.26 min Scan# 2004

Delta R.T. 0.01 min

Lab File: AH030329.D

Acq: 4 Mar 2010 3:44

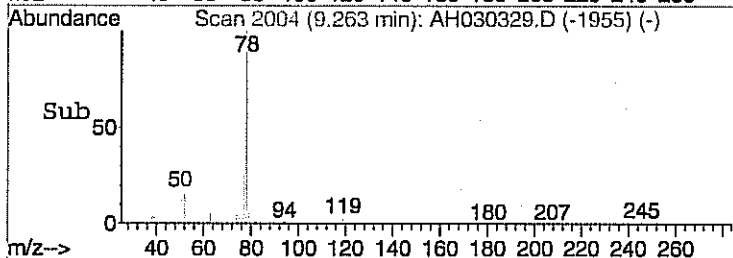
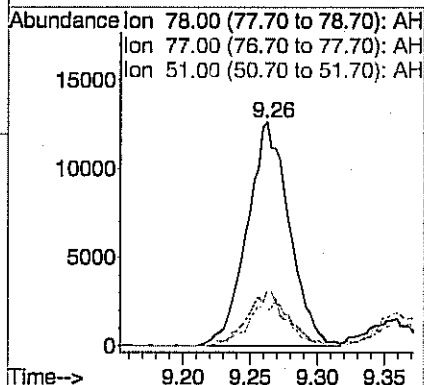
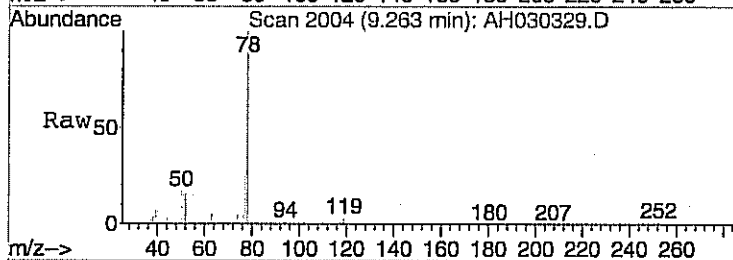
Tgt Ion: 78 Resp: 27503

Ion Ratio Lower Upper

78 100

77 25.9 2.7 42.7

51 19.1 1.1 41.1



#36

2,2,4-trimethylpentane

Concen: 0.10 ppb

RT: 10.23 min Scan# 2304

Delta R.T. -0.01 min

Lab File: AH030329.D

Acq: 4 Mar 2010 3:44

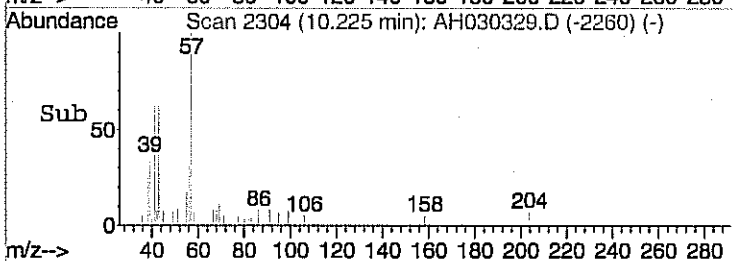
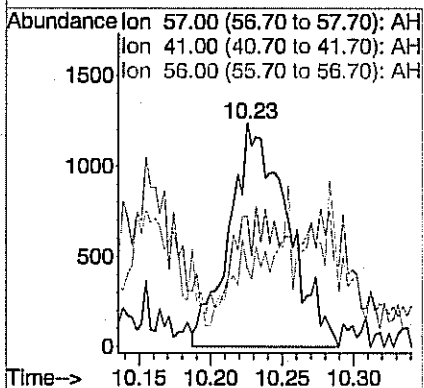
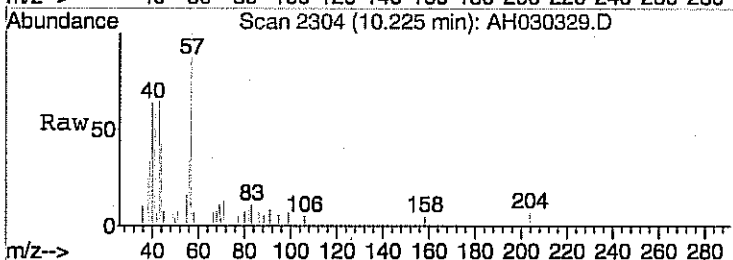
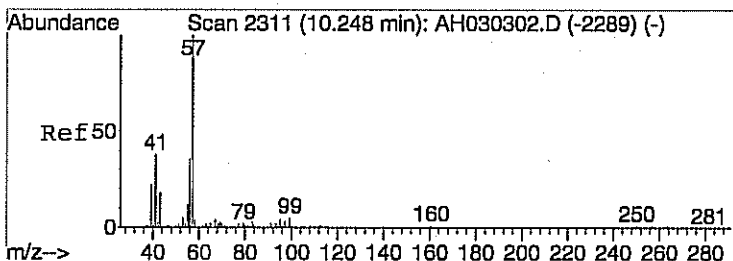
Tgt Ion: 57 Resp: 3466

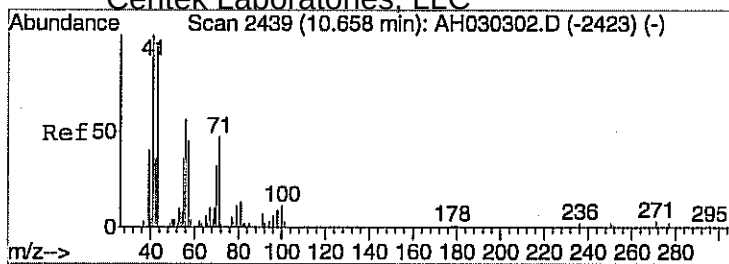
Ion Ratio Lower Upper

57 100

41 0.0 18.7 58.7#

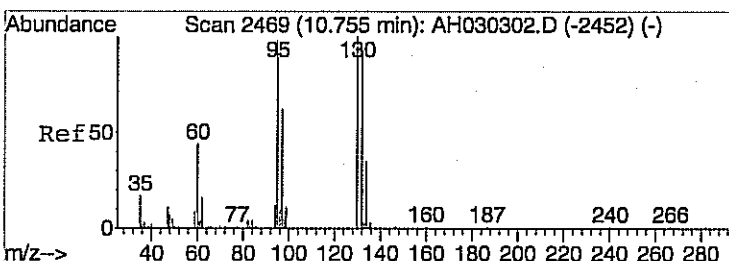
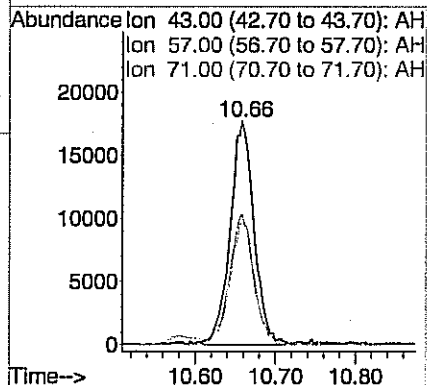
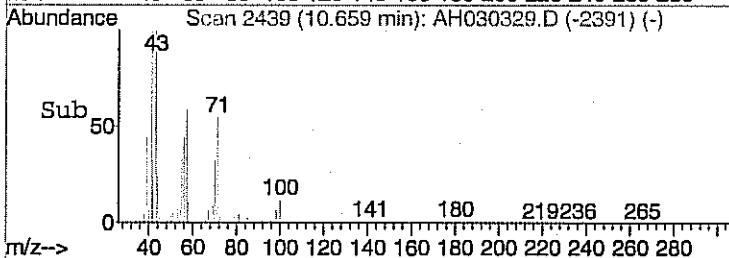
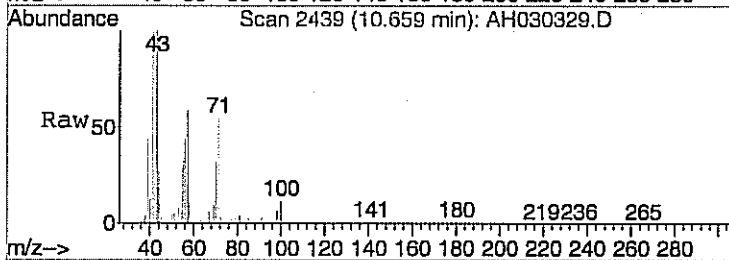
56 0.0 14.5 54.5#





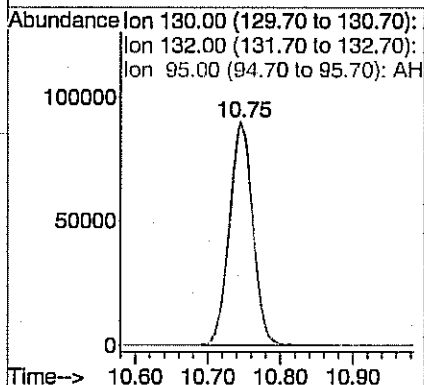
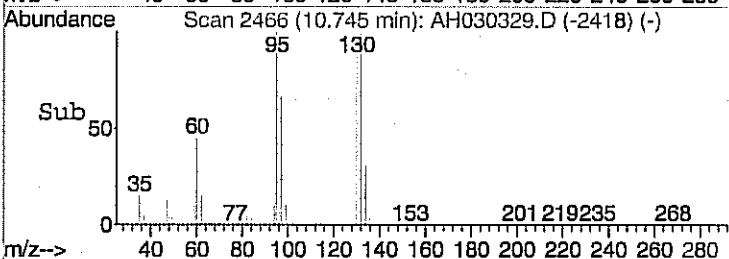
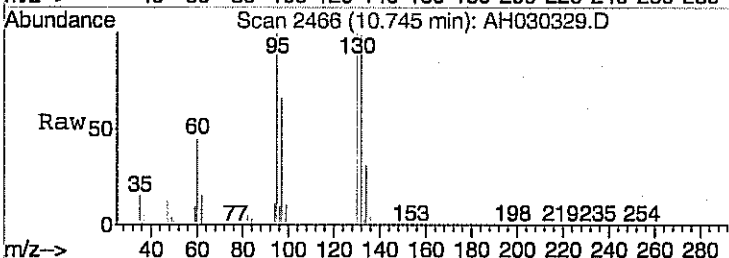
#37
Heptane
Concen: 3.44 ppb
RT: 10.66 min Scan# 2439
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

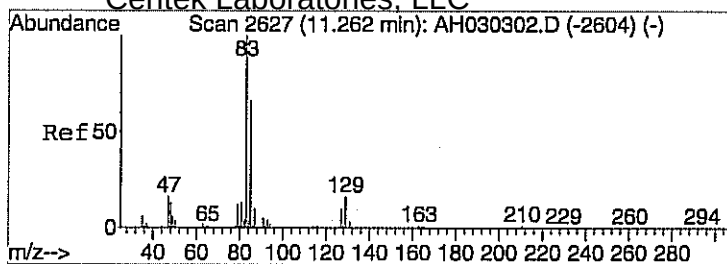
Tgt Ion: 43 Resp: 37368
Ion Ratio Lower Upper
43 100
57 58.8 34.5 74.5
71 54.4 33.7 73.7



#38
Trichloroethene
Concen: 8.54 ppb
RT: 10.75 min Scan# 2466
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

Tgt Ion: 130 Resp: 203483
Ion Ratio Lower Upper
130 100
132 97.2 78.1 118.1
95 98.9 76.7 116.7





#40

Bromodichloromethane

Concen: 0.39 ppb

RT: 11.25 min Scan# 2624

Delta R.T. 0.00 min

Lab File: AH030329.D

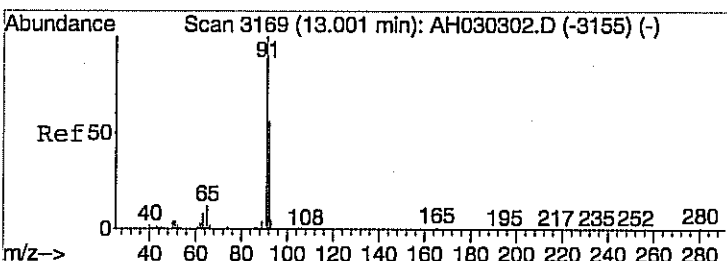
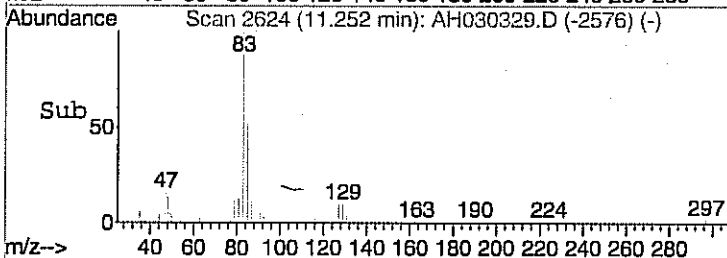
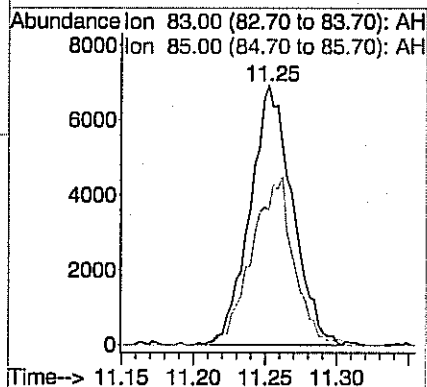
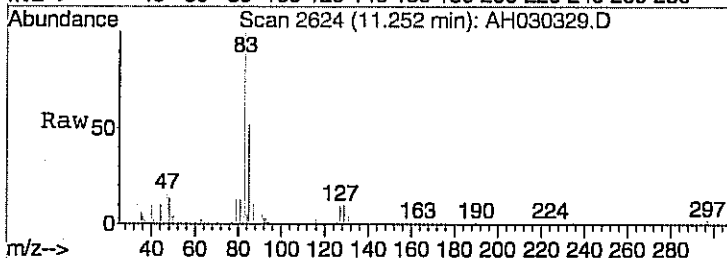
Acq: 4 Mar 2010 3:44

Tgt Ion: 83 Resp: 14305

Ion Ratio Lower Upper

83 100

85 63.8 45.0 85.0



#45

Toluene

Concen: 2.07 ppb

RT: 13.00 min Scan# 3168

Delta R.T. 0.01 min

Lab File: AH030329.D

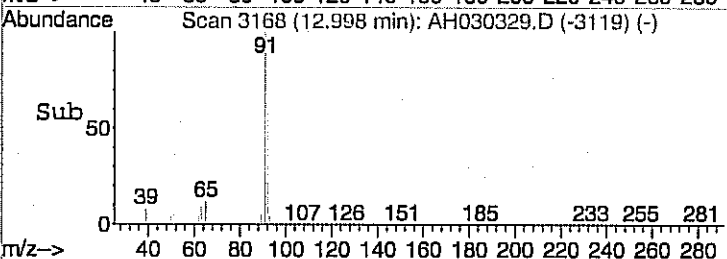
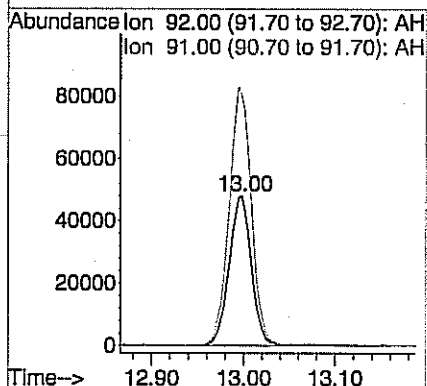
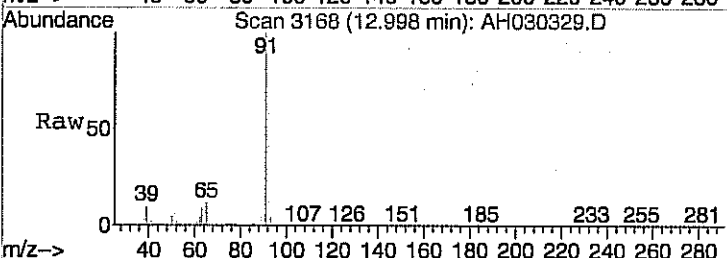
Acq: 4 Mar 2010 3:44

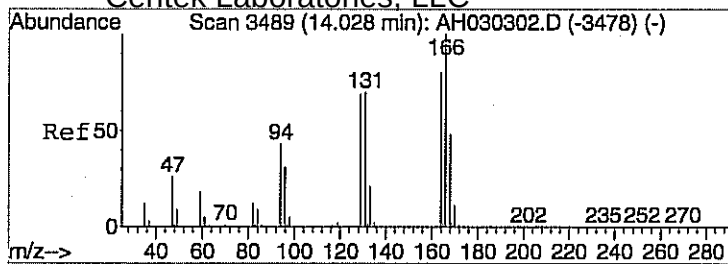
Tgt Ion: 92 Resp: 80765

Ion Ratio Lower Upper

92 100

91 173.8 152.9 192.9





#50

Tetrachloroethylene

Concen: 0.26 ppb

RT: 14.02 min Scan# 3488

Delta R.T. 0.00 min

Lab File: AH030329.D

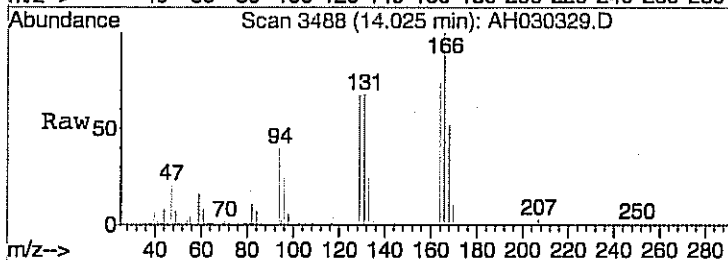
Acq: 4 Mar 2010 3:44

Tgt Ion: 164 Resp: 11906

Ion Ratio Lower Upper

164 100

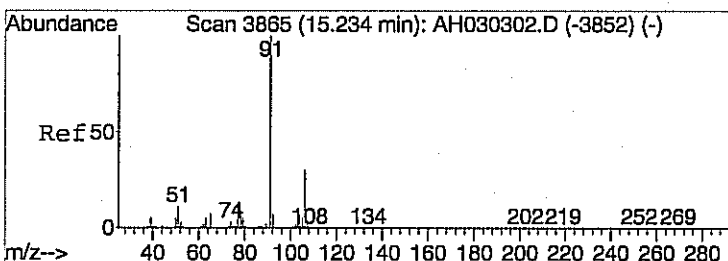
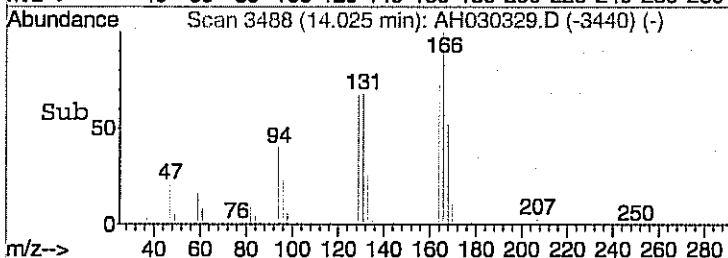
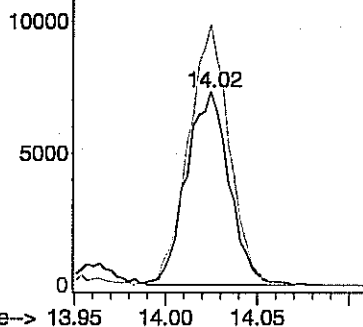
166 127.9 107.9 147.9



Abundance

Ion 164.00 (163.70 to 164.70):

Ion 166.00 (165.70 to 166.70):



#52

Ethylbenzene

Concen: 0.37 ppb

RT: 15.23 min Scan# 3863

Delta R.T. 0.00 min

Lab File: AH030329.D

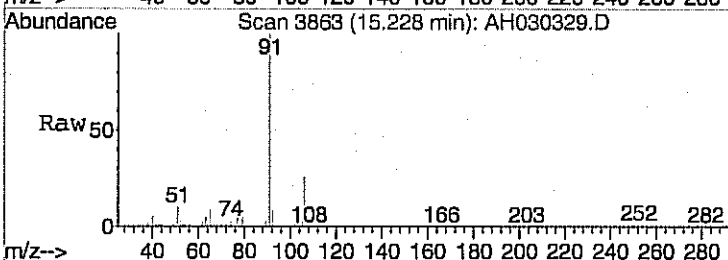
Acq: 4 Mar 2010 3:44

Tgt Ion: 91 Resp: 29085

Ion Ratio Lower Upper

91 100

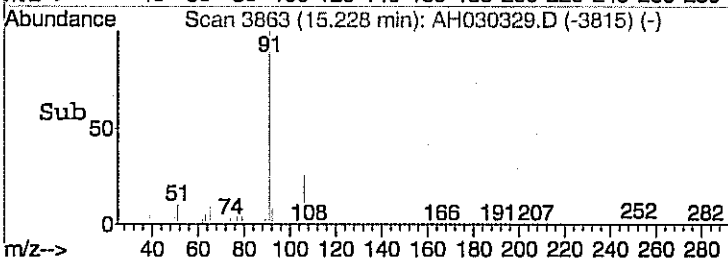
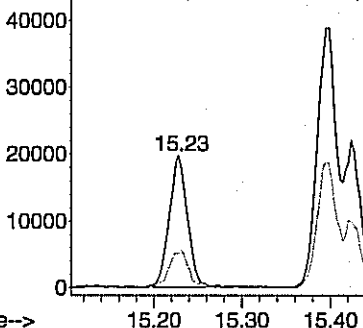
106 29.7 10.9 50.9

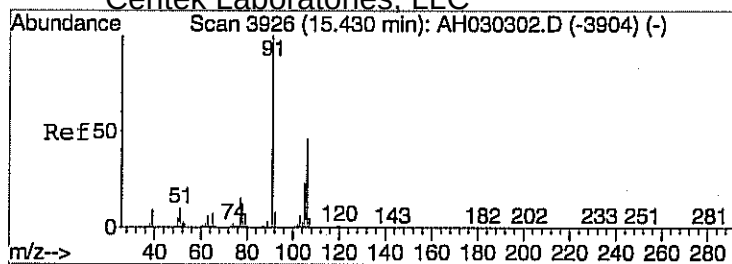


Abundance

Ion 91.00 (90.70 to 91.70): AH

Ion 106.00 (105.70 to 106.70):





#53

m&p-xylene

Concen: 1.25 ppb

RT: 15.40 min Scan# 3916

Delta R.T. -0.02 min

Lab File: AH030329.D

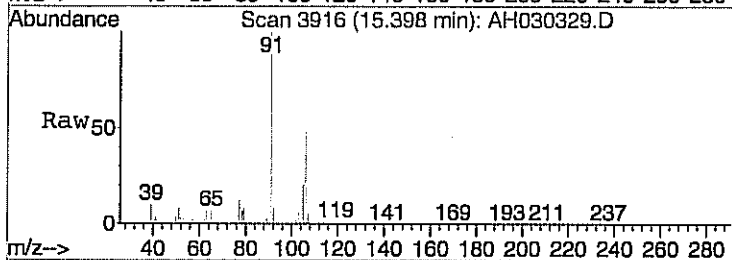
Acq: 4 Mar 2010 3:44

Tgt Ion: 91 Resp: 86111

Ion Ratio Lower Upper

91 100

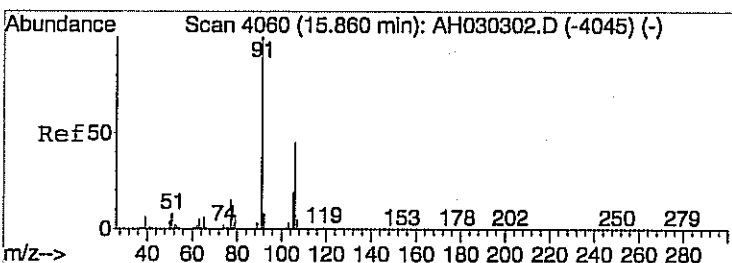
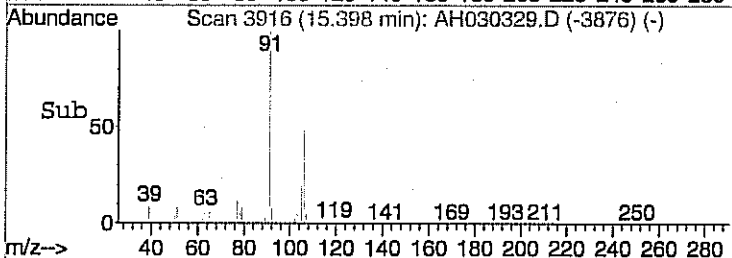
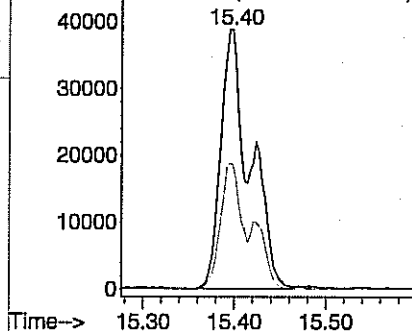
106 48.1 28.0 68.0



Abundance

Ion 91.00 (90.70 to 91.70): AH

Ion 106.00 (105.70 to 106.70):



#56

o-xylene

Concen: 0.43 ppb

RT: 15.85 min Scan# 4058

Delta R.T. 0.01 min

Lab File: AH030329.D

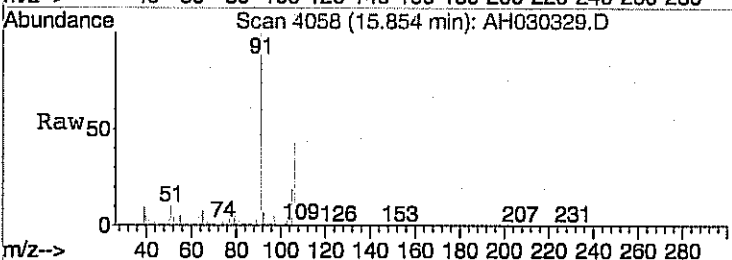
Acq: 4 Mar 2010 3:44

Tgt Ion: 91 Resp: 34123

Ion Ratio Lower Upper

91 100

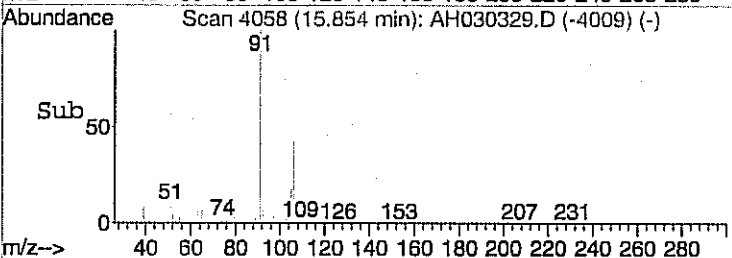
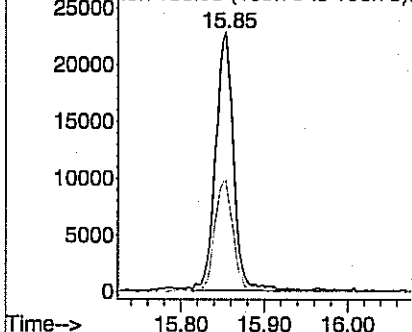
106 44.5 27.3 67.3

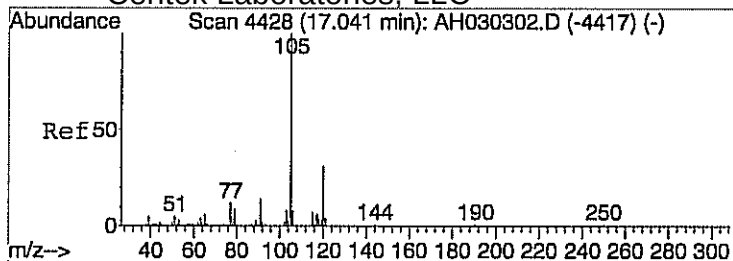


Abundance

Ion 91.00 (90.70 to 91.70): AH

Ion 106.00 (105.70 to 106.70):





#59

4-ethyltoluene

Concen: 0.21 ppb m

RT: 17.03 min Scan# 4426

Delta R.T. 0.00 min

Lab File: AH030329.D

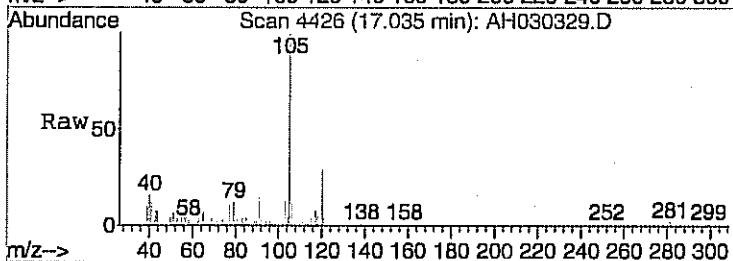
Acq: 4 Mar 2010 3:44

Tgt Ion:105 Resp: 10046

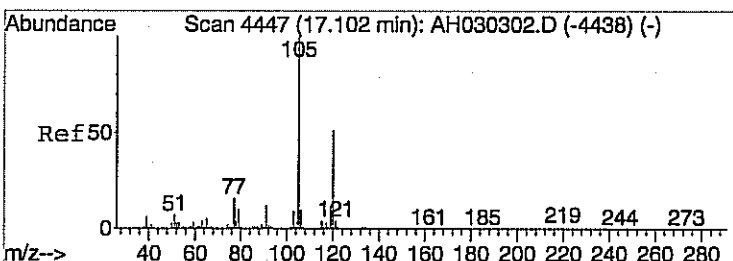
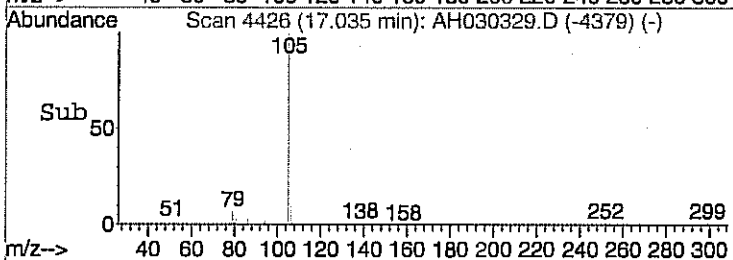
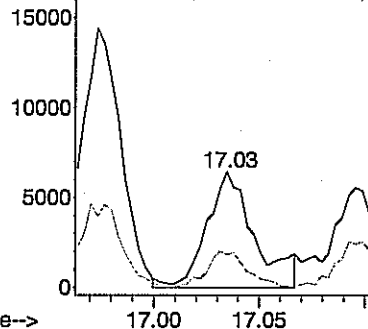
Ion Ratio Lower Upper

105 100

120 26.9 9.4 49.4



Abundance Ion 105.00 (104.70 to 105.70):
Ion 120.00 (119.70 to 120.70):



#60

1,3,5-trimethylbenzene

Concen: 0.12 ppb m

RT: 17.10 min Scan# 4445

Delta R.T. 0.00 min

Lab File: AH030329.D

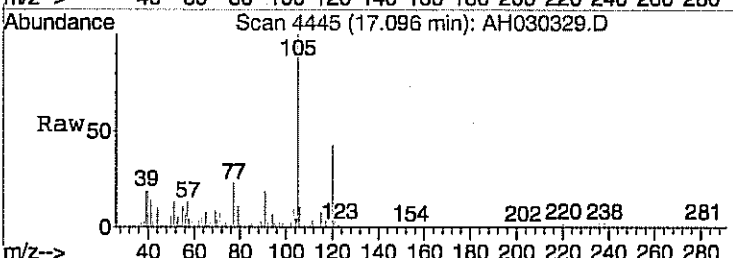
Acq: 4 Mar 2010 3:44

Tgt Ion:105 Resp: 8725

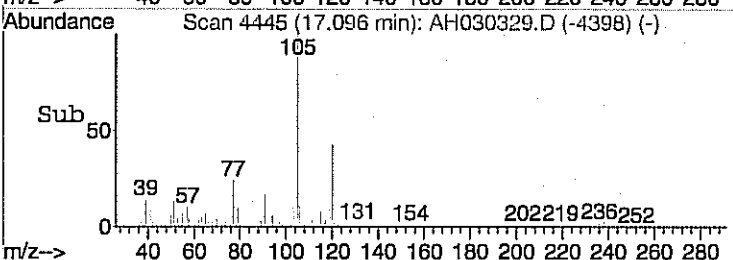
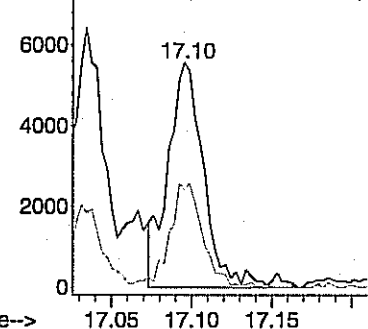
Ion Ratio Lower Upper

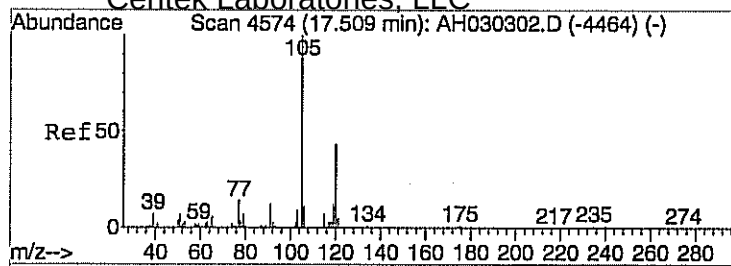
105 100

120 42.9 27.8 67.8



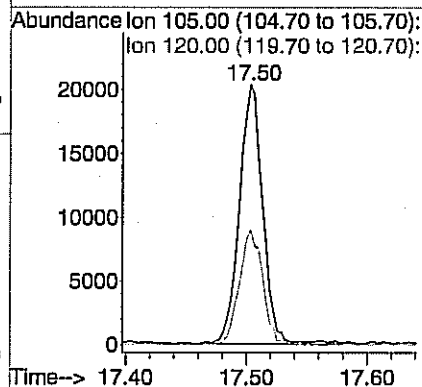
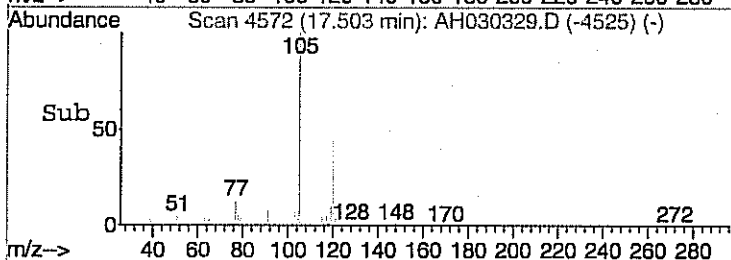
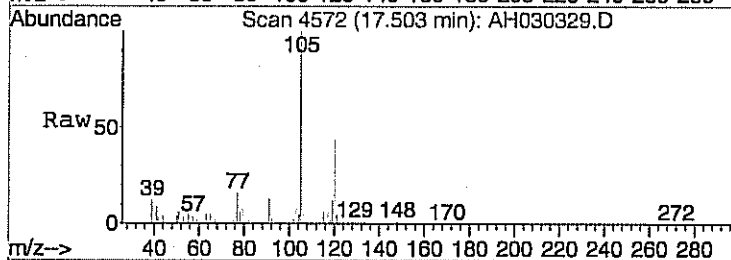
Abundance Ion 105.00 (104.70 to 105.70):
Ion 120.00 (119.70 to 120.70):





#61
1,2,4-trimethylbenzene
Concen: 0.46 ppb
RT: 17.50 min Scan# 4572
Delta R.T. 0.00 min
Lab File: AH030329.D
Acq: 4 Mar 2010 3:44

Tgt Ion: 105 Resp: 27268
Ion Ratio Lower Upper
105 100
120 44.8 25.2 65.2



Data File : C:\HPCHEM\1\DATA\AH030416.D

Vial: 12

Acq On : 4 Mar 2010 21:53

Operator: RJP

Sample : C1003003-002A 5X

Inst : MSD #1

Misc : C1003003-002A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 22:15:24 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11487	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	24477	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	24864	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	9192	0.77	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	77.00%

Target Compounds

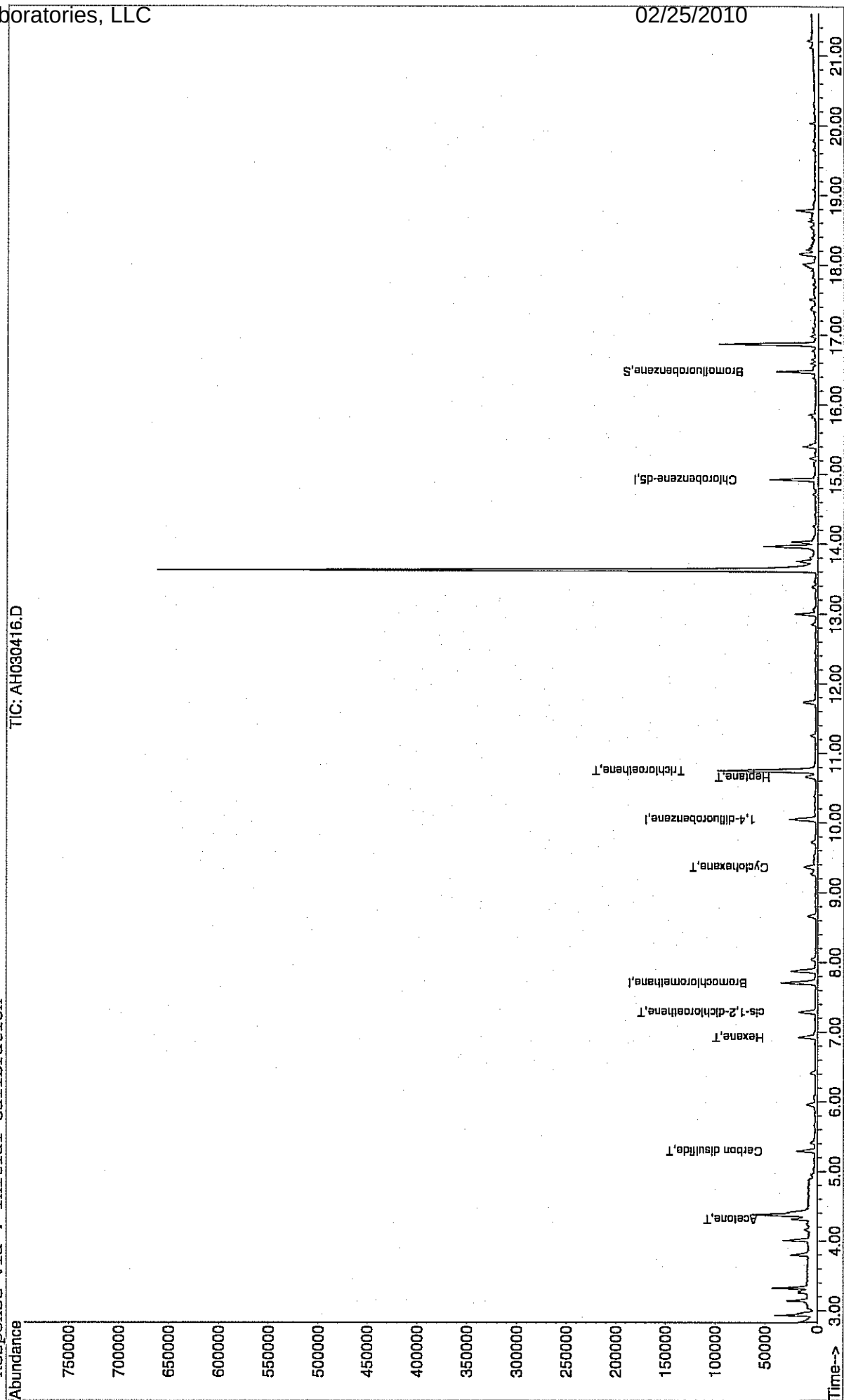
						Qvalue
12) Acetone	4.32	58	6937	1.65	ppb	# 66
18) Carbon disulfide	5.30	76	26034	0.52	ppb	# 98
24) cis-1,2-dichloroethene	7.29	61	9498	0.50	ppb	# 93
25) Hexane	6.93	41	5413	0.41	ppb	# 71
32) Cyclohexane	9.37	56	3254	0.34	ppb	# 48
37) Heptane	10.66	43	3204	0.36	ppb	# 85
38) Trichloroethene	10.75	130	40526	2.09	ppb	# 96

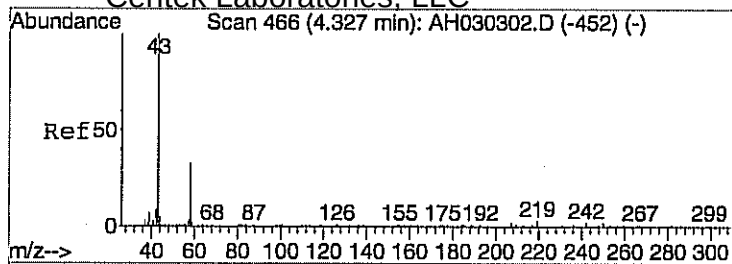
Data File : C:\HPCHEM\1\DATA\AH030416.D
Acq On : 4 Mar 2010 21:53
Sample : C1003003-002A 5X
Misc : C1003003-002A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:39 2010

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration





#12

Acetone

Concen: 1.65 ppb

RT: 4.32 min Scan# 463

Delta R.T. 0.01 min

Lab File: AH030416.D

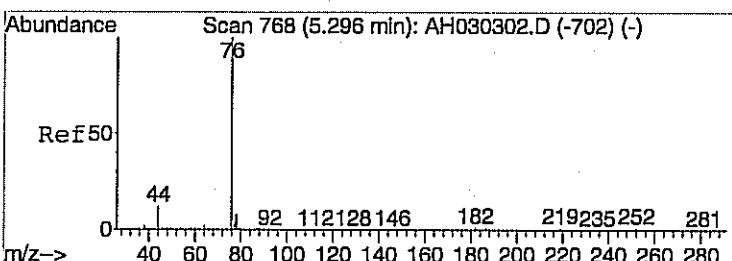
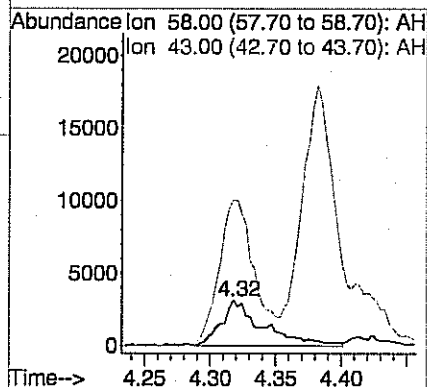
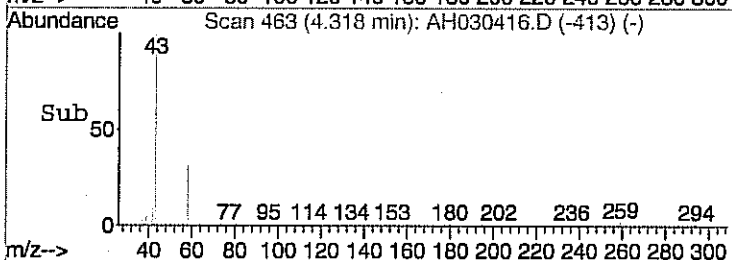
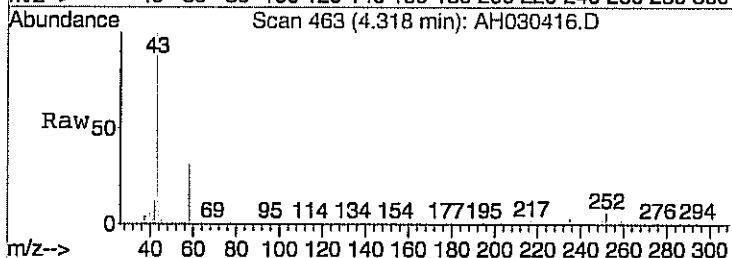
Acq: 4 Mar 2010 21:53

Tgt Ion: 58 Resp: 6937

Ion Ratio Lower Upper

58 100

43 276.7 320.6 380.6#



#18

Carbon disulfide

Concen: 0.52 ppb

RT: 5.30 min Scan# 768

Delta R.T. 0.01 min

Lab File: AH030416.D

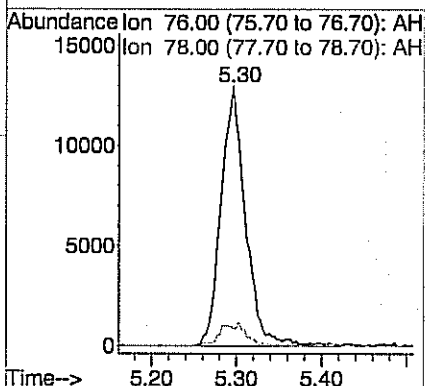
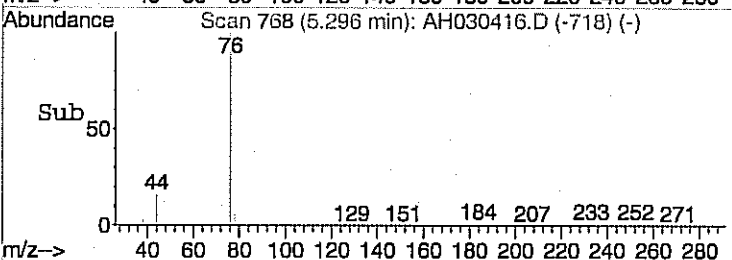
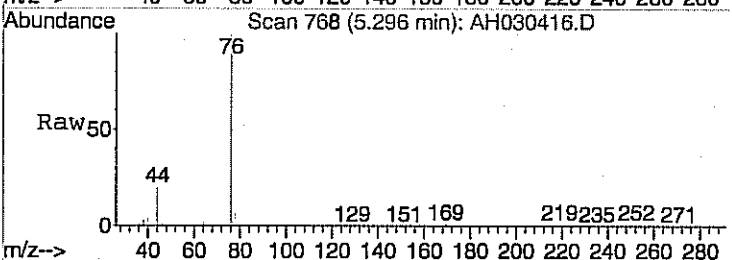
Acq: 4 Mar 2010 21:53

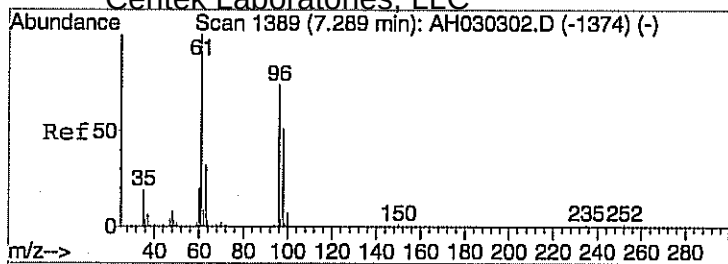
Tgt Ion: 76 Resp: 26034

Ion Ratio Lower Upper

76 100

78 9.3 0.0 30.0





#24

cis-1,2-dichloroethene

Concen: 0.50 ppb

RT: 7.29 min Scan# 1390

Delta R.T. 0.01 min

Lab File: AH030416.D

Acq: 4 Mar 2010 21:53

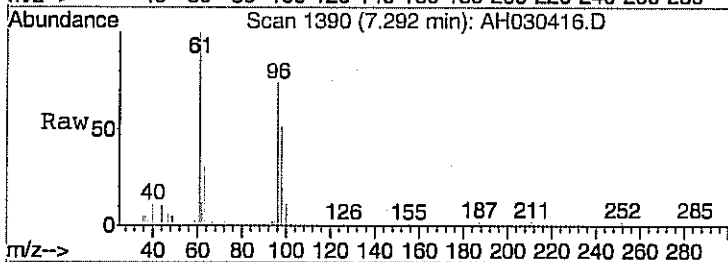
Tgt Ion: 61 Resp: 9498

Ion Ratio Lower Upper

61 100

96 86.4 61.2 101.2

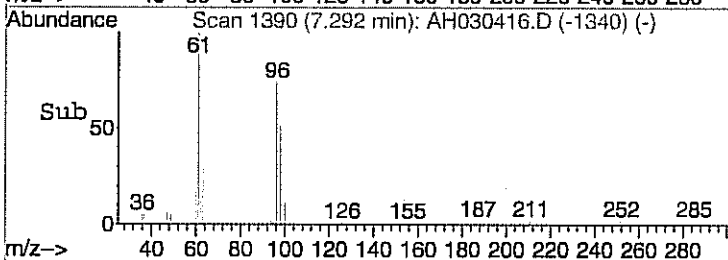
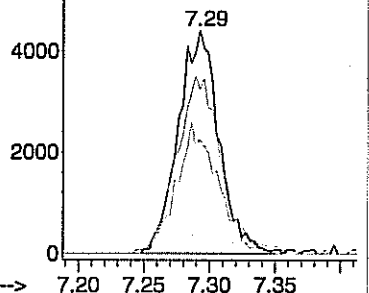
98 58.7 32.6 72.6



Abundance Ion 61.00 (60.70 to 61.70): AH

Ion 96.00 (95.70 to 96.70): AH

Ion 98.00 (97.70 to 98.70): AH



#25

Hexane

Concen: 0.41 ppb

RT: 6.93 min Scan# 1277

Delta R.T. 0.01 min

Lab File: AH030416.D

Acq: 4 Mar 2010 21:53

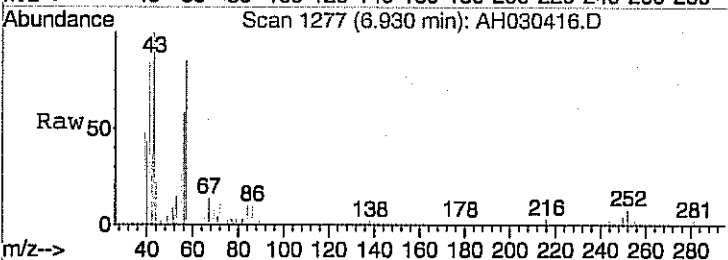
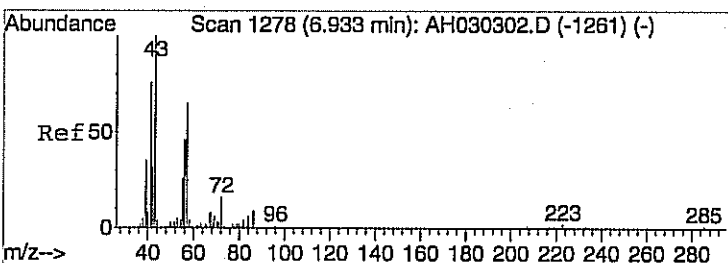
Tgt Ion: 41 Resp: 5413

Ion Ratio Lower Upper

41 100

57 85.8 87.3 127.3#

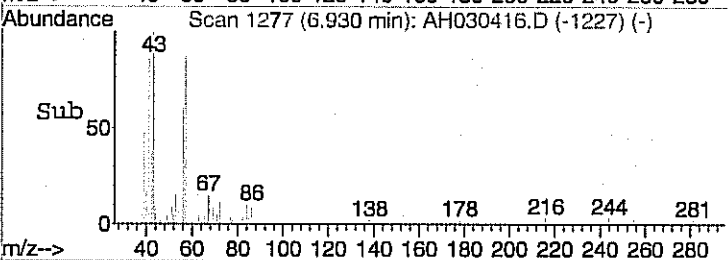
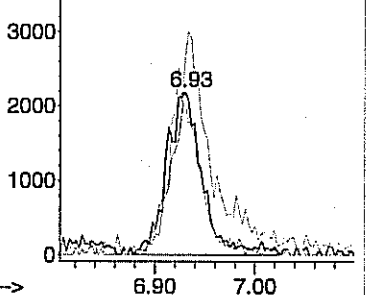
43 151.6 181.3 221.3#

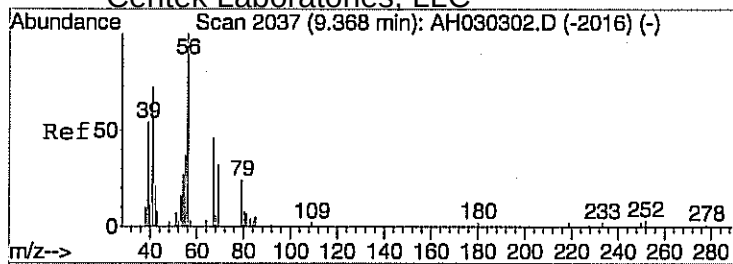


Abundance Ion 41.00 (40.70 to 41.70): AH

Ion 57.00 (56.70 to 57.70): AH

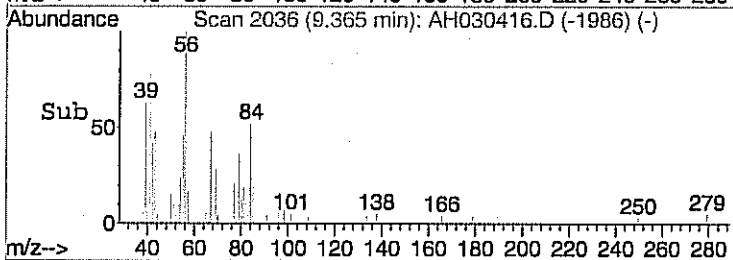
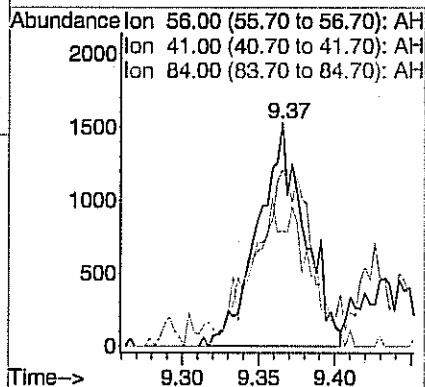
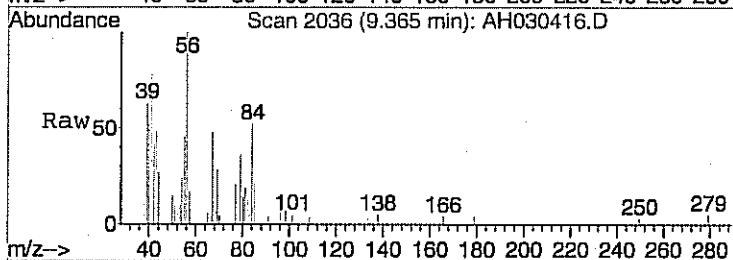
Ion 43.00 (42.70 to 43.70): AH





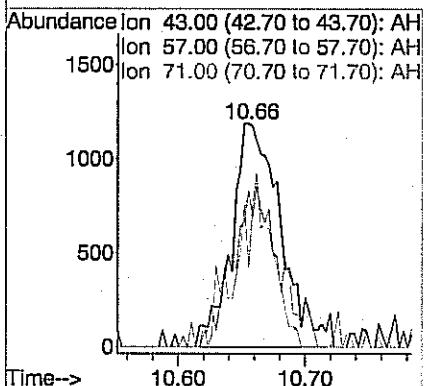
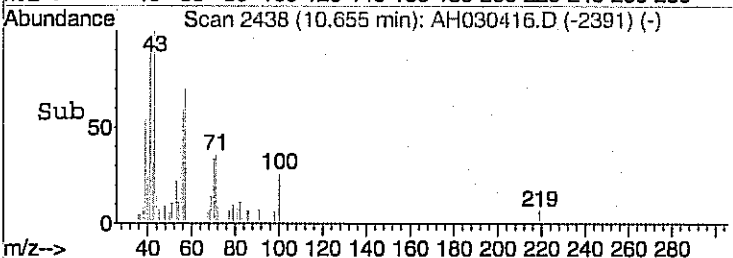
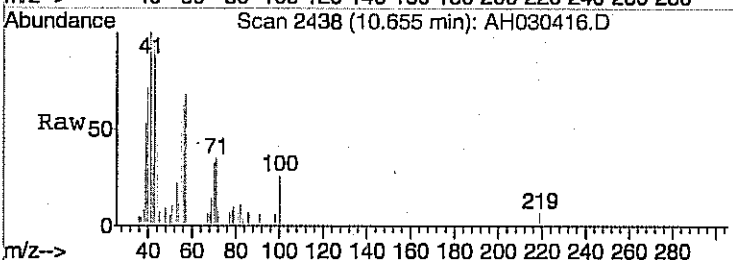
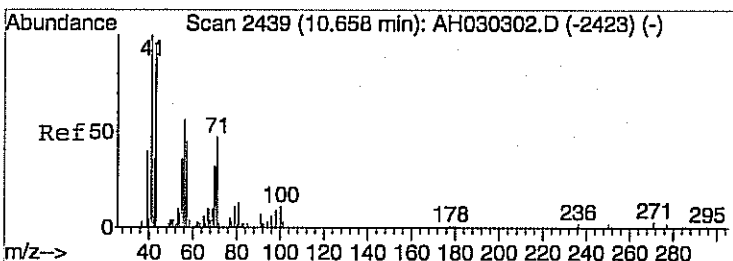
#32
Cyclohexane
Concen: 0.34 ppb
RT: 9.37 min Scan# 2036
Delta R.T. 0.01 min
Lab File: AH030416.D
Acq: 4 Mar 2010 21:53

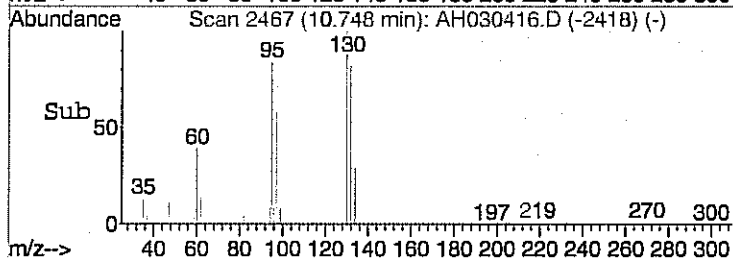
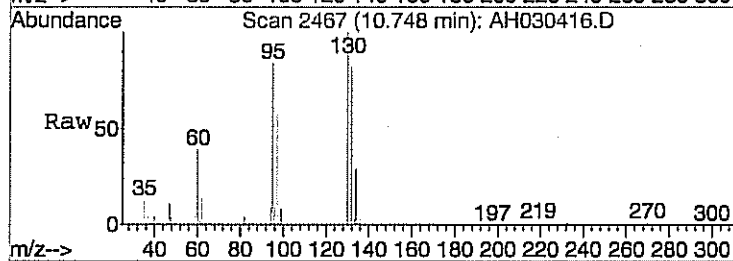
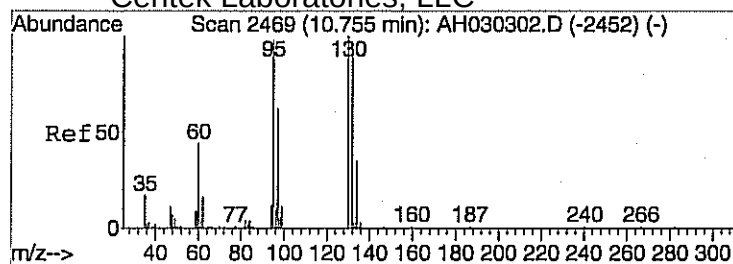
Tgt Ion: 56 Resp: 3254
Ion Ratio Lower Upper
56 100
41 97.5 51.6 91.6#
84 69.2 126.0 166.0#



#37
Heptane
Concen: 0.36 ppb
RT: 10.66 min Scan# 2438
Delta R.T. 0.00 min
Lab File: AH030416.D
Acq: 4 Mar 2010 21:53

Tgt Ion: 43 Resp: 3204
Ion Ratio Lower Upper
43 100
57 67.3 34.5 74.5
71 44.6 33.7 73.7





#38

Trichloroethene

Concen: 2.09 ppb

RT: 10.75 min Scan# 2467

Delta R.T. 0.01 min

Lab File: AH030416.D

Acq: 4 Mar 2010 21:53

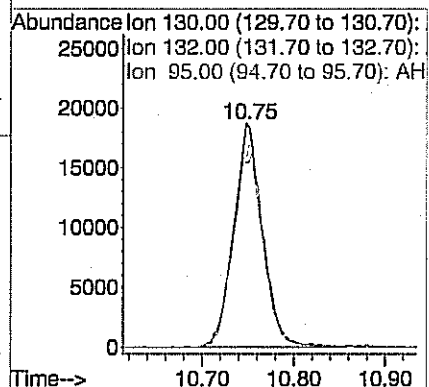
Tgt Ion:130 Resp: 40526

Ion Ratio Lower Upper

130 100

132 94.7 78.1 118.1

95 92.1 76.7 116.7





Centek Laboratories

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1		FLD	"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	0.34	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	6.6	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.24	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	< 0.040	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	0.13	0.15	J	ppbV	1	3/3/2010
Chloromethane	0.32	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	0.19	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	0.10	0.15	J	ppbV	1	3/3/2010
Freon 11	0.23	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.50	0.15		ppbV	1	3/3/2010
Heptane	0.12	0.15	J	ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	5.4	0.75		ppbV	5	3/4/2010
m&p-Xylene	0.22	0.30	J	ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	0.47	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	0.12	0.15	J	ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	1.3	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.46	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	4.8	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	0.12	0.040		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	79.0	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	1.4	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	0.47	0.71	J	ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	16	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.78	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	0.65	0.74	J	ug/m3	1	3/3/2010
Chloromethane	0.67	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	0.77	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	0.44	0.66	J	ug/m3	1	3/3/2010
Freon 11	1.3	0.86		ug/m3	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-003A

Client Sample ID: 134-PRE-IA
 Tag Number: 575,660
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15	Analyst: RJP	
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.5	0.75		ug/m3	1	3/3/2010
Heptane	0.50	0.62	J	ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	14	1.9		ug/m3	5	3/4/2010
m&p-Xylene	0.97	1.3	J	ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	1.4	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	0.42	0.53	J	ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	8.8	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	1.8	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	26	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	0.31	0.10		ug/m3	1	3/3/2010

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\AH030330.D

Vial: 3

Acq On : 4 Mar 2010 4:17

Operator: RJP

Sample : C1003003-003A

Inst : MSD #1

Misc : C1003003-003A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 04:39:23 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	12221	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	25137	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	28382	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	10768	0.79	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	79.00%

Target Compounds

						Qvalue
3) Freon 12	2.97	85	37024	0.50	ppb	100
4) Chloromethane	3.11	50	4993m	0.32	ppb	
6) Vinyl Chloride	3.25	62	1611	0.12	ppb	79
11) Freon 11	4.17	101	12201	0.23	ppb	93
12) Acetone	4.30	58	26185	5.86	ppb	# 66
13) Isopropyl alcohol	4.40	45	59400	4.52	ppb	# 1
16) Methylene chloride	5.17	84	2052	0.12	ppb	97
23) Methyl Ethyl Ketone	6.90	43	12855	0.47	ppb	# 59
24) cis-1,2-dichloroethene	7.29	61	3929	0.19	ppb	97
27) Chloroform	7.88	83	6669	0.13	ppb	98
29) 1,2-dichloroethane	8.96	62	10345	0.34	ppb	94
33) Carbon tetrachloride	9.30	117	4215	0.10	ppb	84
34) Benzene	9.27	78	7250	0.24	ppb	94
36) 2,2,4-trimethylpentane	10.23	57	2850	0.10	ppb	93
37) Heptane	10.66	43	1071	0.12	ppb	# 72
38) Trichloroethene	10.75	130	117296	5.90	ppb	98
45) Toluene	12.99	92	11269	0.46	ppb	94
50) Tetrachloroethylene	14.02	164	36387	1.27	ppb	99
52) Ethylbenzene	15.22	91	5005	0.10	ppb	99
53) m&p-xylene	15.39	91	9586	0.22	ppb	93

Quantitation Report (QI Reviewed)

Data File : C:\HPCHEM\1\DATA\AH030330.D
Acq On : 4 Mar 2010 4:17
Sample : C1003003-003A
Misc : C1003003-003A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:31 2010

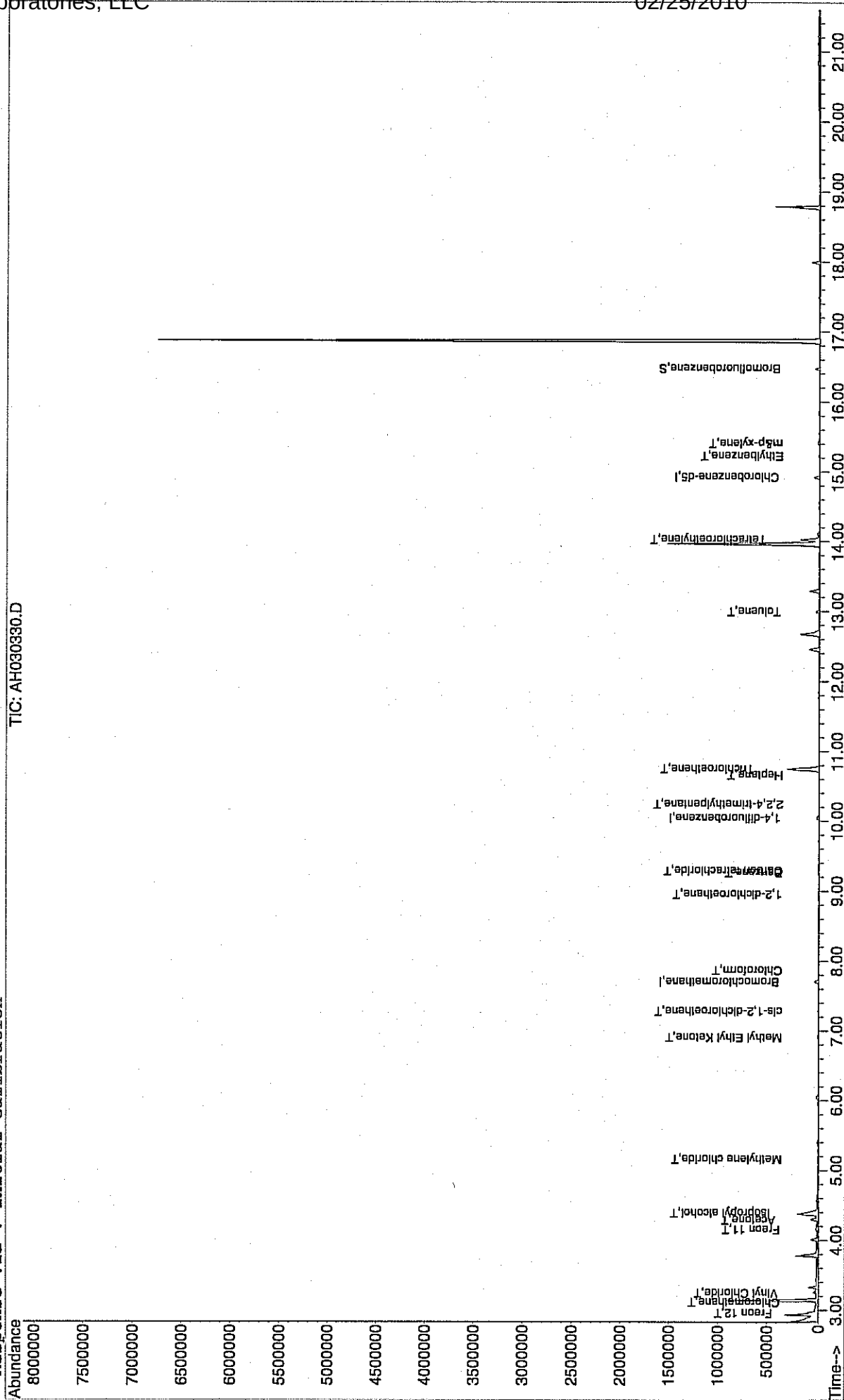
Vial: 3

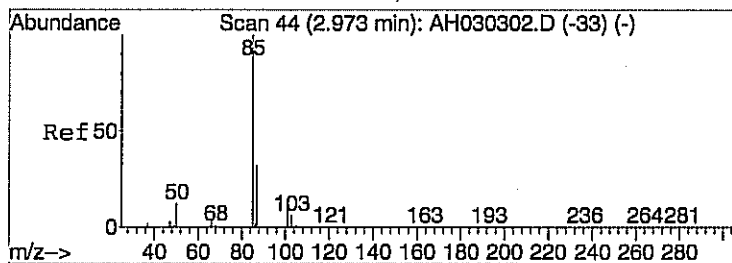
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

TIC: AH030330.D





#3

Freon 12

Concen: 0.50 ppb

RT: 2.97 min Scan# 43

Delta R.T. -0.00 min

Lab File: AH030330.D

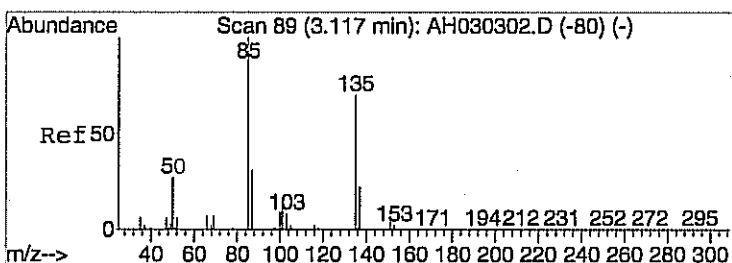
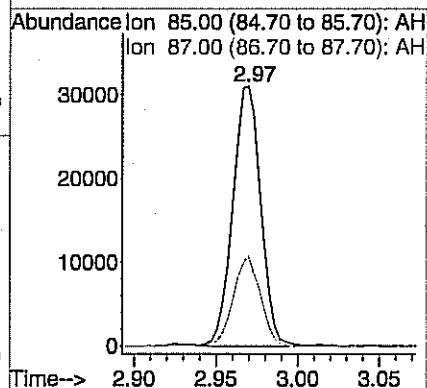
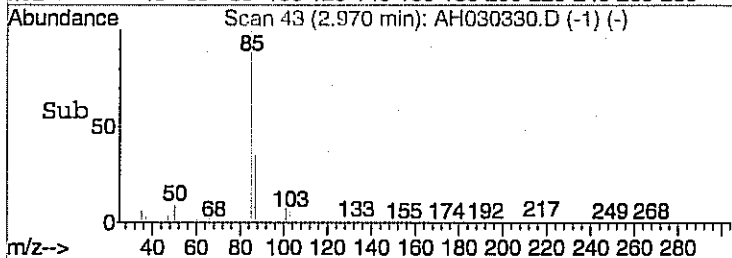
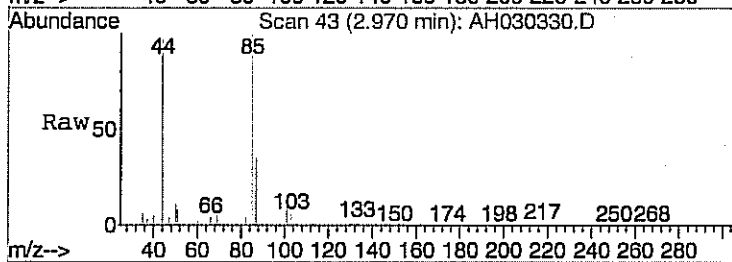
Acq: 4 Mar 2010 4:17

Tgt Ion: 85 Resp: 37024

Ion Ratio Lower Upper

85 100

87 33.4 13.2 53.2



#4

Chloromethane

Concen: 0.32 ppb m

RT: 3.11 min Scan# 87

Delta R.T. -0.00 min

Lab File: AH030330.D

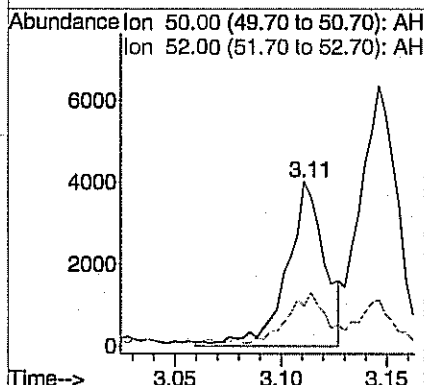
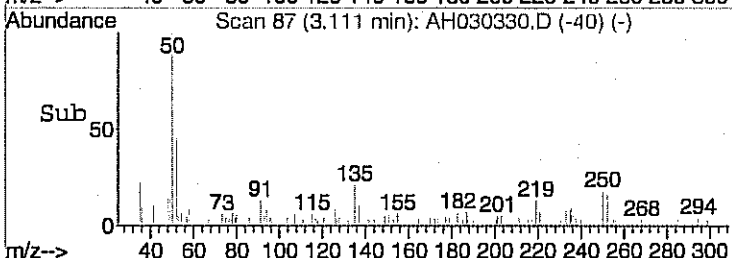
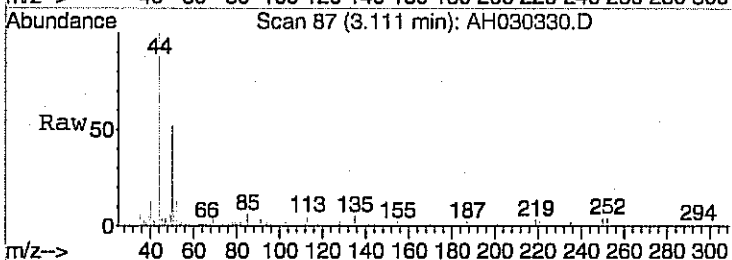
Acq: 4 Mar 2010 4:17

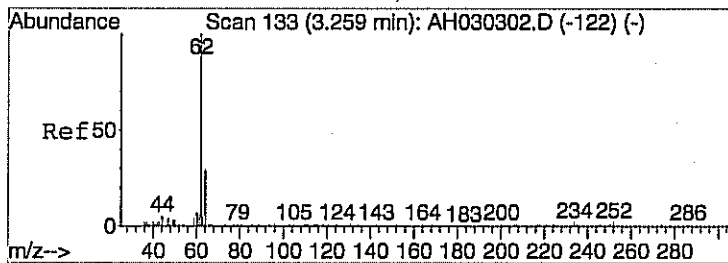
Tgt Ion: 50 Resp: 4993

Ion Ratio Lower Upper

50 100

52 62.4 4.0 44.0#





#6

Vinyl Chloride

Concen: 0.12 ppb

RT: 3.25 min Scan# 131

Delta R.T. -0.00 min

Lab File: AH030330.D

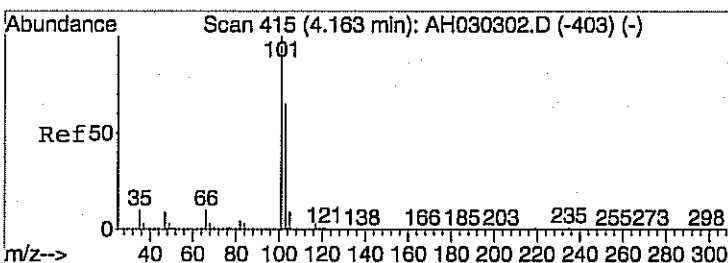
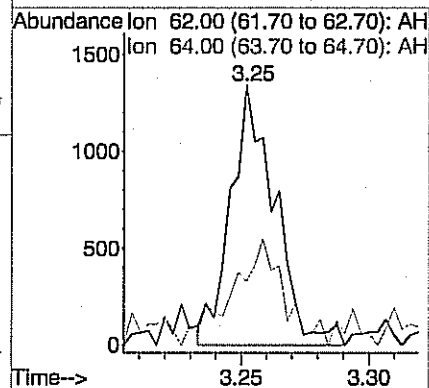
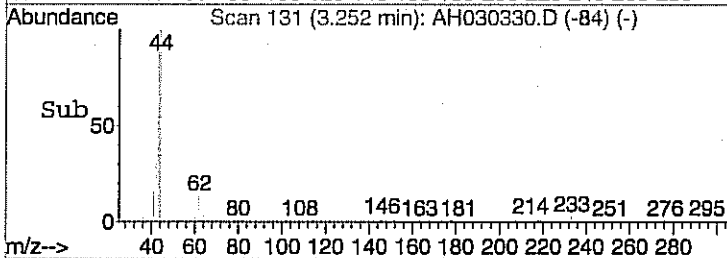
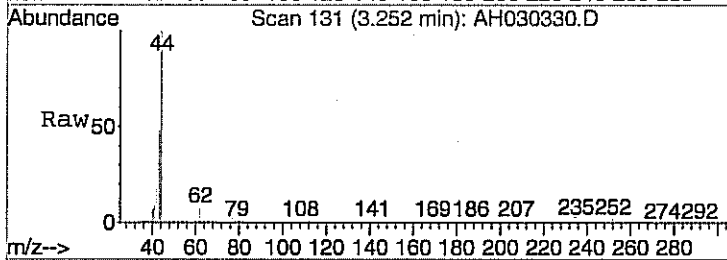
Acq: 4 Mar 2010 4:17

Tgt Ion: 62 Resp: 1611

Ion Ratio Lower Upper

62 100

64 47.5 5.5 65.5



#11

Freon 11

Concen: 0.23 ppb

RT: 4.17 min Scan# 416

Delta R.T. 0.01 min

Lab File: AH030330.D

Acq: 4 Mar 2010 4:17

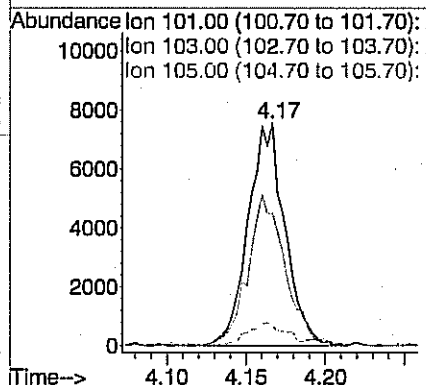
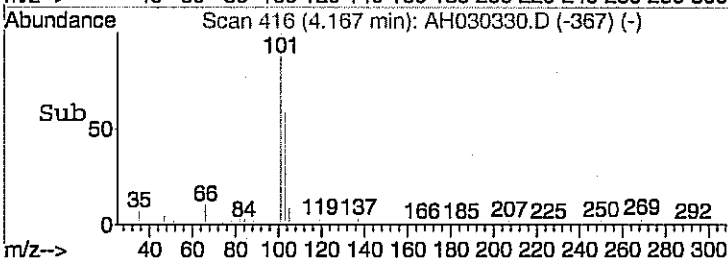
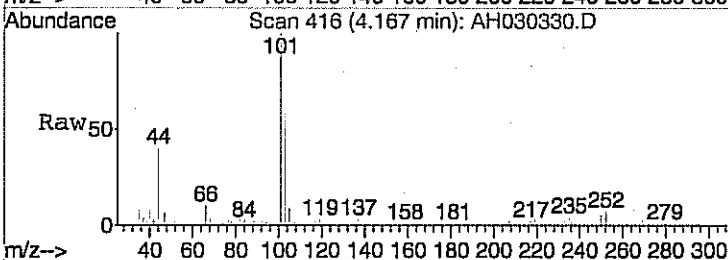
Tgt Ion: 101 Resp: 12201

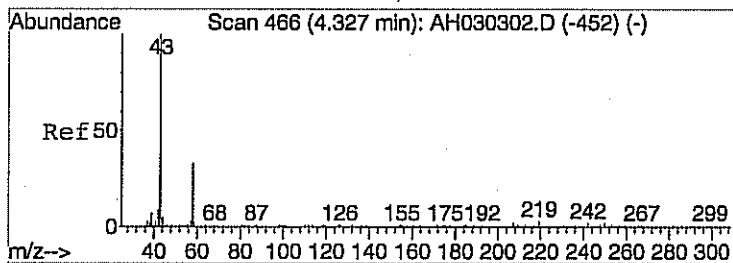
Ion Ratio Lower Upper

101 100

103 69.5 43.9 83.9

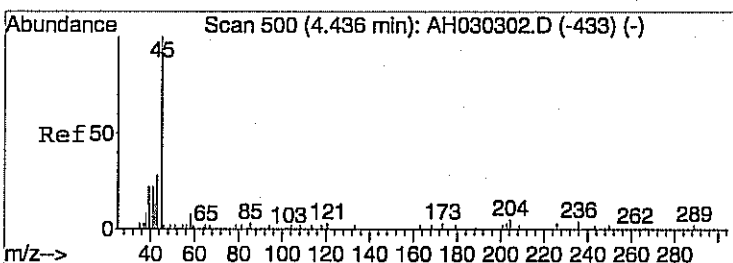
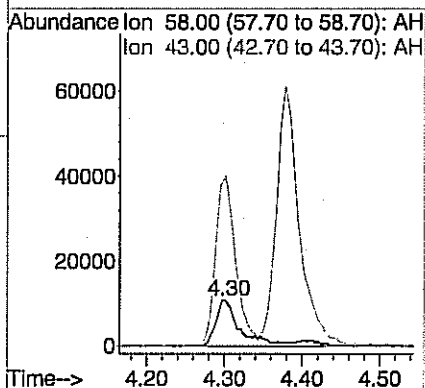
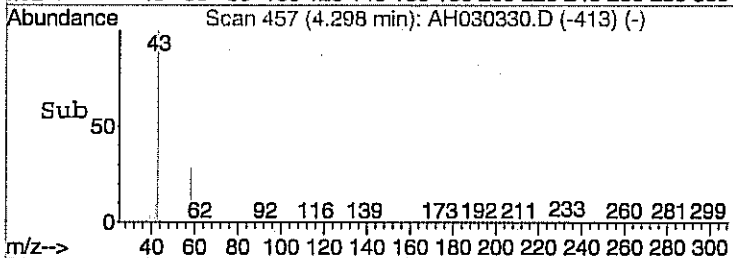
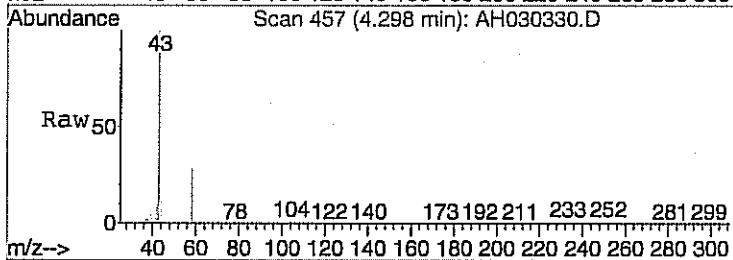
105 11.9 0.0 30.7





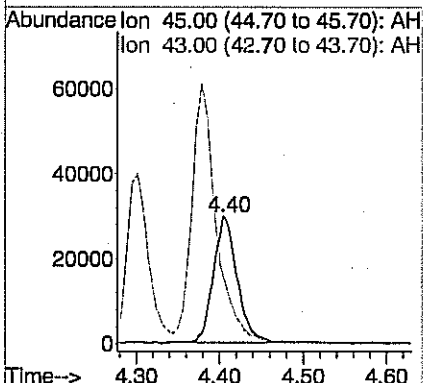
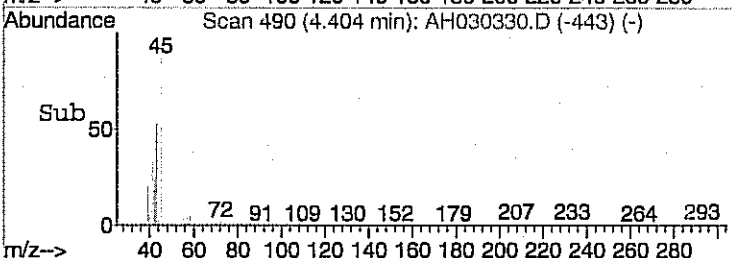
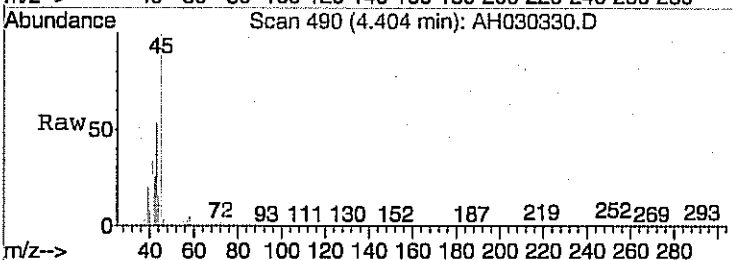
#12
Acetone
Concen: 5.86 ppb
RT: 4.30 min Scan# 457
Delta R.T. -0.01 min
Lab File: AH030330.D
Acq: 4 Mar 2010 4:17

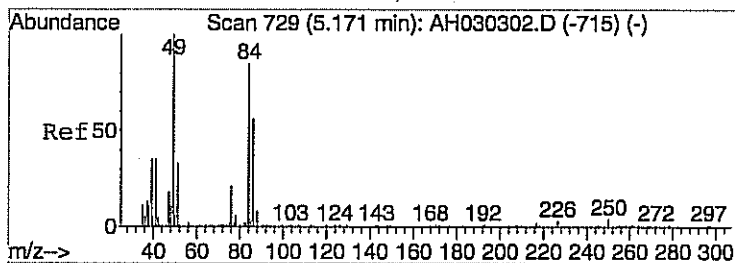
Tgt Ion: 58 Resp: 26185
Ion Ratio Lower Upper
58 100
43 277.6 320.6 380.6#



#13
Isopropyl alcohol
Concen: 4.52 ppb
RT: 4.40 min Scan# 490
Delta R.T. -0.00 min
Lab File: AH030330.D
Acq: 4 Mar 2010 4:17

Tgt Ion: 45 Resp: 59400
Ion Ratio Lower Upper
45 100
43 213.8 14.6 54.6#





#16

Methylene chloride

Concen: 0.12 ppb

RT: 5.17 min Scan# 728

Delta R.T. 0.01 min

Lab File: AH030330.D

Acq: 4 Mar 2010 4:17

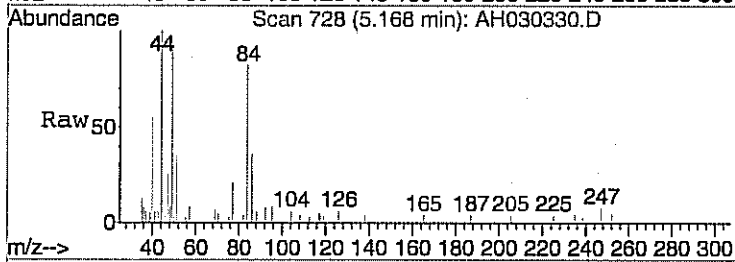
Tgt Ion: 84 Resp: 2052

Ion Ratio Lower Upper

84 100

49 120.2 104.5 144.5

86 65.0 45.5 85.5

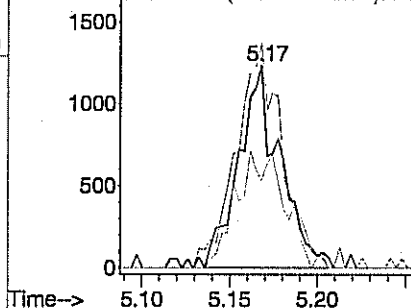
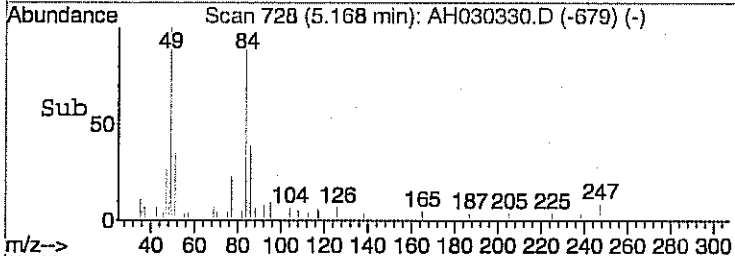


Abundance

Ion 84.00 (83.70 to 84.70): AH

Ion 49.00 (48.70 to 49.70): AH

Ion 86.00 (85.70 to 86.70): AH



#23

Methyl Ethyl Ketone

Concen: 0.47 ppb

RT: 6.90 min Scan# 1269

Delta R.T. -0.00 min

Lab File: AH030330.D

Acq: 4 Mar 2010 4:17

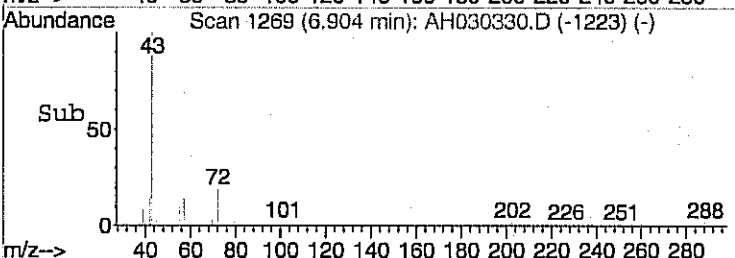
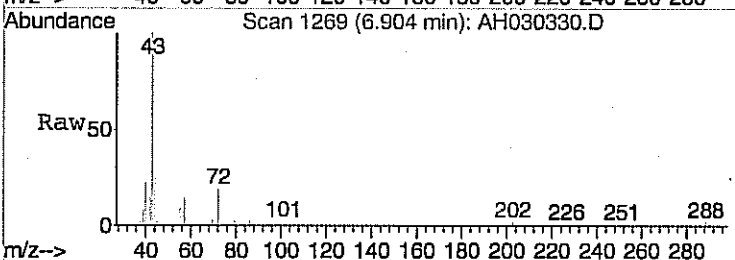
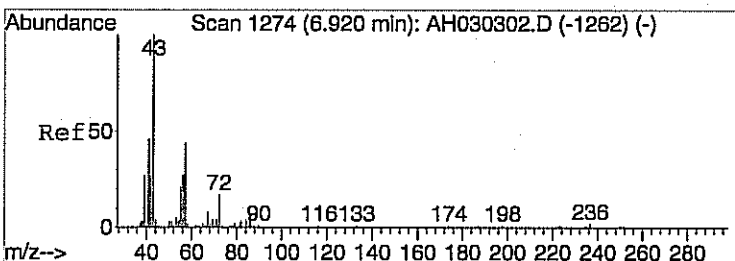
Tgt Ion: 43 Resp: 12855

Ion Ratio Lower Upper

43 100

57 18.6 33.7 73.7#

72 22.6 0.0 36.8

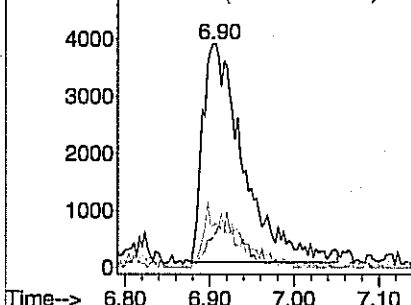


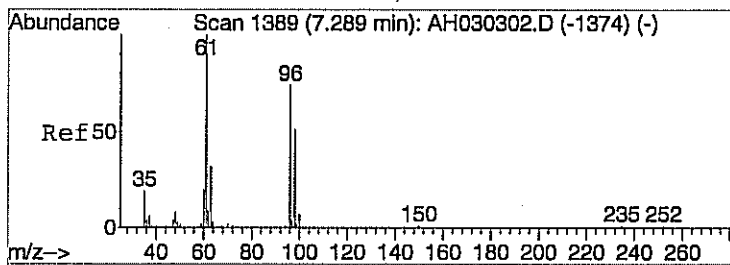
Abundance

Ion 43.00 (42.70 to 43.70): AH

Ion 57.00 (56.70 to 57.70): AH

Ion 72.00 (71.70 to 72.70): AH





#24

cis-1,2-dichloroethene

Concen: 0.19 ppb

RT: 7.29 min Scan# 1388

Delta R.T. 0.00 min

Lab File: AH030330.D

Acq: 4 Mar 2010 4:17

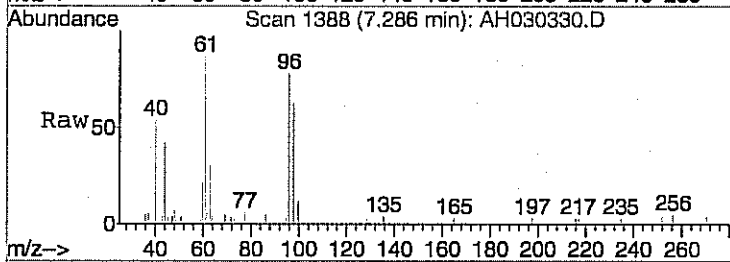
Tgt Ion: 61 Resp: 3929

Ion Ratio Lower Upper

61 100

96 84.6 61.2 101.2

98 53.5 32.6 72.6

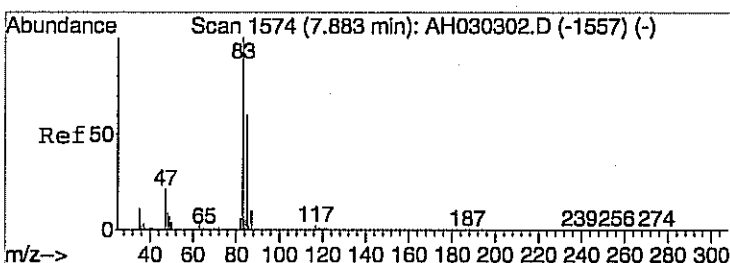
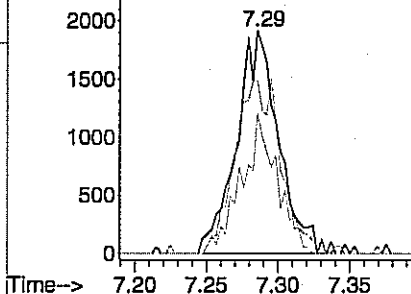
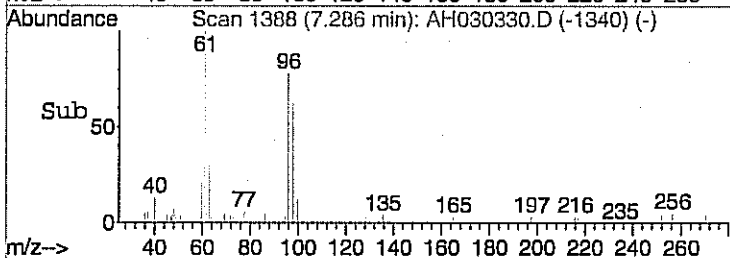


Abundance

Ion 61.00 (60.70 to 61.70): AH

Ion 96.00 (95.70 to 96.70): AH

Ion 98.00 (97.70 to 98.70): AH



#27

Chloroform

Concen: 0.13 ppb

RT: 7.88 min Scan# 1572

Delta R.T. 0.01 min

Lab File: AH030330.D

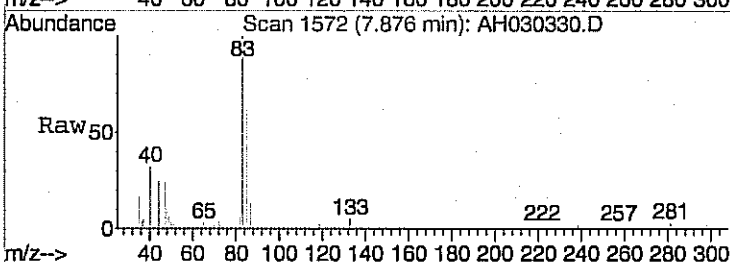
Acq: 4 Mar 2010 4:17

Tgt Ion: 83 Resp: 6669

Ion Ratio Lower Upper

83 100

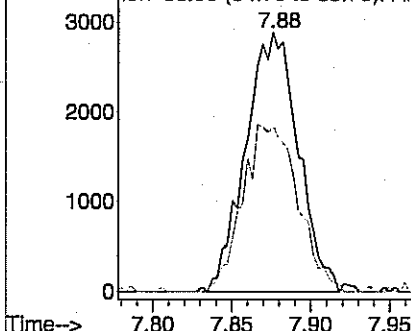
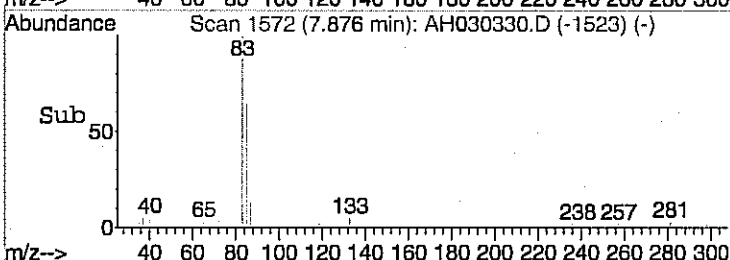
85 67.6 45.9 85.9

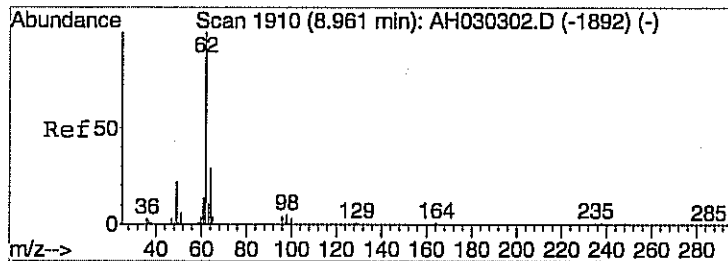


Abundance

Ion 83.00 (82.70 to 83.70): AH

Ion 85.00 (84.70 to 85.70): AH





#29

1,2-dichloroethane

Concen: 0.34 ppb

RT: 8.96 min Scan# 1909

Delta R.T. 0.01 min

Lab File: AH030330.D

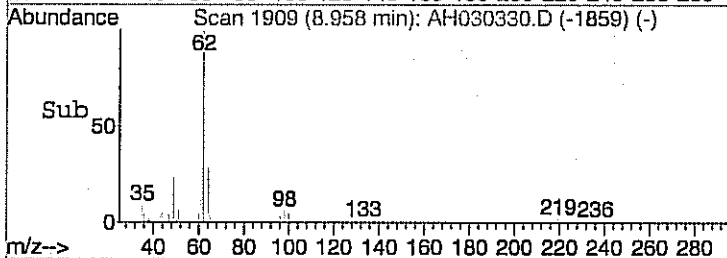
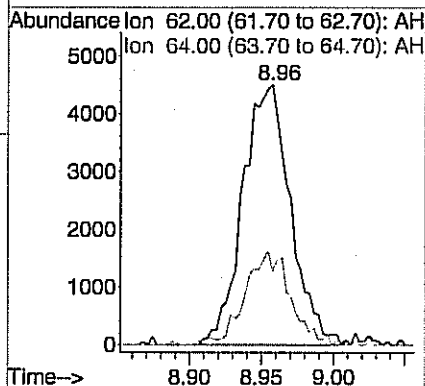
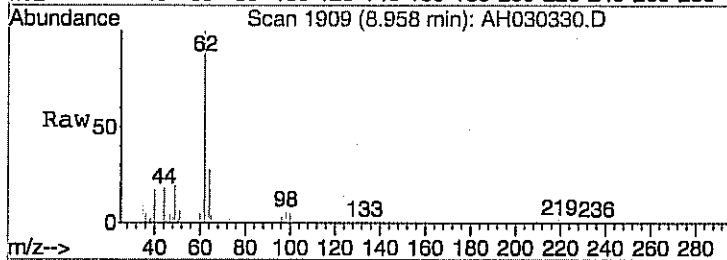
Acq: 4 Mar 2010 4:17

Tgt Ion: 62 Resp: 10345

Ion Ratio Lower Upper

62 100

64 34.0 17.7 57.7



#33

Carbon tetrachloride

Concen: 0.10 ppb

RT: 9.30 min Scan# 2015

Delta R.T. 0.00 min

Lab File: AH030330.D

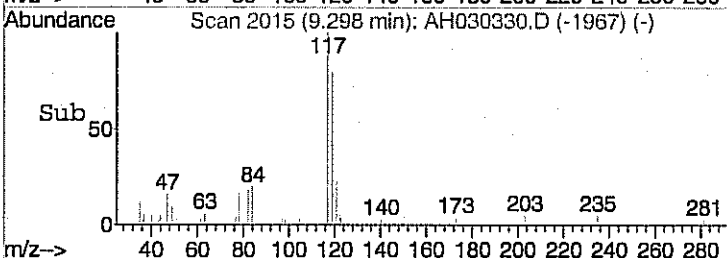
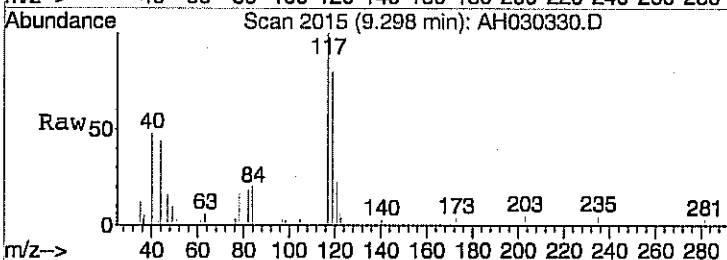
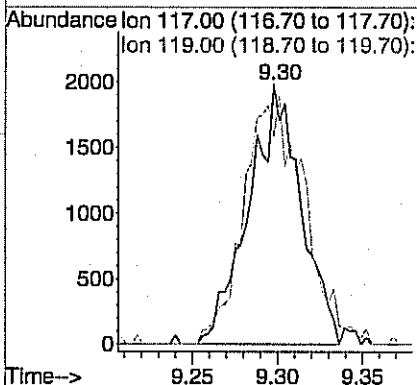
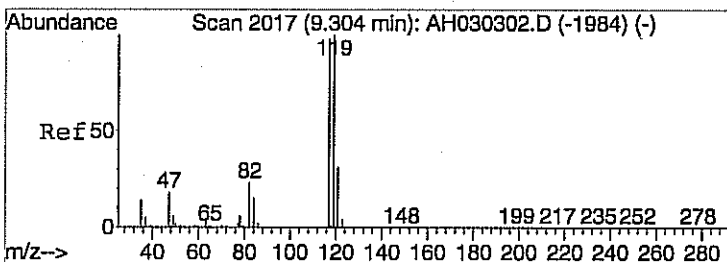
Acq: 4 Mar 2010 4:17

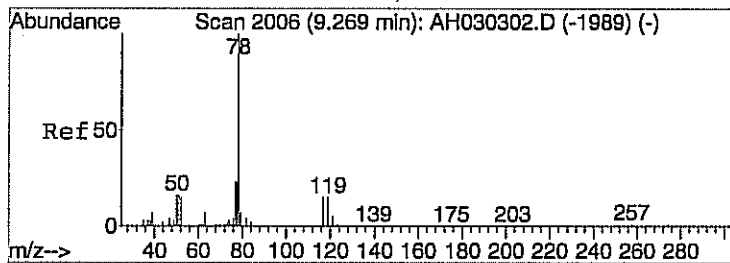
Tgt Ion: 117 Resp: 4215

Ion Ratio Lower Upper

117 100

119 110.6 75.3 115.3





#34

Benzene

Concen: 0.24 ppb

RT: 9.27 min Scan# 2006

Delta R.T. 0.01 min

Lab File: AH030330.D

Acq: 4 Mar 2010 4:17

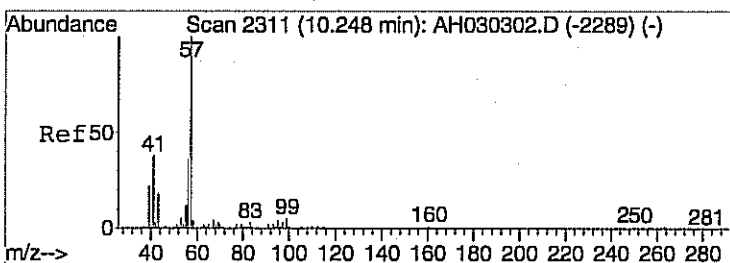
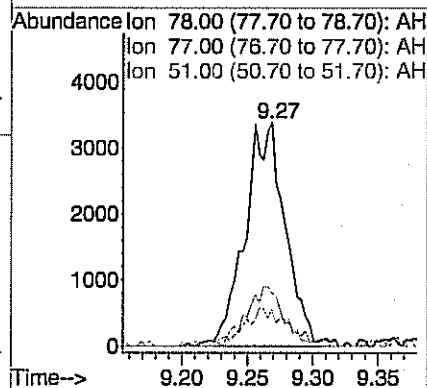
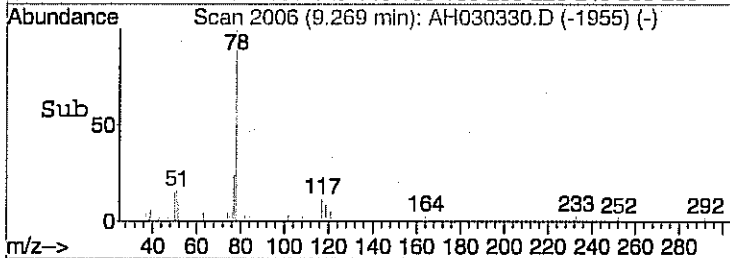
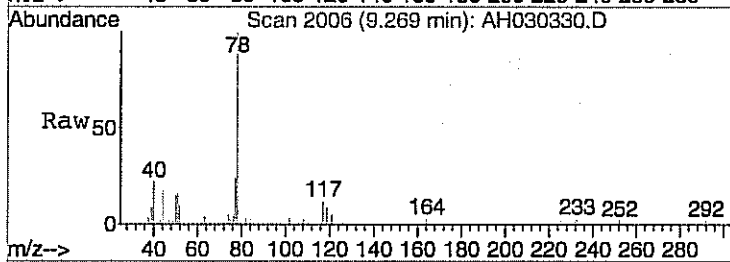
Tgt Ion: 78 Resp: 7250

Ion Ratio Lower Upper

78 100

77 25.5 2.7 42.7

51 18.1 1.1 41.1



#36

2,2,4-trimethylpentane

Concen: 0.10 ppb

RT: 10.23 min Scan# 2306

Delta R.T. -0.00 min

Lab File: AH030330.D

Acq: 4 Mar 2010 4:17

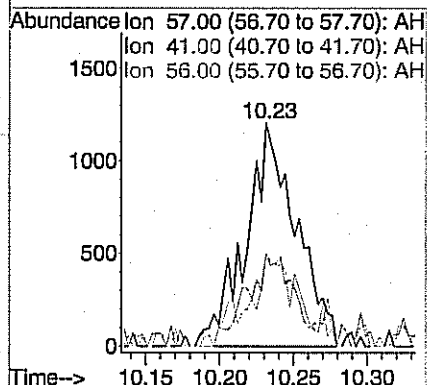
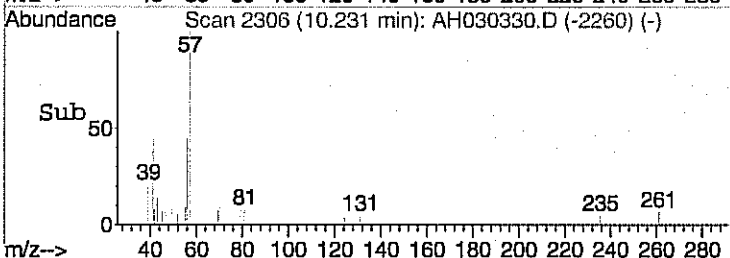
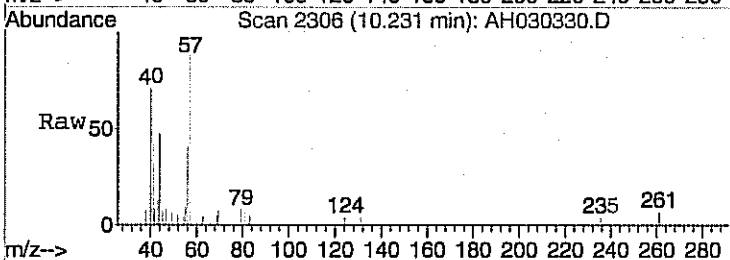
Tgt Ion: 57 Resp: 2850

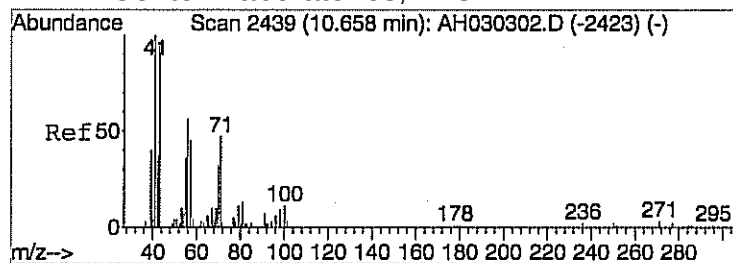
Ion Ratio Lower Upper

57 100

41 42.0 18.7 58.7

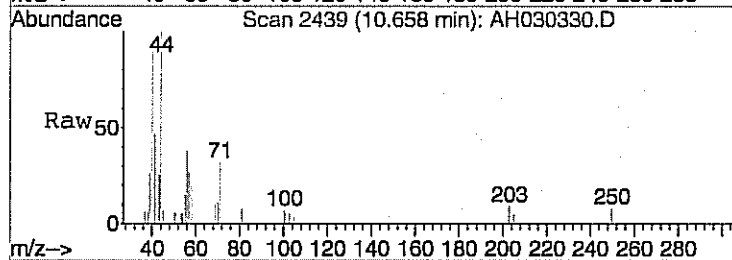
56 29.6 14.5 54.5





#37
Heptane
Concen: 0.12 ppb
RT: 10.66 min Scan# 2439
Delta R.T. 0.00 min
Lab File: AH030330.D
Acq: 4 Mar 2010 4:17

Tgt Ion:	43	Resp:	1071
Ion	Ratio	Lower	Upper
43	100		
57	89.3	34.5	74.5#
71	48.5	33.7	73.7

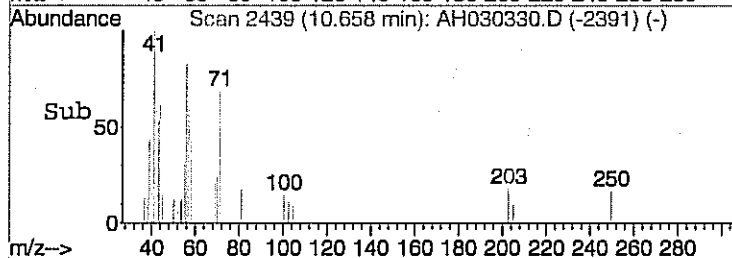
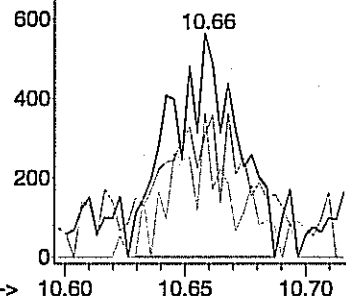


Abundance

Ion 43.00 (42.70 to 43.70): AH

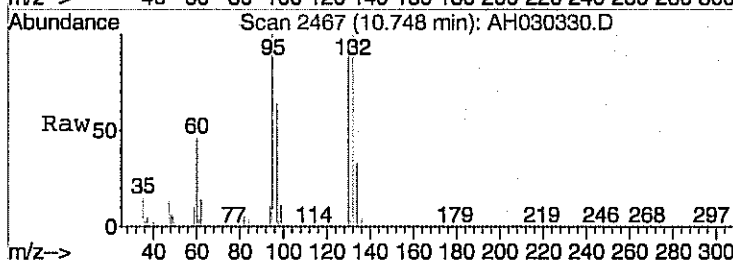
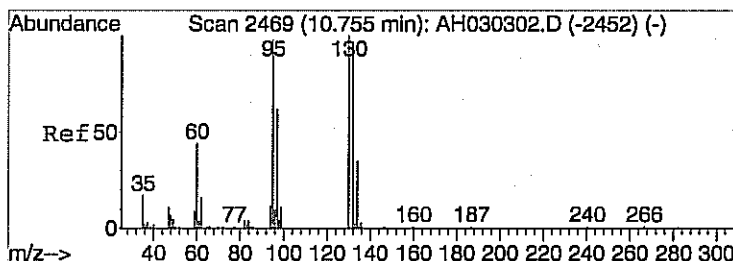
Ion 57.00 (56.70 to 57.70): AH

Ion 71.00 (70.70 to 71.70): AH



#38
Trichloroethene
Concen: 5.90 ppb
RT: 10.75 min Scan# 2467
Delta R.T. 0.01 min
Lab File: AH030330.D
Acq: 4 Mar 2010 4:17

Tgt Ion:	130	Resp:	117296
Ion	Ratio	Lower	Upper
130	100		
132	99.3	78.1	118.1
95	99.8	76.7	116.7

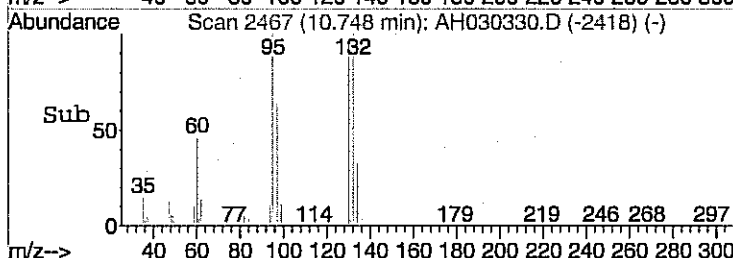
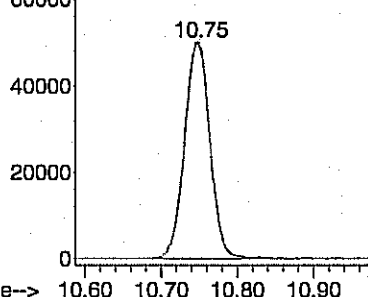


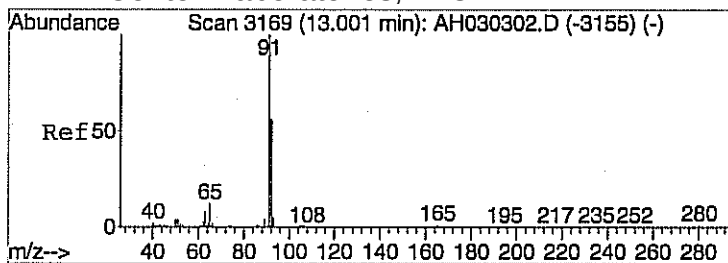
Abundance

Ion 130.00 (129.70 to 130.70): AH

Ion 132.00 (131.70 to 132.70): AH

Ion 95.00 (94.70 to 95.70): AH





#45

Toluene

Concen: 0.46 ppb

RT: 12.99 min Scan# 3167

Delta R.T. 0.00 min

Lab File: AH030330.D

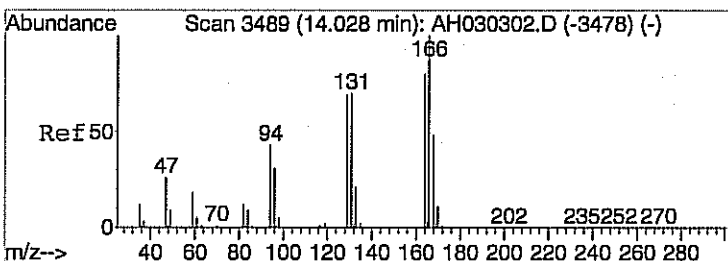
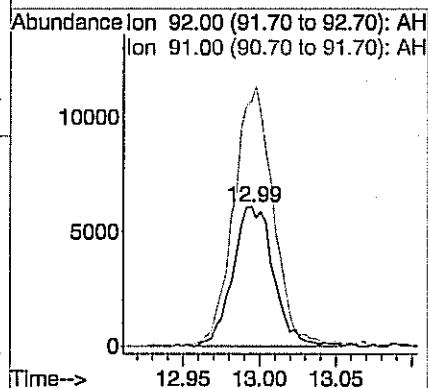
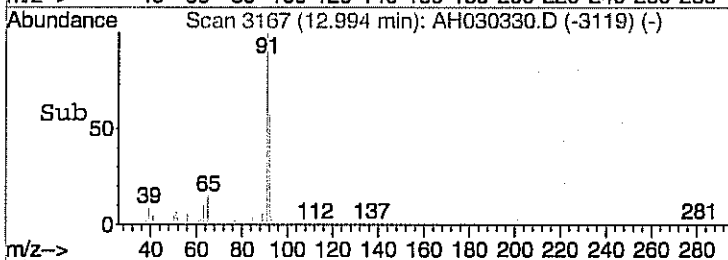
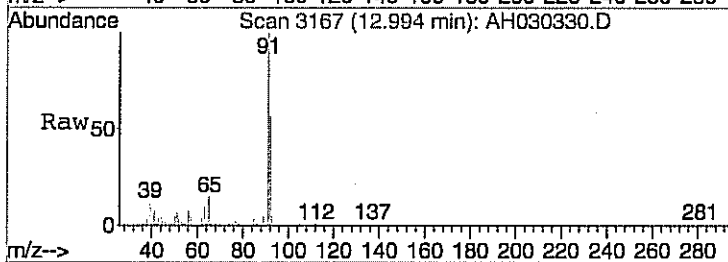
Acq: 4 Mar 2010 4:17

Tgt Ion: 92 Resp: 11269

Ion Ratio Lower Upper

92 100

91 181.3 152.9 192.9



#50

Tetrachloroethylene

Concen: 1.27 ppb

RT: 14.02 min Scan# 3488

Delta R.T. 0.00 min

Lab File: AH030330.D

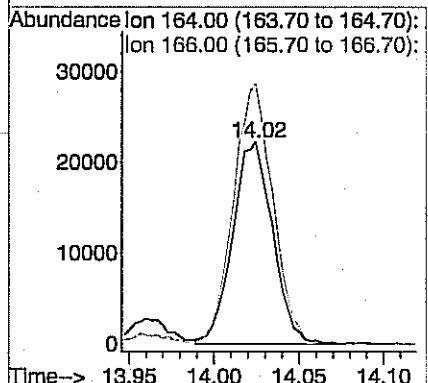
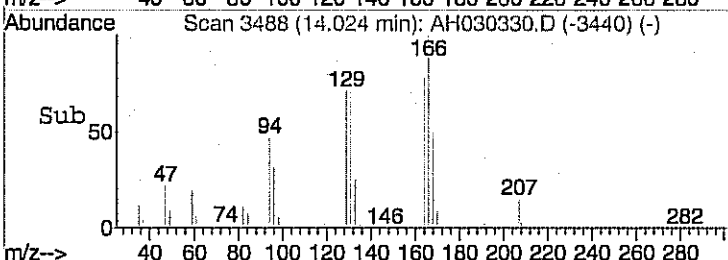
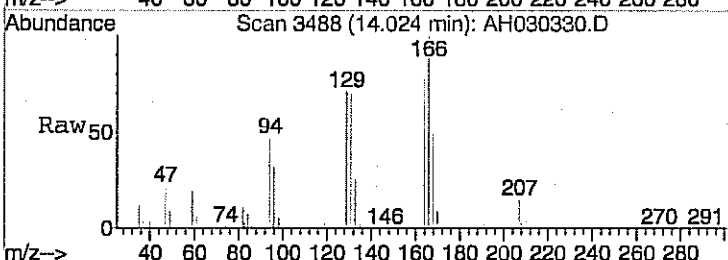
Acq: 4 Mar 2010 4:17

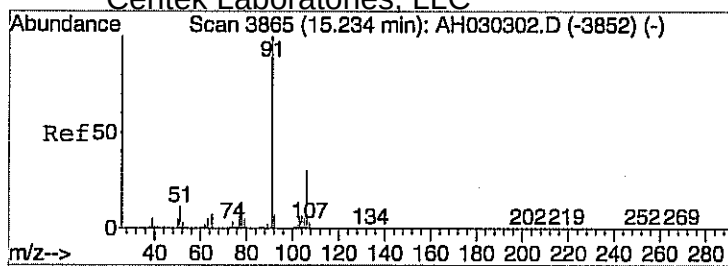
Tgt Ion: 164 Resp: 36387

Ion Ratio Lower Upper

164 100

166 127.2 107.9 147.9





#52

Ethylbenzene

Concen: 0.10 ppb

RT: 15.22 min Scan# 3862

Delta R.T. -0.00 min

Lab File: AH030330.D

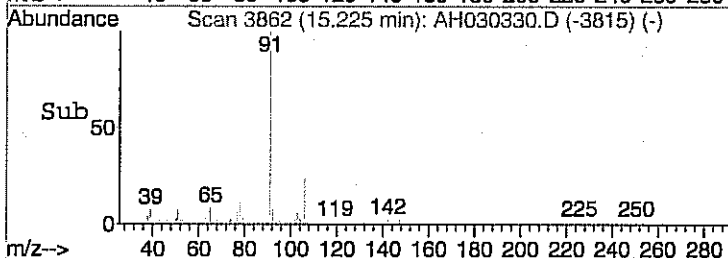
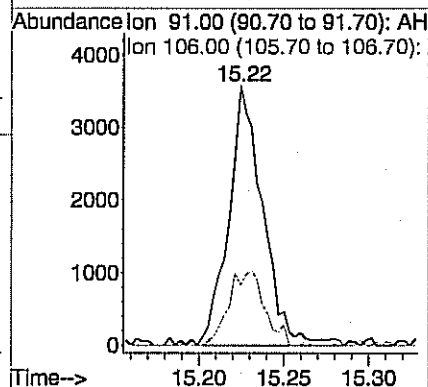
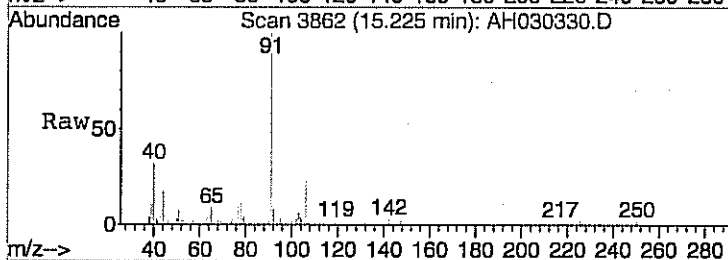
Acq: 4 Mar 2010 4:17

Tgt Ion: 91 Resp: 5005

Ion Ratio Lower Upper

91 100

106 30.1 10.9 50.9



#53

m&p-xylene

Concen: 0.22 ppb

RT: 15.39 min Scan# 3915

Delta R.T. -0.03 min

Lab File: AH030330.D

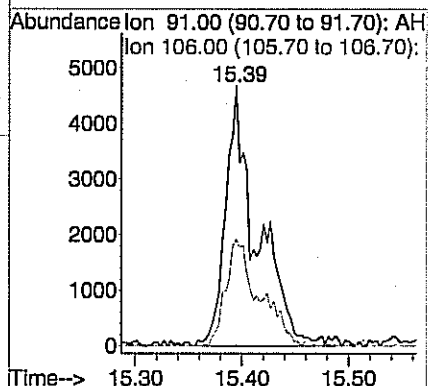
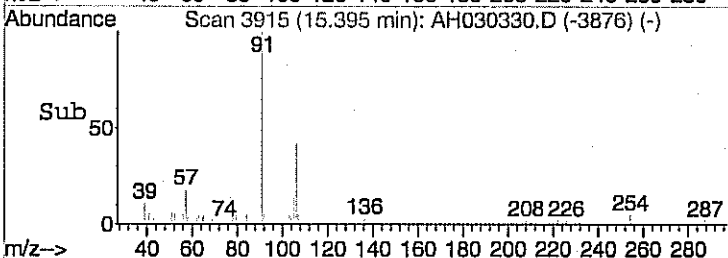
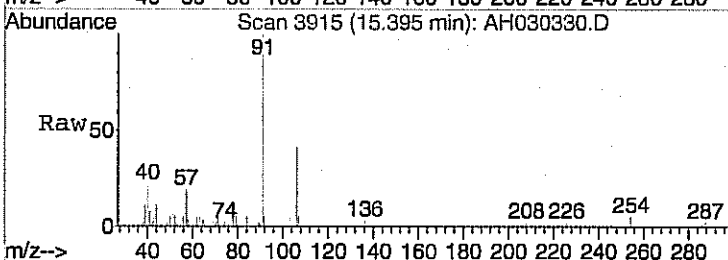
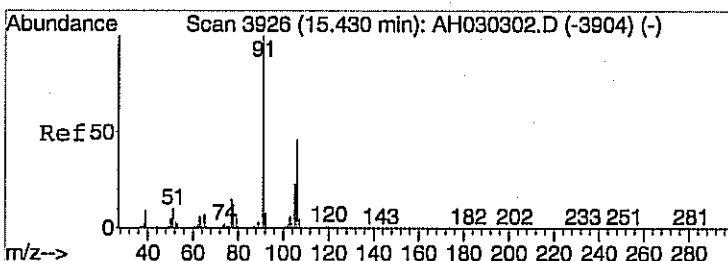
Acq: 4 Mar 2010 4:17

Tgt Ion: 91 Resp: 9586

Ion Ratio Lower Upper

91 100

106 43.4 28.0 68.0



Data File : C:\HPCHEM\1\DATA\AH030417.D

Vial: 13

Acq On : 4 Mar 2010 22:29

Operator: RJP

Sample : C1003003-003A 5X

Inst : MSD #1

Misc : C1003003-003A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 22:51:26 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	11111	1.00	ppb	0.01
30) 1,4-difluorobenzene	10.05	114	21967	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	20208	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	7375	0.76	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds

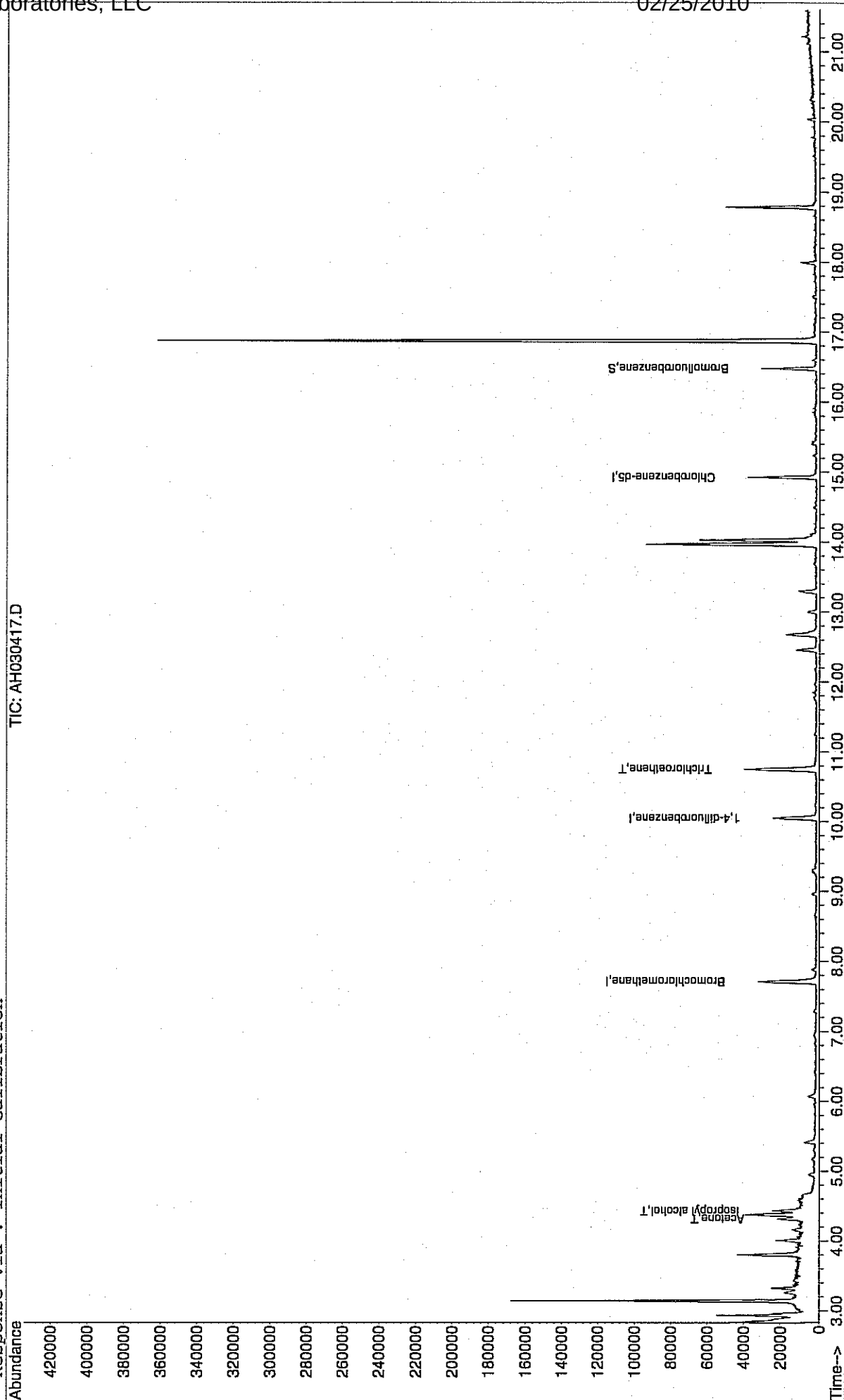
						Qvalue
12) Acetone	4.32	58	5324	1.31	ppb	# 69
13) Isopropyl alcohol	4.44	45	13020	1.09	ppb	# 40
38) Trichloroethene	10.75	130	16443	0.95	ppb	97

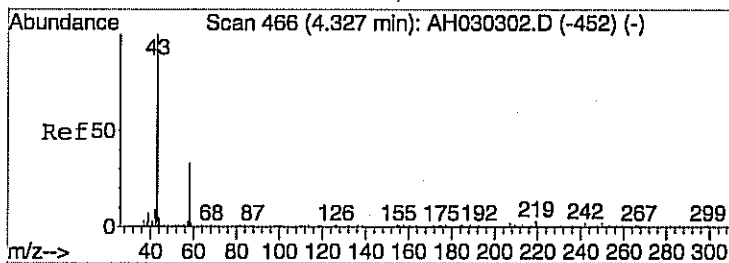
Data File : C:\HPCHEM\1\DATA\AH030417.D
Acq On : 4 Mar 2010 22:29
Sample : C1003003-003A 5X
Misc : C1003003-003A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:40 2010

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

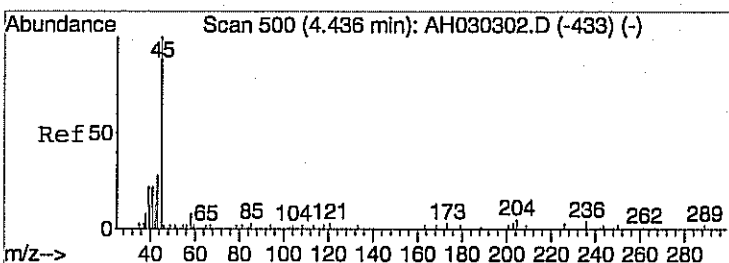
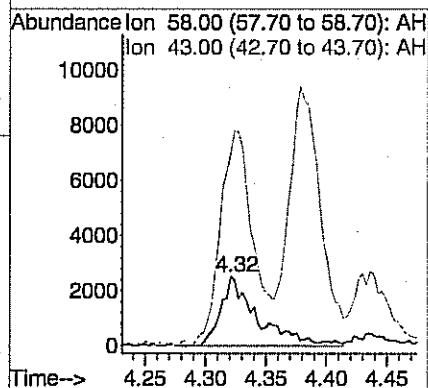
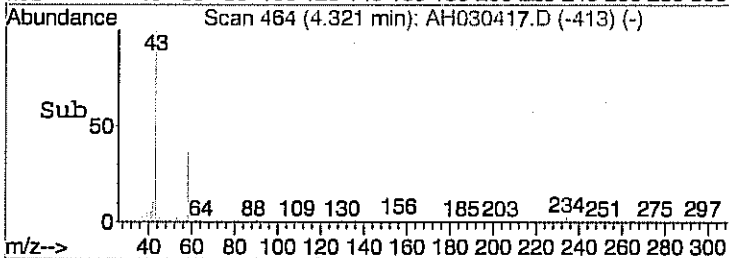
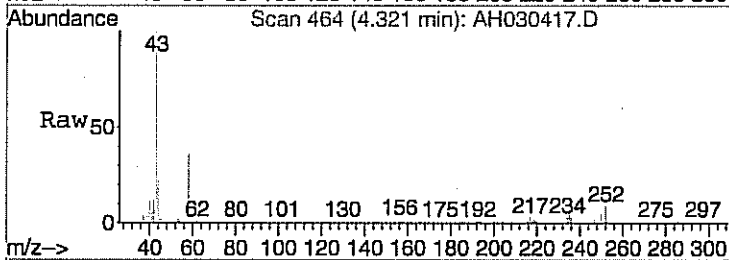
Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration





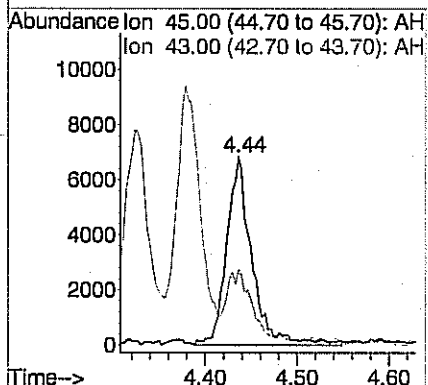
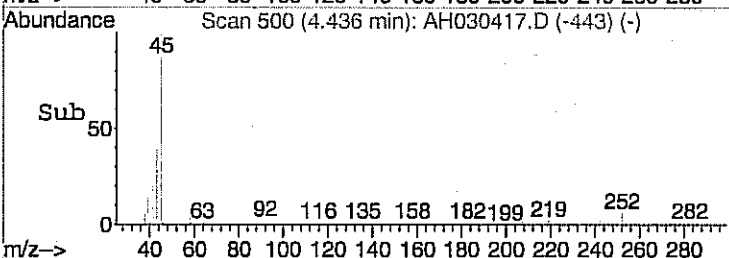
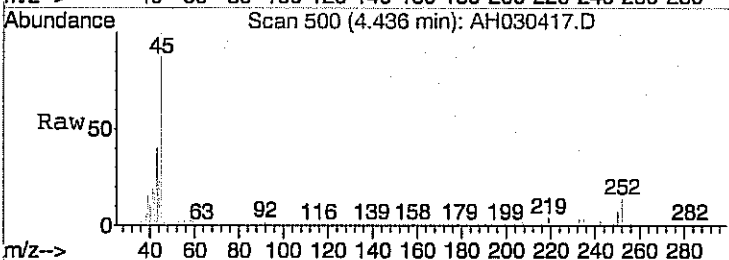
#12
Acetone
Concen: 1.31 ppb
RT: 4.32 min Scan# 464
Delta R.T. 0.01 min
Lab File: AH030417.D
Acq: 4 Mar 2010 22:29

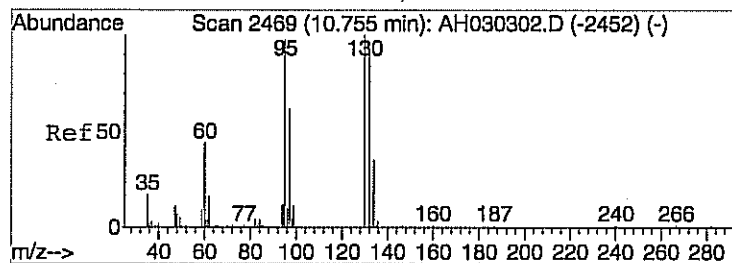
Tgt Ion: 58 Resp: 5324
Ion Ratio Lower Upper
58 100
43 282.5 320.6 380.6#



#13
Isopropyl alcohol
Concen: 1.09 ppb
RT: 4.44 min Scan# 500
Delta R.T. 0.03 min
Lab File: AH030417.D
Acq: 4 Mar 2010 22:29

Tgt Ion: 45 Resp: 13020
Ion Ratio Lower Upper
45 100
43 0.0 14.6 54.6#





#38

Trichloroethene

Concen: 0.95 ppb

RT: 10.75 min Scan# 2468

Delta R.T. 0.01 min

Lab File: AH030417.D

Acq: 4 Mar 2010 22:29

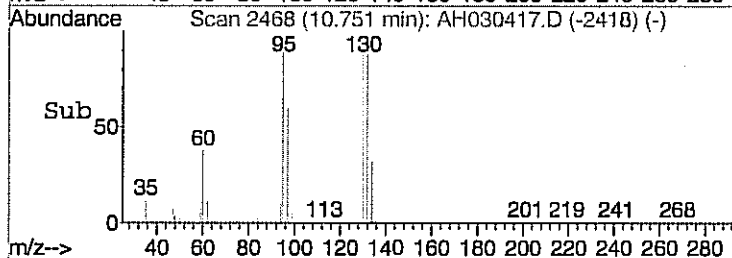
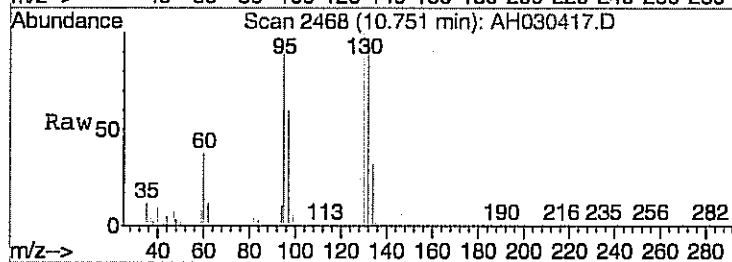
Tgt Ion:130 Resp: 16443

Ion Ratio Lower Upper

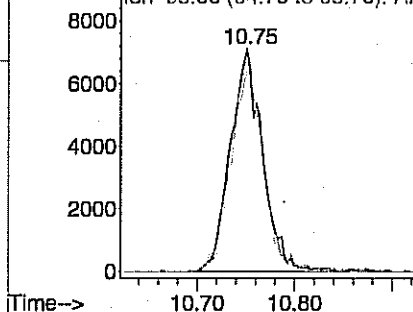
130 100

132 97.1 78.1 118.1

95 90.8 76.7 116.7



Abundance Ion 130.00 (129.70 to 130.70):
Ion 132.00 (131.70 to 132.70):
Ion 95.00 (94.70 to 95.70): AH





Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			FLD			Analyst: RJP
			TO-15			
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	0.34	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	6.0	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.22	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	0.11	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	0.13	0.15	J	ppbV	1	3/3/2010
Chloromethane	0.35	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	0.17	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 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	3/3/2010
Freon 11	0.36	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.50	0.15		ppbV	1	3/3/2010
Heptane	< 0.15	0.15		ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	3.0	0.75		ppbV	5	3/4/2010
m&p-Xylene	0.20	0.30	J	ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	0.46	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	0.13	0.15	J	ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.42	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	6.8	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	0.12	0.040		ppbV	1	3/3/2010
Surr. Bromofluorobenzene	73.0	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	1.4	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	15	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.71	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	0.70	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	0.65	0.74	J	ug/m3	1	3/3/2010
Chloromethane	0.73	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	0.69	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/3/2010
Freon 11	2.1	0.86		ug/m3	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-004A

Client Sample ID: 134-PRE-IADUP
 Tag Number: 591,652
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.5	0.75		ug/m3	1	3/3/2010
Heptane	< 0.62	0.62		ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	7.5	1.9		ug/m3	5	3/4/2010
m&p-Xylene	0.88	1.3	J	ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	1.4	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	0.90	1.0	J	ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	1.6	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	37	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	0.31	0.10		ug/m3	1	3/3/2010

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\AH030331.D

Vial: 4

Acq On : 4 Mar 2010 4:50

Operator: RJP

Sample : C1003003-004A

Inst : MSD #1

Misc : C1003003-004A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 05:12:15 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11616	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	23639	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	25658	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	9099	0.73	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	2.97	85	35055	0.50	ppb	100
4) Chloromethane	3.11	50	5236	0.35	ppb	84
6) Vinyl Chloride	3.25	62	1569	0.12	ppb	79
11) Freon 11	4.16	101	18512	0.36	ppb	99
12) Acetone	4.30	58	33557	7.90	ppb	# 75
13) Isopropyl alcohol	4.41	45	46123	3.69	ppb	# 1
23) Methyl Ethyl Ketone	6.92	43	12070	0.46	ppb	# 61
24) cis-1,2-dichloroethene	7.29	61	3246	0.17	ppb	93
27) Chloroform	7.87	83	6331	0.13	ppb	97
29) 1,2-dichloroethane	8.95	62	9775	0.34	ppb	96
33) Carbon tetrachloride	9.30	117	4344	0.11	ppb	95
34) Benzene	9.27	78	6062	0.22	ppb	94
38) Trichloroethene	10.75	130	133559	7.15	ppb	99
45) Toluene	12.99	92	9368	0.42	ppb	97
50) Tetrachloroethylene	14.02	164	3412	0.13	ppb	90
53) m&p-xylene	15.39	91	8009	0.20	ppb	95

Data File : C:\HPCHEM\1\DATA\AH030331.D
Acq On : 4 Mar 2010 4:50
Sample : C1003003-004A
Misc : C1003003-004A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:32 2010

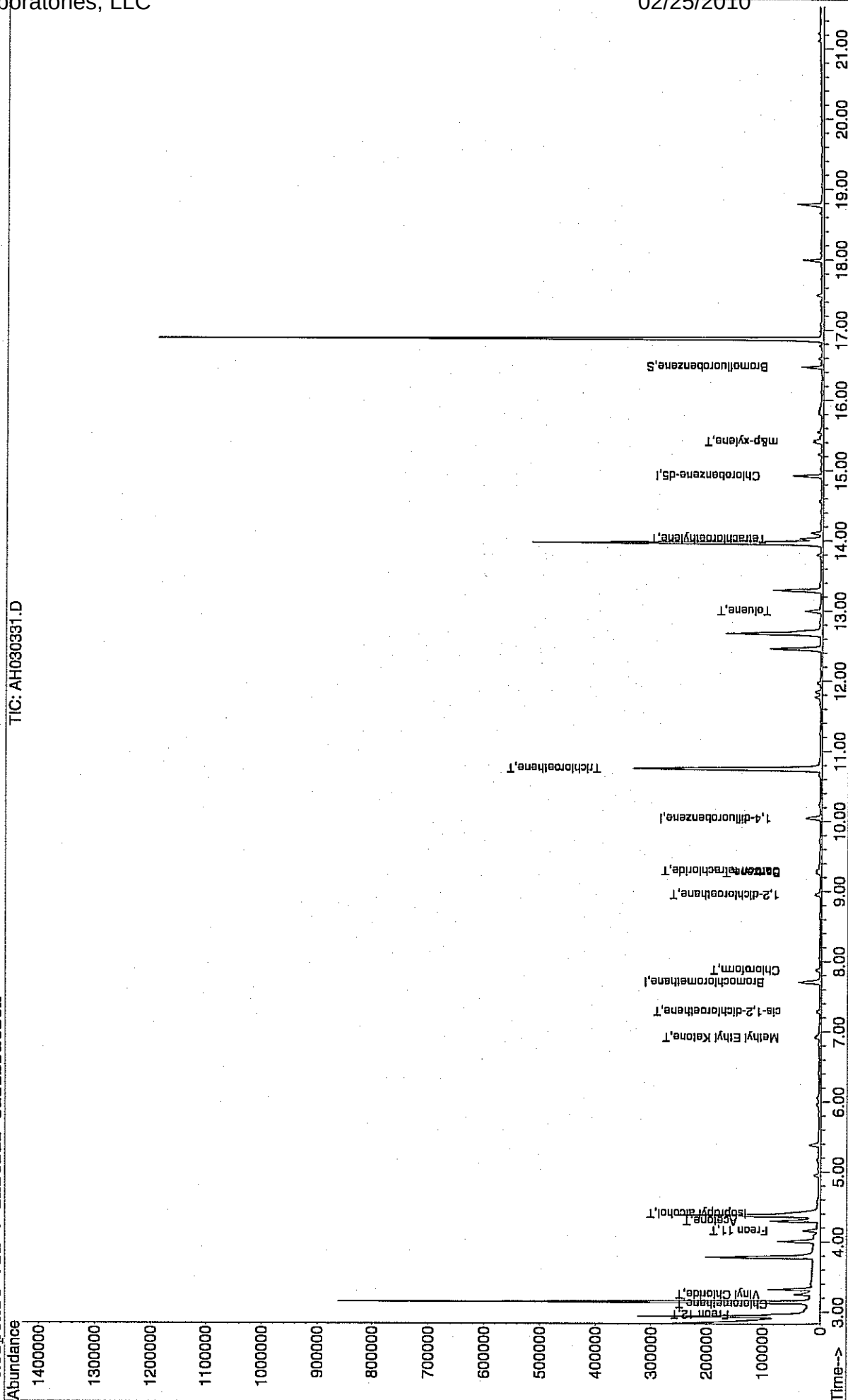
Vial: 4

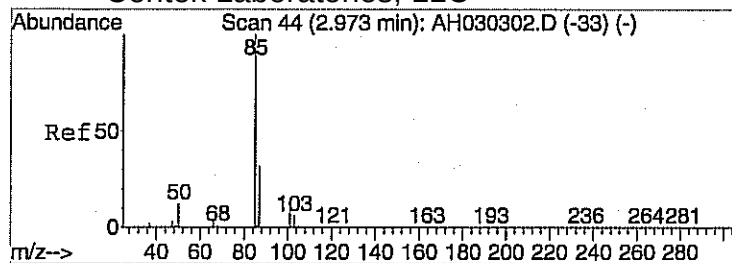
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

TIC: AH030331.D





#3

Freon 12

Concen: 0.50 ppb

RT: 2.97 min Scan# 43

Delta R.T. -0.00 min

Lab File: AH030331.D

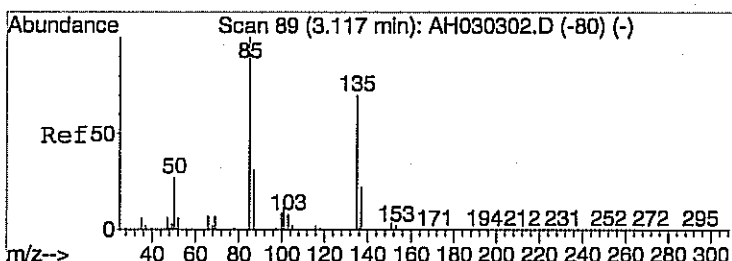
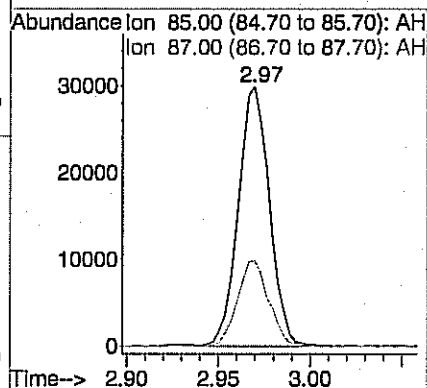
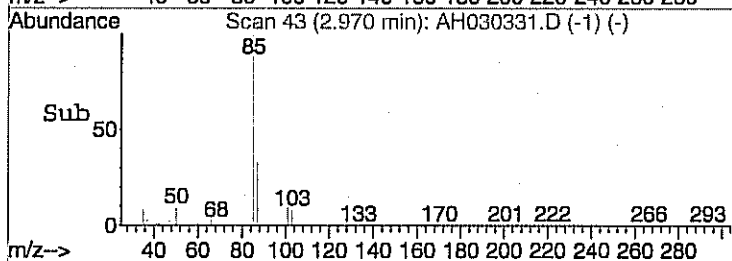
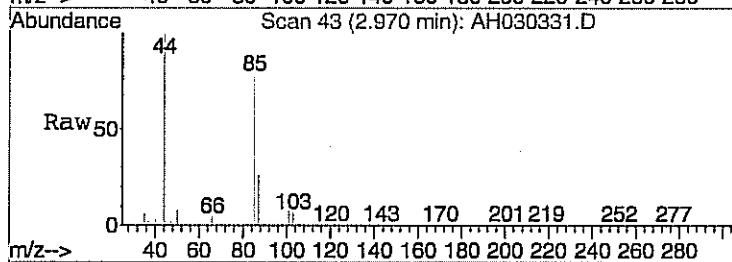
Acq: 4 Mar 2010 4:50

Tgt Ion: 85 Resp: 35055

Ion Ratio Lower Upper

85 100

87 33.0 13.2 53.2



#4

Chloromethane

Concen: 0.35 ppb

RT: 3.11 min Scan# 87

Delta R.T. -0.00 min

Lab File: AH030331.D

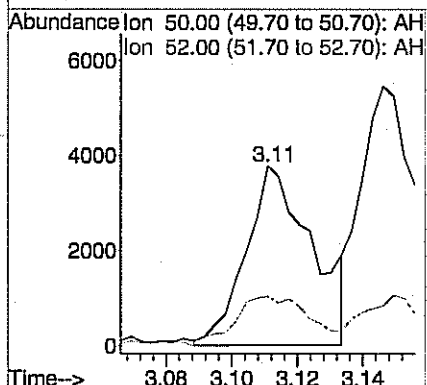
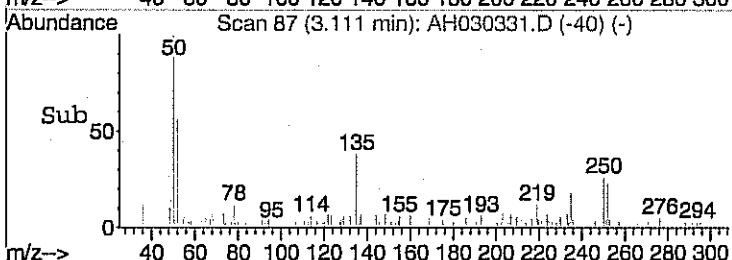
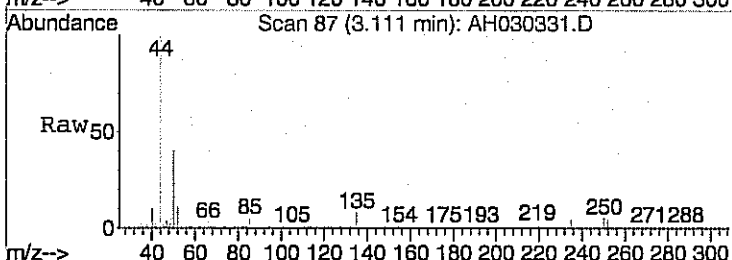
Acq: 4 Mar 2010 4:50

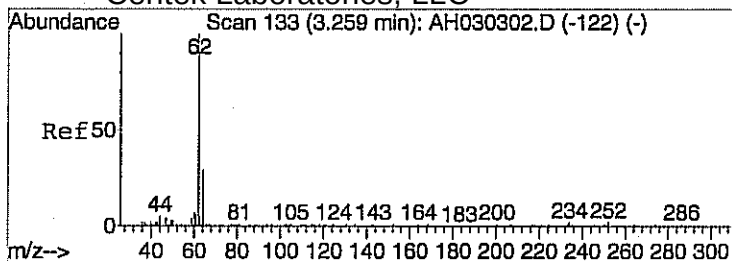
Tgt Ion: 50 Resp: 5236

Ion Ratio Lower Upper

50 100

52 31.9 4.0 44.0





#6

Vinyl Chloride

Concen: 0.12 ppb

RT: 3.25 min Scan# 131

Delta R.T. -0.00 min

Lab File: AH030331.D

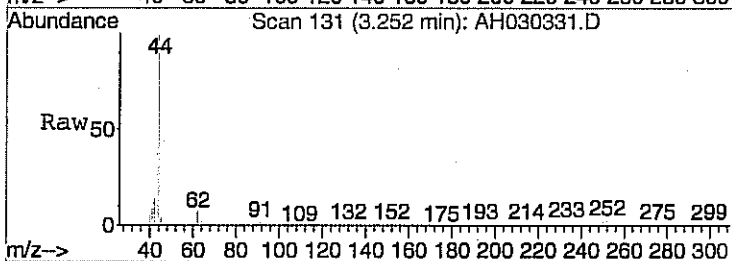
Acq: 4 Mar 2010 4:50

Tgt Ion: 62 Resp: 1569

Ion Ratio Lower Upper

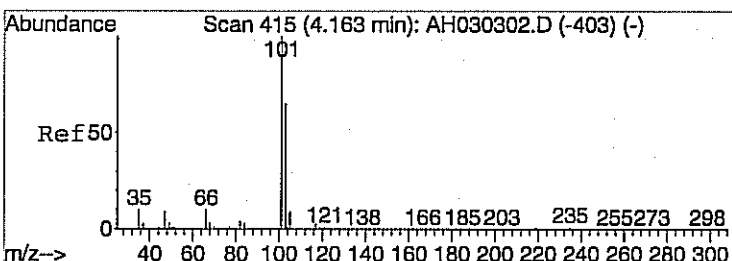
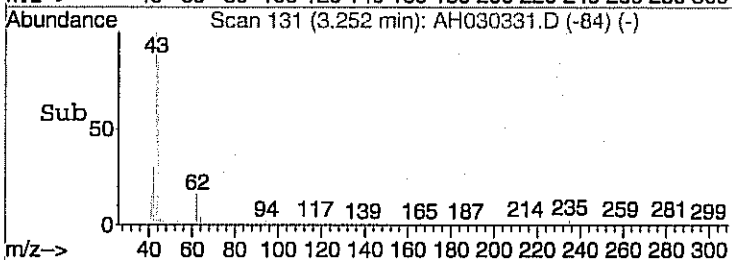
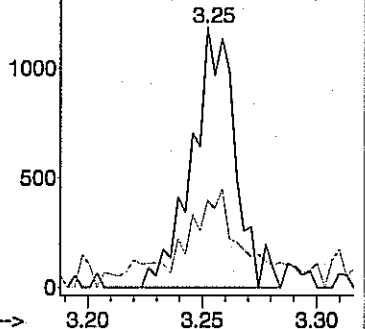
62 100

64 47.5 5.5 65.5



Abundance Ion 62.00 (61.70 to 62.70): AH

Ion 64.00 (63.70 to 64.70): AH



#11

Freon 11

Concen: 0.36 ppb

RT: 4.16 min Scan# 415

Delta R.T. 0.00 min

Lab File: AH030331.D

Acq: 4 Mar 2010 4:50

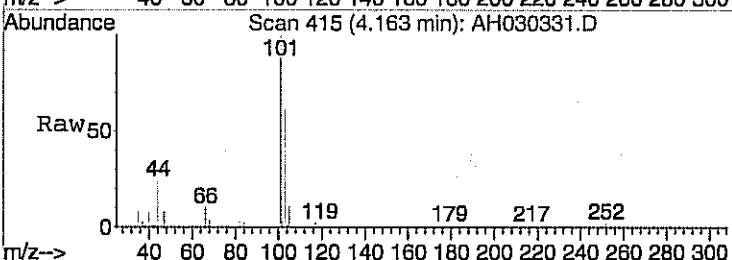
Tgt Ion: 101 Resp: 18512

Ion Ratio Lower Upper

101 100

103 62.9 43.9 83.9

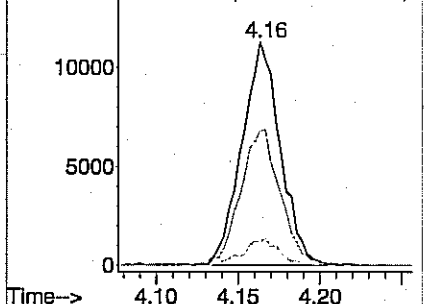
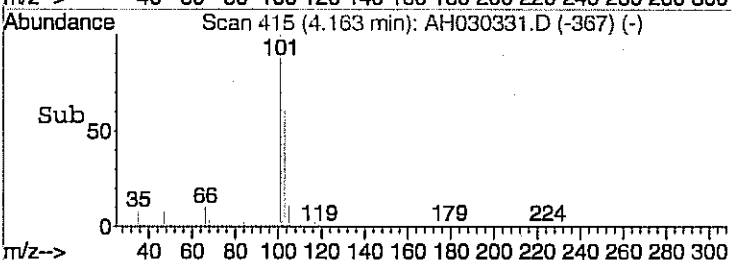
105 11.3 0.0 30.7

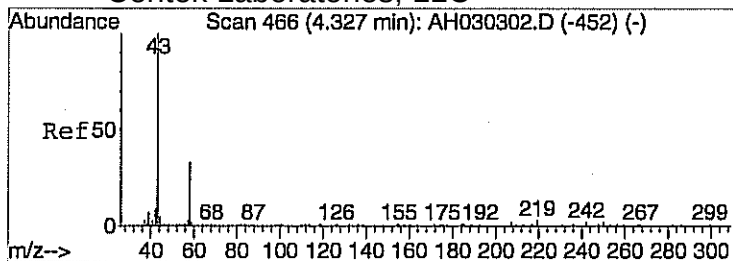


Abundance Ion 101.00 (100.70 to 101.70):

15000 Ion 103.00 (102.70 to 103.70):

Ion 105.00 (104.70 to 105.70):





#12

Acetone

Concen: 7.90 ppb

RT: 4.30 min Scan# 458

Delta R.T. -0.01 min

Lab File: AH030331.D

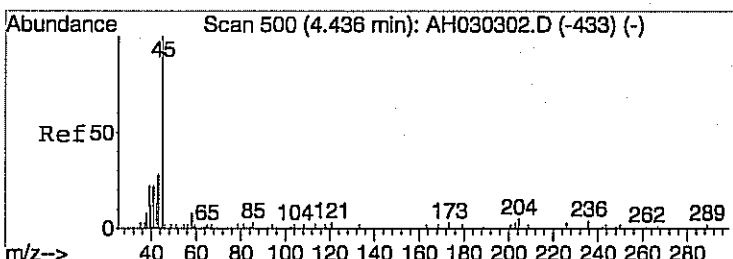
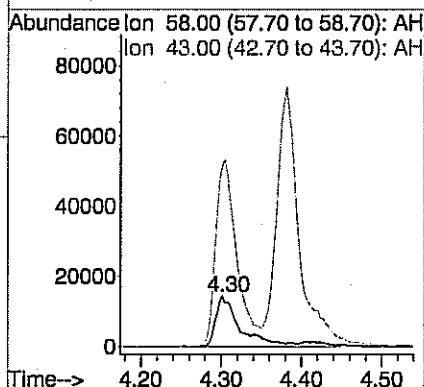
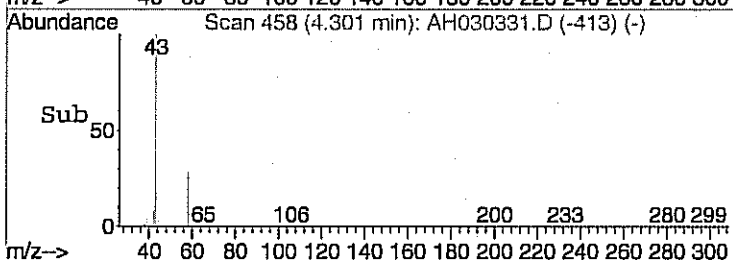
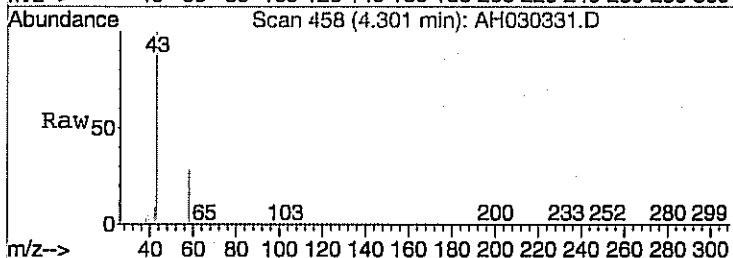
Acq: 4 Mar 2010 4:50

Tgt Ion: 58 Resp: 33557

Ion Ratio Lower Upper

58 100

43 295.4 320.6 380.6#



#13

Isopropyl alcohol

Concen: 3.69 ppb

RT: 4.41 min Scan# 493

Delta R.T. 0.01 min

Lab File: AH030331.D

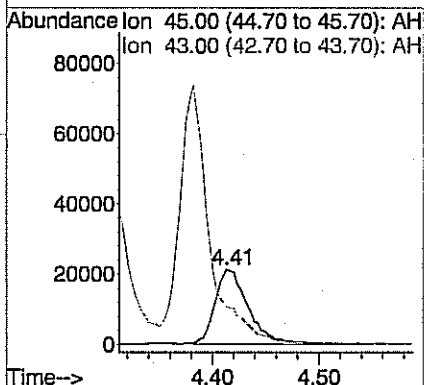
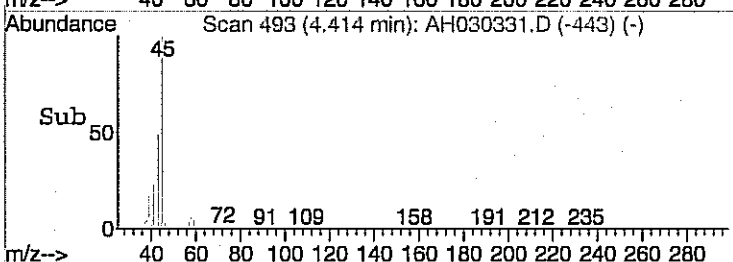
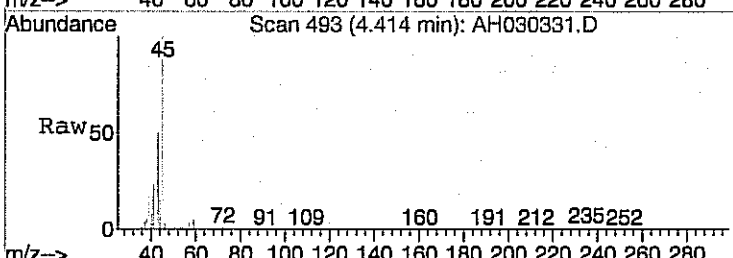
Acq: 4 Mar 2010 4:50

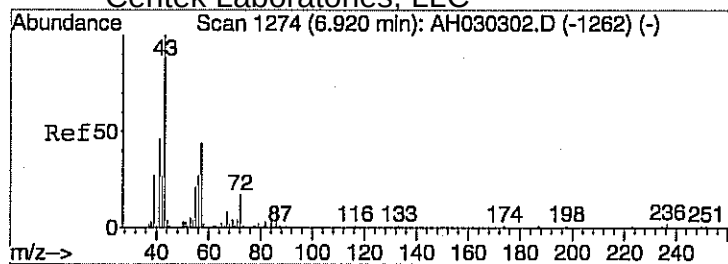
Tgt Ion: 45 Resp: 46123

Ion Ratio Lower Upper

45 100

43 311.1 14.6 54.6#





#23

Methyl Ethyl Ketone

Concen: 0.46 ppb

RT: 6.92 min Scan# 1274

Delta R.T. 0.01 min

Lab File: AH030331.D

Acq: 4 Mar 2010 4:50

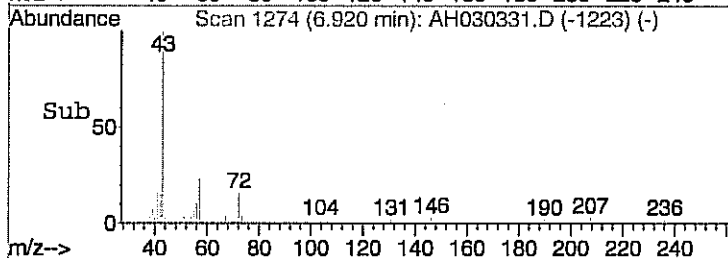
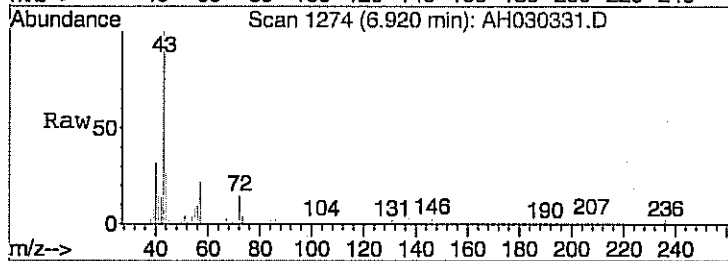
Tgt Ion: 43 Resp: 12070

Ion Ratio Lower Upper

43 100

57 19.3 33.7 73.7#

72 20.6 0.0 36.8

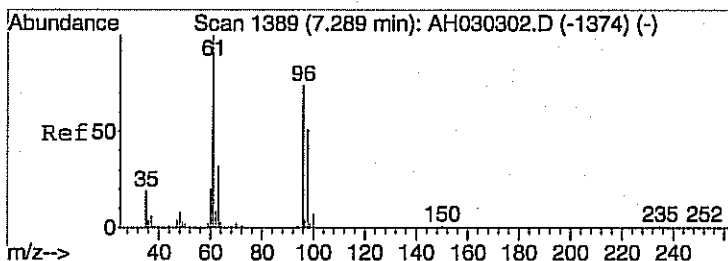
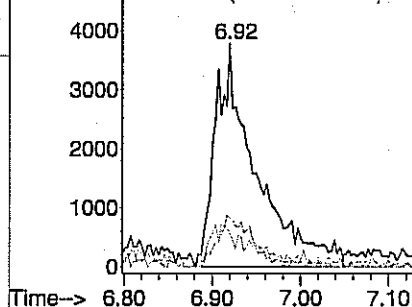


Abundance

Ion 43.00 (42.70 to 43.70): AH

Ion 57.00 (56.70 to 57.70): AH

Ion 72.00 (71.70 to 72.70): AH



#24

cis-1,2-dichloroethene

Concen: 0.17 ppb

RT: 7.29 min Scan# 1389

Delta R.T. 0.01 min

Lab File: AH030331.D

Acq: 4 Mar 2010 4:50

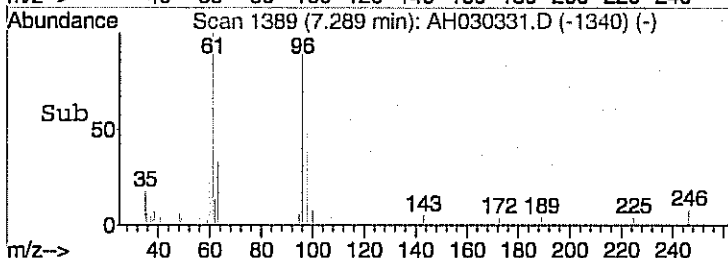
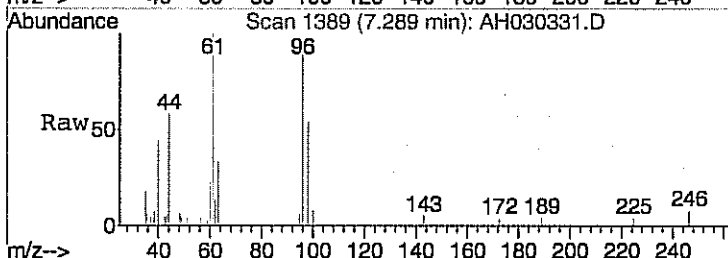
Tgt Ion: 61 Resp: 3246

Ion Ratio Lower Upper

61 100

96 86.5 61.2 101.2

98 59.6 32.6 72.6

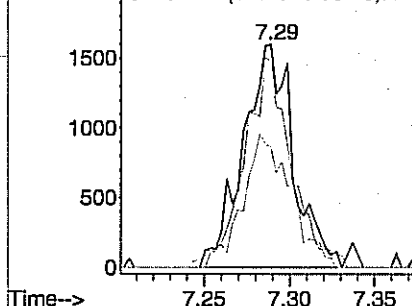


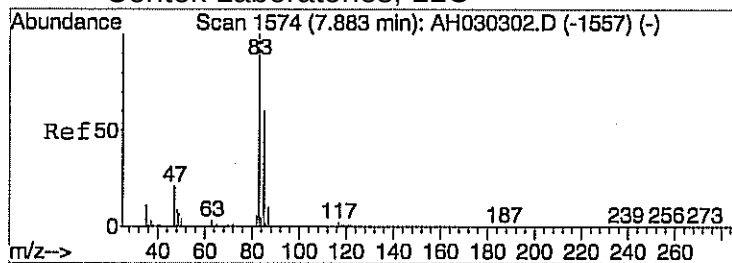
Abundance

Ion 61.00 (60.70 to 61.70): AH

Ion 96.00 (95.70 to 96.70): AH

Ion 98.00 (97.70 to 98.70): AH





#27

Chloroform

Concen: 0.13 ppb

RT: 7.87 min Scan# 1570

Delta R.T. -0.00 min

Lab File: AH030331.D

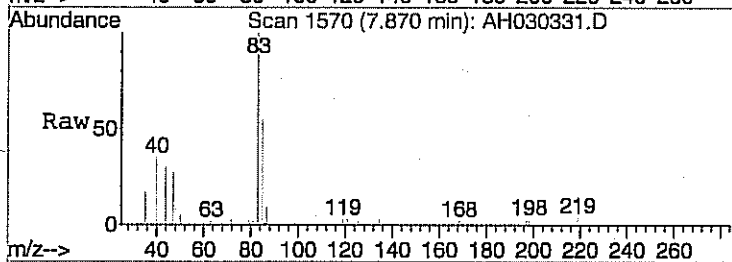
Acq: 4 Mar 2010 4:50

Tgt Ion: 83 Resp: 6331

Ion Ratio Lower Upper

83 100

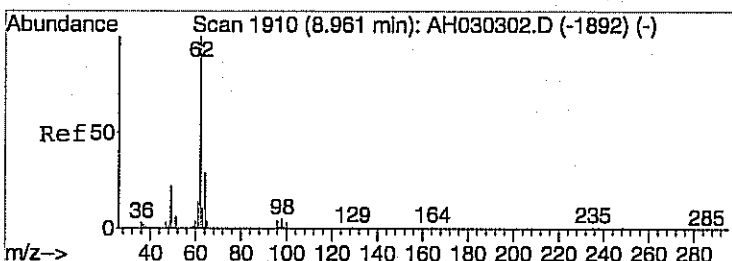
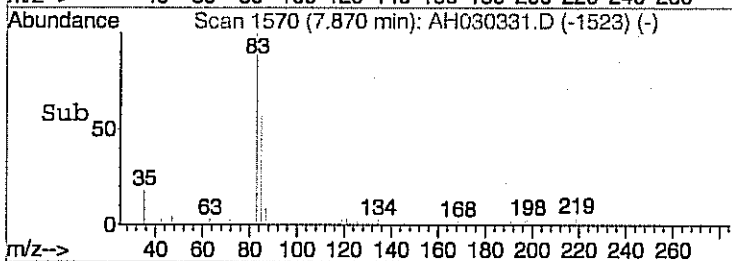
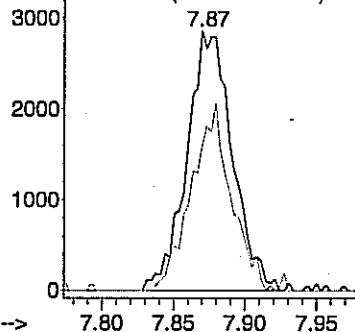
85 63.3 45.9 85.9



Abundance

Ion 83.00 (82.70 to 83.70): AH

Ion 85.00 (84.70 to 85.70): AH



#29

1,2-dichloroethane

Concen: 0.34 ppb

RT: 8.95 min Scan# 1908

Delta R.T. 0.01 min

Lab File: AH030331.D

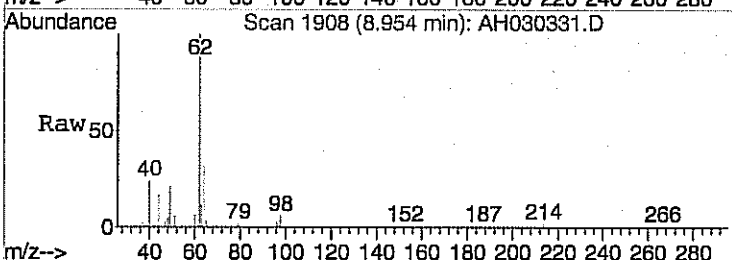
Acq: 4 Mar 2010 4:50

Tgt Ion: 62 Resp: 9775

Ion Ratio Lower Upper

62 100

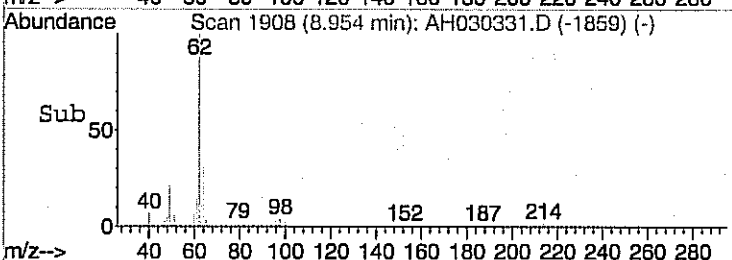
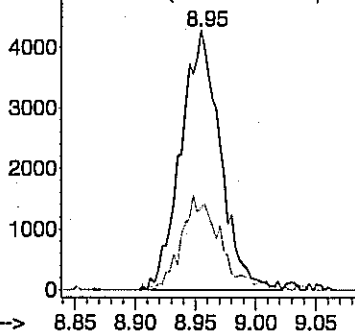
64 35.2 17.7 57.7

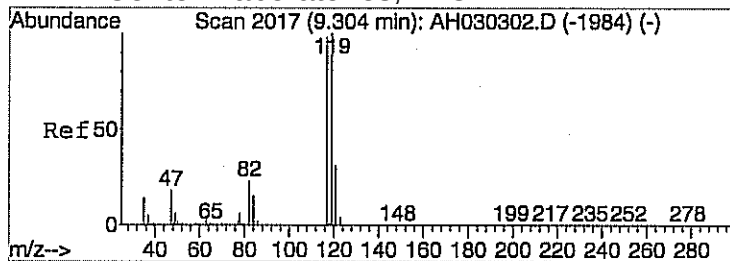


Abundance

Ion 62.00 (61.70 to 62.70): AH

Ion 64.00 (63.70 to 64.70): AH





#33

Carbon tetrachloride

Concen: 0.11 ppb

RT: 9.30 min Scan# 2016

Delta R.T. 0.01 min

Lab File: AH030331.D

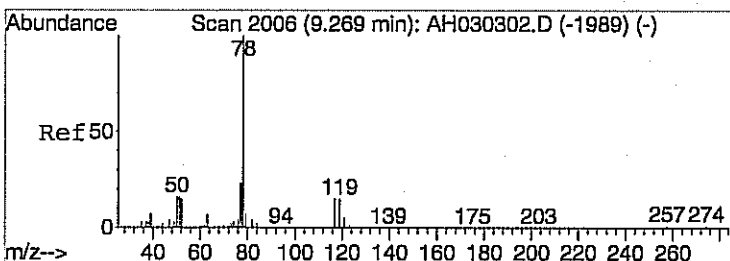
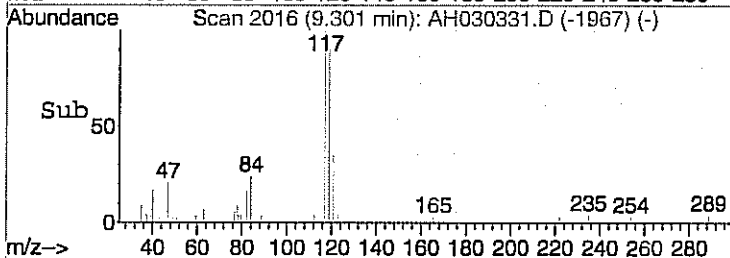
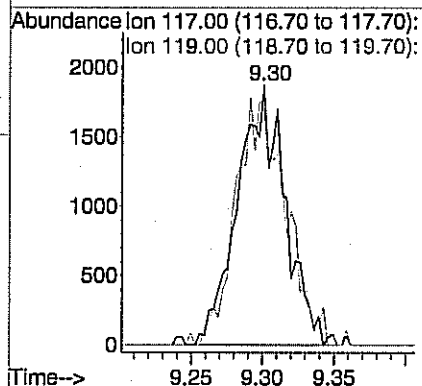
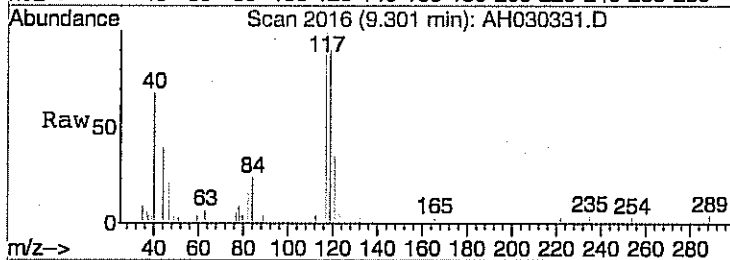
Acq: 4 Mar 2010 4:50

Tgt Ion: 117 Resp: 4344

Ion Ratio Lower Upper

117 100

119 99.7 75.3 115.3



#34

Benzene

Concen: 0.22 ppb

RT: 9.27 min Scan# 2005

Delta R.T. 0.01 min

Lab File: AH030331.D

Acq: 4 Mar 2010 4:50

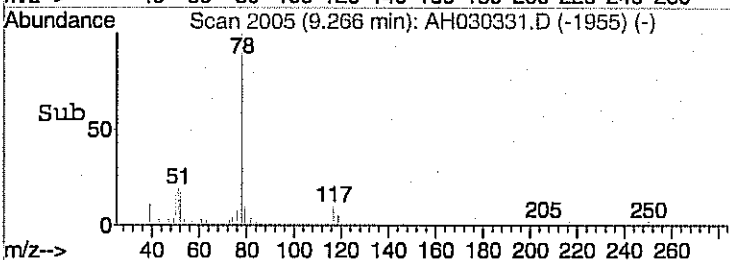
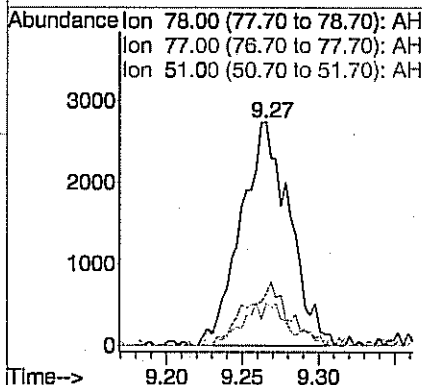
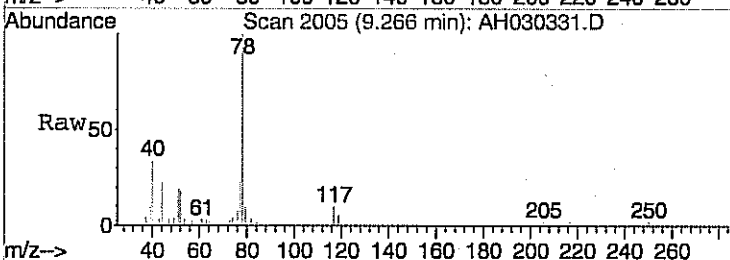
Tgt Ion: 78 Resp: 6062

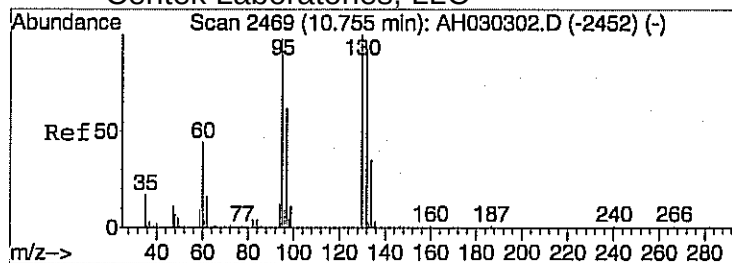
Ion Ratio Lower Upper

78 100

77 24.7 2.7 42.7

51 17.3 1.1 41.1





#38

Trichloroethene

Concen: 7.15 ppb

RT: 10.75 min Scan# 2468

Delta R.T. 0.01 min

Lab File: AH030331.D

Acq: 4 Mar 2010 4:50

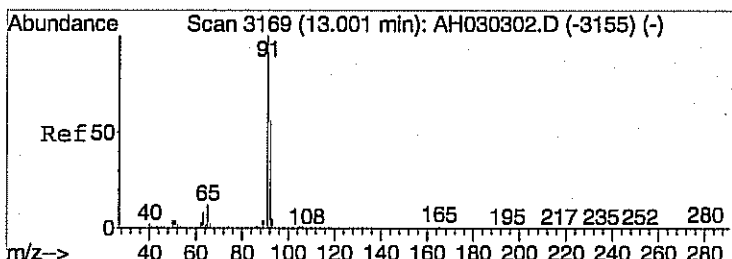
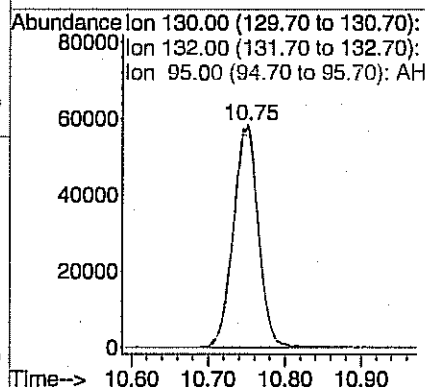
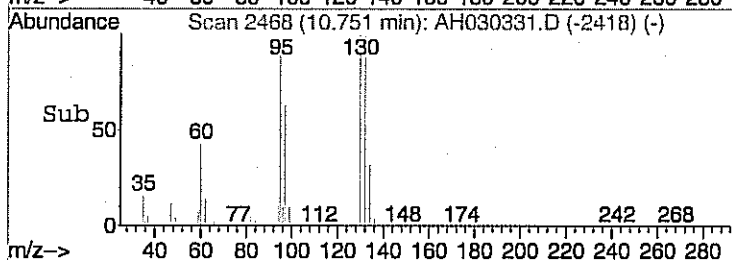
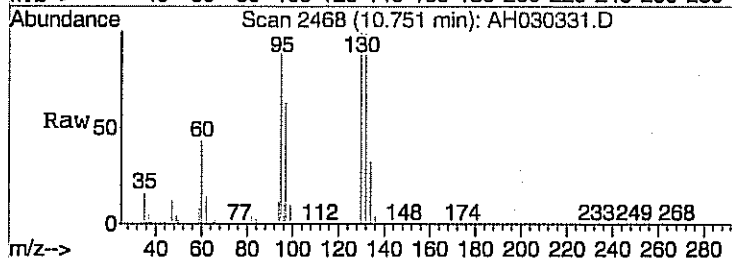
Tgt Ion:130 Resp: 133559

Ion Ratio Lower Upper

130 100

132 96.8 78.1 118.1

95 97.9 76.7 116.7



#45

Toluene

Concen: 0.42 ppb

RT: 12.99 min Scan# 3166

Delta R.T. -0.00 min

Lab File: AH030331.D

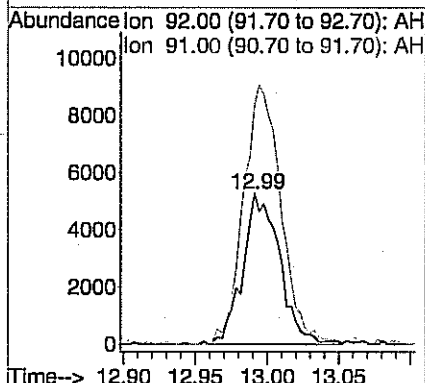
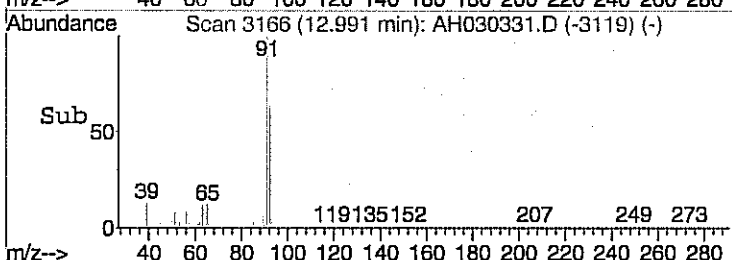
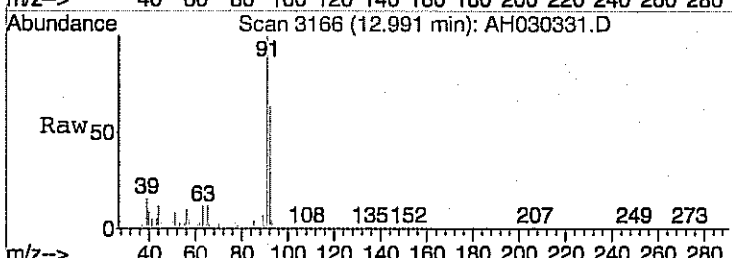
Acq: 4 Mar 2010 4:50

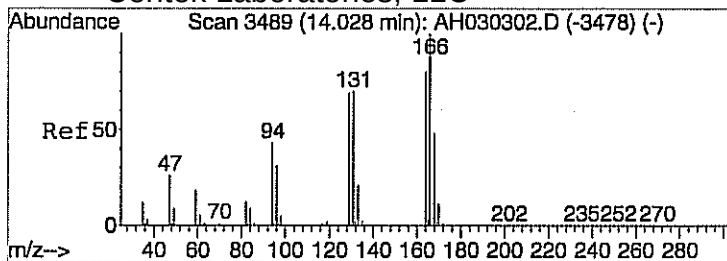
Tgt Ion: 92 Resp: 9368

Ion Ratio Lower Upper

92 100

91 177.2 152.9 192.9





#50

Tetrachloroethylene

Concen: 0.13 ppb

RT: 14.02 min Scan# 3488

Delta R.T. 0.00 min

Lab File: AH030331.D

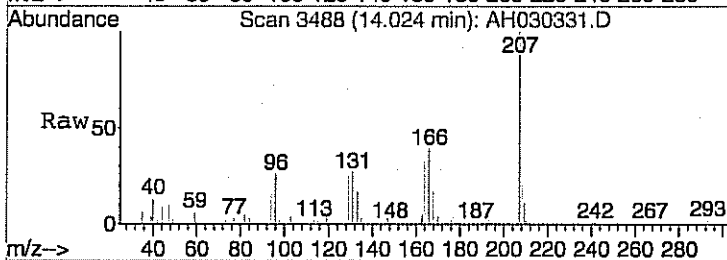
Acq: 4 Mar 2010 4:50

Tgt Ion: 164 Resp: 3412

Ion Ratio Lower Upper

164 100

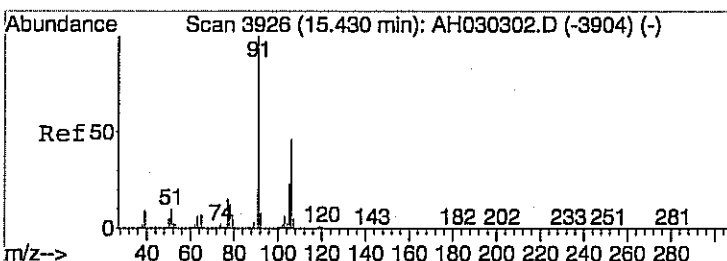
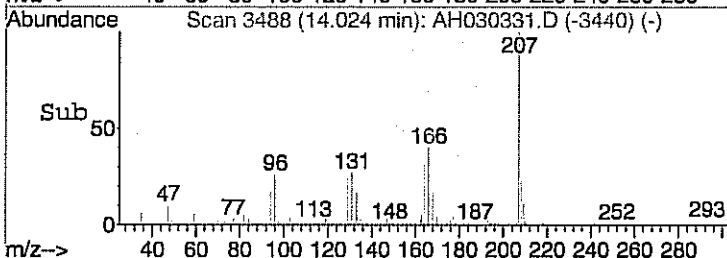
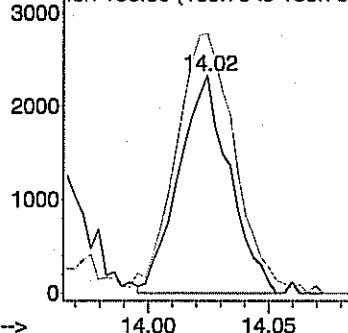
166 138.9 107.9 147.9



Abundance

Ion 164.00 (163.70 to 164.70):

Ion 166.00 (165.70 to 166.70):



#53

m&p-xylene

Concen: 0.20 ppb

RT: 15.39 min Scan# 3914

Delta R.T. -0.03 min

Lab File: AH030331.D

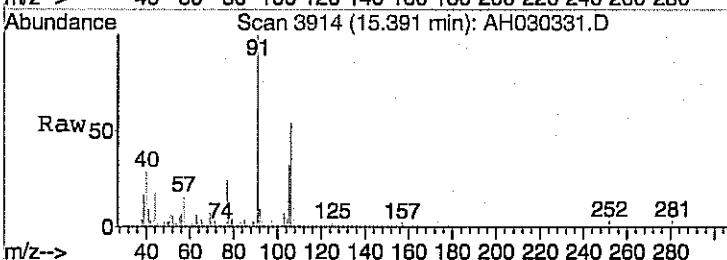
Acq: 4 Mar 2010 4:50

Tgt Ion: 91 Resp: 8009

Ion Ratio Lower Upper

91 100

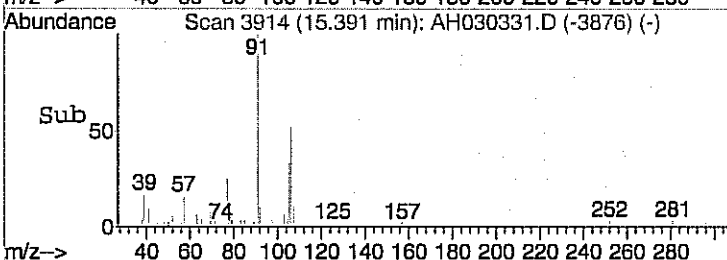
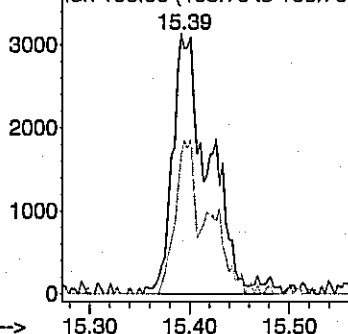
106 51.7 28.0 68.0



Abundance

Ion 91.00 (90.70 to 91.70): AH

Ion 106.00 (105.70 to 106.70):



Data File : C:\HPCHEM\1\DATA\AH030418.D
Acq On : 4 Mar 2010 23:05
Sample : C1003003-004A 5X
Misc : C1003003-004A
MS Integration Params: RTEINT.P
Quant Time: Mar 04 23:27:26 2010

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 10 08:53:54 2010
Response via : Initial Calibration
DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11081	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	21346	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	19088	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	7197	0.78	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	78.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	4.32	58	4892	1.21	ppb	# 72
13) Isopropyl alcohol	4.44	45	7203	0.60	ppb	# 40
38) Trichloroethene	10.75	130	22817	1.35	ppb	95

Data File : C:\HPCHEM\1\DATA\AH030418.D
Acq On : 4 Mar 2010 23:05
Sample : C1003003-004A 5X
Misc : C1003003-004A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:40 2010

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

TIC: AH030418.D

Abundance

200000

190000

180000

170000

160000

150000

140000

130000

120000

110000

100000

90000

80000

70000

60000

50000

40000

30000

20000

10000

0

Time-->

3.00

4.00

5.00

6.00

7.00

8.00

9.00

10.00

11.00

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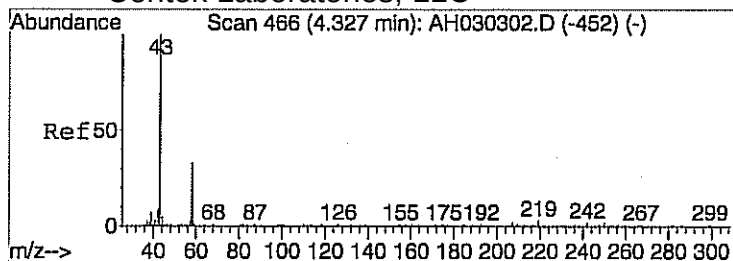
283.00

284.00

285.00

286.00

287.00



#12

Acetone

Concen: 1.21 ppb

RT: 4.32 min Scan# 465

Delta R.T. 0.02 min

Lab File: AH030418.D

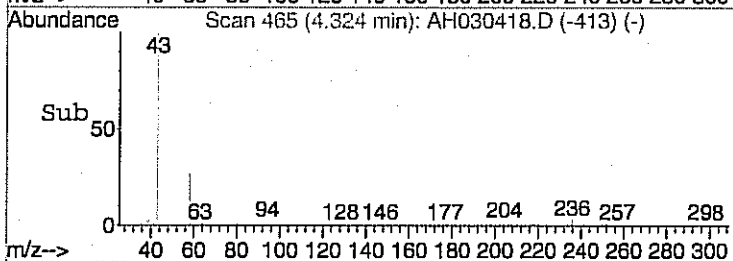
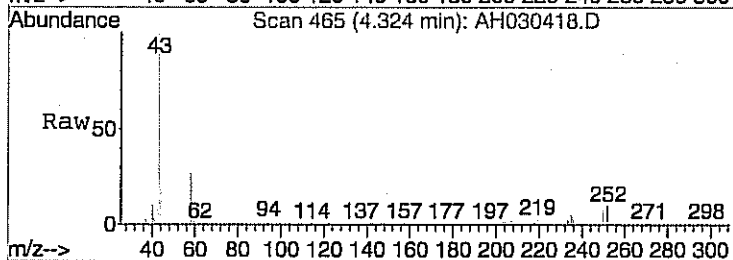
Acq: 4 Mar 2010 23:05

Tgt Ion: 58 Resp: 4892

Ion Ratio Lower Upper

58 100

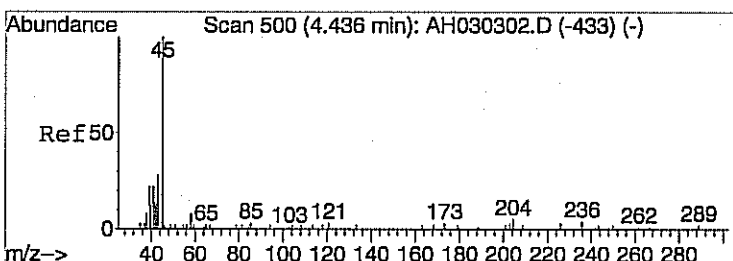
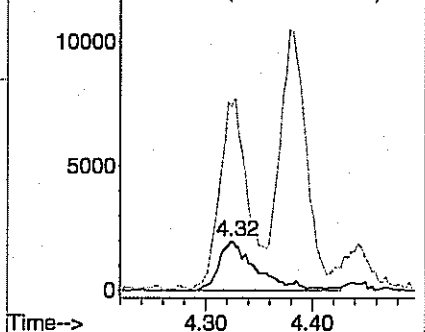
43 290.8 320.6 380.6#



Abundance

Ion 58.00 (57.70 to 58.70): AH

Ion 43.00 (42.70 to 43.70): AH



#13

Isopropyl alcohol

Concen: 0.60 ppb

RT: 4.44 min Scan# 502

Delta R.T. 0.04 min

Lab File: AH030418.D

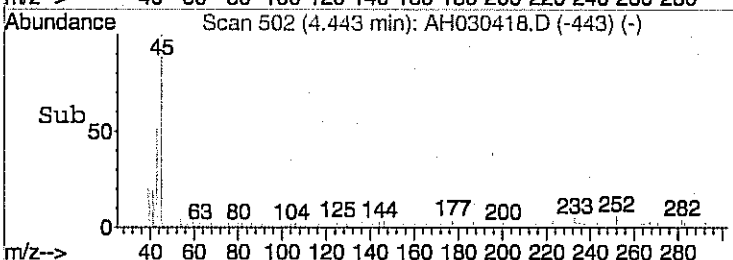
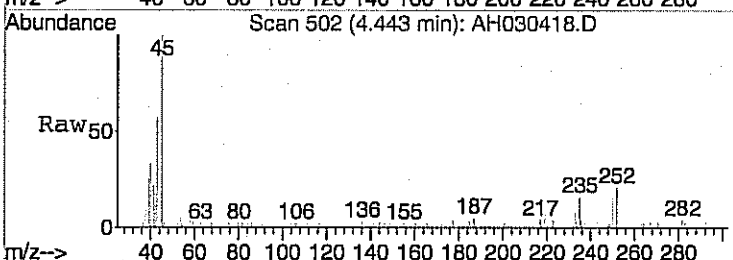
Acq: 4 Mar 2010 23:05

Tgt Ion: 45 Resp: 7203

Ion Ratio Lower Upper

45 100

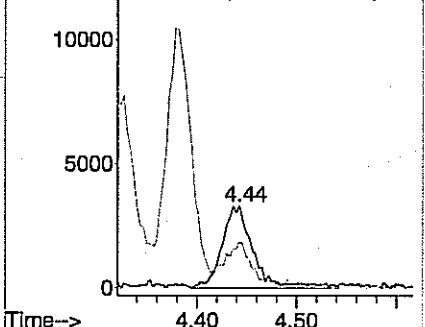
43 0.0 14.6 54.6#

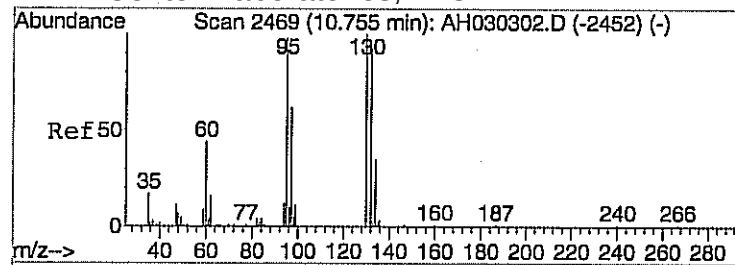


Abundance

Ion 45.00 (44.70 to 45.70): AH

Ion 43.00 (42.70 to 43.70): AH





#38

Trichloroethene

Concen: 1.35 ppb

RT: 10.75 min Scan# 2469

Delta R.T. 0.01 min

Lab File: AH030418.D

Acq: 4 Mar 2010 23:05

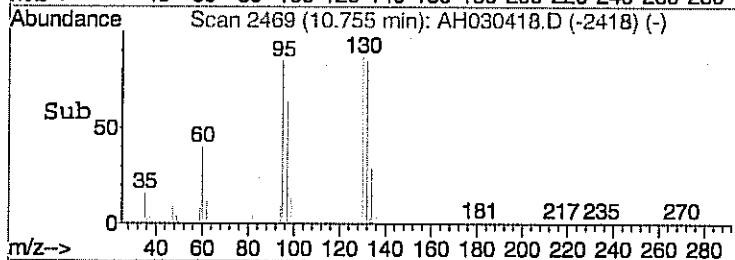
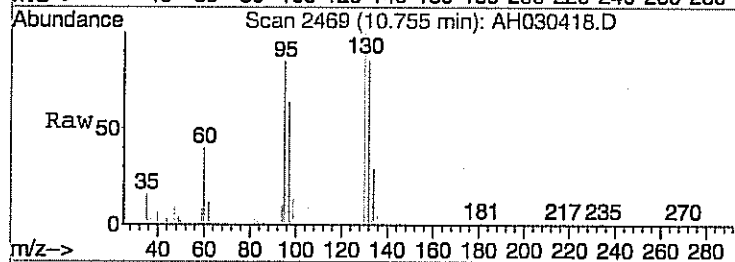
Tgt Ion:130 Resp: 22817

Ion Ratio Lower Upper

130 100

132 95.4 78.1 118.1

95 90.3 76.7 116.7

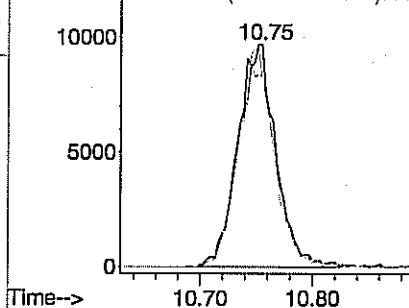


Abundance

Ion 130.00 (129.70 to 130.70):

Ion 132.00 (131.70 to 132.70):

Ion 95.00 (94.70 to 95.70): AH





Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-005A

Client Sample ID: 130-PRE-SS
 Tag Number: 630,522
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1			"Hg		Analyst: 3/1/2010
1UG/M3 BY METHOD TO15						
		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	0.50	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	0.19	0.15		ppbV	1	3/3/2010
4-ethyltoluene	0.21	0.15		ppbV	1	3/3/2010
Acetone	7.3	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	1.2	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	3.2	0.75		ppbV	5	3/4/2010
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	0.96	0.15		ppbV	1	3/3/2010
Chloromethane	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	3.0	0.75		ppbV	5	3/4/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	< 0.25	0.25		ppbV	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
Lab Order: C1003003
Project: LEICA
Lab ID: C1003003-005A

Client Sample ID: 130-PRE-SS
Tag Number: 630,522
Collection Date: 2/25/2010
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Ethylbenzene	0.45	0.15		ppbV	1	3/3/2010
Freon 11	0.20	0.15		ppbV	1	3/3/2010
Freon 113	0.10	0.15	J	ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.46	0.15		ppbV	1	3/3/2010
Heptane	1.8	0.75		ppbV	5	3/4/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	2.0	0.75		ppbV	5	3/4/2010
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/3/2010
m&p-Xylene	1.4	0.30		ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	< 0.15	0.15		ppbV	1	3/3/2010
o-Xylene	0.45	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	2.3	0.75		ppbV	5	3/4/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	7.0	0.75		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	109	70-130		%REC	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-005A

Client Sample ID: 130-PRE-SS
 Tag Number: 630,522
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	2.5	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	0.90	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	1.0	0.75		ug/m3	1	3/3/2010
Acetone	18	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	3.8	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	10	2.4		ug/m3	5	3/4/2010
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	4.8	0.74		ug/m3	1	3/3/2010
Chloromethane	< 0.31	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	11	2.6		ug/m3	5	3/4/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/3/2010
Ethylbenzene	2.0	0.66		ug/m3	1	3/3/2010
Freon 11	1.1	0.86		ug/m3	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
Lab Order: C1003003
Project: LEICA
Lab ID: C1003003-005A

Client Sample ID: 130-PRE-SS
Tag Number: 630,522
Collection Date: 2/25/2010
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15				TO-15		Analyst: RJP
Freon 113	0.78	1.2	J	ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.3	0.75		ug/m3	1	3/3/2010
Heptane	7.3	3.1		ug/m3	5	3/4/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	7.2	2.7		ug/m3	5	3/4/2010
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/3/2010
m&p-Xylene	6.2	1.3		ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	< 0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	2.0	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	8.8	2.9		ug/m3	5	3/4/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	38	4.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/3/2010

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\AH030332.D

Vial: 5

Acq On : 4 Mar 2010 5:23

Operator: RJP

Sample : C1003003-005A

Inst : MSD #1

Misc : C1003003-005A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 05:45:12 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	12460	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	30116	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	45602	1.00	ppb	0.00

System Monitoring Compounds

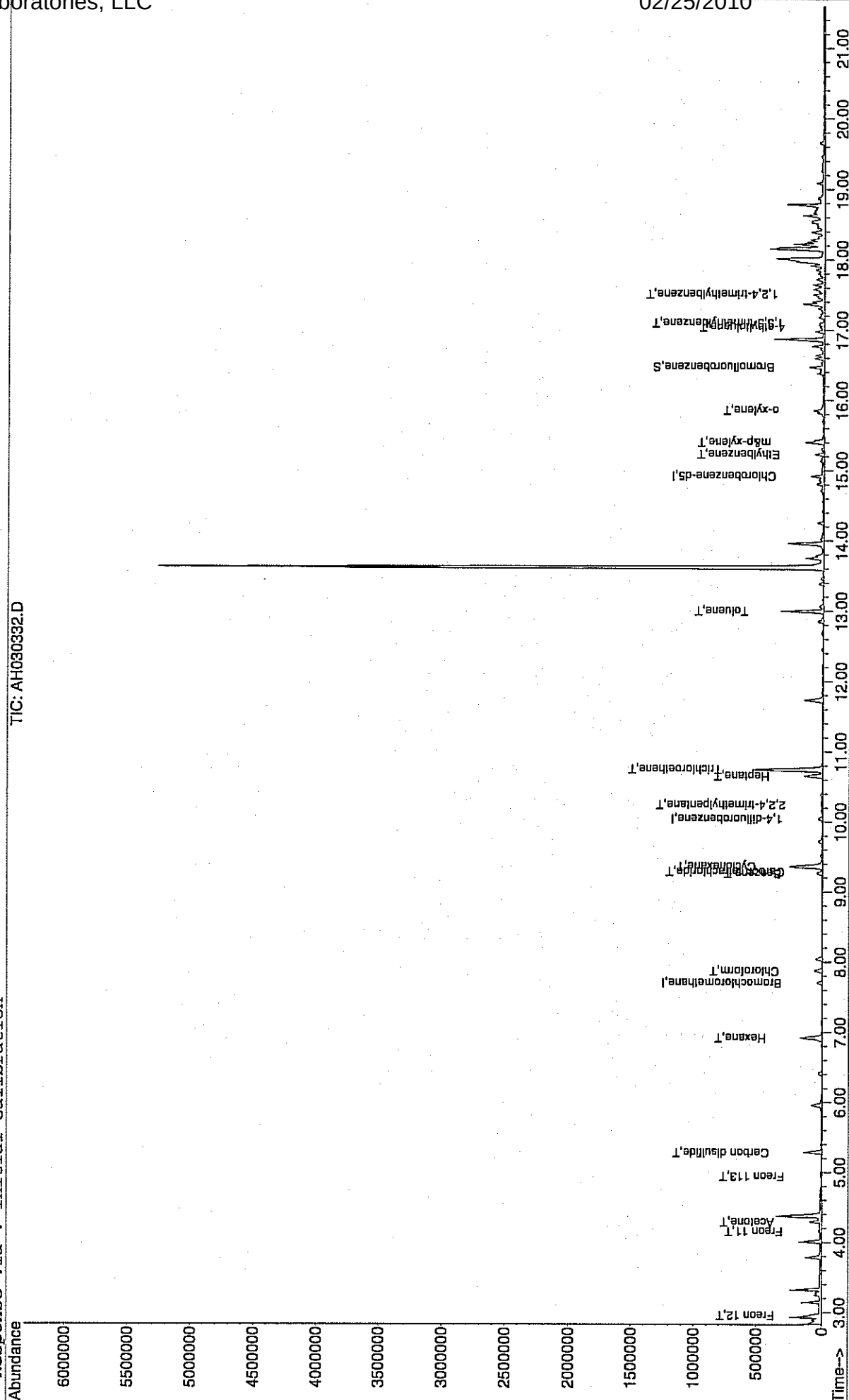
57) Bromofluorobenzene	16.47	95	24031	1.09	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	109.00%

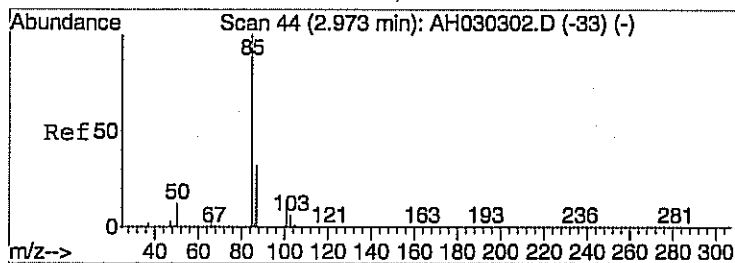
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	2.97	85	34790	0.46	ppb	99
11) Freon 11	4.16	101	11022	0.20	ppb	98
12) Acetone	4.30	58	34784	7.63	ppb	# 60
15) Freon 113	4.94	101	4330	0.10	ppb	96
18) Carbon disulfide	5.29	76	192619	3.55	ppb	99
25) Hexane	6.92	41	63549	4.42	ppb	# 71
27) Chloroform	7.87	83	48598	0.96	ppb	98
32) Cyclohexane	9.37	56	93265	8.02	ppb	# 53
33) Carbon tetrachloride	9.30	117	4943	0.10	ppb	95
34) Benzene	9.27	78	42120	1.18	ppb	95
36) 2,2,4-trimethylpentane	10.23	57	6424	0.19	ppb	# 22
37) Heptane	10.66	43	44616	4.12	ppb	95
38) Trichloroethene	10.74	130	205845	8.65	ppb	99
45) Toluene	13.00	92	121151	3.06	ppb	100
52) Ethylbenzene	15.23	91	35338	0.45	ppb	99
53) m&p-xylene	15.39	91	97913	1.40	ppb	99
56) o-xylene	15.85	91	36808	0.45	ppb	96
59) 4-ethyltoluene	17.03	105	10211m	0.21	ppb	
60) 1,3,5-trimethylbenzene	17.10	105	10964m	0.15	ppb	
61) 1,2,4-trimethylbenzene	17.50	105	30256	0.50	ppb	98

Data File : C:\HPCHEM\1\DATA\AH030332.D
Acq On : 4 Mar 2010 5:23
Sample : C1003003-005A
Misc : C1003003-005A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:34 2010
Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A209_1UG.RES





#3

Freon 12

Concen: 0.46 ppb

RT: 2.97 min Scan# 43

Delta R.T. -0.00 min

Lab File: AH030332.D

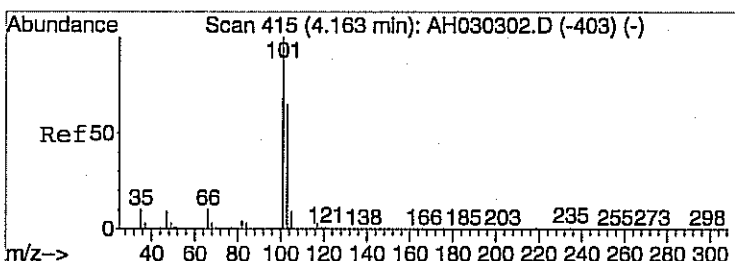
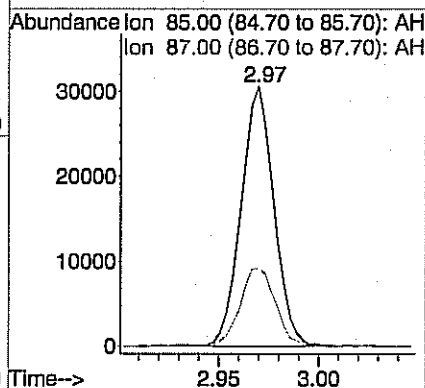
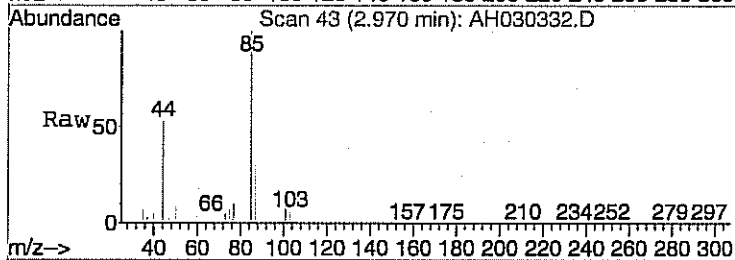
Acq: 4 Mar 2010 5:23

Tgt Ion: 85 Resp: 34790

Ion Ratio Lower Upper

85 100

87 32.4 13.2 53.2



#11

Freon 11

Concen: 0.20 ppb

RT: 4.16 min Scan# 415

Delta R.T. 0.00 min

Lab File: AH030332.D

Acq: 4 Mar 2010 5:23

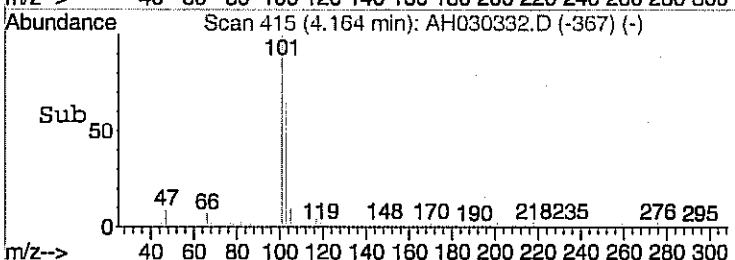
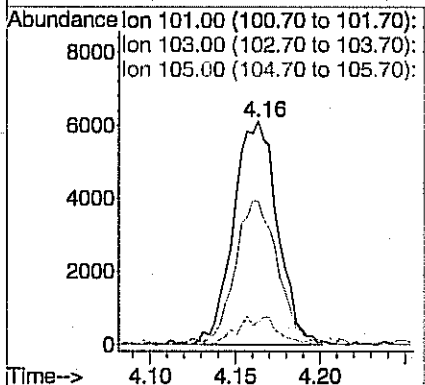
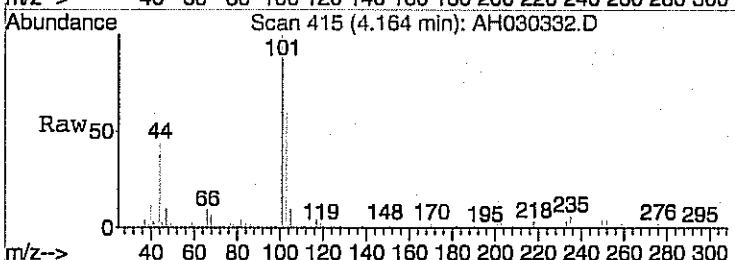
Tgt Ion: 101 Resp: 11022

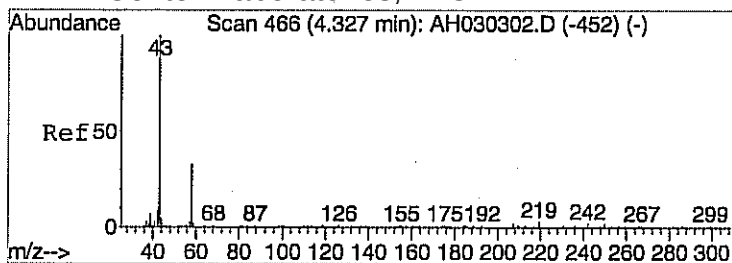
Ion Ratio Lower Upper

101 100

103 62.3 43.9 83.9

105 11.5 0.0 30.7





#12

Acetone

Concen: 7.63 ppb

RT: 4.30 min Scan# 456

Delta R.T. -0.01 min

Lab File: AH030332.D

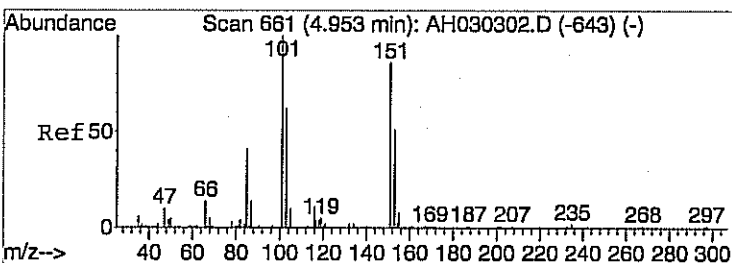
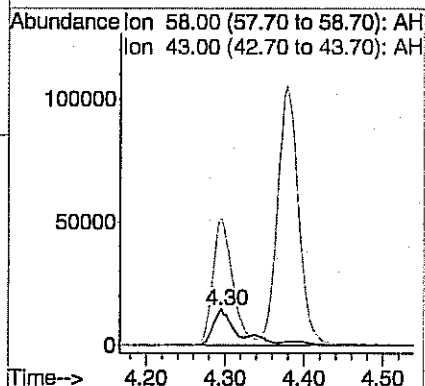
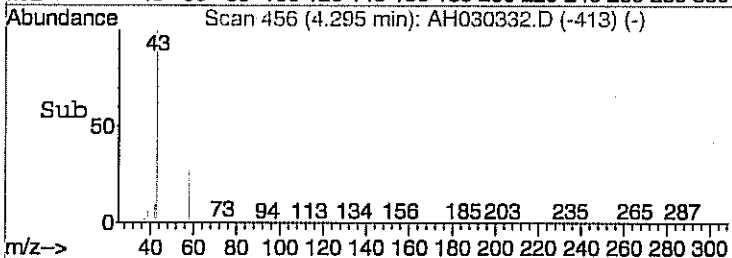
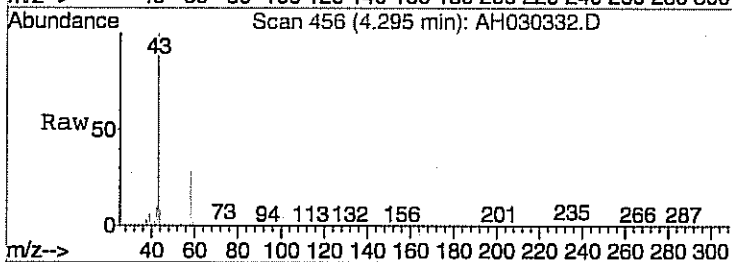
Acq: 4 Mar 2010 5:23

Tgt Ion: 58 Resp: 34784

Ion Ratio Lower Upper

58 100

43 263.7 320.6 380.6#



#15

Freon 113

Concen: 0.10 ppb

RT: 4.94 min Scan# 658

Delta R.T. 0.00 min

Lab File: AH030332.D

Acq: 4 Mar 2010 5:23

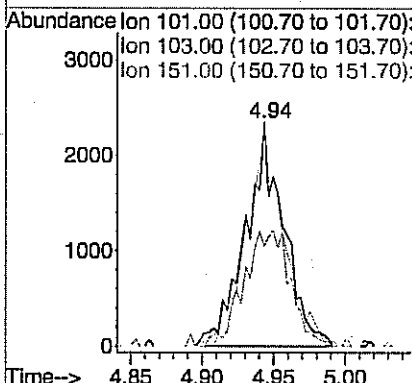
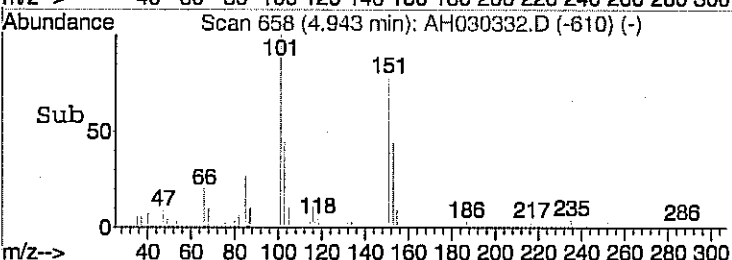
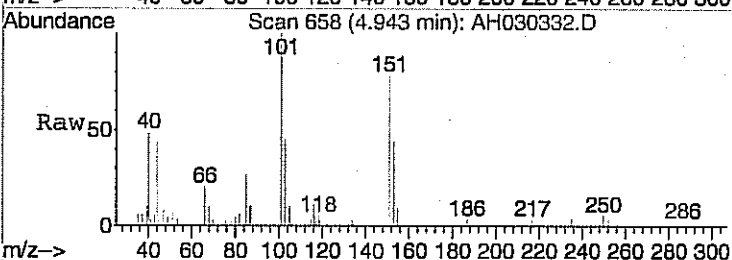
Tgt Ion: 101 Resp: 4330

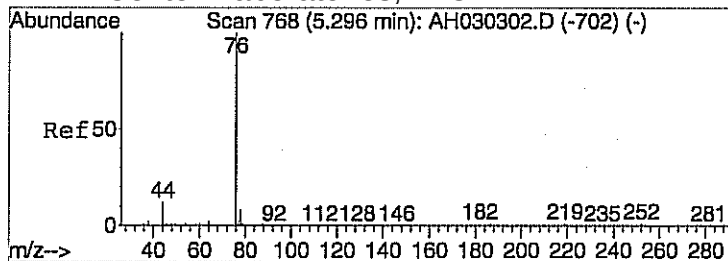
Ion Ratio Lower Upper

101 100

103 63.2 44.5 84.5

151 92.9 67.4 107.4





#18

Carbon disulfide

Concen: 3.55 ppb

RT: 5.29 min Scan# 766

Delta R.T. 0.00 min

Lab File: AH030332.D

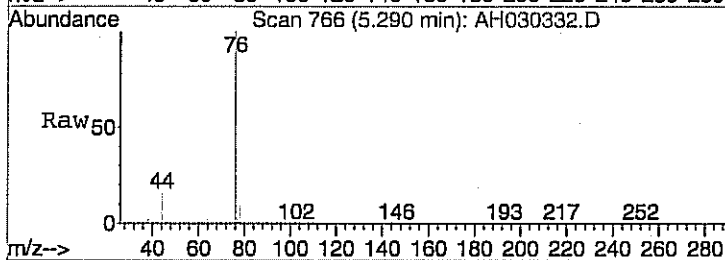
Acq: 4 Mar 2010 5:23

Tgt Ion: 76 Resp: 192619

Ion Ratio Lower Upper

76 100

78 9.6 0.0 30.0



Abundance Ion 76.00 (75.70 to 76.70): AH

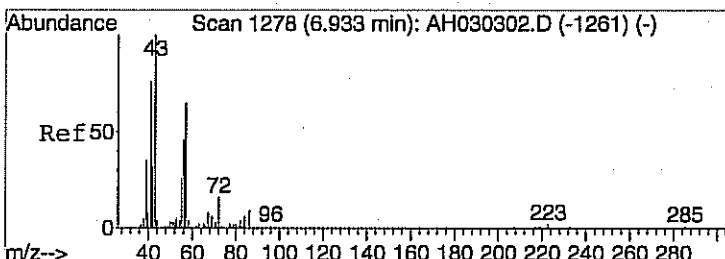
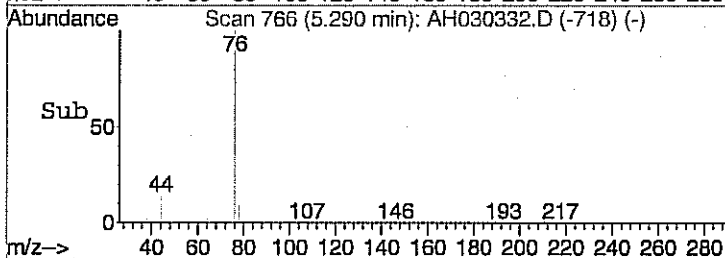
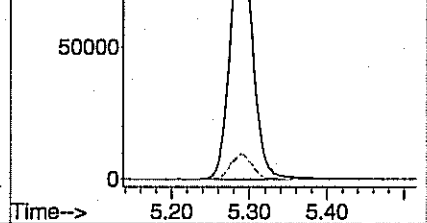
Ion 78.00 (77.70 to 78.70): AH

100000

50000

0

5.20 5.30 5.40



#25

Hexane

Concen: 4.42 ppb

RT: 6.92 min Scan# 1275

Delta R.T. 0.00 min

Lab File: AH030332.D

Acq: 4 Mar 2010 5:23

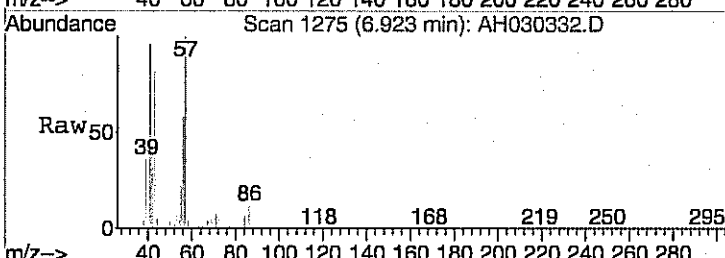
Tgt Ion: 41 Resp: 63549

Ion Ratio Lower Upper

41 100

57 101.5 87.3 127.3

43 137.4 181.3 221.3#



Abundance Ion 41.00 (40.70 to 41.70): AH

Ion 57.00 (56.70 to 57.70): AH

Ion 43.00 (42.70 to 43.70): AH

40000

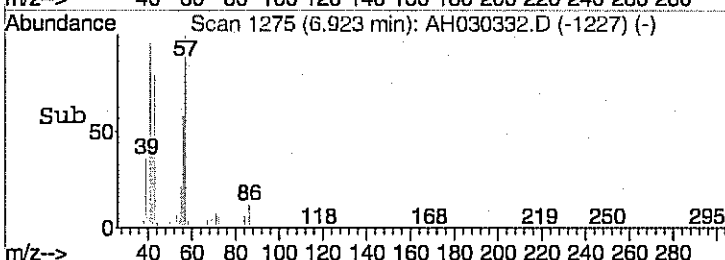
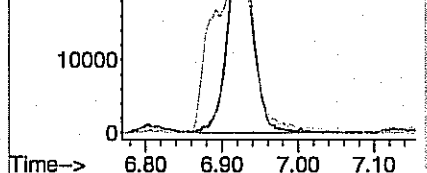
30000

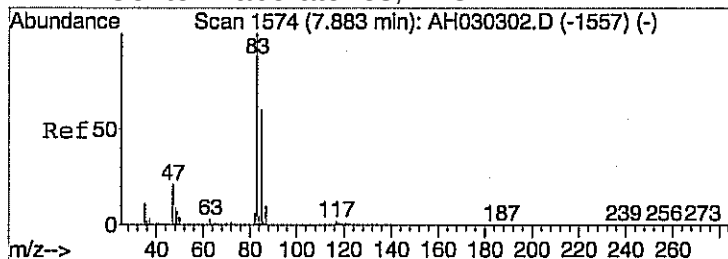
20000

10000

0

6.80 6.90 7.00 7.10





#27

Chloroform

Concen: 0.96 ppb

RT: 7.87 min Scan# 1571

Delta R.T. 0.00 min

Lab File: AH030332.D

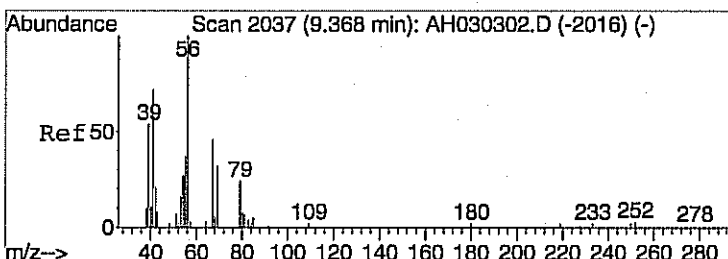
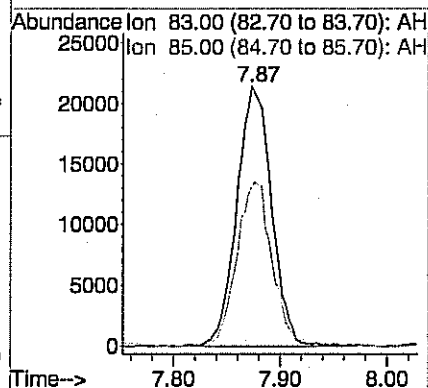
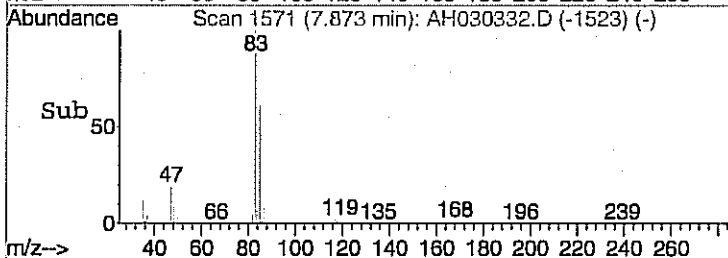
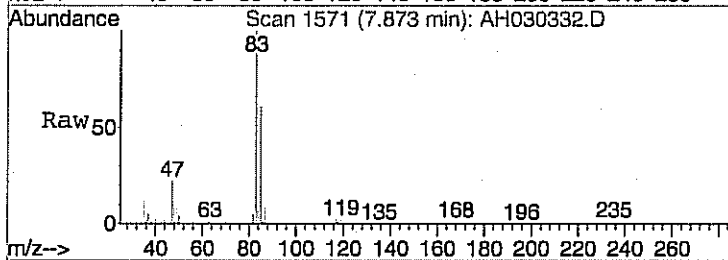
Acq: 4 Mar 2010 5:23

Tgt Ion: 83 Resp: 48598

Ion Ratio Lower Upper

83 100

85 64.4 45.9 85.9



#32

Cyclohexane

Concen: 8.02 ppb

RT: 9.37 min Scan# 2036

Delta R.T. 0.01 min

Lab File: AH030332.D

Acq: 4 Mar 2010 5:23

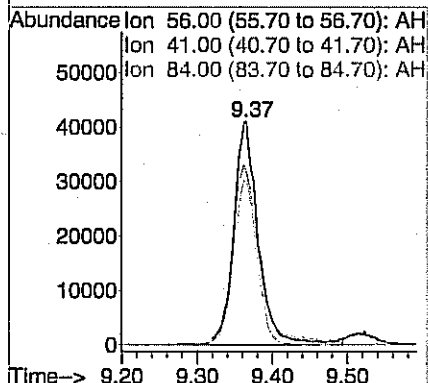
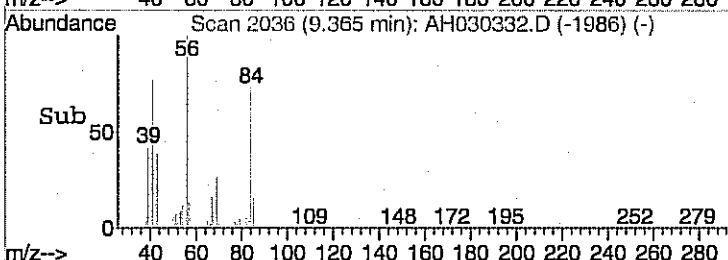
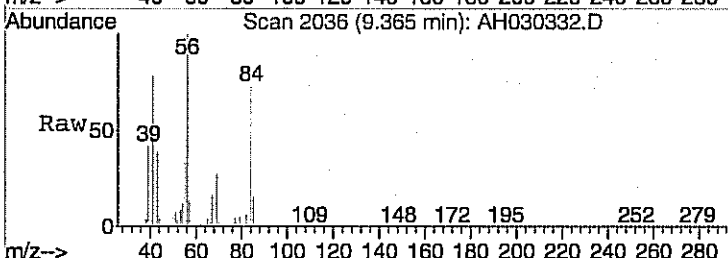
Tgt Ion: 56 Resp: 93265

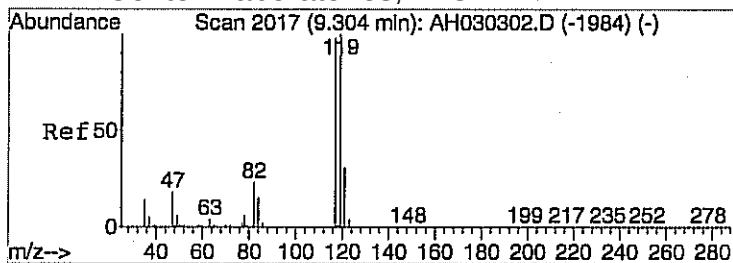
Ion Ratio Lower Upper

56 100

41 86.8 51.6 91.6

84 70.3 126.0 166.0#





#33

Carbon tetrachloride

Concen: 0.10 ppb

RT: 9.30 min Scan# 2015

Delta R.T. 0.00 min

Lab File: AH030332.D

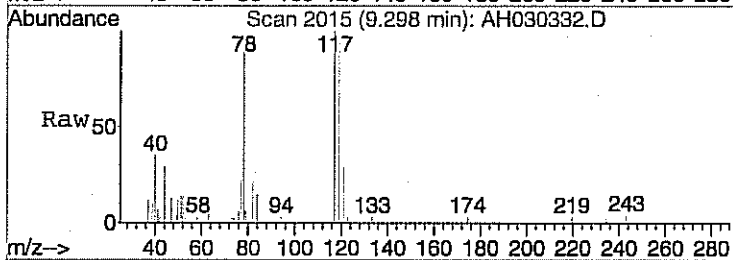
Acq: 4 Mar 2010 5:23

Tgt Ion: 117 Resp: 4943

Ion Ratio Lower Upper

117 100

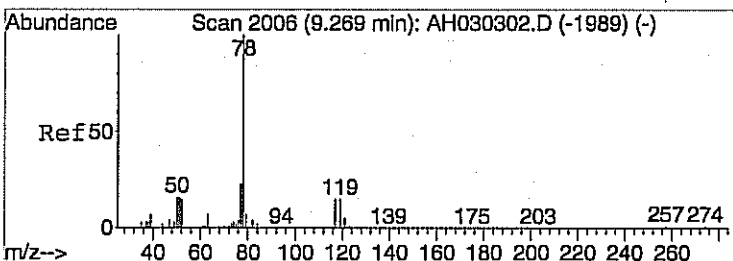
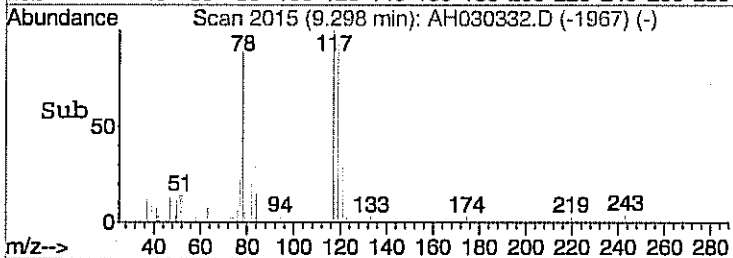
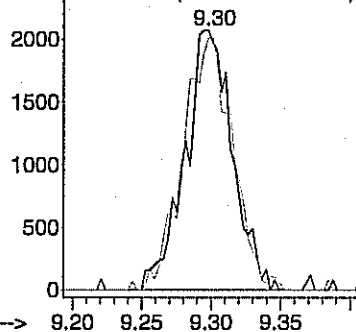
119 100.3 75.3 115.3



Abundance

Ion 117.00 (116.70 to 117.70):

Ion 119.00 (118.70 to 119.70):



#34

Benzene

Concen: 1.18 ppb

RT: 9.27 min Scan# 2005

Delta R.T. 0.01 min

Lab File: AH030332.D

Acq: 4 Mar 2010 5:23

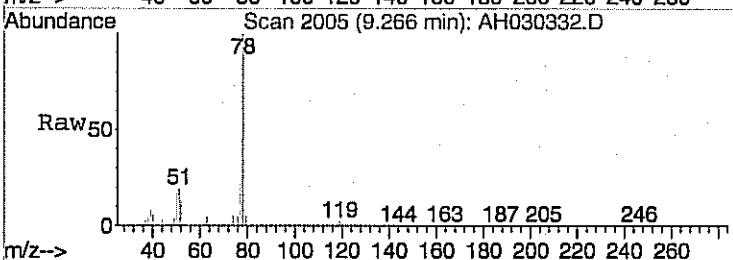
Tgt Ion: 78 Resp: 42120

Ion Ratio Lower Upper

78 100

77 24.0 2.7 42.7

51 17.6 1.1 41.1

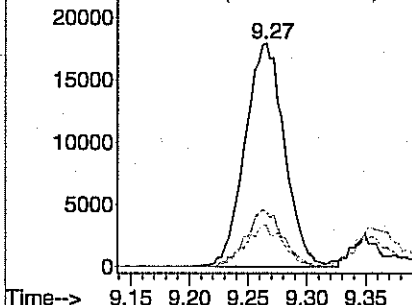
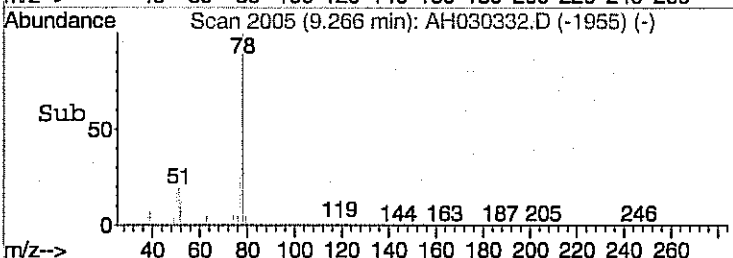


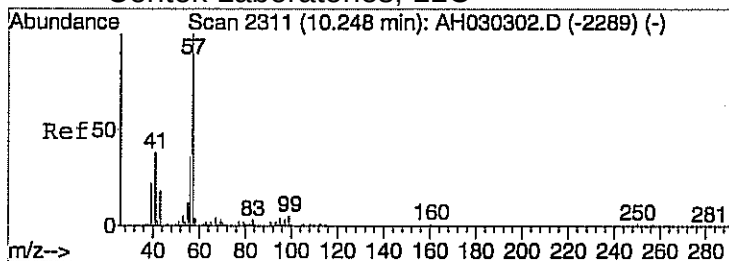
Abundance

Ion 78.00 (77.70 to 78.70): AH

Ion 77.00 (76.70 to 77.70): AH

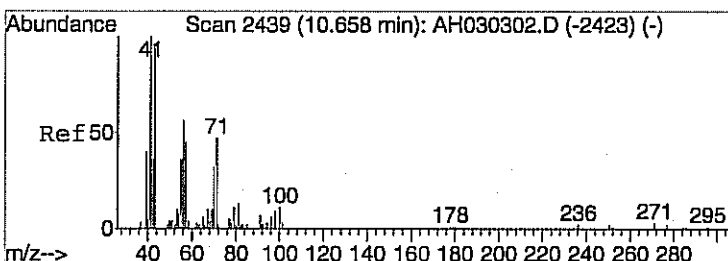
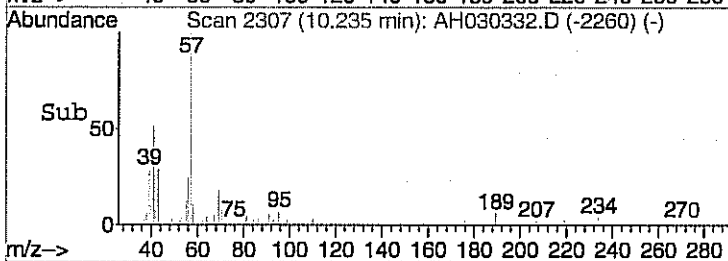
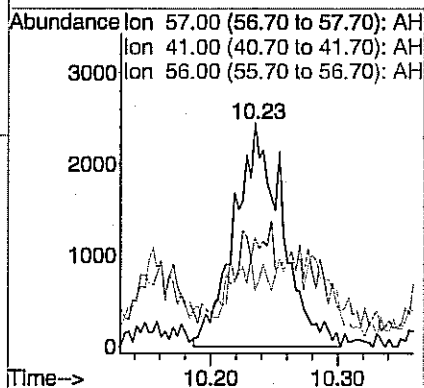
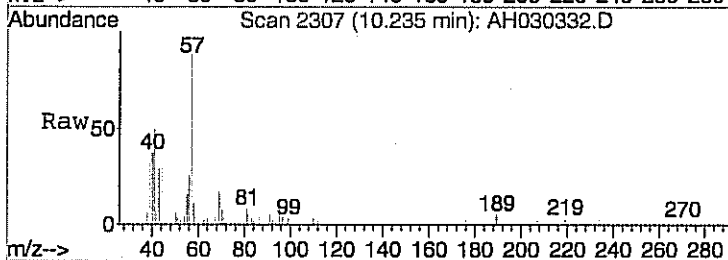
Ion 51.00 (50.70 to 51.70): AH





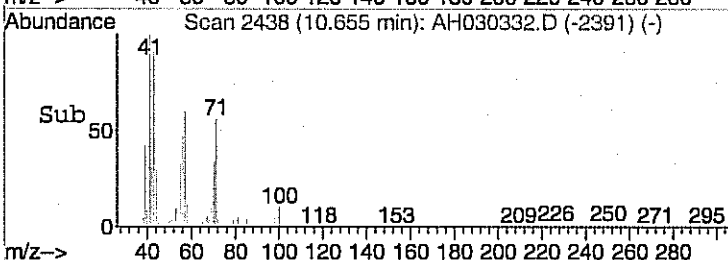
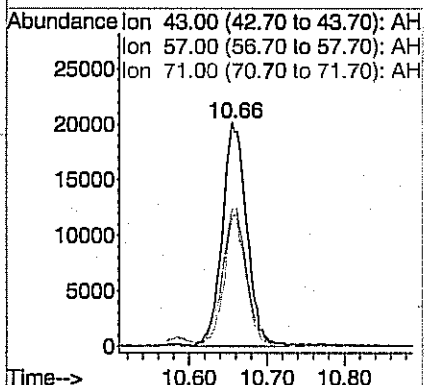
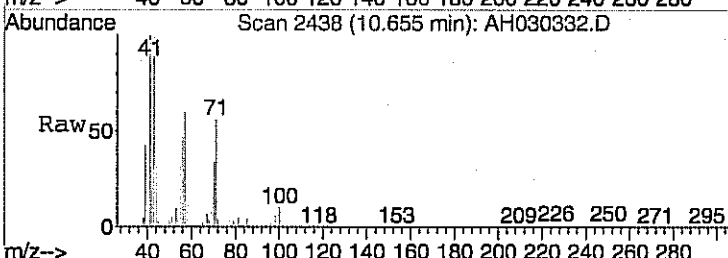
#36
2,2,4-trimethylpentane
Concen: 0.19 ppb
RT: 10.23 min Scan# 2307
Delta R.T. -0.00 min
Lab File: AH030332.D
Acq: 4 Mar 2010 5:23

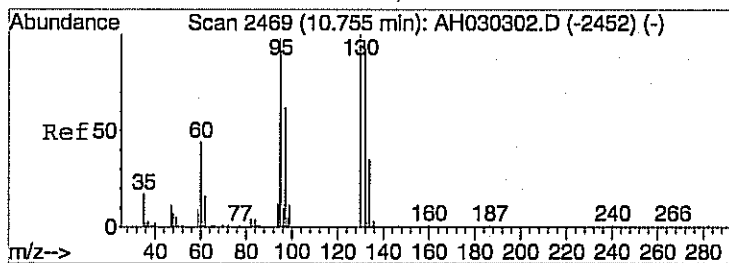
Tgt Ion: 57 Resp: 6424
Ion Ratio Lower Upper
57 100
41 103.8 18.7 58.7#
56 60.4 14.5 54.5#



#37
Heptane
Concen: 4.12 ppb
RT: 10.66 min Scan# 2438
Delta R.T. -0.00 min
Lab File: AH030332.D
Acq: 4 Mar 2010 5:23

Tgt Ion: 43 Resp: 44616
Ion Ratio Lower Upper
43 100
57 60.9 34.5 74.5
71 53.0 33.7 73.7





#38

Trichloroethene

Concen: 8.65 ppb

RT: 10.74 min Scan# 2466

Delta R.T. 0.00 min

Lab File: AH030332.D

Acq: 4 Mar 2010 5:23

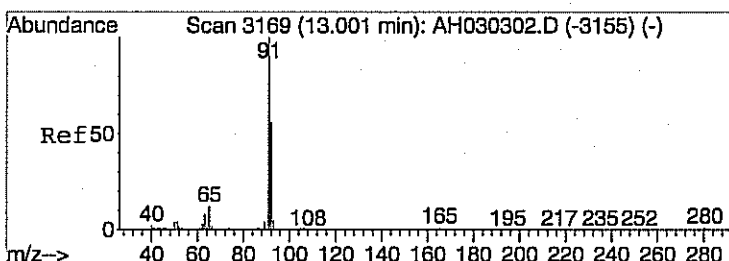
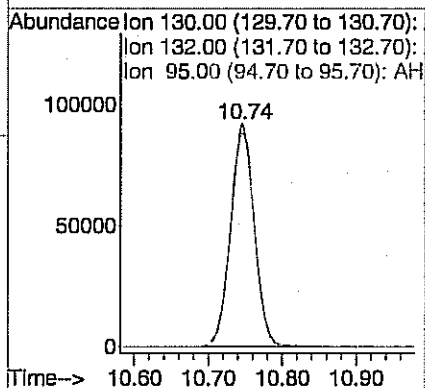
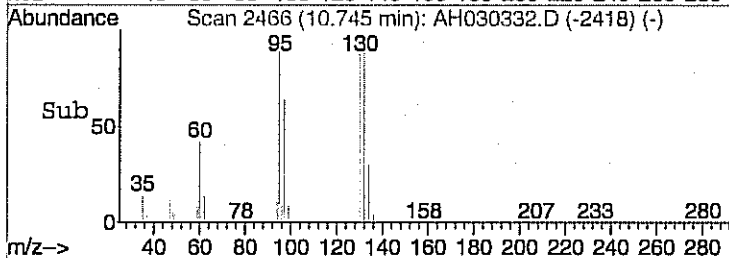
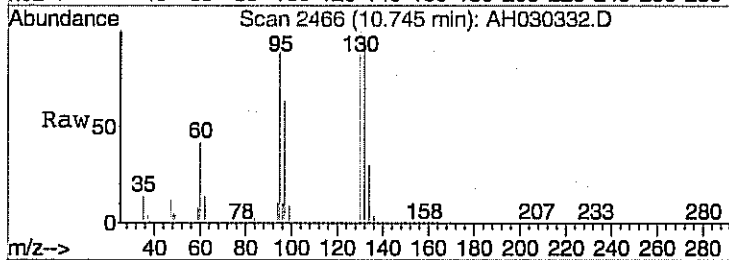
Tgt Ion: 130 Resp: 205845

Ion Ratio Lower Upper

130 100

132 97.8 78.1 118.1

95 98.1 76.7 116.7



#45

Toluene

Concen: 3.06 ppb

RT: 13.00 min Scan# 3168

Delta R.T. 0.01 min

Lab File: AH030332.D

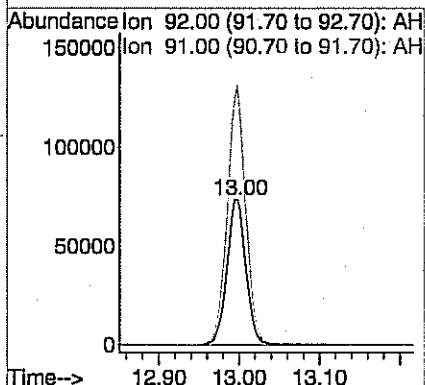
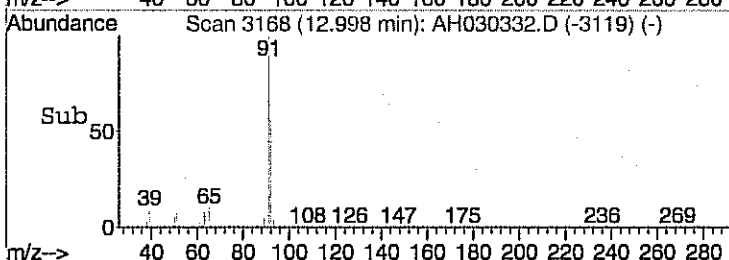
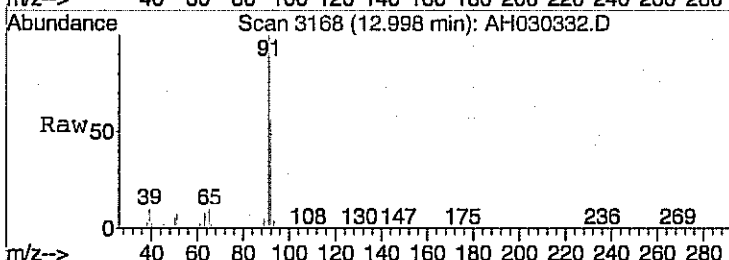
Acq: 4 Mar 2010 5:23

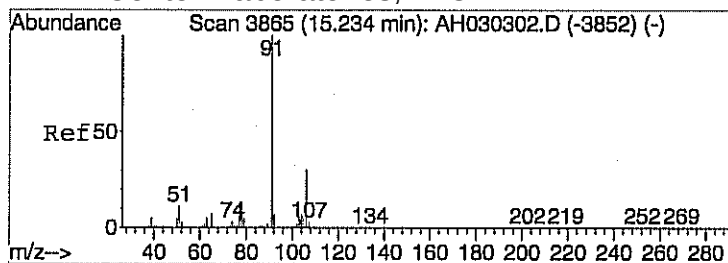
Tgt Ion: 92 Resp: 121151

Ion Ratio Lower Upper

92 100

91 173.0 152.9 192.9





#52

Ethylbenzene

Concen: 0.45 ppb

RT: 15.23 min Scan# 3863

Delta R.T. 0.00 min

Lab File: AH030332.D

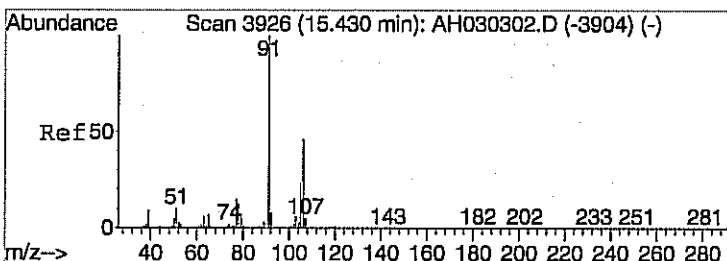
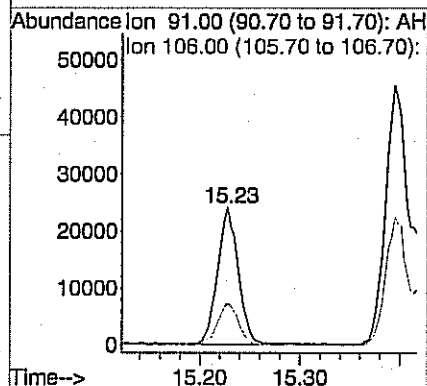
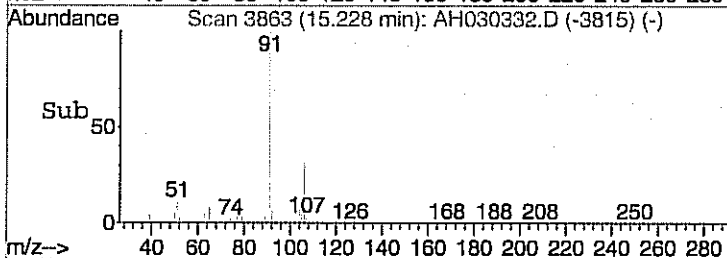
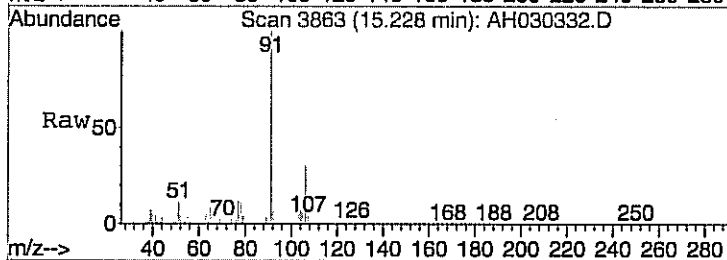
Acq: 4 Mar 2010 5:23

Tgt Ion: 91 Resp: 35338

Ion Ratio Lower Upper

91 100

106 30.4 10.9 50.9



#53

m&p-xylene

Concen: 1.40 ppb

RT: 15.39 min Scan# 3915

Delta R.T. -0.03 min

Lab File: AH030332.D

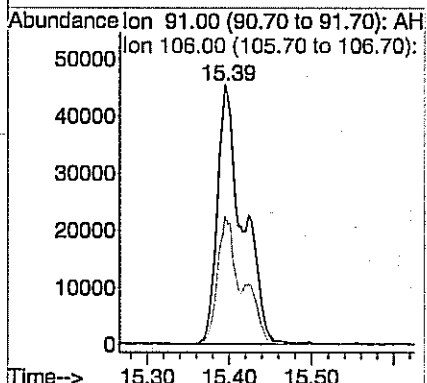
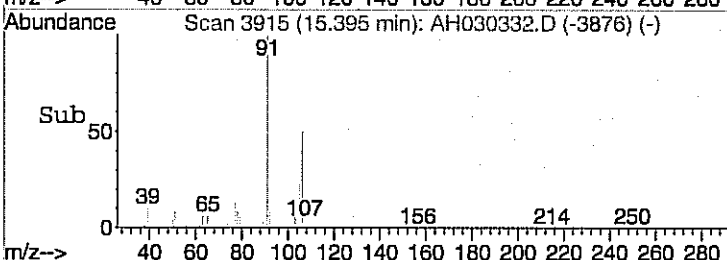
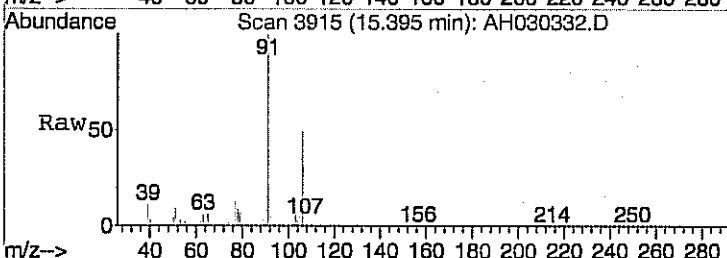
Acq: 4 Mar 2010 5:23

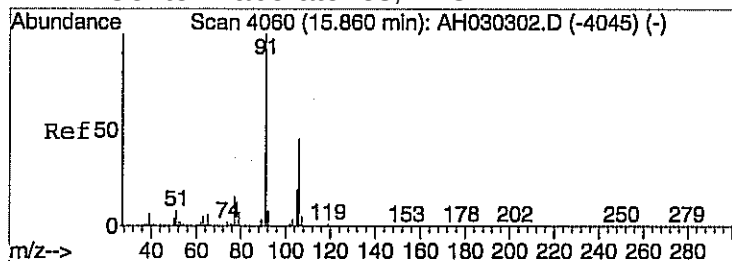
Tgt Ion: 91 Resp: 97913

Ion Ratio Lower Upper

91 100

106 48.7 28.0 68.0





#56

o-xylene

Concen: 0.45 ppb

RT: 15.85 min Scan# 4057

Delta R.T. 0.00 min

Lab File: AH030332.D

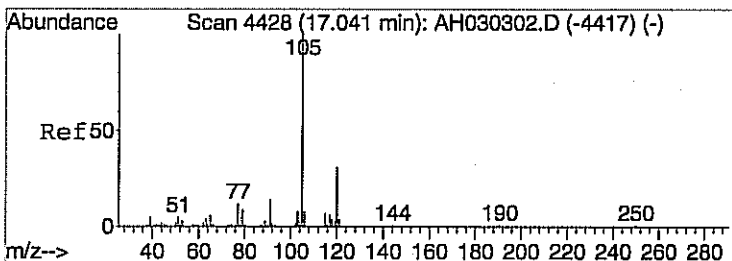
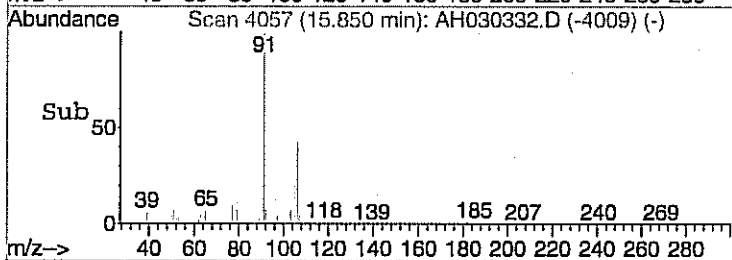
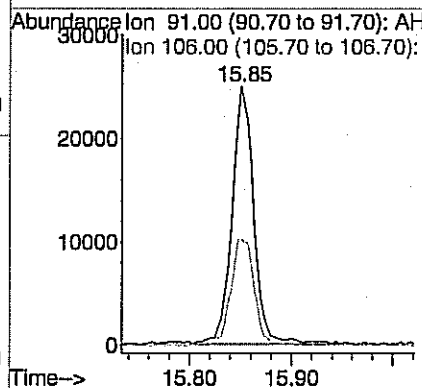
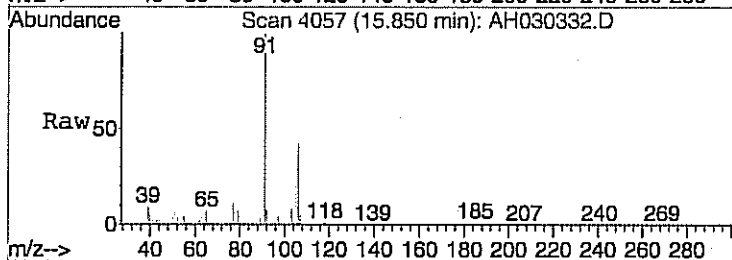
Acq: 4 Mar 2010 5:23

Tgt Ion: 91 Resp: 36808

Ion Ratio Lower Upper

91 100

106 44.4 27.3 67.3



#59

4-ethyltoluene

Concen: 0.21 ppb m

RT: 17.03 min Scan# 4426

Delta R.T. -0.00 min

Lab File: AH030332.D

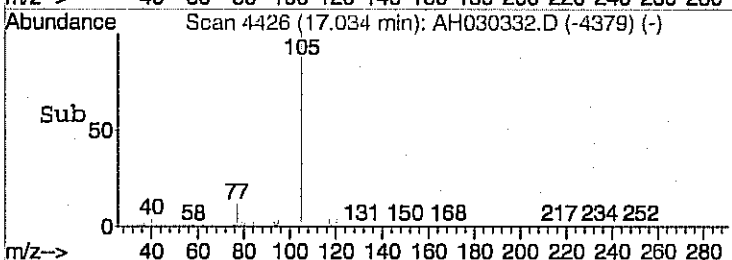
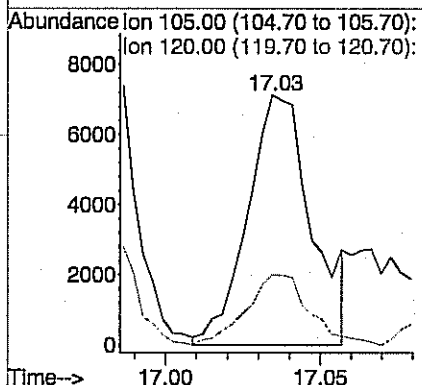
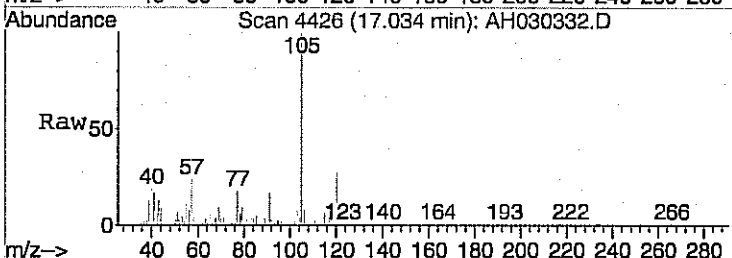
Acq: 4 Mar 2010 5:23

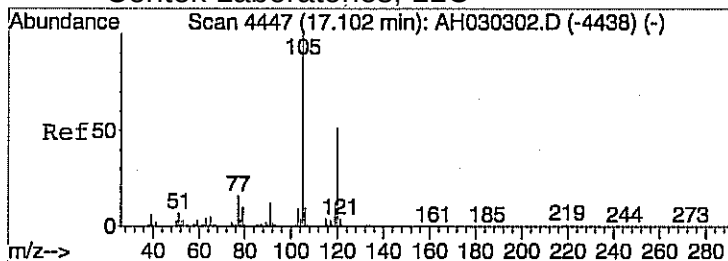
Tgt Ion: 105 Resp: 10211

Ion Ratio Lower Upper

105 100

120 43.5 9.4 49.4





#60

1,3,5-trimethylbenzene

Concen: 0.15 ppb m

RT: 17.10 min Scan# 4445

Delta R.T. -0.00 min

Lab File: AH030332.D

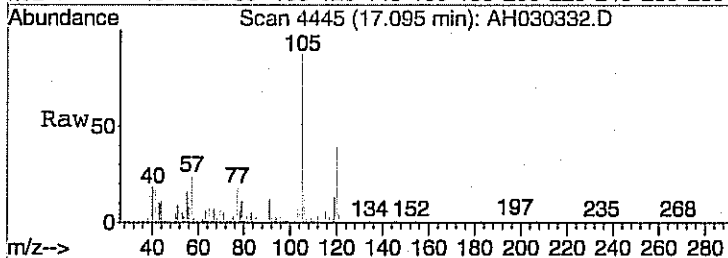
Acq: 4 Mar 2010 5:23

Tgt Ion:105 Resp: 10964

Ion Ratio Lower Upper

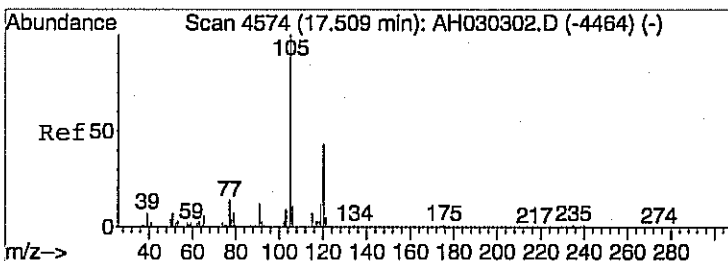
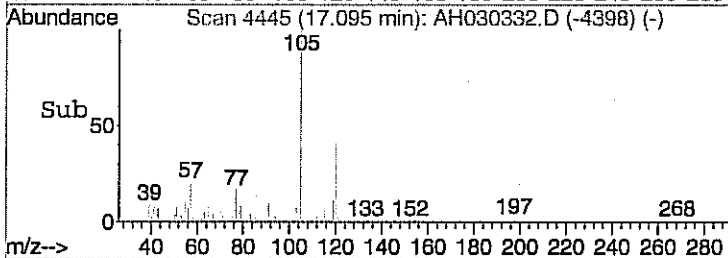
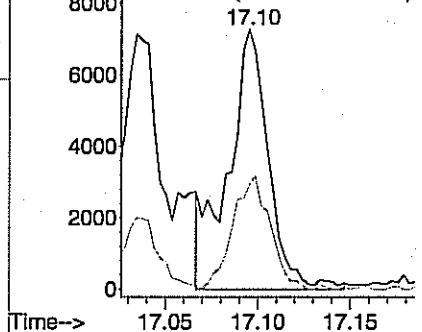
105 100

120 57.1 27.8 67.8



Abundance Ion 105.00 (104.70 to 105.70):

Ion 120.00 (119.70 to 120.70):



#61

1,2,4-trimethylbenzene

Concen: 0.50 ppb

RT: 17.50 min Scan# 4572

Delta R.T. -0.00 min

Lab File: AH030332.D

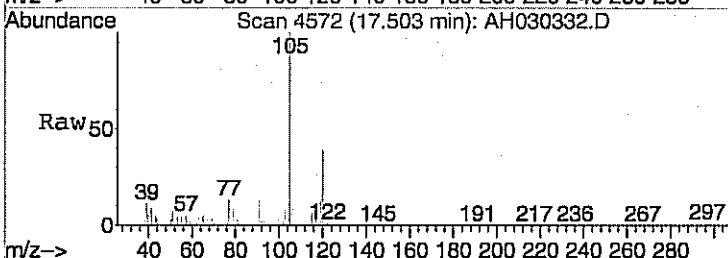
Acq: 4 Mar 2010 5:23

Tgt Ion:105 Resp: 30256

Ion Ratio Lower Upper

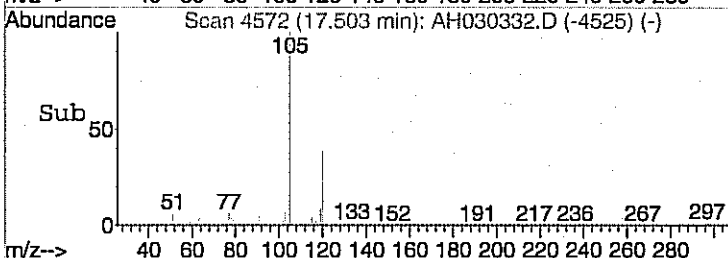
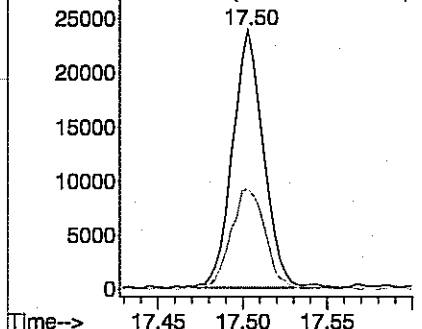
105 100

120 43.6 25.2 65.2



Abundance Ion 105.00 (104.70 to 105.70):

Ion 120.00 (119.70 to 120.70):



Data File : C:\HPCHEM\1\DATA\AH030419.D
Acq On : 4 Mar 2010 23:41
Sample : C1003003-005A 5X
Misc : C1003003-005A
MS Integration Params: RTEINT.P
Quant Time: Mar 05 00:03:33 2010

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Feb 10 08:53:54 2010
Response via : Initial Calibration
DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11426	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	23616	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	24983	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	8859	0.73	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	4.32	58	6103	1.46	ppb	# 57
18) Carbon disulfide	5.30	76	31337	0.63	ppb	# 99
25) Hexane	6.93	41	5290	0.40	ppb	# 74
32) Cyclohexane	9.36	56	5582	0.61	ppb	# 68
37) Heptane	10.66	43	2965	0.35	ppb	# 93
38) Trichloroethene	10.74	130	25856	1.39	ppb	# 94
45) Toluene	12.99	92	9891m	0.46	ppb	

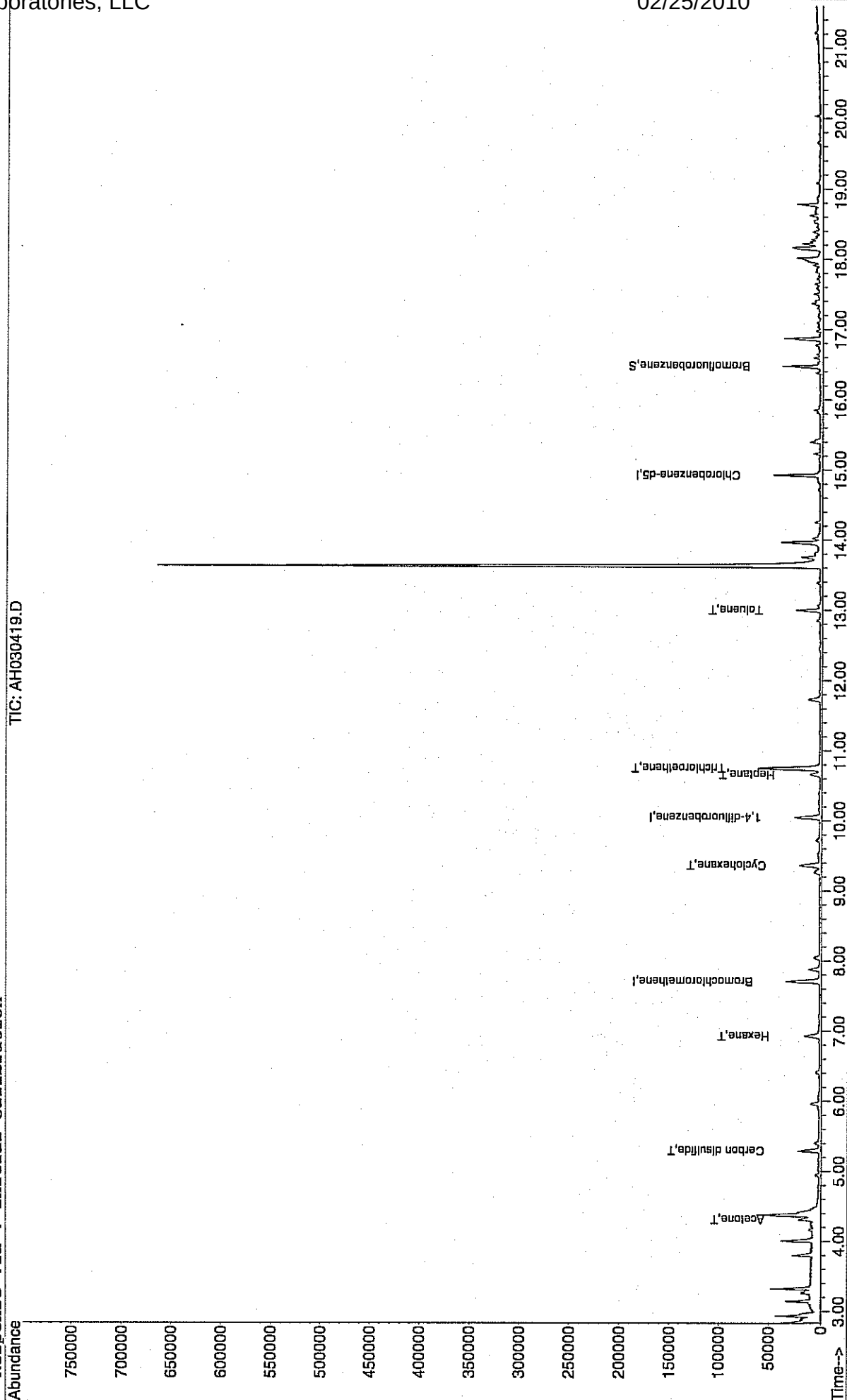
Data File : C:\HPCHEM\1\DATA\AH030419.D
Acq On : 4 Mar 2010 23:41
Sample : C1003003-005A 5X
Misc : C1003003-005A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 20:06 2010

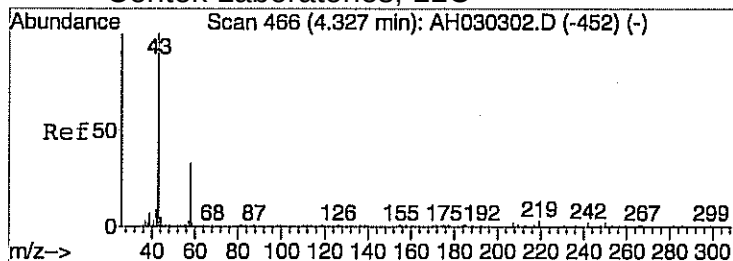
Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_LUG.RES

Method : C:\HPCHEM\1\METHODS\A209_LUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

TIC: AH030419.D





#12

Acetone

Concen: 1.46 ppb

RT: 4.32 min Scan# 463

Delta R.T. 0.01 min

Lab File: AH030419.D

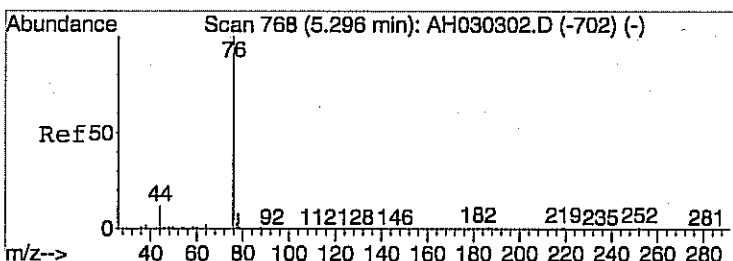
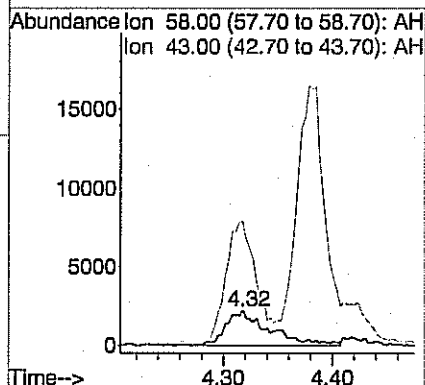
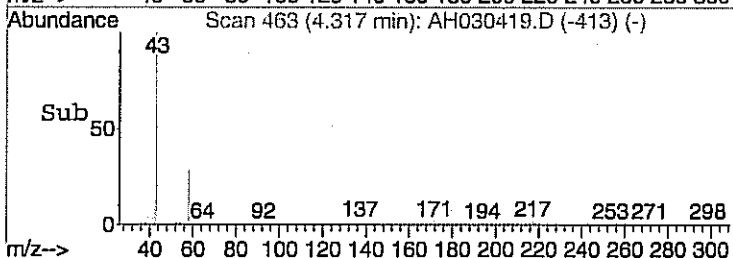
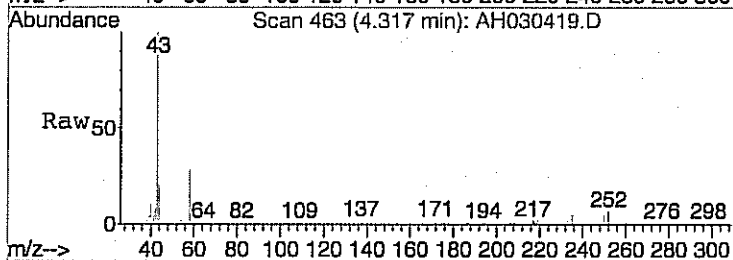
Acq: 4 Mar 2010 23:41

Tgt Ion: 58 Resp: 6103

Ion Ratio Lower Upper

58 100

43 257.1 320.6 380.6#



#18

Carbon disulfide

Concen: 0.63 ppb

RT: 5.30 min Scan# 768

Delta R.T. 0.01 min

Lab File: AH030419.D

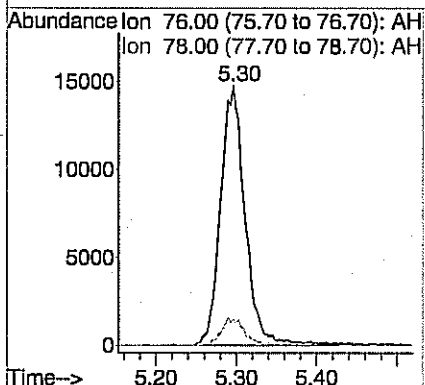
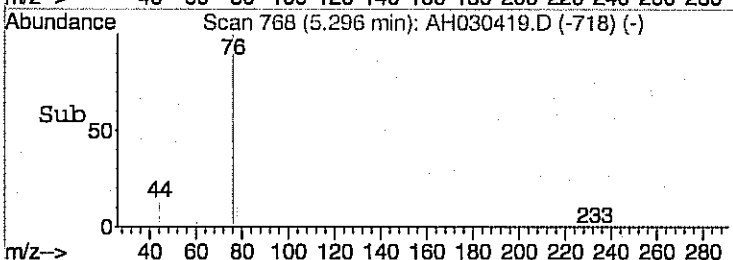
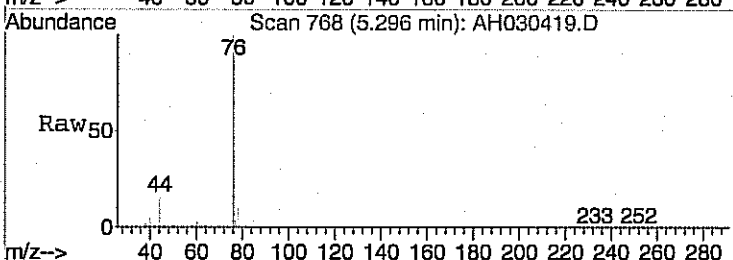
Acq: 4 Mar 2010 23:41

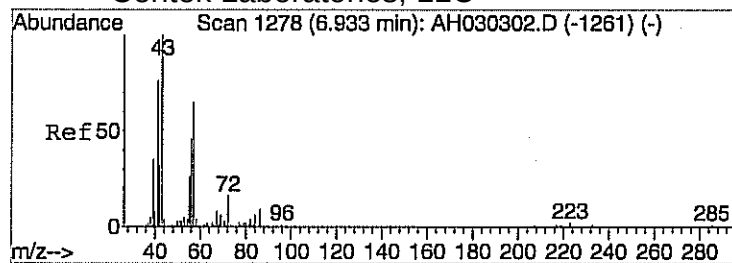
Tgt Ion: 76 Resp: 31337

Ion Ratio Lower Upper

76 100

78 9.7 0.0 30.0





#25

Hexane

Concen: 0.40 ppb

RT: 6.93 min Scan# 1278

Delta R.T. 0.01 min

Lab File: AH030419.D

Acq: 4 Mar 2010 23:41

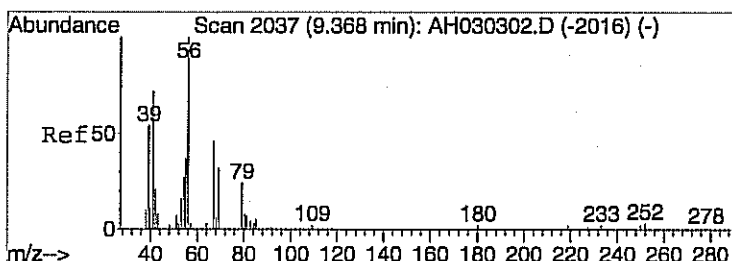
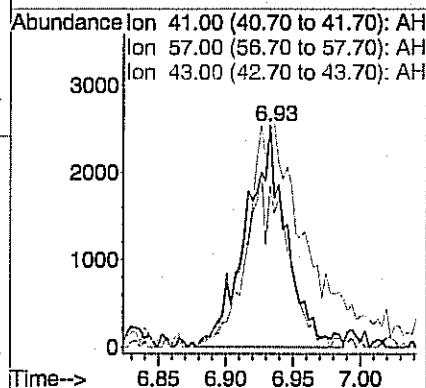
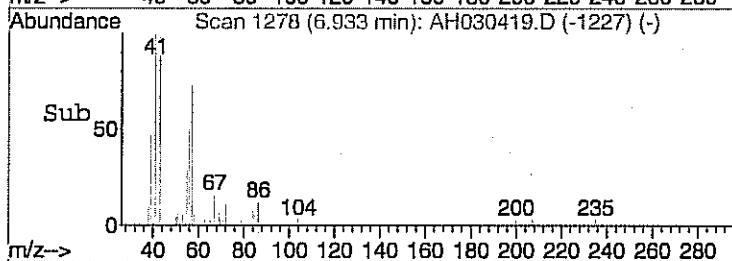
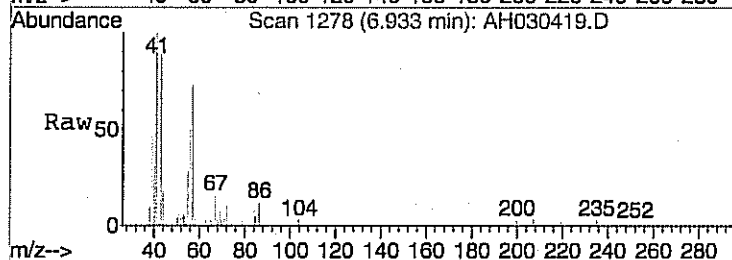
Tgt Ion: 41 Resp: 5290

Ion Ratio Lower Upper

41 100

57 87.3 87.3 127.3#

43 157.3 181.3 221.3#



#32

Cyclohexane

Concen: 0.61 ppb

RT: 9.36 min Scan# 2033

Delta R.T. -0.00 min

Lab File: AH030419.D

Acq: 4 Mar 2010 23:41

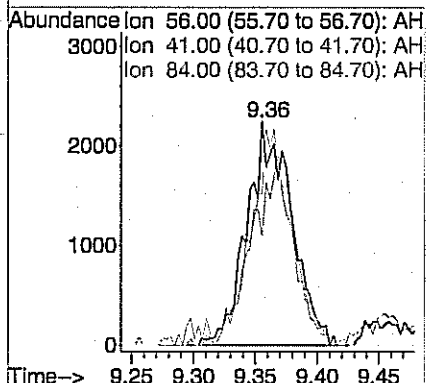
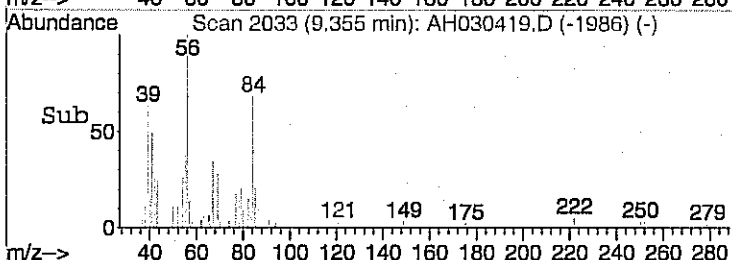
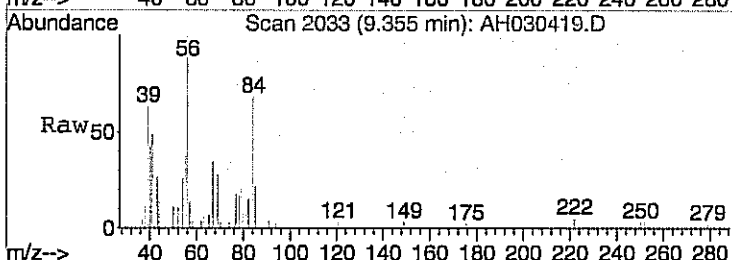
Tgt Ion: 56 Resp: 5582

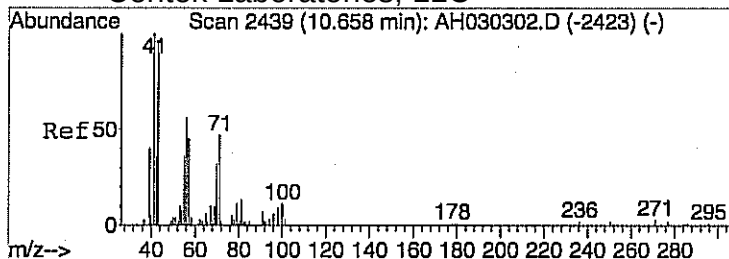
Ion Ratio Lower Upper

56 100

41 78.8 51.6 91.6

84 91.3 126.0 166.0#





#37

Heptane

Concen: 0.35 ppb

RT: 10.66 min Scan# 2440

Delta R.T. 0.01 min

Lab File: AH030419.D

Acq: 4 Mar 2010 23:41

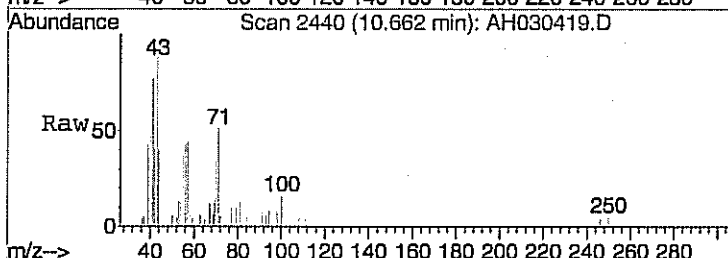
Tgt Ion: 43 Resp: 2965

Ion Ratio Lower Upper

43 100

57 63.6 34.5 74.5

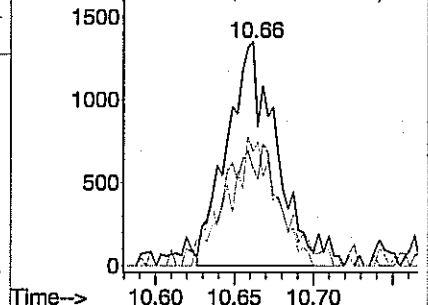
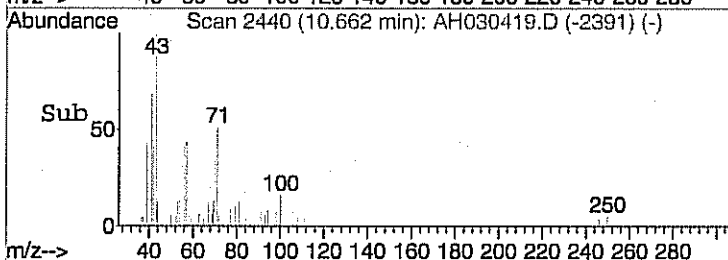
71 54.7 33.7 73.7



Abundance Ion 43.00 (42.70 to 43.70): AH

Ion 57.00 (56.70 to 57.70): AH

Ion 71.00 (70.70 to 71.70): AH



#38

Trichloroethene

Concen: 1.39 ppb

RT: 10.74 min Scan# 2466

Delta R.T. 0.00 min

Lab File: AH030419.D

Acq: 4 Mar 2010 23:41

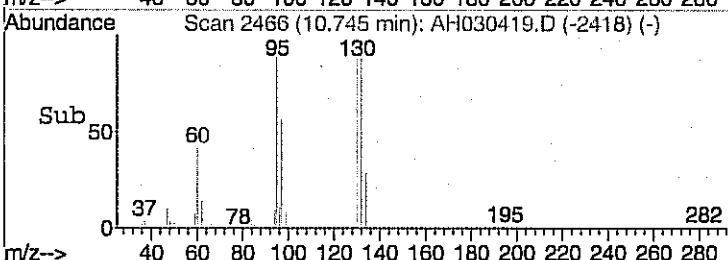
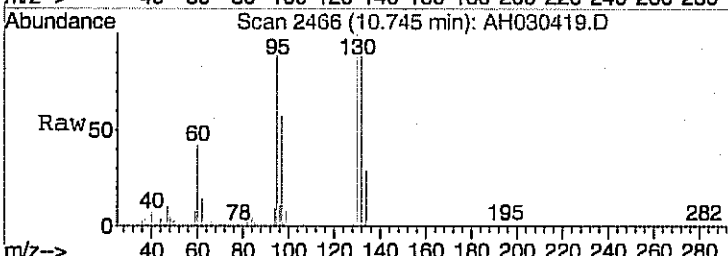
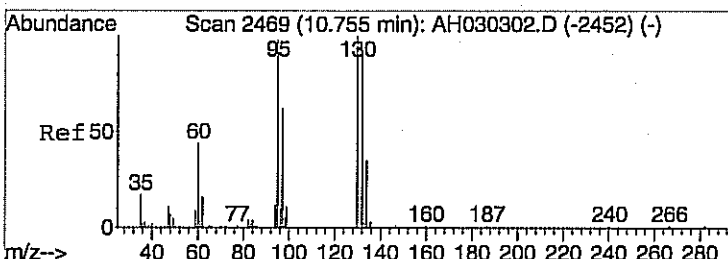
Tgt Ion: 130 Resp: 25856

Ion Ratio Lower Upper

130 100

132 94.1 78.1 118.1

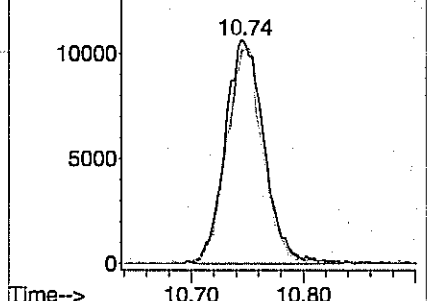
95 89.6 76.7 116.7

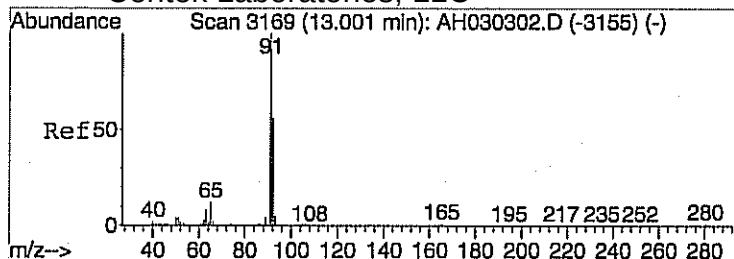


Abundance Ion 130.00 (129.70 to 130.70): AH

Ion 132.00 (131.70 to 132.70): AH

Ion 95.00 (94.70 to 95.70): AH





#45

Toluene

Concen: 0.46 ppb m

RT: 12.99 min Scan# 3167

Delta R.T. 0.00 min

Lab File: AH030419.D

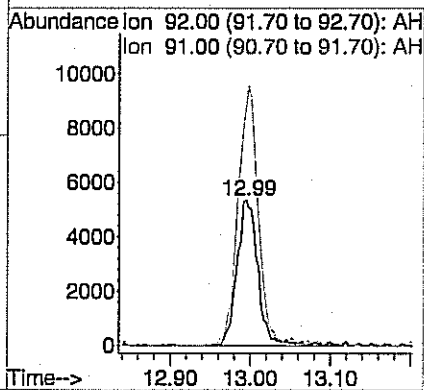
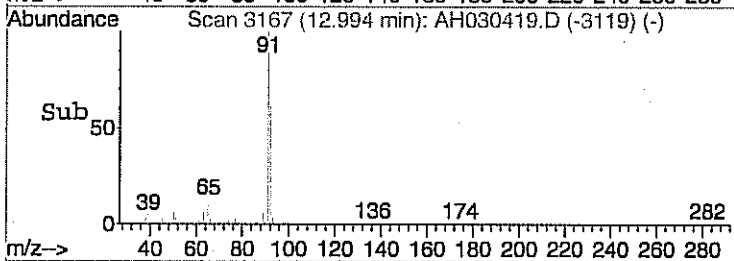
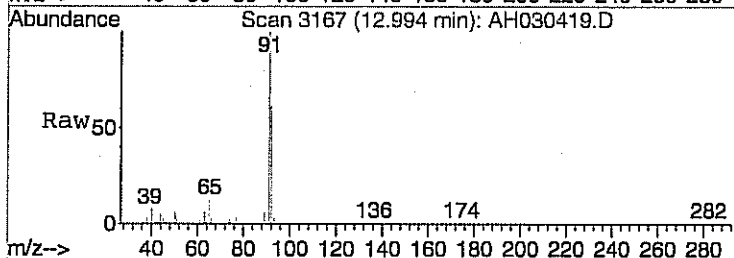
Acq: 4 Mar 2010 23:41

Tgt Ion: 92 Resp: 9891

Ion Ratio Lower Upper

92 100

91 0.0 152.9 192.9#





Centek Laboratories

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
 Tag Number: 621,630
 Collection Date: 2/25/2010
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab's Vacuum Reading	-1		FLD	"Hg		Analyst: 3/1/2010
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/3/2010
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/3/2010
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/3/2010
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/3/2010
Acetone	4.0	1.5		ppbV	5	3/4/2010
Allyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Benzene	0.20	0.15		ppbV	1	3/3/2010
Benzyl chloride	< 0.15	0.15		ppbV	1	3/3/2010
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Bromoform	< 0.15	0.15		ppbV	1	3/3/2010
Bromomethane	< 0.15	0.15		ppbV	1	3/3/2010
Carbon disulfide	< 0.15	0.15		ppbV	1	3/3/2010
Carbon tetrachloride	< 0.040	0.040		ppbV	1	3/3/2010
Chlorobenzene	< 0.15	0.15		ppbV	1	3/3/2010
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2010
Chloroform	< 0.15	0.15		ppbV	1	3/3/2010
Chloromethane	0.33	0.15		ppbV	1	3/3/2010
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Cyclohexane	< 0.15	0.15		ppbV	1	3/3/2010
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/3/2010
Ethyl acetate	0.86	0.25		ppbV	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
 Tag Number: 621,630
 Collection Date: 2/25/2010
 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	3/3/2010
Freon 11	0.24	0.15		ppbV	1	3/3/2010
Freon 113	< 0.15	0.15		ppbV	1	3/3/2010
Freon 114	< 0.15	0.15		ppbV	1	3/3/2010
Freon 12	0.47	0.15		ppbV	1	3/3/2010
Heptane	< 0.15	0.15		ppbV	1	3/3/2010
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/3/2010
Hexane	< 0.15	0.15		ppbV	1	3/3/2010
Isopropyl alcohol	3.2	0.75		ppbV	5	3/4/2010
m&p-Xylene	0.10	0.30	J	ppbV	1	3/3/2010
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl Ethyl Ketone	0.20	0.30	J	ppbV	1	3/3/2010
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/3/2010
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/3/2010
Methylene chloride	0.15	0.15		ppbV	1	3/3/2010
o-Xylene	< 0.15	0.15		ppbV	1	3/3/2010
Propylene	< 0.15	0.15		ppbV	1	3/3/2010
Styrene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/3/2010
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/3/2010
Toluene	0.36	0.15		ppbV	1	3/3/2010
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2010
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/3/2010
Trichloroethene	3.7	0.20		ppbV	5	3/4/2010
Vinyl acetate	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/3/2010
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2010
Surr: Bromofluorobenzene	80.0	70-130		%REC	1	3/3/2010

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

Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
 Lab Order: C1003003
 Project: LEICA
 Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
 Tag Number: 621,630
 Collection Date: 2/25/2010
 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	< 0.83	0.83		ug/m3	1	3/3/2010
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/3/2010
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/3/2010
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/3/2010
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/3/2010
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/3/2010
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/3/2010
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/3/2010
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/3/2010
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/3/2010
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/3/2010
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/3/2010
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/3/2010
Acetone	9.7	3.6		ug/m3	5	3/4/2010
Allyl chloride	< 0.48	0.48		ug/m3	1	3/3/2010
Benzene	0.65	0.49		ug/m3	1	3/3/2010
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/3/2010
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/3/2010
Bromoform	< 1.6	1.6		ug/m3	1	3/3/2010
Bromomethane	< 0.59	0.59		ug/m3	1	3/3/2010
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/3/2010
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	3/3/2010
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/3/2010
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2010
Chloroform	< 0.74	0.74		ug/m3	1	3/3/2010
Chloromethane	0.69	0.31		ug/m3	1	3/3/2010
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Cyclohexane	< 0.52	0.52		ug/m3	1	3/3/2010
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/3/2010
Ethyl acetate	3.2	0.92		ug/m3	1	3/3/2010
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/3/2010
Freon 11	1.4	0.86		ug/m3	1	3/3/2010

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



Analytical Report

Date: 22-Apr-10

CLIENT: EnviroGroup Limited
Lab Order: C1003003
Project: LEICA
Lab ID: C1003003-006A

Client Sample ID: 130-PRE-IA
Tag Number: 621,630
Collection Date: 2/25/2010
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 113	< 1.2	1.2		ug/m3	1	3/3/2010
Freon 114	< 1.1	1.1		ug/m3	1	3/3/2010
Freon 12	2.4	0.75		ug/m3	1	3/3/2010
Heptane	< 0.62	0.62		ug/m3	1	3/3/2010
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/3/2010
Hexane	< 0.54	0.54		ug/m3	1	3/3/2010
Isopropyl alcohol	7.9	1.9		ug/m3	5	3/4/2010
m&p-Xylene	0.44	1.3	J	ug/m3	1	3/3/2010
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl Ethyl Ketone	0.60	0.90	J	ug/m3	1	3/3/2010
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/3/2010
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/3/2010
Methylene chloride	0.53	0.53		ug/m3	1	3/3/2010
o-Xylene	< 0.66	0.66		ug/m3	1	3/3/2010
Propylene	< 0.26	0.26		ug/m3	1	3/3/2010
Styrene	< 0.65	0.65		ug/m3	1	3/3/2010
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/3/2010
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/3/2010
Toluene	1.4	0.57		ug/m3	1	3/3/2010
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/3/2010
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/3/2010
Trichloroethene	20	1.1		ug/m3	5	3/4/2010
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/3/2010
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/3/2010
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2010

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\AH030333.D

Vial: 6

Acq On : 4 Mar 2010 5:56

Operator: RJP

Sample : C1003003-006A

Inst : MSD #1

Misc : C1003003-006A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 06:18:00 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12389	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	25451	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	24819	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	9630	0.80	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	80.00%

Target Compounds

						Qvalue
3) Freon 12	2.97	85	35569	0.47	ppb	99
4) Chloromethane	3.11	50	5220m	0.33	ppb	
11) Freon 11	4.16	101	13139	0.24	ppb	99
12) Acetone	4.30	58	23184	5.12	ppb	# 61
13) Isopropyl alcohol	4.41	45	71967	5.40	ppb	# 1
16) Methylene chloride	5.17	84	2577	0.15	ppb	98
23) Methyl Ethyl Ketone	6.91	43	5696	0.20	ppb	# 64
26) Ethyl acetate	7.49	43	17193	0.86	ppb	100
33) Carbon tetrachloride	9.30	117	4213	0.10	ppb	89
34) Benzene	9.27	78	6186	0.20	ppb	95
38) Trichloroethene	10.75	130	125935	6.26	ppb	99
45) Toluene	13.00	92	7832	0.36	ppb	94
53) m&p-xylene	15.39	91	3914	0.10	ppb	99

Data File : C:\HPCHEM\1\DATA\AH030333.D
Acq On : 4 Mar 2010 5:56
Sample : C1003003-006A
Misc : C1003003-006A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:35 2010

Vial: 6

Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

TIC: AH030333.D

Abundance

3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0

Chloromethane,T
Freon 12,T
Freon 11,T
Isopropyl alcohol,T
Methylene chloride,T

Methyl Ethyl Ketone,T

Ethyl acetate,T
Bromochloromethane,I

Carbon tetrachloride,T

1,4-difluorobenzene,I

Trichloroethene,T

Toluene,T

Chlorobenzene-d5,I
m,p-xylene,T

Bromofluorobenzene,S

Time-->

21.00

20.00

19.00

18.00

17.00

16.00

15.00

14.00

13.00

12.00

11.00

10.00

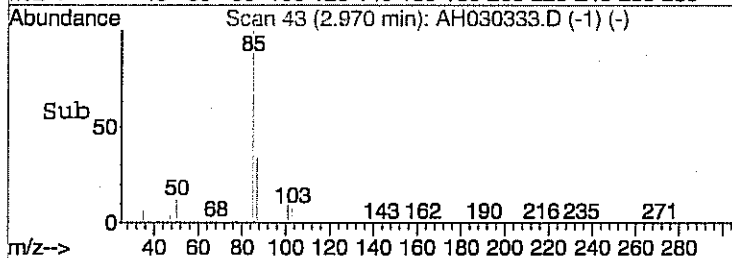
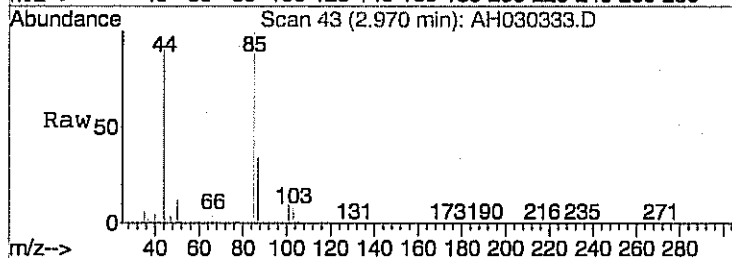
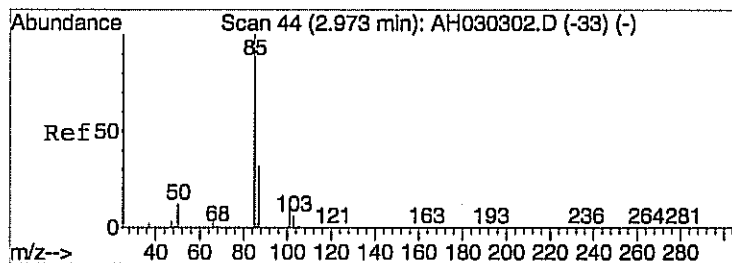
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8.00

7.00

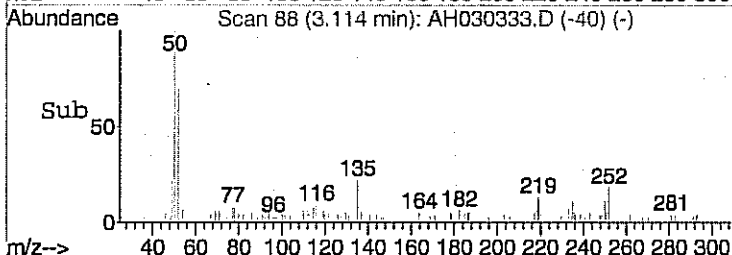
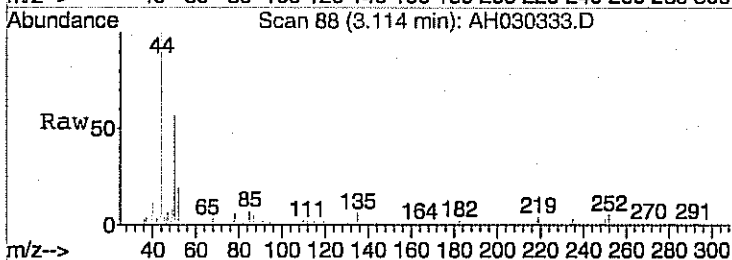
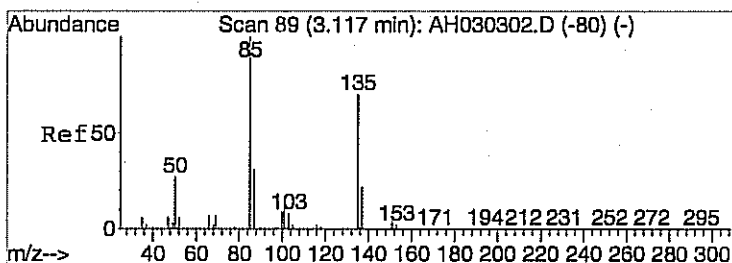
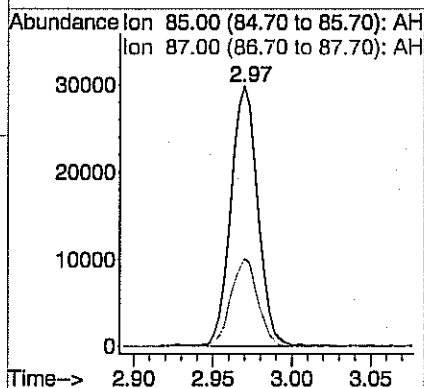
6.00

5.00



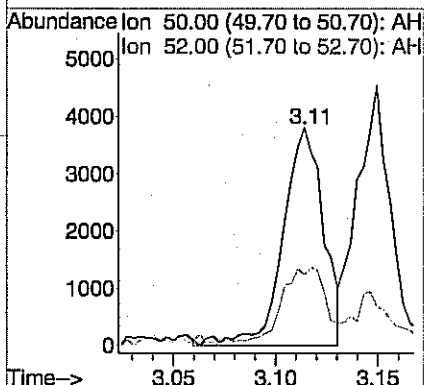
#3
Freon 12
Concen: 0.47 ppb
RT: 2.97 min Scan# 43
Delta R.T. -0.00 min
Lab File: AH030333.D
Acq: 4 Mar 2010 5:56

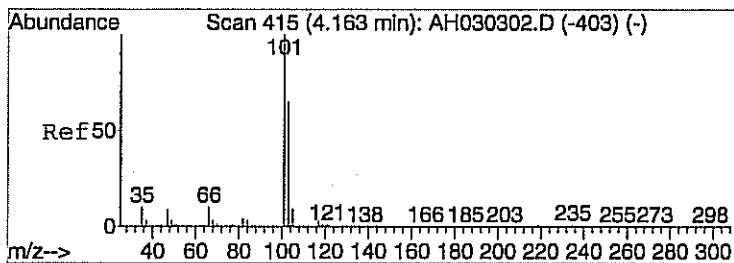
Tgt Ion	85	Resp	35569
Ion Ratio	Lower	Upper	
85	100		
87	33.6	13.2	53.2



#4
Chloromethane
Concen: 0.33 ppb m
RT: 3.11 min Scan# 88
Delta R.T. 0.00 min
Lab File: AH030333.D
Acq: 4 Mar 2010 5:56

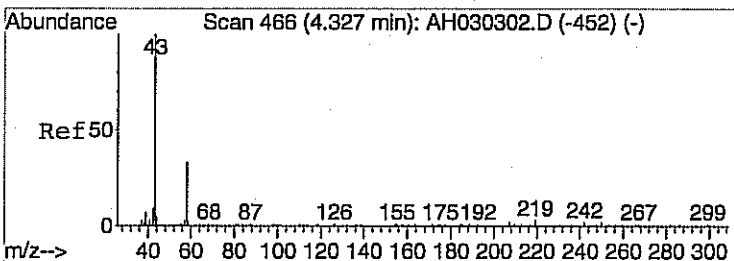
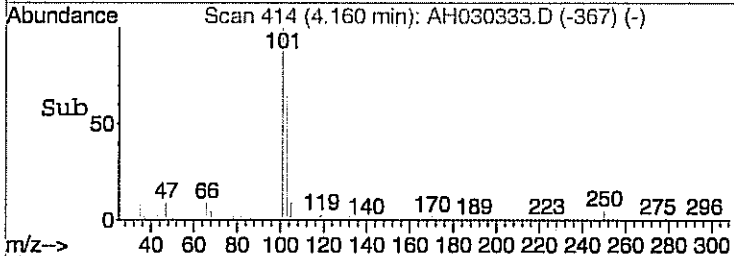
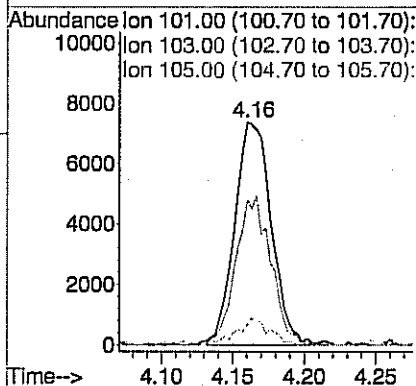
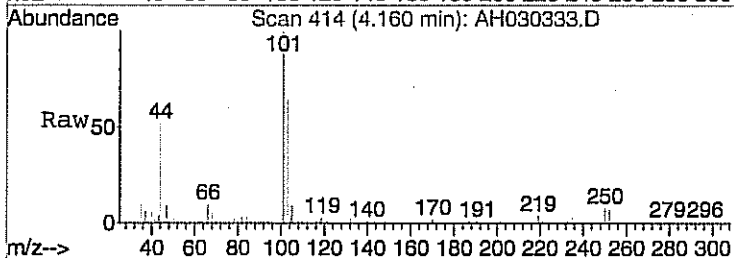
Tgt Ion	50	Resp	5220
Ion Ratio	Lower	Upper	
50	100		
52	22.2	4.0	44.0





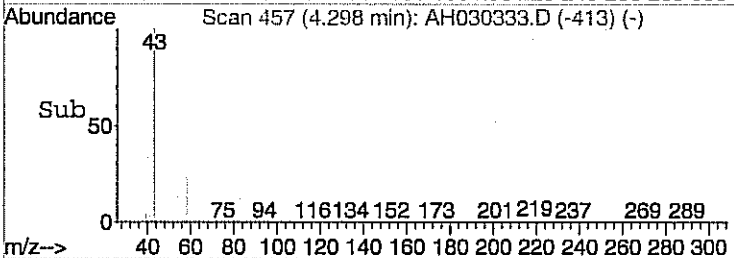
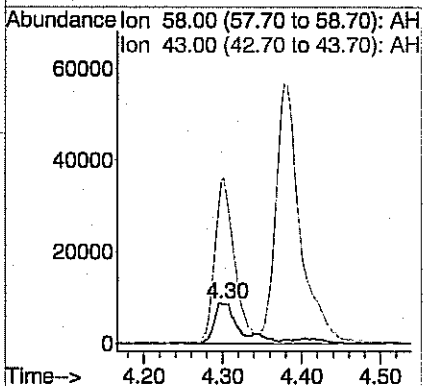
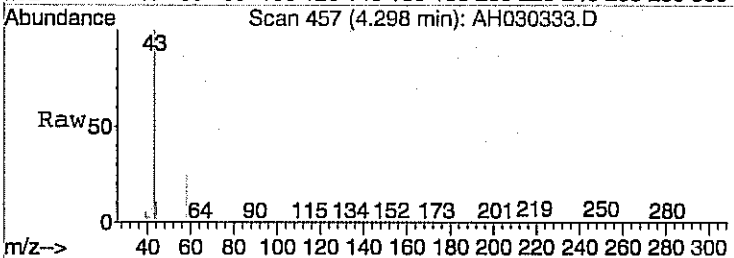
#11
Freon 11
Concen: 0.24 ppb
RT: 4.16 min Scan# 414
Delta R.T. -0.00 min
Lab File: AH030333.D
Acq: 4 Mar 2010 5:56

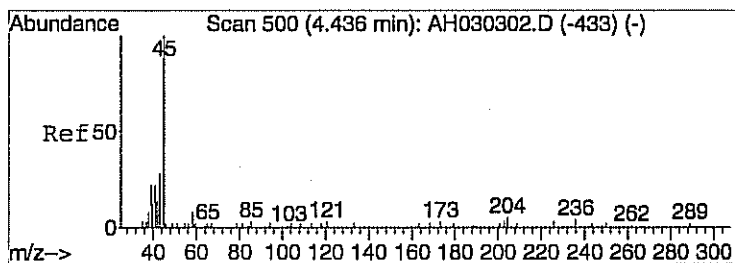
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.2	43.9	83.9
105	10.6	0.0	30.7



#12
Acetone
Concen: 5.12 ppb
RT: 4.30 min Scan# 457
Delta R.T. -0.01 min
Lab File: AH030333.D
Acq: 4 Mar 2010 5:56

Tgt Ion	Ratio	Lower	Upper
58	100		
43	265.4	320.6	380.6#





#13

Isopropyl alcohol

Concen: 5.40 ppb

RT: 4.41 min Scan# 492

Delta R.T. 0.01 min

Lab File: AH030333.D

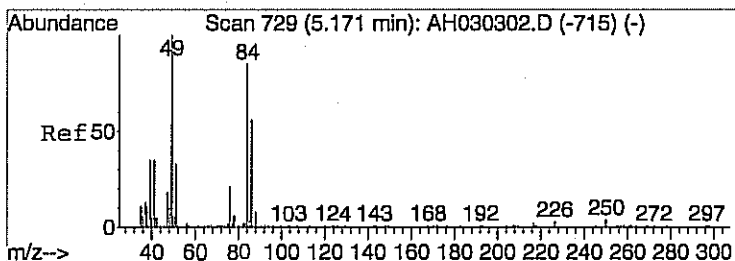
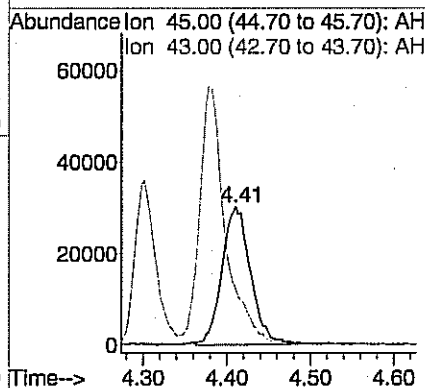
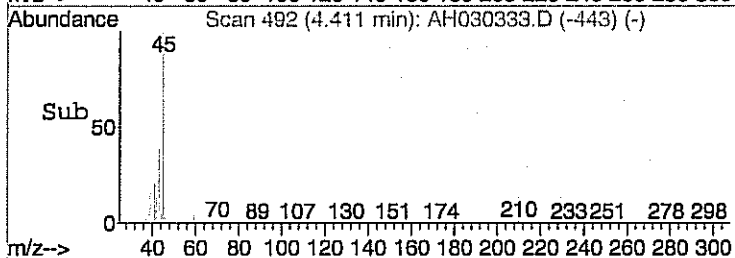
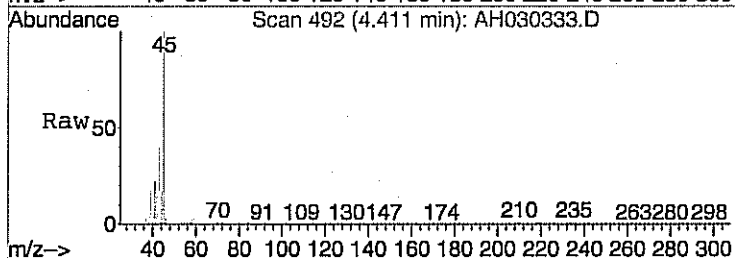
Acq: 4 Mar 2010 5:56

Tgt Ion: 45 Resp: 71967

Ion Ratio Lower Upper

45 100

43 171.4 14.6 54.6#



#16

Methylene chloride

Concen: 0.15 ppb

RT: 5.17 min Scan# 728

Delta R.T. 0.01 min

Lab File: AH030333.D

Acq: 4 Mar 2010 5:56

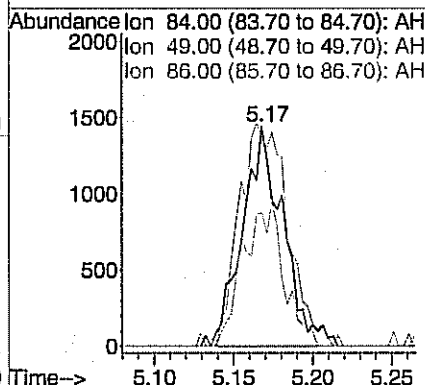
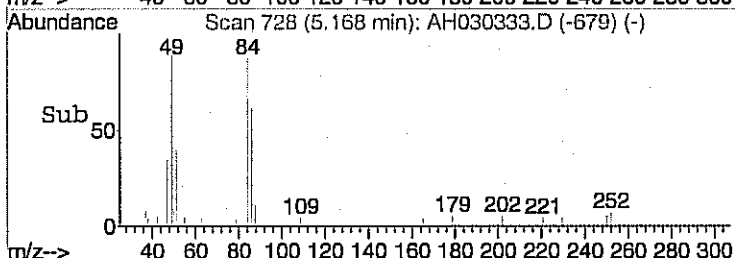
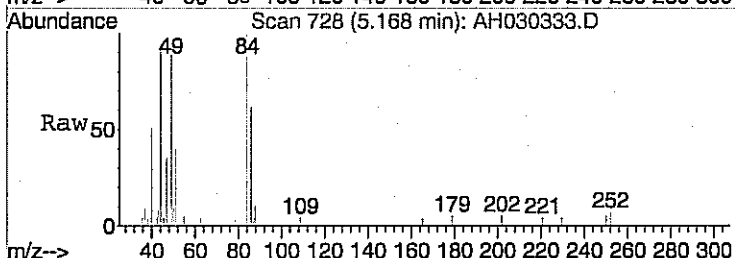
Tgt Ion: 84 Resp: 2577

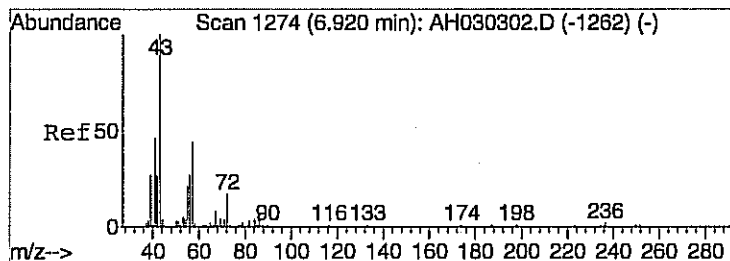
Ion Ratio Lower Upper

84 100

49 120.8 104.5 144.5

86 64.9 45.5 85.5





#23

Methyl Ethyl Ketone

Concen: 0.20 ppb

RT: 6.91 min Scan# 1271

Delta R.T. 0.00 min

Lab File: AH030333.D

Acq: 4 Mar 2010 5:56

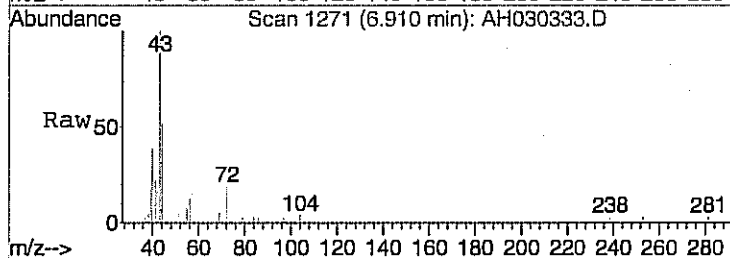
Tgt Ion: 43 Resp: 5696

Ion Ratio Lower Upper

43 100

57 21.8 33.7 73.7#

72 20.9 0.0 36.8

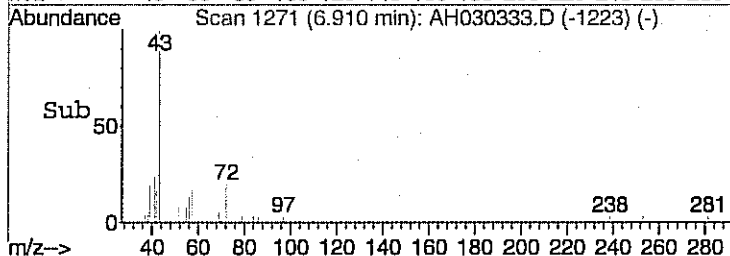
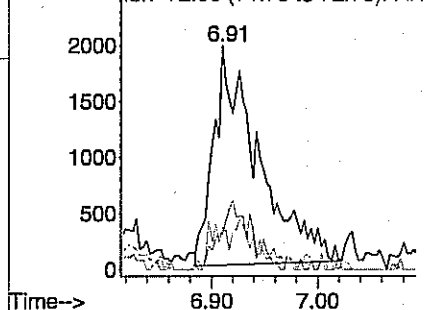


Abundance

Ion 43.00 (42.70 to 43.70): AH

Ion 57.00 (56.70 to 57.70): AH

Ion 72.00 (71.70 to 72.70): AH



#26

Ethyl acetate

Concen: 0.86 ppb

RT: 7.49 min Scan# 1453

Delta R.T. 0.01 min

Lab File: AH030333.D

Acq: 4 Mar 2010 5:56

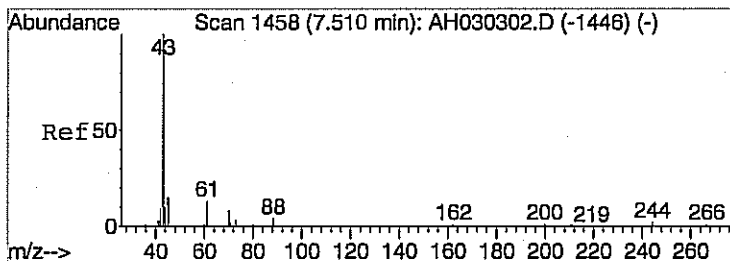
Tgt Ion: 43 Resp: 17193

Ion Ratio Lower Upper

43 100

45 14.4 0.0 34.4

61 13.5 0.0 33.5

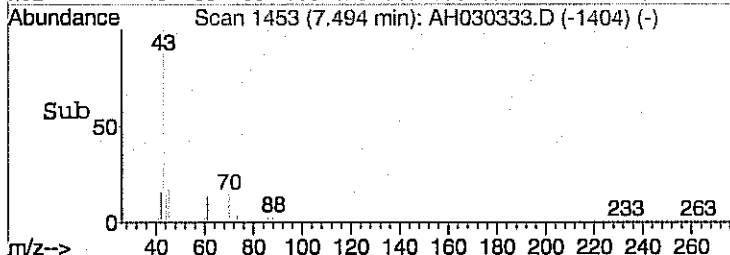
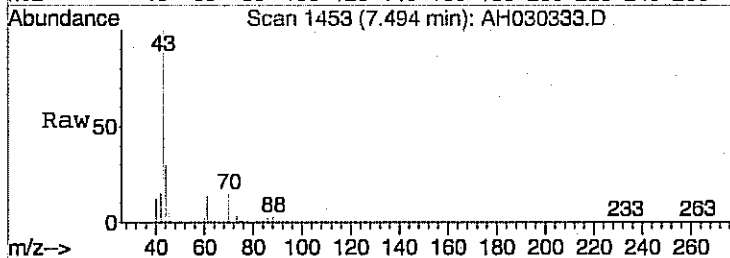
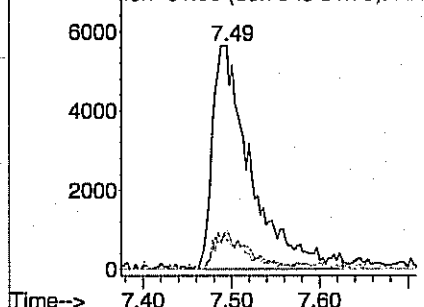


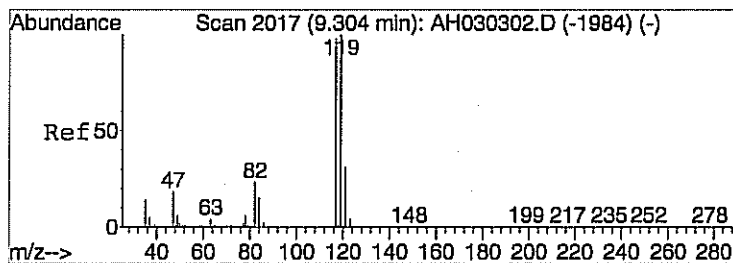
Abundance

Ion 43.00 (42.70 to 43.70): AH

Ion 45.00 (44.70 to 45.70): AH

Ion 61.00 (60.70 to 61.70): AH





#33

Carbon tetrachloride

Concen: 0.10 ppb

RT: 9.30 min Scan# 2015

Delta R.T. 0.00 min

Lab File: AH030333.D

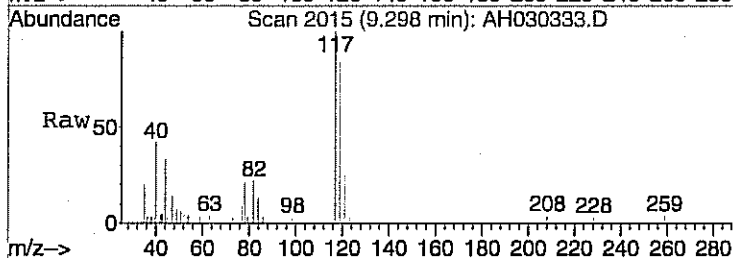
Acq: 4 Mar 2010 5:56

Tgt Ion: 117 Resp: 4213

Ion Ratio Lower Upper

117 100

119 106.1 75.3 115.3



Abundance Ion 117.00 (116.70 to 117.70):

Ion 119.00 (118.70 to 119.70):

2000

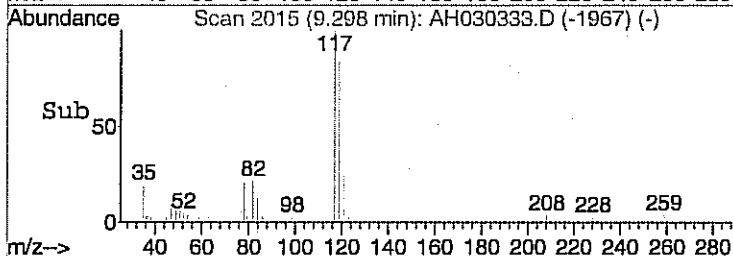
1500

1000

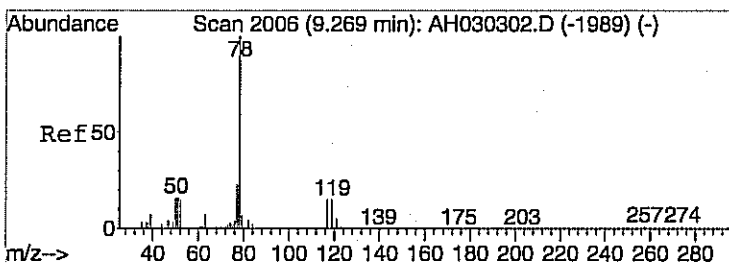
500

0

9.20 9.25 9.30 9.35



Time-->



#34

Benzene

Concen: 0.20 ppb

RT: 9.27 min Scan# 2007

Delta R.T. 0.02 min

Lab File: AH030333.D

Acq: 4 Mar 2010 5:56

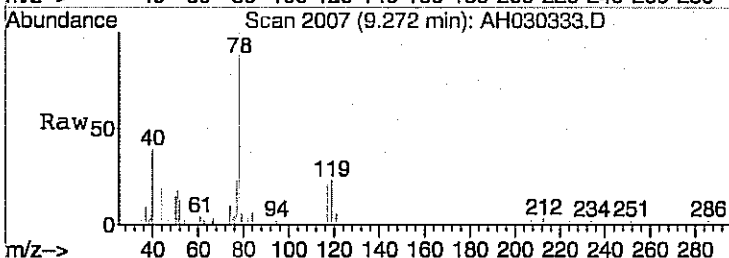
Tgt Ion: 78 Resp: 6186

Ion Ratio Lower Upper

78 100

77 24.0 2.7 42.7

51 17.2 1.1 41.1



Abundance Ion 78.00 (77.70 to 78.70): AH

Ion 77.00 (76.70 to 77.70): AH

Ion 51.00 (50.70 to 51.70): AH

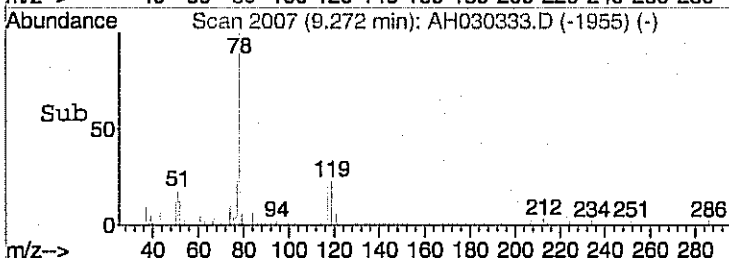
3000

2000

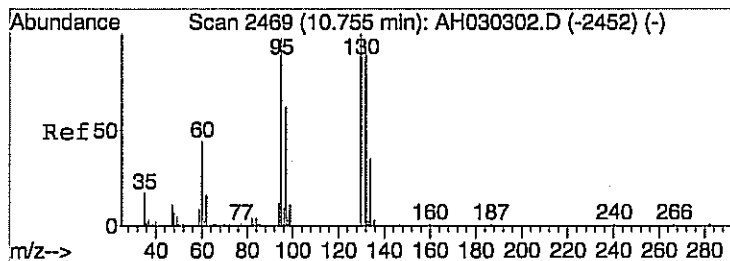
1000

0

9.20 9.25 9.30



Time-->



#38

Trichloroethene

Concen: 6.26 ppb

RT: 10.75 min Scan# 2468

Delta R.T. 0.01 min

Lab File: AH030333.D

Acq: 4 Mar 2010 5:56

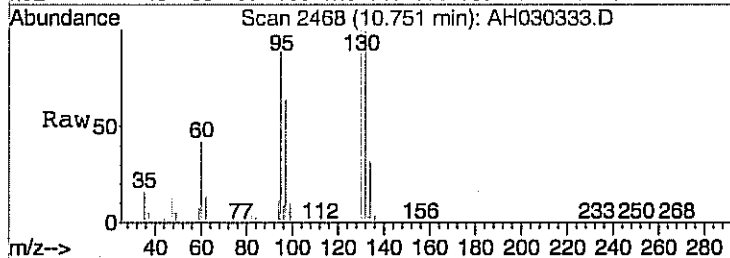
Tgt Ion: 130 Resp: 125935

Ion Ratio Lower Upper

130 100

132 97.1 78.1 118.1

95 98.4 76.7 116.7

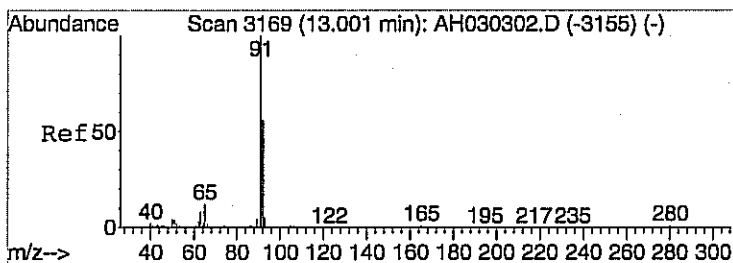
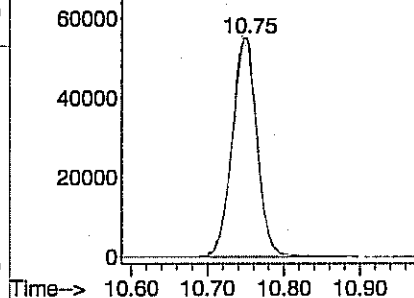
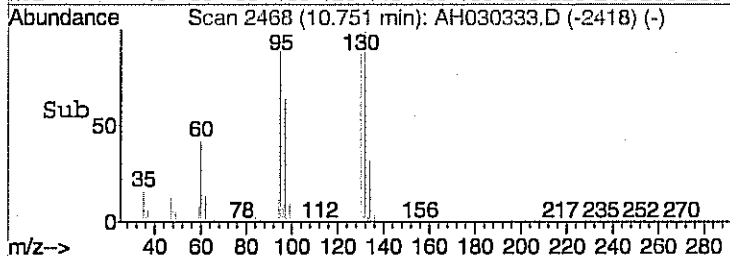


Abundance

Ion 130.00 (129.70 to 130.70): AH

Ion 132.00 (131.70 to 132.70): AH

Ion 95.00 (94.70 to 95.70): AH



#45

Toluene

Concen: 0.36 ppb

RT: 13.00 min Scan# 3169

Delta R.T. 0.01 min

Lab File: AH030333.D

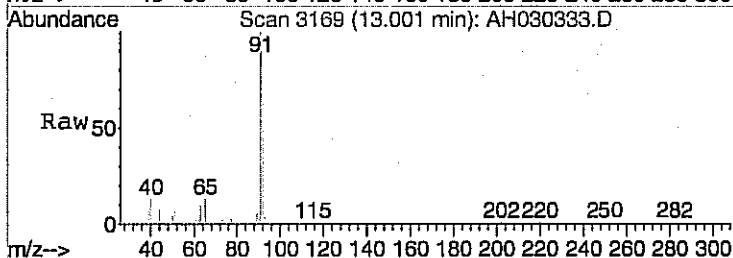
Acq: 4 Mar 2010 5:56

Tgt Ion: 92 Resp: 7832

Ion Ratio Lower Upper

92 100

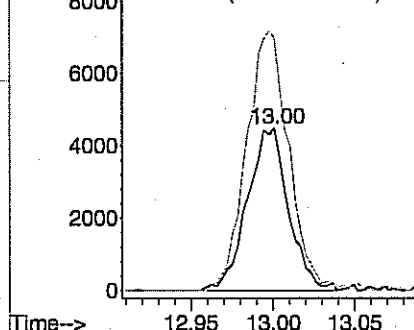
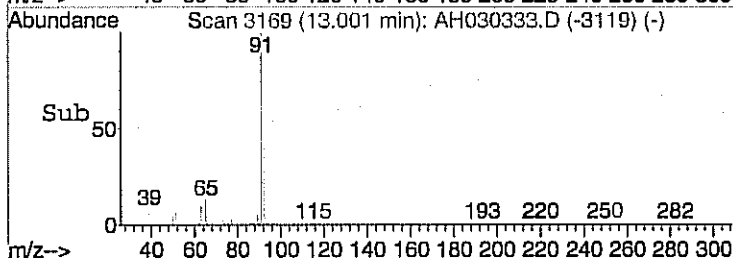
91 165.0 152.9 192.9

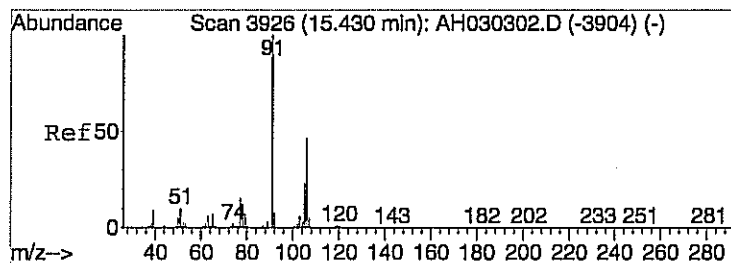


Abundance

Ion 92.00 (91.70 to 92.70): AH

Ion 91.00 (90.70 to 91.70): AH





#53

m&p-xylene

Concen: 0.10 ppb

RT: 15.39 min Scan# 3915

Delta R.T. -0.03 min

Lab File: AH030333.D

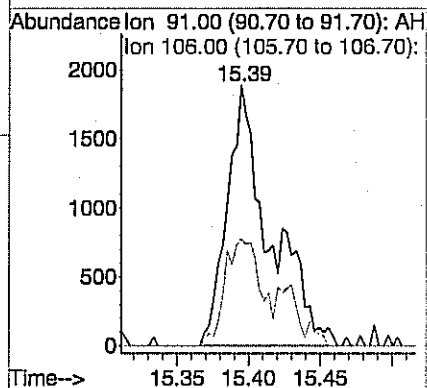
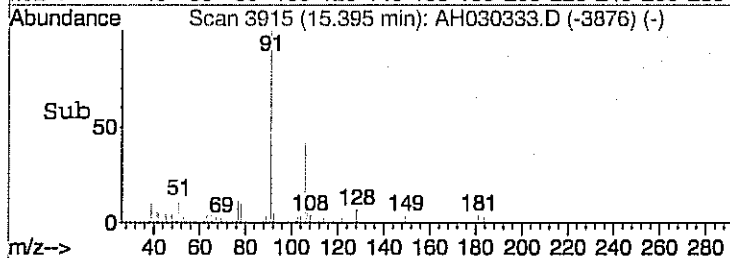
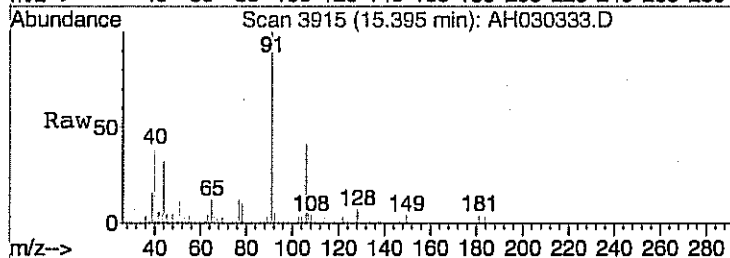
Acq: 4 Mar 2010 5:56

Tgt Ion: 91 Resp: 3914

Ion Ratio Lower Upper

91 100

106 47.1 28.0 68.0



Data File : C:\HPCHEM\1\DATA\AH030420.D

Vial: 16

Acq On : 5 Mar 2010 00:18

Operator: RJP

Sample : C1003003-006A 5X

Inst : MSD #1

Misc : C1003003-006A

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 05 00:40:14 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11121	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	20467	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	17853	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	6633	0.77	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	77.00%	

Target Compounds

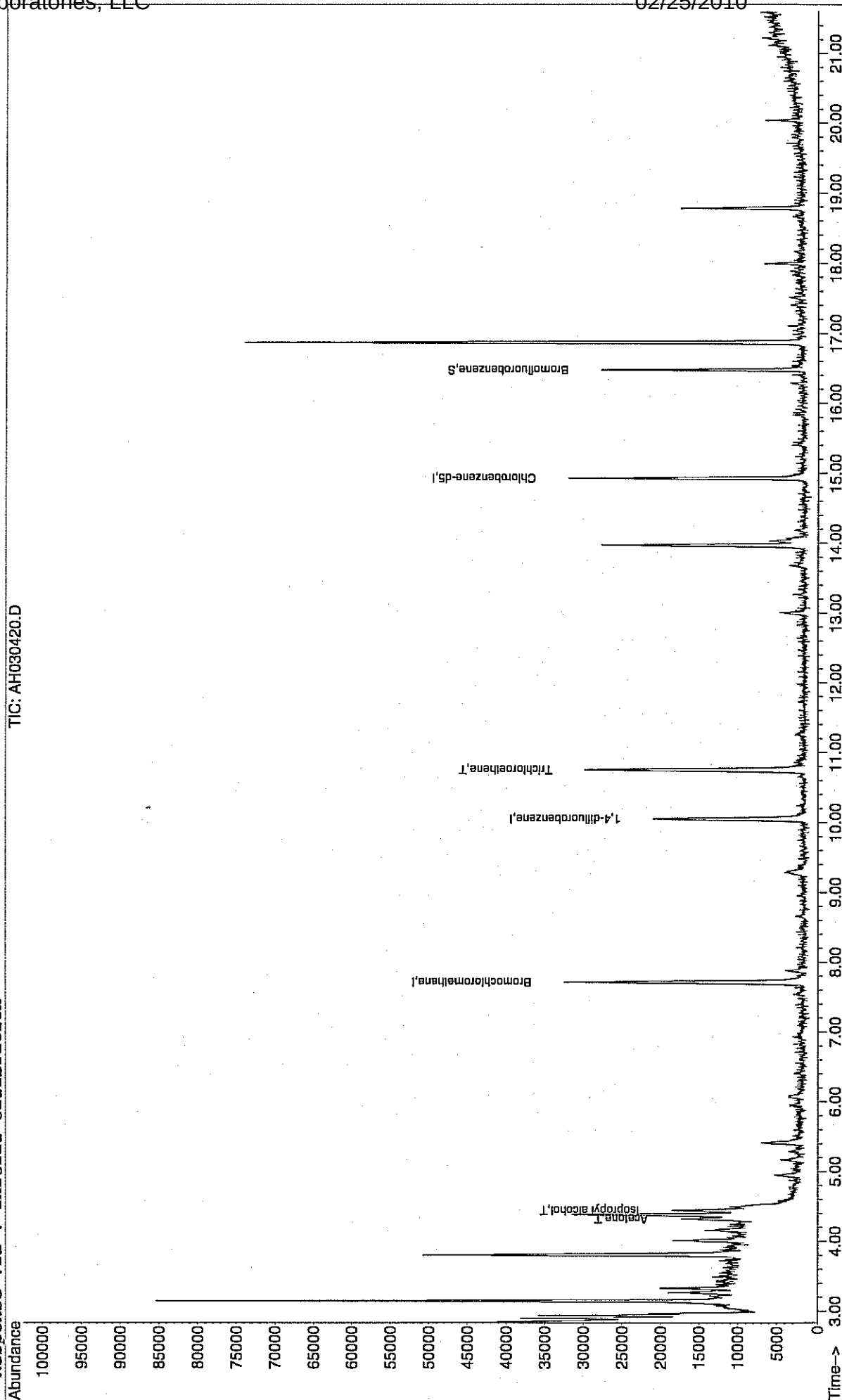
					Qvalue
12) Acetone	4.32	58	3262	0.80	ppb 87
13) Isopropyl alcohol	4.44	45	7538m	0.63	ppb
38) Trichloroethene	10.75	130	11937	0.74	ppb 96

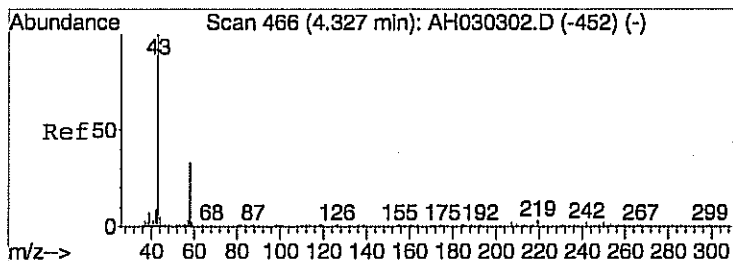
Data File : C:\HPCHEM\1\DATA\AH030420.D
Acq On : 5 Mar 2010 00:18
Sample : C1003003-006A 5X
Misc : C1003003-006A
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:42 2010

Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration





#12

Acetone

Concen: 0.80 ppb

RT: 4.32 min Scan# 464

Delta R.T. 0.01 min

Lab File: AH030420.D

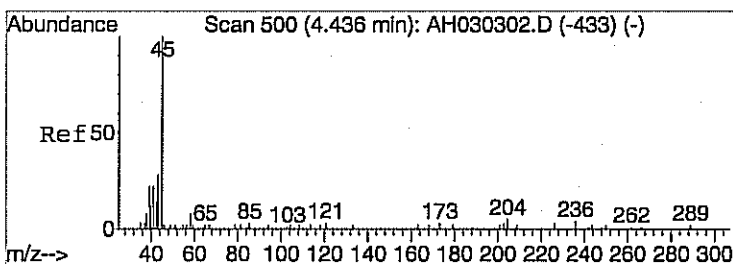
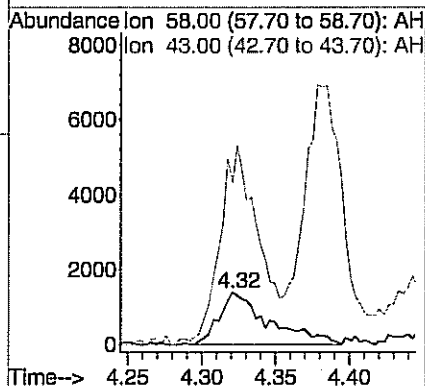
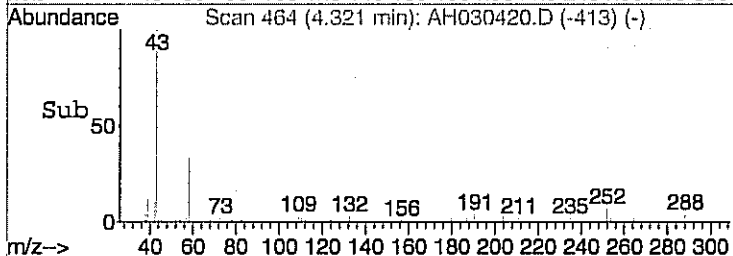
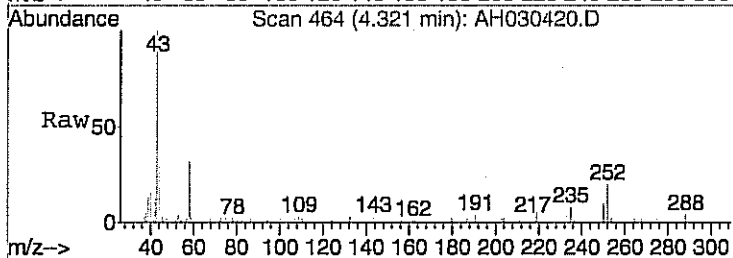
Acq: 5 Mar 2010 00:18

Tgt Ion: 58 Resp: 3262

Ion Ratio Lower Upper

58 100

43 321.8 320.6 380.6



#13

Isopropyl alcohol

Concen: 0.63 ppb m

RT: 4.44 min Scan# 502

Delta R.T. 0.04 min

Lab File: AH030420.D

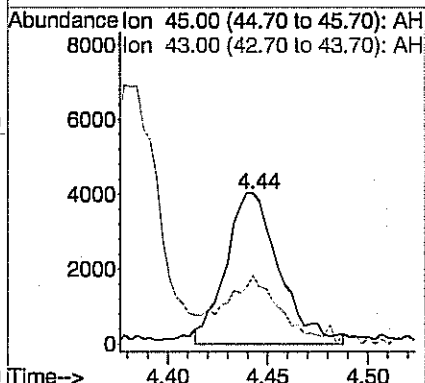
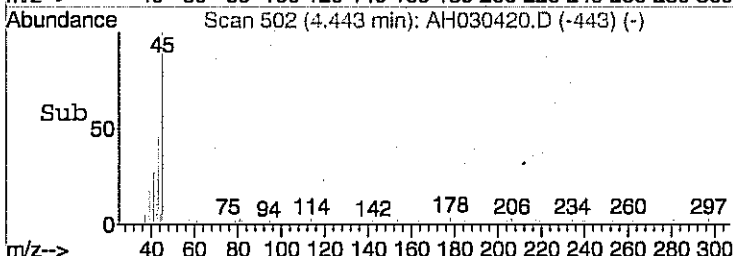
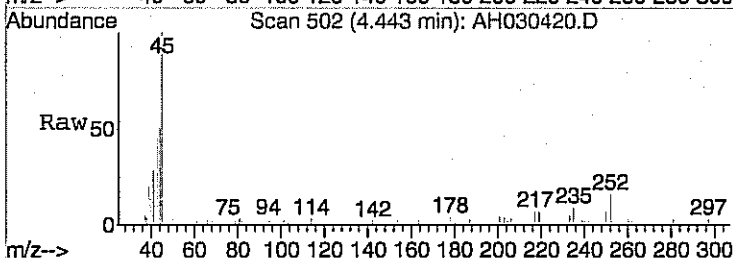
Acq: 5 Mar 2010 00:18

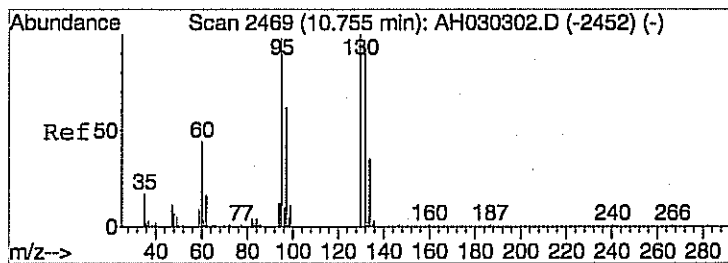
Tgt Ion: 45 Resp: 7538

Ion Ratio Lower Upper

45 100

43 207.3 14.6 54.6#





#38

Trichloroethene

Concen: 0.74 ppb

RT: 10.75 min Scan# 2467

Delta R.T. 0.01 min

Lab File: AH030420.D

Acq: 5 Mar 2010 00:18

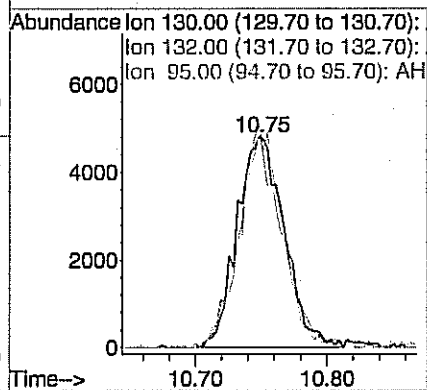
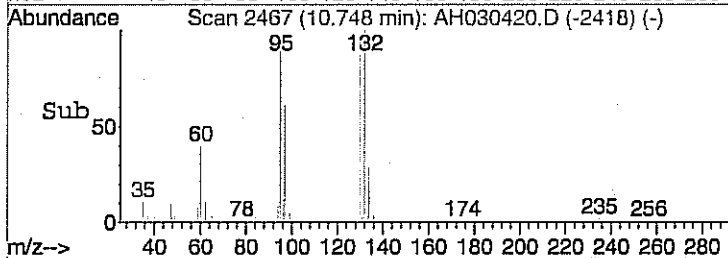
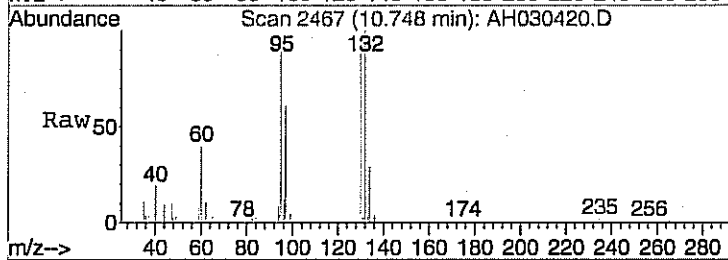
Tgt Ion:130 Resp: 11937

Ion Ratio Lower Upper

130 100

132 101.3 78.1 118.1

95 91.0 76.7 116.7



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\A209_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 15 11:47:59 2010
 Response via : Initial Calibration

Calibration Files

0.04 =AH020915.D 0.10 =AH020911.D 0.15 =AH020910.D
 0.30 =AH020909.D 0.50 =AH020908.D 0.75 =AH020907.D

Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----							
2) T Propylene			0.928	0.774	0.680	0.664	0.733	11.88
3) T Freon 12			7.639	6.437	5.886	5.935	6.081	11.54
4) T Chloromethane			1.684	1.385	1.299	1.218	1.296	13.77
5) T Freon 114			5.110	4.402	4.046	3.951	4.087	11.76
6) T Vinyl Chloride	1.162	1.369	1.307	1.119	1.091	1.135		11.45
7) T 1,3-butadiene		0.892	0.959	0.760	0.770	0.782		12.02
8) T Bromomethane		2.278	1.633	1.462	1.453	1.541		20.46
9) T Chloroethane		0.658	0.580	0.456	0.403	0.484		18.11
10) T Vinyl Bromide		1.851	1.603	1.464	1.434	1.481		11.84
11) T Freon 11		5.384	4.760	4.358	4.409	4.428		10.55
12) T Acetone			0.418	0.369	0.367	0.366		8.25
13) T Isopropyl alcoh		1.182	1.130	1.207	1.103	1.076		9.76
14) T 1,1-dichloroeth		1.706	1.437	1.339	1.310	1.361		11.24
15) T Freon 113		4.943	3.276	2.975	2.940	3.363		20.74
16) T Methylenechlor		1.777	1.358	1.077	1.427	1.384		14.04
17) T Allyl chloride		1.076	0.982	0.871	0.968	0.961		6.71
18) T Carbon disulfid		5.420	4.565	4.255	4.302	4.355		11.16
19) T trans-1,2-dichl		2.097	1.898	1.800	1.832	1.829		7.16
20) T methyl tert-but		2.447	2.347	2.319	2.340	2.451		4.48
21) T 1,1-dichloroeth		2.906	2.737	2.405	2.468	2.530		7.70
22) T Vinyl acetate		1.518	1.782	1.504	1.556	1.676		7.72
23) T Methyl Ethyl Ke		2.373	2.346	2.149	2.193	2.249		3.91
24) T cis-1,2-dichlor		1.768	1.720	1.569	1.624	1.649		4.19
25) T Hexane		1.145	1.153	1.095	1.133	1.154		3.58
26) T Ethyl acetate		1.704	1.642	1.522	1.577	1.606		4.25
27) T Chloroform		4.855	4.214	3.871	3.955	4.054		8.86
28) T Tetrahydrofuran			0.601	0.651	0.599	0.651		6.36
29) T 1,2-dichloroeth		2.781	2.566	2.359	2.467	2.468		6.33
30) I 1,4-difluorobenzene	-----ISTD-----							
31) T 1,1,1-trichloro		1.558	1.296	1.228	1.225	1.281		8.97
32) T Cyclohexane		0.386	0.345	0.356	0.370	0.386		7.32
33) T Carbon tetrachl	2.347	1.624	1.953	1.644	1.566	1.541	1.686	15.71
34) T Benzene		1.262	1.246	1.163	1.166	1.187		4.26
35) T 1,4-dioxane			0.142	0.138	0.128	0.144		8.51
36) T 2,2,4-trimethyl		1.161	1.057	1.009	1.092	1.118		5.52
37) T Heptane		0.374	0.318	0.307	0.339	0.360		9.41
38) T Trichloroethene	1.049	0.712	0.879	0.782	0.741	0.738	0.790	12.91
39) T 1,2-dichloropro		0.505	0.427	0.388	0.402	0.420		8.57
40) T Bromodichlorome		1.456	1.210	1.185	1.163	1.225		7.72
41) T cis-1,3-dichlor		0.507	0.452	0.463	0.514	0.531		10.73
42) T trans-1,3-dichl		0.462	0.418	0.416	0.437	0.465		8.33
43) T 1,1,2-trichloro		0.777	0.690	0.668	0.628	0.667		7.35
44) I Chlorobenzene-d5	-----ISTD-----							
45) T Toluene		0.832	0.794	0.752	0.830	0.868		9.56
46) T Methyl Isobutyl			0.432	0.422	0.401	0.429		8.23
47) T Dibromochlorome		1.703	1.471	1.345	1.357	1.428		8.24
48) T Methyl Butyl Ke			0.358	0.288	0.309	0.321		8.07
49) T 1,2-dibromoetha		1.455	1.264	1.168	1.159	1.241		7.50
50) T Tetrachloroethy		1.250	1.059	0.952	0.958	1.008		10.39
51) T Chlorobenzene		1.772	1.505	1.379	1.424	1.507		7.80
52) T Ethylbenzene		1.534	1.467	1.470	1.617	1.730		13.92
53) T m&p-xylene		1.213	1.240	1.332	1.529	1.537		16.02
54) T Styrene		0.772	0.760	0.775	0.876	0.943		18.31
55) T Bromoform		1.277	1.037	0.994	1.062	1.101		7.62

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 15 11:47:59 2010
 Response via : Initial Calibration

Calibration Files

0.04 =AH020915.D 0.10 =AH020911.D 0.15 =AH020910.D
 0.30 =AH020909.D 0.50 =AH020908.D 0.75 =AH020907.D

Compound		0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
56) T	o-xylene			1.541	1.330	1.677	1.742	1.778	14.35
57) S	Bromofluorobenz	0.394	0.412	0.398	0.450	0.502	0.522	0.483	13.10
58) T	1,1,2,2-tetrach			1.601	1.476	1.430	1.430	1.457	4.26
59) T	4-ethyltoluene			0.829	0.800	0.820	0.949	1.056	23.46
60) T	1,3,5-trimethyl			1.263	1.163	1.246	1.588	1.642	23.15
61) T	1,2,4-trimethyl			1.240	1.174	1.000	1.132	1.332	18.50
62) T	1,3-dichloroben			1.383	1.257	1.300	1.409	1.429	7.85
63) T	benzyl chloride			0.413	0.371	0.375	0.397	0.413	8.09
64) T	1,4-dichloroben			1.201	1.193	1.202	1.334	1.400	13.43
65) T	1,2-dichloroben			1.207	1.162	1.187	1.250	1.303	8.77
66) T	1,2,4-trichloro			0.637	0.542	0.540	0.568	0.618	10.20
67) T	Hexachloro-1,3-			1.425	1.161	1.114	1.113	1.184	8.63

Data File : C:\HPCHEM\1\DATA\AH020903.D

Vial: 2

Acq On : 9 Feb 2010 18:04

Operator: RJP

Sample : A1UG_2.0

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:27:58 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	7.70	128	15403	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	47264	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	42494	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	22306	0.99	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	20673	1.84	ppb	93
3) Freon 12	2.97	85	170898	1.87	ppb	100
4) Chloromethane	3.11	50	34878	1.74	ppb	100
5) Freon 114	3.11	85	112703	1.82	ppb	98
6) Vinyl Chloride	3.25	62	30650	1.80	ppb	98
7) 1,3-butadiene	3.33	39	21628	1.86	ppb	97
8) Bromomethane	3.58	94	41541	1.89	ppb	100
9) Chloroethane	3.70	64	13317	1.95	ppb	93
10) Vinyl Bromide	3.95	106	41578	1.87	ppb	98
11) Freon 11	4.16	101	124372	1.87	ppb	98
12) Acetone	4.30	58	11633	2.18	ppb	88
13) Isopropyl alcohol	4.40	45	27957	1.75	ppb	97
14) 1,1-dichloroethene	4.76	96	37749	1.86	ppb	99
15) Freon 113	4.94	101	115012	2.59	ppb	97
16) Methylene chloride	5.16	84	40545	1.85	ppb	94
17) Allyl chloride	5.15	41	28059	1.85	ppb	93
18) Carbon disulfide	5.28	76	119637	1.81	ppb	98
19) trans-1,2-dichloroethene	6.00	61	51725	1.85	ppb	95
20) methyl tert-butyl ether	6.06	73	79392	2.08	ppb	97
21) 1,1-dichloroethane	6.39	63	73356	1.91	ppb	96
22) Vinyl acetate	6.42	43	55836	2.09	ppb	98
23) Methyl Ethyl Ketone	6.91	43	71583	2.08	ppb	95
24) cis-1,2-dichloroethene	7.28	61	50408	2.02	ppb	98
25) Hexane	6.92	41	35893	1.94	ppb	97
26) Ethyl acetate	7.48	43	49488	2.10	ppb	95
27) Chloroform	7.87	83	116801	1.89	ppb	99
28) Tetrahydrofuran	8.04	42	21397	2.11	ppb	89
29) 1,2-dichloroethane	8.94	62	72092	1.91	ppb	94
31) 1,1,1-trichloroethane	8.65	97	116615	2.00	ppb	100
32) Cyclohexane	9.35	56	40836	2.19	ppb	97
33) Carbon tetrachloride	9.29	117	147668	2.02	ppb	100
34) Benzene	9.26	78	114346	2.14	ppb	95
35) 1,4-dioxane	11.08	88	15387	2.40	ppb	94
36) 2,2,4-trimethylpentane	10.23	57	111547	2.10	ppb	95
37) Heptane	10.65	43	37584	2.12	ppb	92
38) Trichloroethene	10.74	130	70978	2.04	ppb	100
39) 1,2-dichloropropane	10.86	63	38678	1.99	ppb	97
40) Bromodichloromethane	11.25	83	113105	1.99	ppb	98
41) cis-1,3-dichloropropene	12.15	75	58324	2.25	ppb	100
42) trans-1,3-dichloropropene	12.94	75	49458	2.19	ppb	99
43) 1,1,2-trichloroethane	13.25	97	60335	2.00	ppb	98
45) Toluene	12.99	92	84145	2.31	ppb	100
46) Methyl Isobutyl Ketone	12.11	43	42786	2.40	ppb	97
47) Dibromochloromethane	13.93	129	117529	2.02	ppb	100
48) Methyl Butyl Ketone	13.49	43	29764	2.16	ppb	96
49) 1,2-dibromoethane	14.17	107	102872	2.01	ppb	98
50) Tetrachloroethylene	14.02	164	80078	1.96	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AH020903.D

Vial: 2

Acq On : 9 Feb 2010 18:04

Operator: RJP

Sample : A1UG_2.0

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:27:58 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	127157	2.06	ppb	99
52) Ethylbenzene	15.22	91	175514	2.33	ppb	99
53) m&p-xylene	15.42	91	307787	4.40	ppb	100
54) Styrene	15.82	104	100295	2.46	ppb	100
55) Bromoform	15.90	173	95077	2.05	ppb	96
56) o-xylene	15.85	91	174267	2.18	ppb	98
58) 1,1,2,2-tetrachloroethane	16.27	83	119217	1.96	ppb	100
59) 4-ethyltoluene	17.03	105	119692	2.70	ppb	98
60) 1,3,5-trimethylbenzene	17.09	105	173549	2.30	ppb	98
61) 1,2,4-trimethylbenzene	17.50	105	143261	2.61	ppb	100
62) 1,3-dichlorobenzene	17.75	146	130364	2.11	ppb	99
63) benzyl chloride	17.82	91	38994	2.30	ppb	98
64) 1,4-dichlorobenzene	17.88	146	134051	2.12	ppb	99
65) 1,2-dichlorobenzene	18.15	146	121847	2.14	ppb	99
66) 1,2,4-trichlorobenzene	19.77	180	60218	2.27	ppb	98
67) Hexachloro-1,3-butadiene	20.03	225	100699	2.10	ppb	99

Data File : C:\HPCHEM\1\DATA\AH020903.D
Acq On : 9 Feb 2010 18:04
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 9 22:27 2010

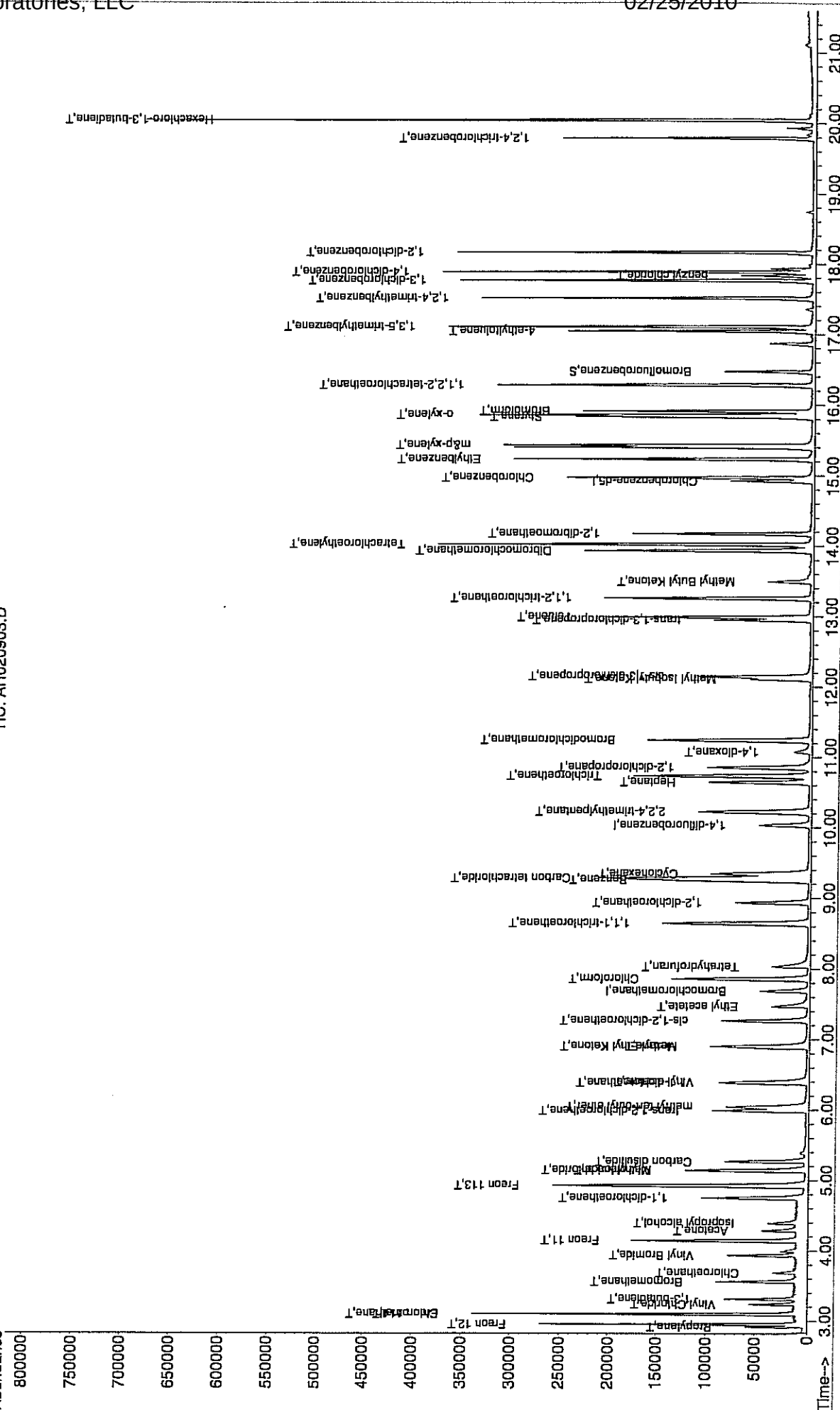
Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integration)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020903.D

Abundance



Data File : C:\HPCHEM\1\DATA\AH020904.D

Vial: 3

Acq On : 9 Feb 2010 18:38

Operator: RJP

Sample : A1UG_1.50

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:28:20 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	16129	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	49375	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	42890	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	23805	1.05	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	105.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	16622m	1.41	ppb	
3) Freon 12	2.97	85	130148	1.36	ppb	100
4) Chloromethane	3.11	50	27552m	1.31	ppb	
5) Freon 114	3.11	85	87438	1.35	ppb	99
6) Vinyl Chloride	3.25	62	23660	1.33	ppb	98
7) 1,3-butadiene	3.32	39	16755	1.38	ppb	96
8) Bromomethane	3.57	94	30762	1.34	ppb	96
9) Chloroethane	3.70	64	10819	1.51	ppb	90
10) Vinyl Bromide	3.95	106	31116	1.34	ppb	99
11) Freon 11	4.15	101	93544	1.34	ppb	96
12) Acetone	4.30	58	7708	1.38	ppb	# 85
13) Isopropyl alcohol	4.39	45	23039	1.38	ppb	96
14) 1,1-dichloroethene	4.76	96	30345	1.43	ppb	99
15) Freon 113	4.93	101	77987m	1.68	ppb	
16) Methylene chloride	5.16	84	31520	1.37	ppb	93
17) Allyl chloride	5.14	41	21902	1.38	ppb	94
18) Carbon disulfide	5.28	76	93930	1.36	ppb	97
19) trans-1,2-dichloroethene	6.00	61	40825	1.39	ppb	99
20) methyl tert-butyl ether	6.05	73	60152	1.50	ppb	97
21) 1,1-dichloroethane	6.39	63	56466	1.40	ppb	97
22) Vinyl acetate	6.41	43	41380	1.48	ppb	99
23) Methyl Ethyl Ketone	6.90	43	53898	1.50	ppb	96
24) cis-1,2-dichloroethene	7.27	61	38128	1.46	ppb	97
25) Hexane	6.91	41	27135	1.40	ppb	97
26) Ethyl acetate	7.48	43	37964	1.53	ppb	97
27) Chloroform	7.86	83	89650	1.38	ppb	99
28) Tetrahydrofuran	8.04	42	15641	1.48	ppb	93
29) 1,2-dichloroethane	8.94	62	55252	1.40	ppb	93
31) 1,1,1-trichloroethane	8.65	97	90145	1.48	ppb	100
32) Cyclohexane	9.35	56	29975	1.54	ppb	96
33) Carbon tetrachloride	9.29	117	111750	1.46	ppb	98
34) Benzene	9.25	78	83168	1.49	ppb	95
35) 1,4-dioxane	11.08	88	10817	1.62	ppb	92
36) 2,2,4-trimethylpentane	10.23	57	84036	1.52	ppb	97
37) Heptane	10.65	43	28297	1.53	ppb	93
38) Trichloroethene	10.74	130	54755	1.51	ppb	99
39) 1,2-dichloropropane	10.85	63	30128	1.48	ppb	98
40) Bromodichloromethane	11.24	83	87150	1.47	ppb	100
41) cis-1,3-dichloropropene	12.14	75	41969	1.55	ppb	98
42) trans-1,3-dichloropropene	12.94	75	36527	1.55	ppb	100
43) 1,1,2-trichloroethane	13.25	97	47057	1.49	ppb	98
45) Toluene	12.99	92	60859	1.66	ppb	99
46) Methyl Isobutyl Ketone	12.11	43	25527	1.42	ppb	97
47) Dibromochloromethane	13.93	129	89164	1.52	ppb	99
48) Methyl Butyl Ketone	13.49	43	19202	1.38	ppb	99
49) 1,2-dibromoethane	14.17	107	79021	1.53	ppb	99
50) Tetrachloroethylene	14.01	164	61425	1.49	ppb	100

Data File : C:\HPCHEM\1\DATA\AH020904.D

Vial: 3

Acq On : 9 Feb 2010 18:38

Operator: RJP

Sample : A1UG_1.50

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:28:20 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	97044	1.56	ppb	98
52) Ethylbenzene	15.22	91	127748	1.68	ppb	98
53) m&p-xylene	15.42	91	229384	3.25	ppb	99
54) Styrene	15.82	104	73120	1.77	ppb	99
55) Bromoform	15.90	173	72278	1.55	ppb	97
56) o-xylene	15.84	91	128656	1.60	ppb	100
58) 1,1,2,2-tetrachloroethane	16.27	83	91884	1.50	ppb	98
59) 4-ethyltoluene	17.03	105	86534	1.93	ppb	100
60) 1,3,5-trimethylbenzene	17.09	105	131476	1.73	ppb	100
61) 1,2,4-trimethylbenzene	17.50	105	103438	1.87	ppb	99
62) 1,3-dichlorobenzene	17.75	146	99167	1.59	ppb	98
63) benzyl chloride	17.82	91	28277	1.66	ppb	97
64) 1,4-dichlorobenzene	17.88	146	103441	1.62	ppb	99
65) 1,2-dichlorobenzene	18.15	146	90448	1.57	ppb	99
66) 1,2,4-trichlorobenzene	19.77	180	41599	1.56	ppb	97
67) Hexachloro-1,3-butadiene	20.03	225	74097	1.53	ppb	99

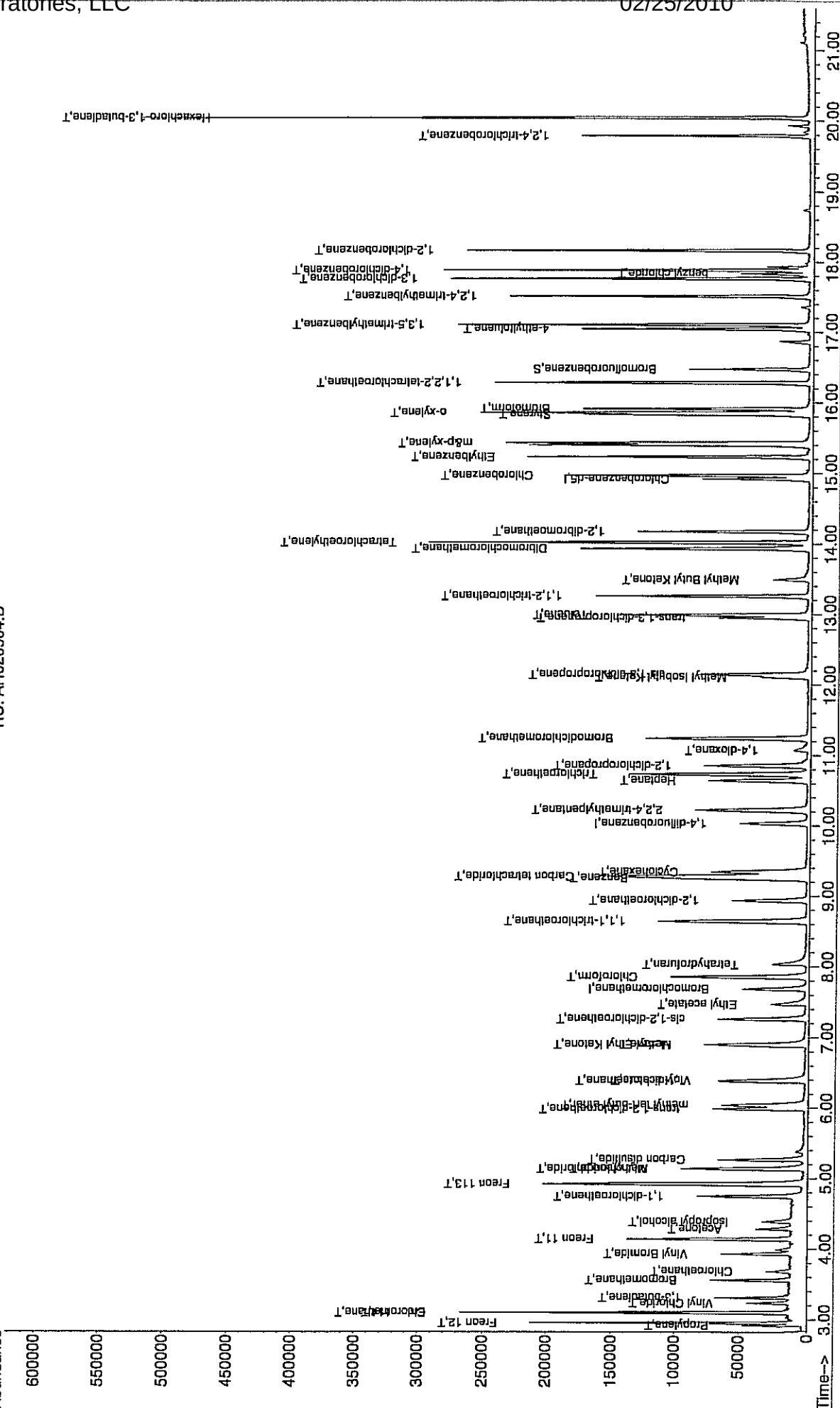
Data File : C:\HPCHEM\1\DATA\AH020904.D
Acq On : 9 Feb 2010 18:38
Sample : A1UG_1.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:40 2010

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

Quant Results File: A209_1UG.RES

TIC: AH020904.D

Abundance



Data File : C:\HPCHEM\1\DATA\AH020905.D

Vial: 4

Acq On : 9 Feb 2010 19:12

Operator: RJP

Sample : ALUG_1.25

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:28:48 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	14936	1.00	ppb	-0.01
30) 1,4-difluorobenzene	10.04	114	47421	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	41641	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	22683	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 103.00%	

Target Compounds

						Qvalue
2) Propylene	2.93	41	13683	1.26	ppb	92
3) Freon 12	2.97	85	110210	1.25	ppb	99
4) Chloromethane	3.11	50	22626	1.17	ppb	99
5) Freon 114	3.11	85	72679	1.21	ppb	98
6) Vinyl Chloride	3.25	62	20233	1.22	ppb	98
7) 1,3-butadiene	3.32	39	13642	1.21	ppb	89
8) Bromomethane	3.57	94	27186	1.28	ppb	99
9) Chloroethane	3.70	64	8395	1.27	ppb	93
10) Vinyl Bromide	3.95	106	26514	1.23	ppb	98
11) Freon 11	4.15	101	80101	1.24	ppb	98
12) Acetone	4.30	58	6770	1.31	ppb	98
13) Isopropyl alcohol	4.40	45	20331	1.31	ppb	96
14) 1,1-dichloroethene	4.76	96	24195	1.23	ppb	97
15) Freon 113	4.93	101	54790	1.27	ppb	98
16) Methylene chloride	5.16	84	25975	1.22	ppb	94
17) Allyl chloride	5.14	41	18617	1.27	ppb	91
18) Carbon disulfide	5.28	76	79332	1.24	ppb	99
19) trans-1,2-dichloroethene	6.00	61	34024	1.25	ppb	96
20) methyl tert-butyl ether	6.06	73	48751	1.32	ppb	100
21) 1,1-dichloroethane	6.39	63	46935	1.26	ppb	98
22) Vinyl acetate	6.42	43	33514	1.29	ppb	99
23) Methyl Ethyl Ketone	6.91	43	40140m	1.20	ppb	
24) cis-1,2-dichloroethene	7.27	61	31395	1.30	ppb	94
25) Hexane	6.91	41	22779	1.27	ppb	97
26) Ethyl acetate	7.48	43	31566	1.38	ppb	97
27) Chloroform	7.86	83	75230	1.25	ppb	100
28) Tetrahydrofuran	8.05	42	13205	1.34	ppb	97
29) 1,2-dichloroethane	8.94	62	46622	1.27	ppb	94
31) 1,1,1-trichloroethane	8.65	97	74385	1.27	ppb	98
32) Cyclohexane	9.35	56	23792	1.27	ppb	93
33) Carbon tetrachloride	9.29	117	92714	1.27	ppb	100
34) Benzene	9.25	78	70934	1.32	ppb	94
35) 1,4-dioxane	11.08	88	9349m	1.46	ppb	
36) 2,2,4-trimethylpentane	10.23	57	70251	1.32	ppb	97
37) Heptane	10.65	43	22907	1.29	ppb	94
38) Trichloroethene	10.73	130	46028	1.32	ppb	98
39) 1,2-dichloropropane	10.85	63	24408	1.25	ppb	97
40) Bromodichloromethane	11.25	83	71916	1.26	ppb	99
41) cis-1,3-dichloropropene	12.14	75	34173	1.31	ppb	100
42) trans-1,3-dichloropropene	12.94	75	29223	1.29	ppb	91
43) 1,1,2-trichloroethane	13.25	97	38945	1.28	ppb	97
45) Toluene	12.99	92	48986	1.37	ppb	98
46) Methyl Isobutyl Ketone	12.11	43	22217m	1.27	ppb	
47) Dibromochloromethane	13.93	129	73443	1.29	ppb	100
48) Methyl Butyl Ketone	13.49	43	16435	1.22	ppb	97
49) 1,2-dibromoethane	14.17	107	64392	1.28	ppb	98
50) Tetrachloroethylene	14.01	164	51289	1.28	ppb	100

Data File : C:\HPCHEM\1\DATA\AH020905.D

Vial: 4

Acq On : 9 Feb 2010 19:12

Operator: RJP

Sample : A1UG_1.25

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:28:48 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	79032	1.31	ppb	99
52) Ethylbenzene	15.22	91	100348	1.36	ppb	97
53) m&p-xylene	15.42	91	181289	2.65	ppb	99
54) Styrene	15.82	104	56337	1.41	ppb	100
55) Bromoform	15.90	173	57467	1.27	ppb	98
56) o-xylene	15.84	91	104560	1.34	ppb	100
58) 1,1,2,2-tetrachloroethane	16.27	83	75630	1.27	ppb	99
59) 4-ethyltoluene	17.03	105	65077	1.50	ppb	100
60) 1,3,5-trimethylbenzene	17.09	105	104904	1.42	ppb	100
61) 1,2,4-trimethylbenzene	17.50	105	79571	1.48	ppb	99
62) 1,3-dichlorobenzene	17.75	146	80766	1.33	ppb	99
63) benzyl chloride	17.82	91	23357	1.41	ppb	96
64) 1,4-dichlorobenzene	17.87	146	83160	1.34	ppb	98
65) 1,2-dichlorobenzene	18.15	146	74564	1.33	ppb	99
66) 1,2,4-trichlorobenzene	19.77	180	35459	1.37	ppb	99
67) Hexachloro-1,3-butadiene	20.03	225	62308	1.33	ppb	99

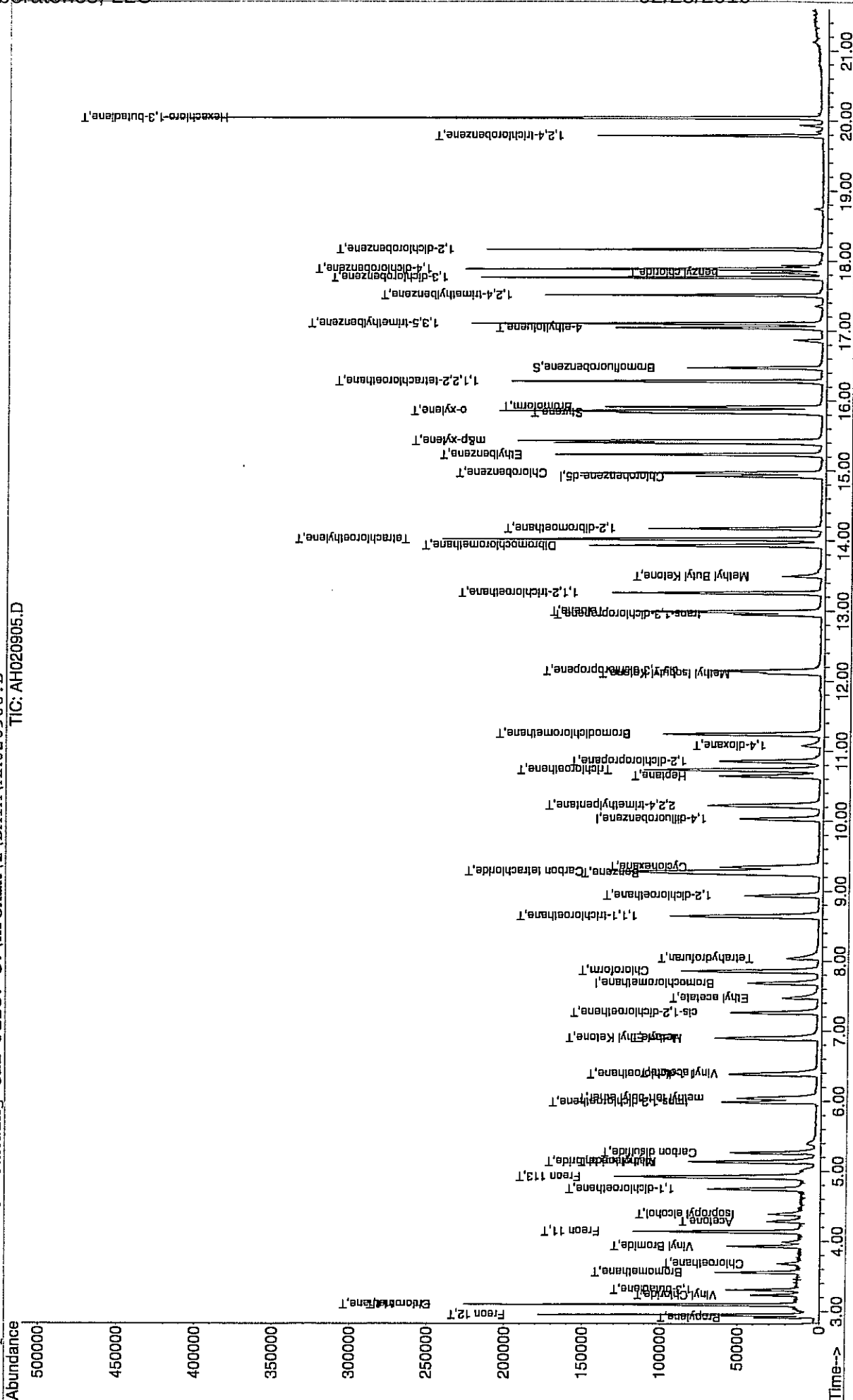
Data File : C:\HPCHEM\1\DATA\AH020905.D
Acq On : 9 Feb 2010 19:12
Sample : A1UG_1.25
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:41 2010

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020905.D



Data File : C:\HPCHEM\1\DATA\AH020906.D

Vial: 5

Acq On : 9 Feb 2010 19:45

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:27:25 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	14973	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	47052	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	41350	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	21898	1.00	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	10915	1.00	ppb	96
3) Freon 12	2.97	85	88655	1.00	ppb	100
4) Chloromethane	3.11	50	19456	1.00	ppb	99
5) Freon 114	3.11	85	60188	1.00	ppb	99
6) Vinyl Chloride	3.25	62	16574	1.00	ppb	93
7) 1,3-butadiene	3.32	39	11274	1.00	ppb	92
8) Bromomethane	3.57	94	21345	1.00	ppb	94
9) Chloroethane	3.70	64	6640	1.00	ppb	94
10) Vinyl Bromide	3.95	106	21567	1.00	ppb	100
11) Freon 11	4.15	101	64718	1.00	ppb	98
12) Acetone	4.31	58	5195	1.00	ppb	93
13) Isopropyl alcohol	4.40	45	15554	1.00	ppb	99
14) 1,1-dichloroethene	4.76	96	19737	1.00	ppb	97
15) Freon 113	4.93	101	43112	1.00	ppb	96
16) Methylene chloride	5.16	84	21292	1.00	ppb	90
17) Allyl chloride	5.14	41	14707	1.00	ppb	97
18) Carbon disulfide	5.28	76	64105	1.00	ppb	99
19) trans-1,2-dichloroethene	6.00	61	27235	1.00	ppb	95
20) methyl tert-butyl ether	6.06	73	37164	1.00	ppb	99
21) 1,1-dichloroethane	6.40	63	37383	1.00	ppb	97
22) Vinyl acetate	6.41	43	25944	1.00	ppb	99
23) Methyl Ethyl Ketone	6.90	43	33404	1.00	ppb	95
24) cis-1,2-dichloroethene	7.28	61	24257	1.00	ppb	93
25) Hexane	6.91	41	18008	1.00	ppb	94
26) Ethyl acetate	7.48	43	22960	1.00	ppb	96
27) Chloroform	7.86	83	60108	1.00	ppb	99
28) Tetrahydrofuran	8.05	42	9843	1.00	ppb	96
29) 1,2-dichloroethane	8.94	62	36740	1.00	ppb	96
31) 1,1,1-trichloroethane	8.65	97	57977	1.00	ppb	99
32) Cyclohexane	9.35	56	18547	1.00	ppb	93
33) Carbon tetrachloride	9.29	117	72705	1.00	ppb	98
34) Benzene	9.25	78	53258	1.00	ppb	94
35) 1,4-dioxane	11.08	88	6375	1.00	ppb	91
36) 2,2,4-trimethylpentane	10.23	57	52851	1.00	ppb	98
37) Heptane	10.65	43	17646	1.00	ppb	96
38) Trichloroethene	10.73	130	34667	1.00	ppb	99
39) 1,2-dichloropropane	10.86	63	19396	1.00	ppb	99
40) Bromodichloromethane	11.24	83	56604	1.00	ppb	100
41) cis-1,3-dichloropropene	12.14	75	25818	1.00	ppb	98
42) trans-1,3-dichloropropene	12.94	75	22493	1.00	ppb	99
43) 1,1,2-trichloroethane	13.25	97	30075	1.00	ppb	99
45) Toluene	12.99	92	35447	1.00	ppb	97
46) Methyl Isobutyl Ketone	12.11	43	17342	1.00	ppb	97
47) Dibromochloromethane	13.93	129	56544	1.00	ppb	97
48) Methyl Butyl Ketone	13.49	43	13410	1.00	ppb	96
49) 1,2-dibromoethane	14.17	107	49915	1.00	ppb	99
50) Tetrachloroethylene	14.01	164	39789	1.00	ppb	99

Data File : C:\HPCHEM\1\DATA\AH020906.D

Vial: 5

Acq On : 9 Feb 2010 19:45

Operator: RJP

Sample : ALUG_1.0

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:27:25 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	60065	1.00	ppb	99
52) Ethylbenzene	15.22	91	73214	1.00	ppb	99
53) m&p-xylene	15.42	91	136045	2.00	ppb	100
54) Styrene	15.82	104	39747	1.00	ppb	100
55) Bromoform	15.90	173	45043	1.00	ppb	96
56) o-xylene	15.84	91	77676	1.00	ppb	99
58) 1,1,2,2-tetrachloroethane	16.27	83	59217	1.00	ppb	100
59) 4-ethyltoluene	17.03	105	43189	1.00	ppb	97
60) 1,3,5-trimethylbenzene	17.09	105	73476	1.00	ppb	100
61) 1,2,4-trimethylbenzene	17.50	105	53394	1.00	ppb	99
62) 1,3-dichlorobenzene	17.75	146	60155	1.00	ppb	99
63) benzyl chloride	17.82	91	16470	1.00	ppb	96
64) 1,4-dichlorobenzene	17.87	146	61535	1.00	ppb	98
65) 1,2-dichlorobenzene	18.15	146	55507	1.00	ppb	98
66) 1,2,4-trichlorobenzene	19.77	180	25789	1.00	ppb	96
67) Hexachloro-1,3-butadiene	20.03	225	46642	1.00	ppb	100

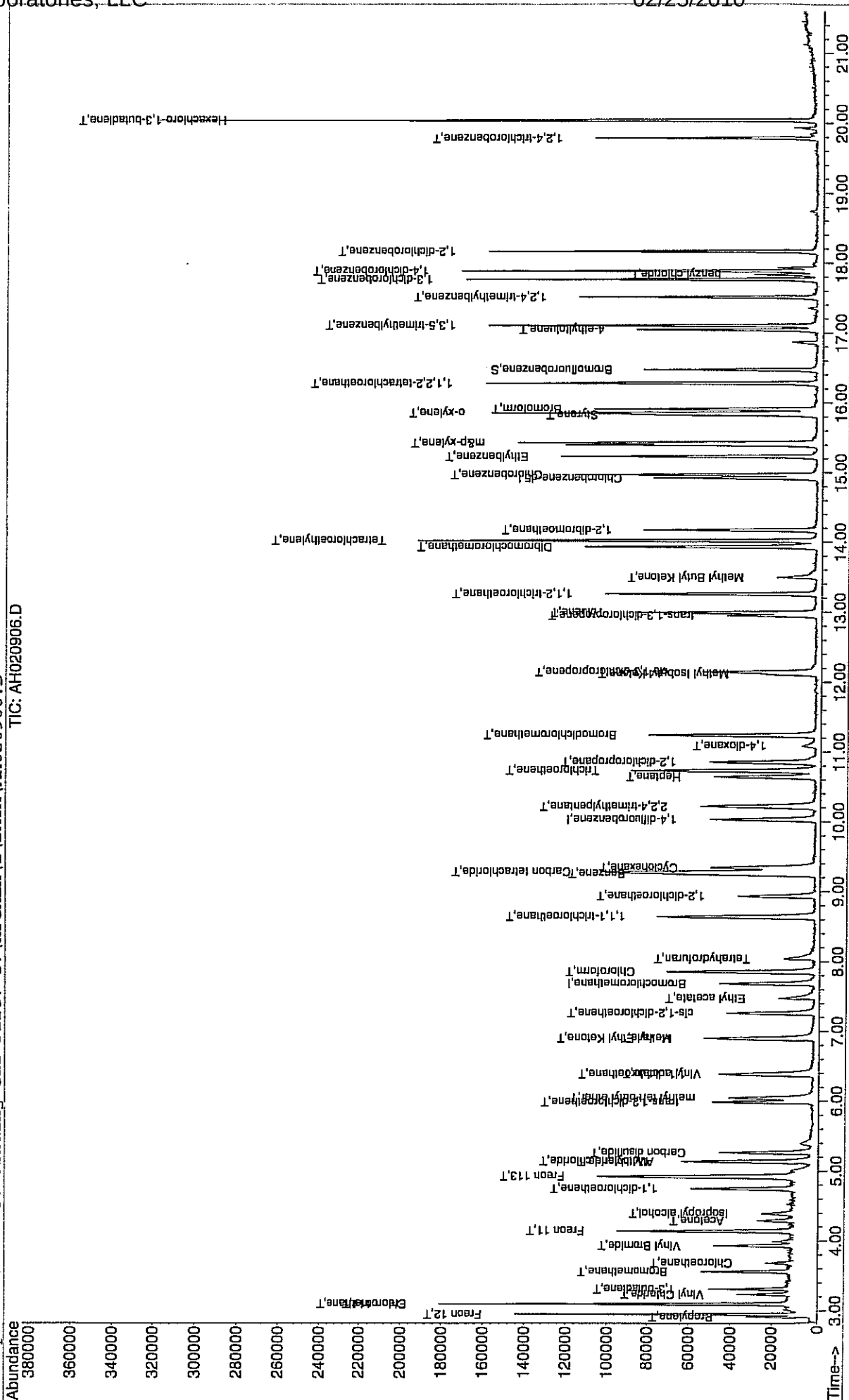
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Acq On : 9 Feb 2010 19:45
Sample : ALUG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 9 22:27 2010

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020906.D



Data File : C:\HPCHEM\1\DATA\AH020907.D

Vial: 6

Acq On : 9 Feb 2010 20:18

Operator: RJP

Sample : A1UG_0.75

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:29:13 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14778	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	46569	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	40276	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	21026	0.99	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	7359	0.68	ppb	84
3) Freon 12	2.97	85	65776	0.75	ppb	100
4) Chloromethane	3.11	50	13496	0.70	ppb	99
5) Freon 114	3.11	85	43787	0.74	ppb	96
6) Vinyl Chloride	3.25	62	12096	0.74	ppb	80
7) 1,3-butadiene	3.32	39	8535	0.77	ppb	96
8) Bromomethane	3.58	94	16102	0.76	ppb	99
9) Chloroethane	3.70	64	4464m	0.68	ppb	
10) Vinyl Bromide	3.95	106	15898	0.75	ppb	98
11) Freon 11	4.15	101	48869	0.77	ppb	99
12) Acetone	4.30	58	4066	0.79	ppb	100
13) Isopropyl alcohol	4.41	45	12226m	0.80	ppb	
14) 1,1-dichloroethene	4.76	96	14515	0.75	ppb	96
15) Freon 113	4.93	101	32584	0.77	ppb	98
16) Methylene chloride	5.16	84	15811	0.75	ppb	94
17) Allyl chloride	5.15	41	10724	0.74	ppb	94
18) Carbon disulfide	5.28	76	47682	0.75	ppb	99
19) trans-1,2-dichloroethene	6.01	61	20310	0.76	ppb	98
20) methyl tert-butyl ether	6.06	73	25940	0.71	ppb	100
21) 1,1-dichloroethane	6.39	63	27359	0.74	ppb	97
22) Vinyl acetate	6.42	43	17248	0.67	ppb	99
23) Methyl Ethyl Ketone	6.90	43	24306	0.74	ppb	98
24) cis-1,2-dichloroethene	7.28	61	18000	0.75	ppb	97
25) Hexane	6.91	41	12555	0.71	ppb	97
26) Ethyl acetate	7.48	43	17478	0.77	ppb	98
27) Chloroform	7.86	83	43830	0.74	ppb	99
28) Tetrahydrofuran	8.05	42	6641	0.68	ppb	91
29) 1,2-dichloroethane	8.94	62	27338	0.75	ppb	96
31) 1,1,1-trichloroethane	8.65	97	42785	0.75	ppb	99
32) Cyclohexane	9.34	56	12938	0.70	ppb	92
33) Carbon tetrachloride	9.29	117	53834	0.75	ppb	99
34) Benzene	9.25	78	40721	0.77	ppb	93
35) 1,4-dioxane	11.09	88	4480	0.71	ppb	99
36) 2,2,4-trimethylpentane	10.22	57	38132	0.73	ppb	99
37) Heptane	10.64	43	11832	0.68	ppb	94
38) Trichloroethene	10.74	130	25777	0.75	ppb	99
39) 1,2-dichloropropane	10.86	63	14025	0.73	ppb	99
40) Bromodichloromethane	11.25	83	40611	0.72	ppb	99
41) cis-1,3-dichloropropene	12.15	75	17935	0.70	ppb	99
42) trans-1,3-dichloropropene	12.94	75	15273	0.69	ppb	98
43) 1,1,2-trichloroethane	13.25	97	21923	0.74	ppb	100
45) Toluene	12.98	92	25063	0.73	ppb	97
46) Methyl Isobutyl Ketone	12.11	43	12128	0.72	ppb	96
47) Dibromochloromethane	13.93	129	41004	0.74	ppb	99
48) Methyl Butyl Ketone	13.50	43	9343	0.72	ppb	98
49) 1,2-dibromoethane	14.17	107	35018	0.72	ppb	97
50) Tetrachloroethylene	14.02	164	28930	0.75	ppb	98

Data File : C:\HPCHEM\1\DATA\AH020907.D

Vial: 6

Acq On : 9 Feb 2010 20:18

Operator: RJP

Sample : ALUG_0.75

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:29:13 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	43007	0.74	ppb	99
52) Ethylbenzene	15.22	91	48853	0.69	ppb	97
53) m&p-xylene	15.42	91	92387	1.39	ppb	99
54) Styrene	15.82	104	26447	0.68	ppb	99
55) Bromoform	15.90	173	32067	0.73	ppb	99
56) o-xylene	15.84	91	52611	0.70	ppb	98
58) 1,1,2,2-tetrachloroethane	16.27	83	43181	0.75	ppb	100
59) 4-ethyltoluene	17.03	105	28676	0.68	ppb	98
60) 1,3,5-trimethylbenzene	17.09	105	47959	0.67	ppb	98
61) 1,2,4-trimethylbenzene	17.50	105	34198	0.66	ppb	100
62) 1,3-dichlorobenzene	17.75	146	42563	0.73	ppb	98
63) benzyl chloride	17.82	91	11995	0.75	ppb	95
64) 1,4-dichlorobenzene	17.87	146	40303	0.67	ppb	99
65) 1,2-dichlorobenzene	18.15	146	37756	0.70	ppb	98
66) 1,2,4-trichlorobenzene	19.77	180	17154	0.68	ppb	98
67) Hexachloro-1,3-butadiene	20.03	225	33632	0.74	ppb	97

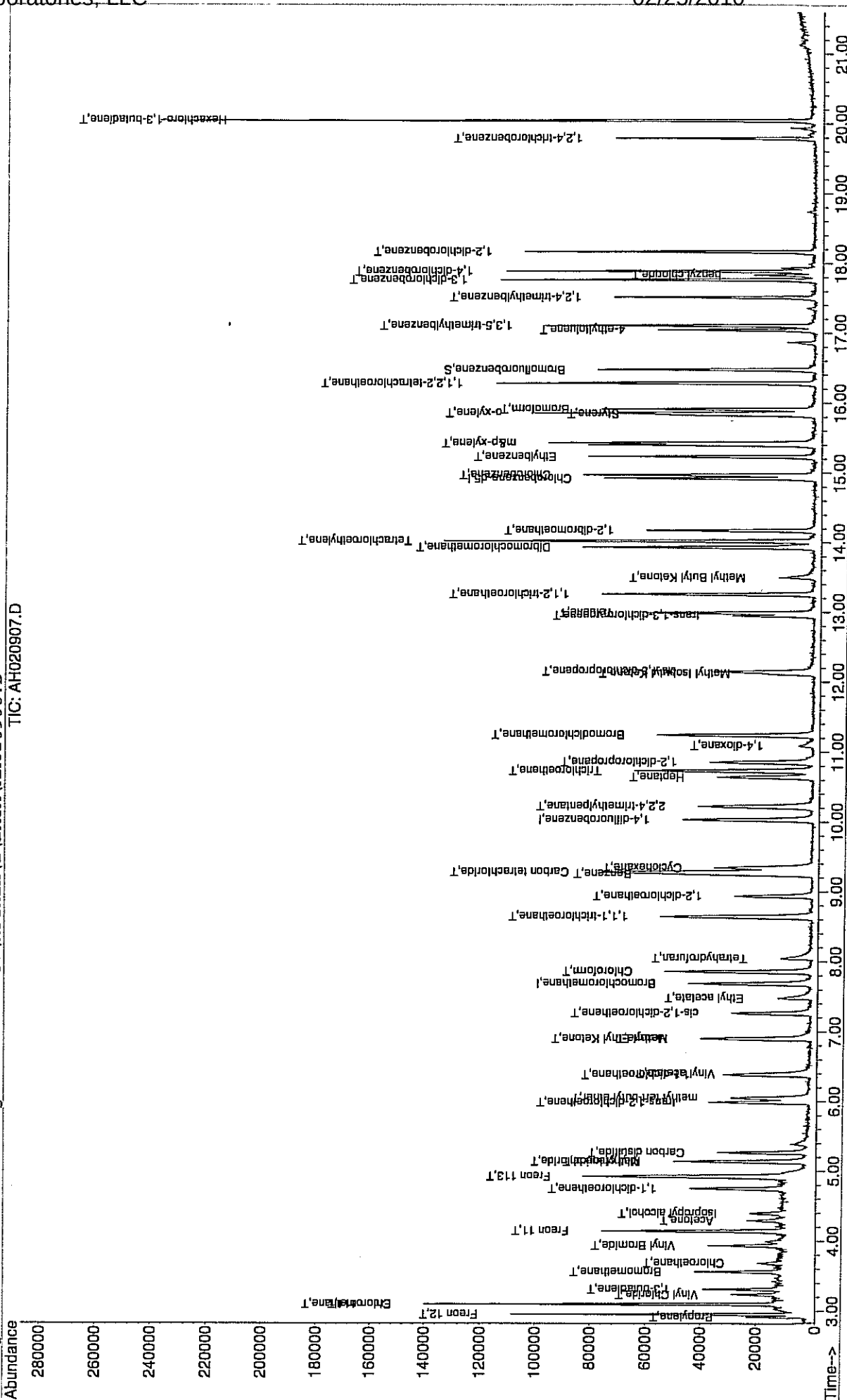
Data File : C:\HPCHEM\1\DATA\AH020907.D
Acq On : 9 Feb 2010 20:18
Sample : ALUG_0.75
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:42 2010

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020907.D



Data File : C:\HPCHEM\1\DATA\AH020908.D

Vial: 7

Acq On : 9 Feb 2010 20:50

Operator: RJP

Sample : A1UG_0.50

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:29:41 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QI	on Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	15208	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	46130	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	39741	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	19953	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

						Qvalue
2) Propylene	2.92	41	5174	0.47	ppb	88
3) Freon 12	2.97	85	44755	0.50	ppb	100
4) Chloromethane	3.10	50	9878	0.50	ppb	96
5) Freon 114	3.11	85	30769	0.50	ppb	99
6) Vinyl Chloride	3.25	62	8512	0.51	ppb	88
7) 1,3-butadiene	3.32	39	5780	0.50	ppb	92
8) Bromomethane	3.57	94	11120	0.51	ppb	99
9) Chloroethane	3.69	64	3469m	0.51	ppb	
10) Vinyl Bromide	3.95	106	11134	0.51	ppb	97
11) Freon 11	4.15	101	33140	0.50	ppb	97
12) Acetone	4.30	58	2807	0.53	ppb	96
13) Isopropyl alcohol	4.41	45	9175	0.58	ppb	99
14) 1,1-dichloroethene	4.76	96	10182	0.51	ppb	96
15) Freon 113	4.93	101	22623	0.52	ppb	98
16) Methylene chloride	5.16	84	8186m	0.38	ppb	
17) Allyl chloride	5.14	41	6622	0.44	ppb	97
18) Carbon disulfide	5.27	76	32352	0.50	ppb	98
19) trans-1,2-dichloroethene	6.00	61	13684	0.49	ppb	96
20) methyl tert-butyl ether	6.06	73	17634	0.47	ppb	98
21) 1,1-dichloroethane	6.39	63	18284	0.48	ppb	98
22) Vinyl acetate	6.42	43	11437	0.43	ppb	98
23) Methyl Ethyl Ketone	6.91	43	16338	0.48	ppb	99
24) cis-1,2-dichloroethene	7.27	61	11934	0.48	ppb	94
25) Hexane	6.91	41	8324	0.46	ppb	98
26) Ethyl acetate	7.49	43	11571	0.50	ppb	96
27) Chloroform	7.86	83	29436	0.48	ppb	100
28) Tetrahydrofuran	8.05	42	4950m	0.50	ppb	
29) 1,2-dichloroethane	8.94	62	17936	0.48	ppb	94
31) 1,1,1-trichloroethane	8.65	97	28313	0.50	ppb	98
32) Cyclohexane	9.35	56	8200	0.45	ppb	90
33) Carbon tetrachloride	9.28	117	36120	0.51	ppb	97
34) Benzene	9.25	78	26820	0.51	ppb	94
35) 1,4-dioxane	11.09	88	3187	0.51	ppb	98
36) 2,2,4-trimethylpentane	10.23	57	23282	0.45	ppb	99
37) Heptane	10.65	43	7092	0.41	ppb	94
38) Trichloroethene	10.74	130	17094	0.50	ppb	98
39) 1,2-dichloropropane	10.85	63	8948	0.47	ppb	94
40) Bromodichloromethane	11.25	83	27336	0.49	ppb	99
41) cis-1,3-dichloropropene	12.14	75	10685	0.42	ppb	97
42) trans-1,3-dichloropropene	12.94	75	9599	0.44	ppb	97
43) 1,1,2-trichloroethane	13.25	97	15413	0.52	ppb	92
45) Toluene	12.98	92	14940	0.44	ppb	100
46) Methyl Isobutyl Ketone	12.12	43	8394	0.50	ppb	96
47) Dibromochloromethane	13.93	129	26727	0.49	ppb	96
48) Methyl Butyl Ketone	13.49	43	5726	0.44	ppb	90
49) 1,2-dibromoethane	14.17	107	23207	0.48	ppb	100
50) Tetrachloroethylene	14.01	164	18910	0.49	ppb	100

Data File : C:\HPCHEM\1\DATA\AH020908.D

Vial: 7

Acq On : 9 Feb 2010 20:50

Operator: RJP

Sample : A1UG_0.50

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 21:29:41 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	27410	0.47	ppb	98
52) Ethylbenzene	15.22	91	29213	0.42	ppb	99
53) m&p-xylene	15.42	91	52946	0.81	ppb	98
54) Styrene	15.82	104	15401	0.40	ppb	98
55) Bromoform	15.90	173	19744	0.46	ppb	99
56) o-xylene	15.84	91	33319	0.45	ppb	92
58) 1,1,2,2-tetrachloroethane	16.27	83	28423	0.50	ppb	99
59) 4-ethyltoluene	17.03	105	16285	0.39	ppb	99
60) 1,3,5-trimethylbenzene	17.09	105	24755	0.35	ppb	99
61) 1,2,4-trimethylbenzene	17.50	105	19862	0.39	ppb	99
62) 1,3-dichlorobenzene	17.75	146	25824	0.45	ppb	99
63) benzyl chloride	17.82	91	7446	0.47	ppb	92
64) 1,4-dichlorobenzene	17.87	146	23887	0.40	ppb	98
65) 1,2-dichlorobenzene	18.15	146	23579	0.44	ppb	98
66) 1,2,4-trichlorobenzene	19.77	180	10725	0.43	ppb	99
67) Hexachloro-1,3-butadiene	20.03	225	22133	0.49	ppb	99

Data File : C:\HPCHEM\1\DATA\AH020908.D
Acq On : 9 Feb 2010 20:50
Sample : ALUG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:43 2010

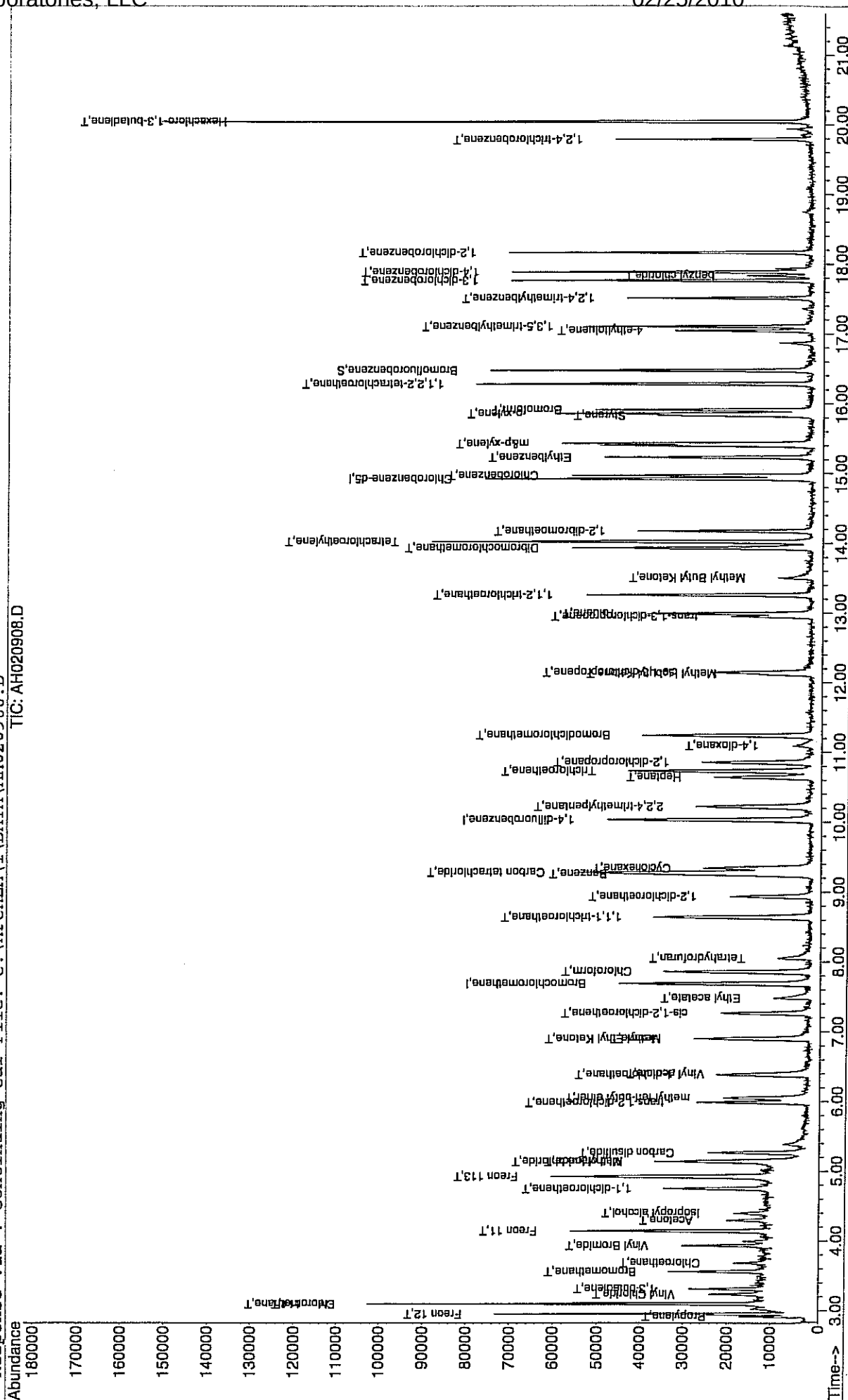
Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020908.D



Data File : C:\HPCHEM\1\DATA\AH020909.D

Vial: 8

Acq On : 9 Feb 2010 21:23

Operator: RJP

Sample : ALUG_0.30

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 22:20:08 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14650	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	45481	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	37708	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	16960	0.85	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	85.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	3402	0.32	ppb	84
3) Freon 12	2.97	85	28291	0.33	ppb	99
4) Chloromethane	3.11	50	6087	0.32	ppb	99
5) Freon 114	3.11	85	19346	0.33	ppb	95
6) Vinyl Chloride	3.25	62	5744	0.35	ppb	88
7) 1,3-butadiene	3.33	39	4214	0.38	ppb	94
8) Bromomethane	3.57	94	7177	0.34	ppb	96
9) Chloroethane	3.70	64	2551m ¹⁰	0.39	ppb	
10) Vinyl Bromide	3.95	106	7046	0.33	ppb	96
11) Freon 11	4.15	101	20919	0.33	ppb	97
12) Acetone	4.31	58	1837	0.36	ppb	96
13) Isopropyl alcohol	4.41	45	4967	0.33	ppb	87
14) 1,1-dichloroethene	4.76	96	6315	0.33	ppb	97
15) Freon 113	4.94	101	14398	0.34	ppb	99
16) Methylene chloride	5.16	84	5969m ¹⁰	0.29	ppb	
17) Allyl chloride	5.14	41	4315	0.30	ppb	94
18) Carbon disulfide	5.28	76	20063	0.32	ppb	99
19) trans-1,2-dichloroethene	6.01	61	8342	0.31	ppb	91
20) methyl tert-butyl ether	6.06	73	10314	0.28	ppb	97
21) 1,1-dichloroethane	6.39	63	12030	0.33	ppb	95
22) Vinyl acetate	6.42	43	7830m ¹¹	0.31	ppb	
23) Methyl Ethyl Ketone	6.91	43	10309	0.32	ppb	93
24) cis-1,2-dichloroethene	7.28	61	7558	0.32	ppb	99
25) Hexane	6.92	41	5067	0.29	ppb	95
26) Ethyl acetate	7.50	43	7216	0.32	ppb	96
27) Chloroform	7.87	83	18522	0.31	ppb	100
28) Tetrahydrofuran	8.06	42	2642	0.27	ppb	97
29) 1,2-dichloroethane	8.94	62	11279	0.31	ppb	96
31) 1,1,1-trichloroethane	8.65	97	17679	0.32	ppb	100
32) Cyclohexane	9.35	56	4711	0.26	ppb	# 85
33) Carbon tetrachloride	9.28	117	22438	0.32	ppb	100
34) Benzene	9.25	78	17004	0.33	ppb	94
35) 1,4-dioxane	11.10	88	1931	0.31	ppb	96
36) 2,2,4-trimethylpentane	10.22	57	14428	0.28	ppb	97
37) Heptane	10.64	43	4333	0.25	ppb	96
38) Trichloroethene	10.74	130	10666	0.32	ppb	98
39) 1,2-dichloropropane	10.85	63	5830	0.31	ppb	97
40) Bromodichloromethane	11.24	83	16507	0.30	ppb	98
41) cis-1,3-dichloropropene	12.14	75	6171	0.25	ppb	98
42) trans-1,3-dichloropropene	12.94	75	5705	0.26	ppb	94
43) 1,1,2-trichloroethane	13.25	97	9415	0.32	ppb	94
45) Toluene	12.98	92	8984	0.28	ppb	93
46) Methyl Isobutyl Ketone	12.12	43	4885	0.31	ppb	98
47) Dibromochloromethane	13.93	129	16644	0.32	ppb	99
48) Methyl Butyl Ketone	13.50	43	4055m ¹¹	0.33	ppb	
49) 1,2-dibromoethane	14.17	107	14299	0.31	ppb	98
50) Tetrachloroethylene	14.01	164	11983	0.33	ppb	99

Data File : C:\HPCHEM\1\DATA\AH020909.D

Vial: 8

Acq On : 9 Feb 2010 21:23

Operator: RJP

Sample : A1UG_0.30

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 09 22:20:08 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	17030	0.31	ppb	100
52) Ethylbenzene	15.22	91	16600	0.25	ppb	98
53) m&p-xylene	15.41	91	28045	0.45	ppb	97
54) Styrene	15.82	104	8601	0.24	ppb	93
55) Bromoform	15.90	173	11728	0.29	ppb	100
56) o-xylene	15.84	91	15043	0.21	ppb	100
58) 1,1,2,2-tetrachloroethane	16.27	83	16692	0.31	ppb	98
59) 4-ethyltoluene	17.03	105	9055	0.23	ppb	95
60) 1,3,5-trimethylbenzene	17.09	105	13155m/	0.20	ppb	
61) 1,2,4-trimethylbenzene	17.50	105	13286m/	0.27	ppb	
62) 1,3-dichlorobenzene	17.75	146	14225	0.26	ppb	99
63) benzyl chloride	17.82	91	4194	0.28	ppb	96
64) 1,4-dichlorobenzene	17.87	146	13498	0.24	ppb	98
65) 1,2-dichlorobenzene	18.15	146	13150	0.26	ppb	99
66) 1,2,4-trichlorobenzene	19.77	180	6128	0.26	ppb	97
67) Hexachloro-1,3-butadiene	20.03	225	13137	0.31	ppb	97

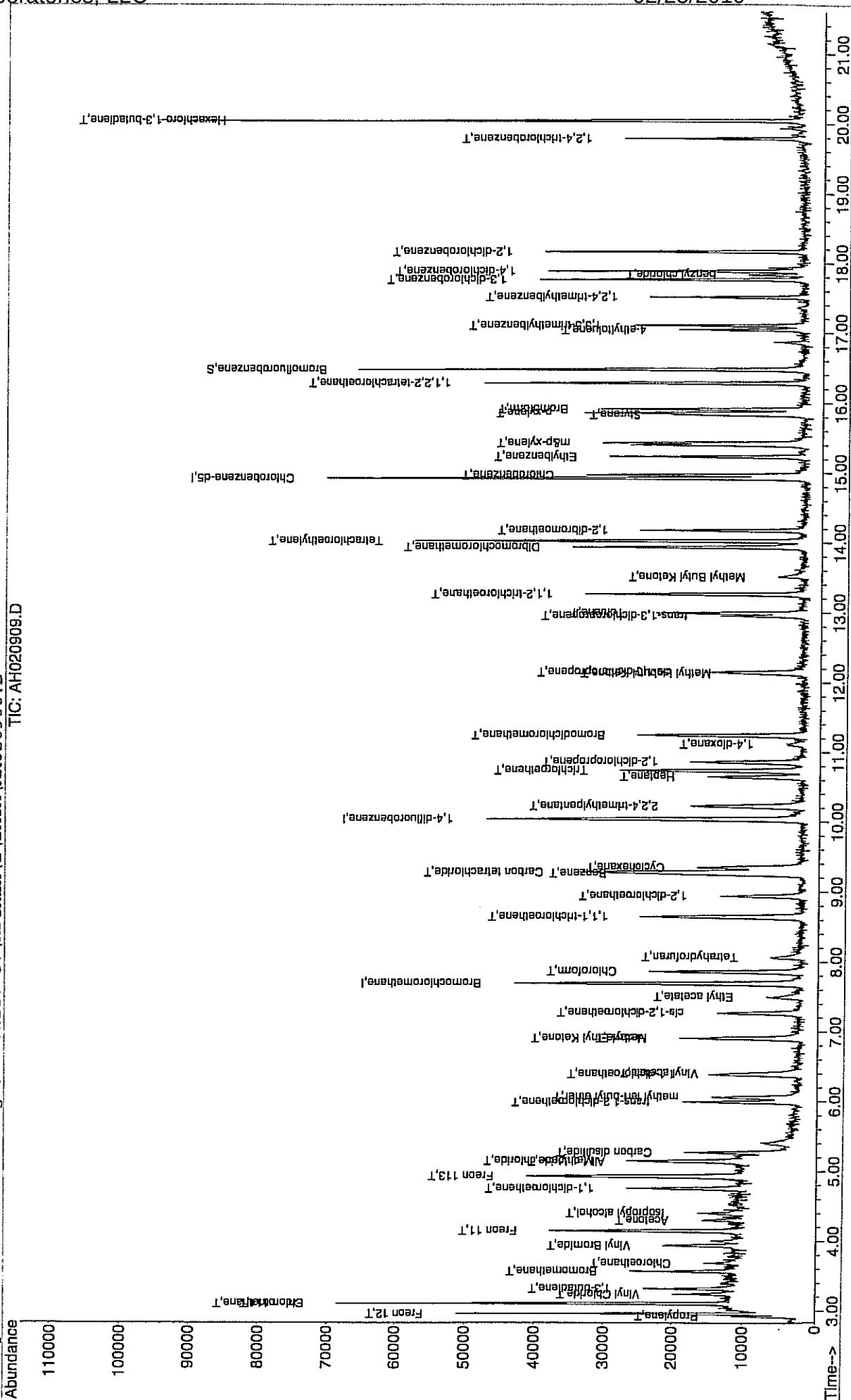
Data File : C:\HPCHEM\1\DATA\AH020909.D
Acq On : 9 Feb 2010 21:23
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:45 2010

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020909.D



Data File : C:\HPCHEM\1\DATA\AH020910.D

Vial: 9

Acq On : 9 Feb 2010 21:55

Operator: RJP

Sample : A1UG_0.15

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 10 07:14:54 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14342	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.03	114	41962	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	34459	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	13719	0.75	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	1996	0.19	ppb	86
3) Freon 12	2.97	85	16434	0.19	ppb	97
4) Chloromethane	3.11	50	3622	0.19	ppb	98
5) Freon 114	3.11	85	10994	0.19	ppb	98
6) Vinyl Chloride	3.25	62	2946	0.19	ppb	66
7) 1,3-butadiene	3.33	39	1920m	0.18	ppb	
8) Bromomethane	3.58	94	4901	0.24	ppb	85
9) Chloroethane	3.70	64	1415m	0.22	ppb	
10) Vinyl Bromide	3.95	106	3983	0.19	ppb	100
11) Freon 11	4.15	101	11583	0.19	ppb	96
13) Isopropyl alcohol	4.42	45	2543m	0.17	ppb	
14) 1,1-dichloroethene	4.77	96	3670	0.19	ppb	89
15) Freon 113	4.93	101	10633	0.26	ppb	98
16) Methylene chloride	5.15	84	3823	0.19	ppb	89
17) Allyl chloride	5.15	41	2314	0.16	ppb	90
18) Carbon disulfide	5.27	76	11661	0.19	ppb	97
19) trans-1,2-dichloroethene	6.00	61	4511	0.17	ppb	91
20) methyl tert-butyl ether	6.06	73	5264	0.15	ppb	98
21) 1,1-dichloroethane	6.39	63	6252	0.17	ppb	96
22) Vinyl acetate	6.42	43	3266	0.13	ppb	96
23) Methyl Ethyl Ketone	6.92	43	5106	0.16	ppb	95
24) cis-1,2-dichloroethene	7.27	61	3803	0.16	ppb	91
25) Hexane	6.92	41	2463	0.14	ppb	96
26) Ethyl acetate	7.52	43	3666	0.17	ppb	90
27) Chloroform	7.86	83	10444	0.18	ppb	96
29) 1,2-dichloroethane	8.94	62	5983	0.17	ppb	90
31) 1,1,1-trichloroethane	8.65	97	9808	0.19	ppb	98
32) Cyclohexane	9.35	56	2430	0.15	ppb	# 71
33) Carbon tetrachloride	9.29	117	12293	0.19	ppb	98
34) Benzene	9.26	78	7945	0.17	ppb	97
36) 2,2,4-trimethylpentane	10.23	57	7305	0.15	ppb	94
37) Heptane	10.65	43	2354	0.15	ppb	94
38) Trichloroethene	10.74	130	5534	0.18	ppb	100
39) 1,2-dichloropropane	10.86	63	3179	0.18	ppb	99
40) Bromodichloromethane	11.24	83	9162	0.18	ppb	100
41) cis-1,3-dichloropropene	12.15	75	3193	0.14	ppb	97
42) trans-1,3-dichloropropene	12.94	75	2905	0.14	ppb	94
43) 1,1,2-trichloroethane	13.25	97	4889	0.18	ppb	100
45) Toluene	12.98	92	4298	0.15	ppb	96
47) Dibromochloromethane	13.93	129	8801	0.19	ppb	99
49) 1,2-dibromoethane	14.17	107	7521	0.18	ppb	99
50) Tetrachloroethylene	14.01	164	6462	0.19	ppb	98
51) Chlorobenzene	14.96	112	9159	0.18	ppb	98
52) Ethylbenzene	15.22	91	7929	0.13	ppb	99
53) m&p-xylene	15.42	91	12539	0.22	ppb	97
54) Styrene	15.82	104	3991	0.12	ppb	94
55) Bromoform	15.90	173	6602	0.18	ppb	97

Data File : C:\HPCHEM\1\DATA\AH020910.D

Vial: 9

Acq On : 9 Feb 2010 21:55

Operator: RJP

Sample : A1UG_0.15

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 10 07:14:54 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56) o-xylene	15.84	91	7963	0.12	ppb	92
58) 1,1,2,2-tetrachloroethane	16.27	83	8275	0.17	ppb	97
59) 4-ethyltoluene	17.03	105	4286	0.12	ppb	93
60) 1,3,5-trimethylbenzene	17.09	105	6530m ⁹	0.11	ppb	
61) 1,2,4-trimethylbenzene	17.49	105	6407m ⁹	0.14	ppb	
62) 1,3-dichlorobenzene	17.75	146	7149	0.14	ppb	99
63) benzyl chloride	17.82	91	2135	0.16	ppb	98
64) 1,4-dichlorobenzene	17.88	146	6206	0.12	ppb	98
65) 1,2-dichlorobenzene	18.15	146	6238	0.13	ppb	97
66) 1,2,4-trichlorobenzene	19.77	180	3292	0.15	ppb	90
67) Hexachloro-1,3-butadiene	20.03	225	7368	0.19	ppb	99

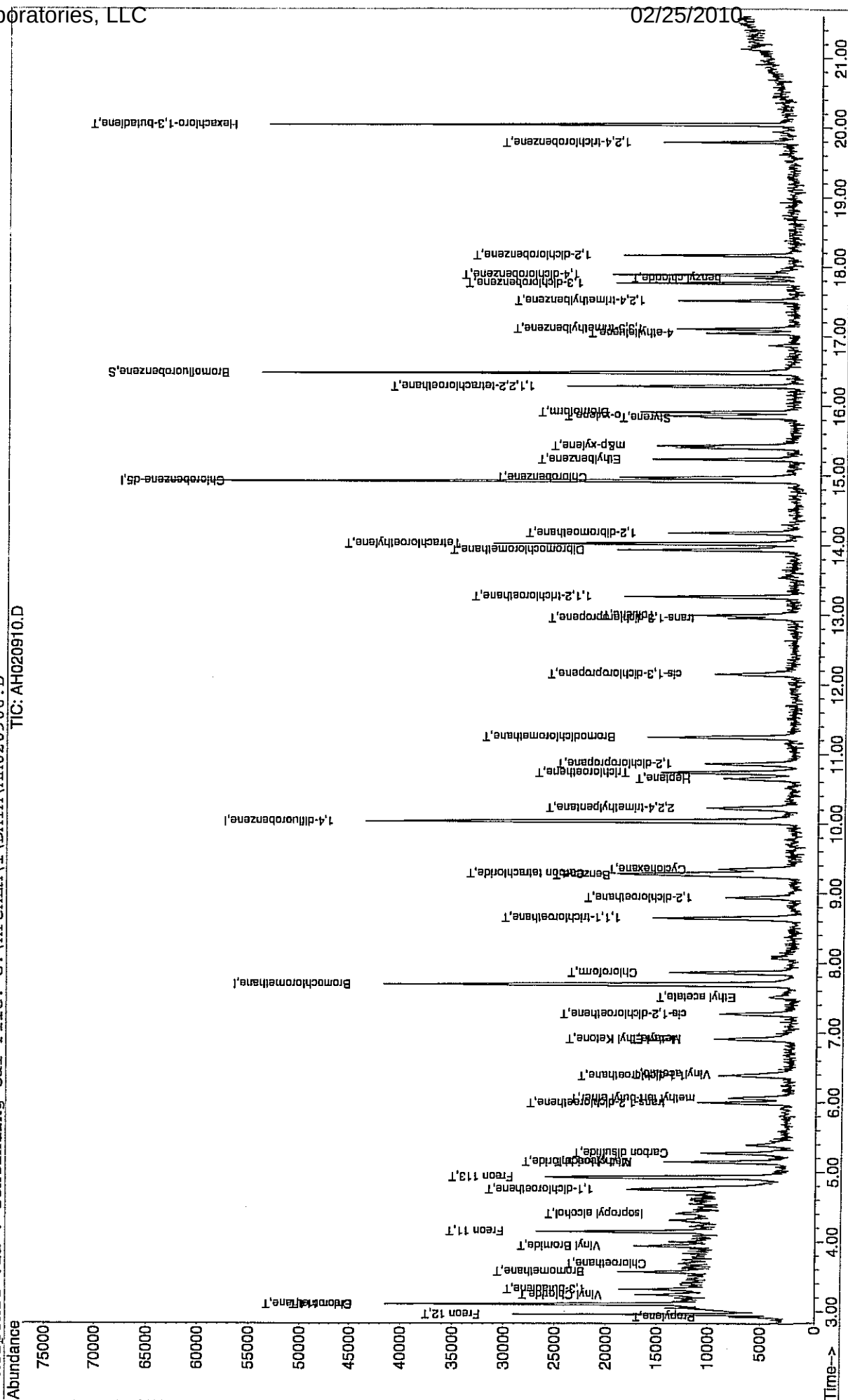
Data File : C:\HPCHEM\1\DATA\AH020910.D
Acq On : 9 Feb 2010 21:55
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:47 2010

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020910.D



Data File : C:\HPCHEM\1\DATA\AH020911.D

Vial: 10

Acq On : 9 Feb 2010 22:27

Operator: RJP

Sample : ALUG_0.10

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 10 07:15:24 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14396	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	43409	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	36061	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	14848	0.78	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	78.00%

Target Compounds

						Qvalue
6) Vinyl Chloride	3.25	62	1673	0.10	ppb	58
33) Carbon tetrachloride	9.28	117	7051	0.11	ppb	99
38) Trichloroethene	10.73	130	3089	0.10	ppb	94

Data File : C:\HPCHEM\1\DATA\AH020911.D
Acq On : 9 Feb 2010 22:27
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:48 2010

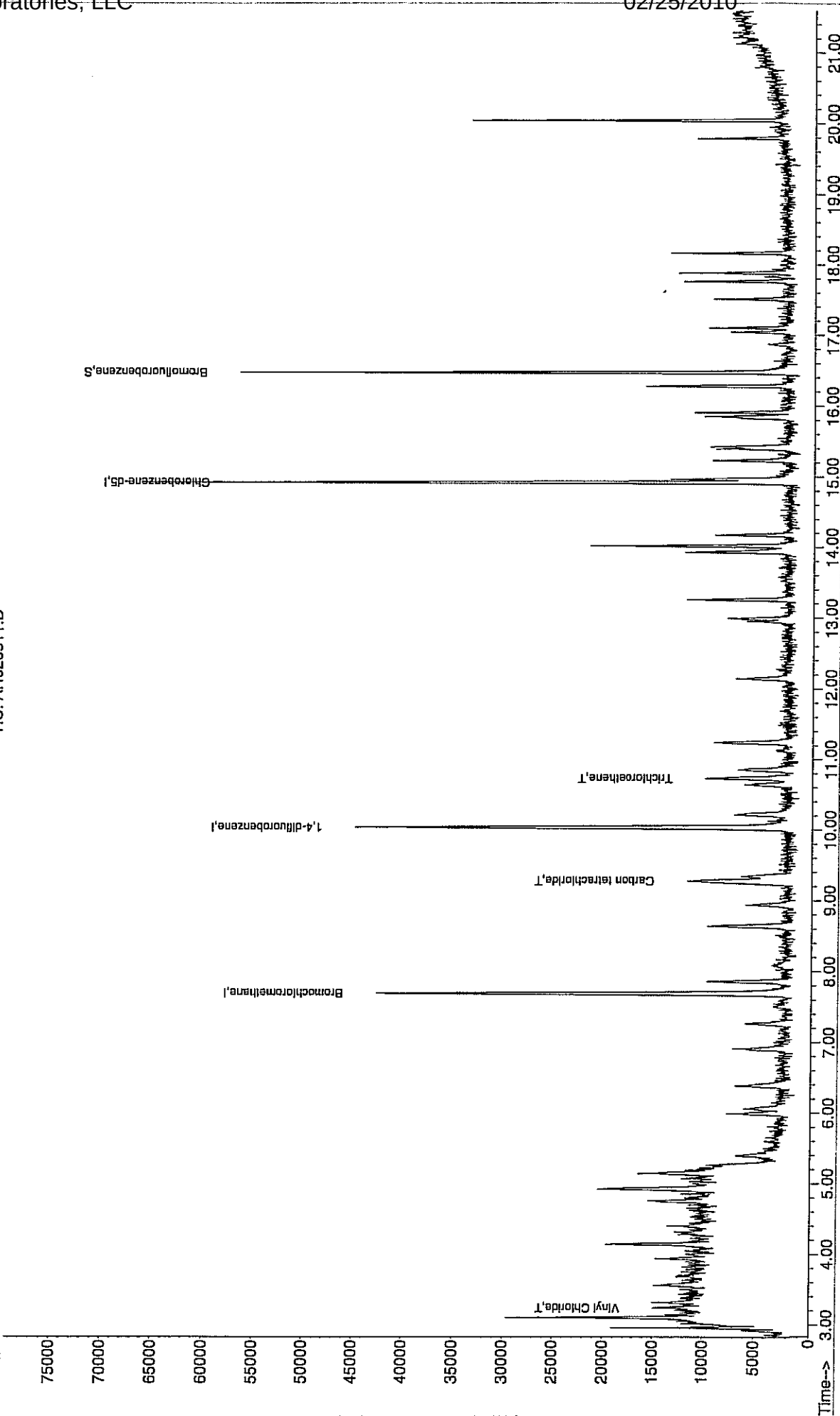
Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020911.D

Abundance



Data File : C:\HPCHEM\1\DATA\AH020915.D

Vial: 14

Acq On : 10 Feb 2010 00:33

Operator: RJP

Sample : A1UG_0.04

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 10 00:54:56 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Feb 09 21:27:13 2010

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13821	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.03	114	42070	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	34691	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	13680	0.74	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	74.00%

Target Compounds

						Qvalue
33) Carbon tetrachloride	9.29	117	3950	0.06	ppb	96
38) Trichloroethene	10.73	130	1766	0.06	ppb	99

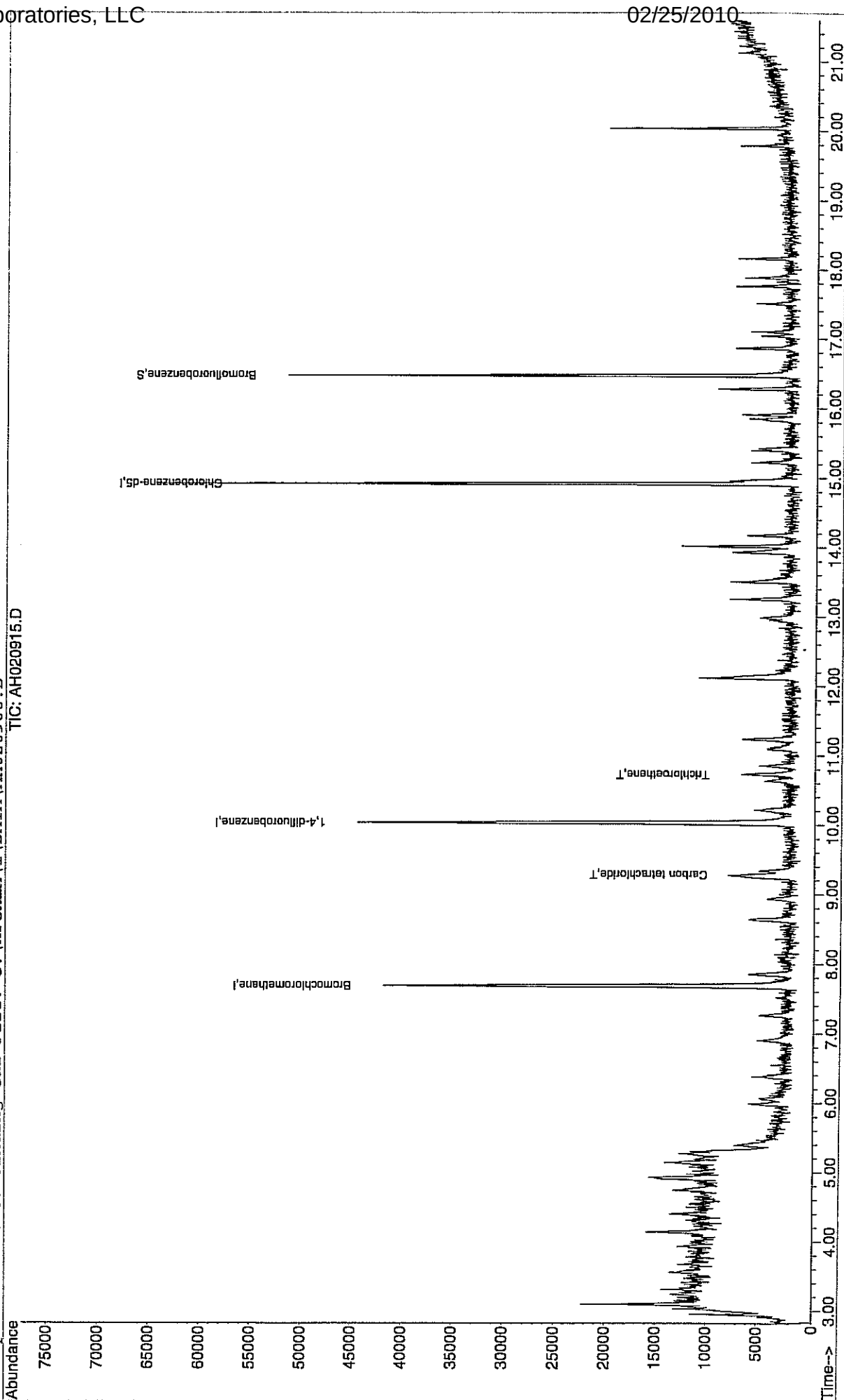
Data File : C:\HPCHEM\1\DATA\AH020915.D
Acq On : 10 Feb 2010 00:33
Sample : ALUG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Feb 10 9:49 2010

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 15 11:47:59 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH020906.D

TIC: AH020915.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Data File : C:\HPCHEM\1\DATA\AH030302.D

Vial: 2

Acq On : 3 Mar 2010 12:24

Operator: RJP

Sample : ALUG_1.0

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 22 13:10:31 2010

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)
1 I	Bromochloromethane	1.000	1.000	0.0	81	0.00
2 T	Propylene	0.733	0.617	15.8	69	0.00
3 T	Freon 12	6.081	6.657	-9.5	91	0.00
4 T	Chloromethane	1.296	1.403	-8.3	88	0.00
5 T	Freon 114	4.087	4.482	-9.7	91	0.00
6 T	Vinyl Chloride	1.135	1.170	-3.1	86	0.00
7 T	1,3-butadiene	0.782	0.735	6.0	79	0.00
8 T	Bromomethane	1.541	1.482	3.8	84	0.00
9 T	Chloroethane	0.484	0.463	4.3	85	0.00
10 T	Vinyl Bromide	1.481	1.311	11.5	74	0.00
11 T	Freon 11	4.428	4.554	-2.8	86	0.00
12 T	Acetone	0.366	0.393	-7.4	92	0.00
13 T	Isopropyl alcohol	1.076	0.868	19.3	68	0.00
14 T	1,1-dichloroethene	1.361	1.304	4.2	80	0.00
15 T	Freon 113	3.363	3.112	7.5	88	0.00
16 T	Methylene chloride	1.384	1.128	18.5	64	0.00
17 T	Allyl chloride	0.961	0.940	2.2	78	0.00
18 T	Carbon disulfide	4.355	3.298	24.3	63	0.00
19 T	trans-1,2-dichloroethene	1.829	1.726	5.6	77	0.00
20 T	methyl tert-butyl ether	2.451	1.824	25.6	60	0.00
21 T	1,1-dichloroethane	2.530	2.529	0.0	82	0.00
22 T	Vinyl acetate	1.676	1.433	14.5	67	0.00
23 T	Methyl Ethyl Ketone	2.249	2.126	5.5	77	0.00
24 T	cis-1,2-dichloroethene	1.649	1.438	12.8	72	0.00
25 T	Hexane	1.154	1.139	1.3	77	0.00
26 T	Ethyl acetate	1.606	1.451	9.7	77	0.00
27 T	Chloroform	4.054	4.148	-2.3	84	0.00
28 T	Tetrahydrofuran	0.651	0.462	29.0	57	0.00
29 T	1,2-dichloroethane	2.468	2.432	1.5	80	0.00
30 I	1,4-difluorobenzene	1.000	1.000	0.0	54	0.00
31 T	1,1,1-trichloroethane	1.281	1.653	-29.0	73	0.00
32 T	Cyclohexane	0.386	0.422	-9.3	58	0.00
33 T	Carbon tetrachloride	1.686	2.147	-27.3	75	0.00
34 T	Benzene	1.187	1.440	-21.3	69	0.00
35 T	1,4-dioxane	0.144	0.104	27.8	42#	0.00
36 T	2,2,4-trimethylpentane	1.118	1.178	-5.4	57	0.00
37 T	Heptane	0.360	0.405	-12.5	59	0.00
38 T	Trichloroethene	0.790	1.005	-27.2	74	0.00
39 T	1,2-dichloropropane	0.420	0.524	-24.8	69	0.00
40 T	Bromodichloromethane	1.225	1.512	-23.4	68	0.00
41 T	cis-1,3-dichloropropene	0.531	0.588	-10.7	58	0.00
42 T	trans-1,3-dichloropropene	0.465	0.512	-10.1	58	0.00
43 T	1,1,2-trichloroethane	0.667	0.832	-24.7	71	0.00
44 I	Chlorobenzene-d5	1.000	1.000	0.0	57	0.00
45 T	Toluene	0.868	0.838	3.5	55	0.00
46 T	Methyl Isobutyl Ketone	0.429	0.323	24.7	44#	0.00
47 T	Dibromochloromethane	1.428	1.764	-23.5	73	0.00
48 T	Methyl Butyl Ketone	0.321	0.289	10.0	51	0.00
49 T	1,2-dibromoethane	1.241	1.536	-23.8	72	0.00
50 T	Tetrachloroethylene	1.008	1.229	-21.9	72	0.00
51 T	Chlorobenzene	1.507	1.605	-6.5	63	0.00
52 T	Ethylbenzene	1.730	1.576	8.9	50	0.00
53 T	m&p-xylene	1.537	1.532	0.3	53	0.00

Data File : C:\HPCHEM\1\DATA\AH030302.D

Vial: 2

Acq On : 3 Mar 2010 12:24

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 22 13:10:31 2010

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)
54 T	Styrene	0.943	0.816	13.5	48#	0.00
55 T	Bromoform	1.101	1.721	-56.3#	90	0.00
56 T	o-xylene	1.778	1.659	6.7	50	0.00
57 S	Bromofluorobenzene	0.483	0.466	3.5	50#	0.00
58 T	1,1,2,2-tetrachloroethane	1.457	1.805	-23.9	71	0.00
59 T	4-ethyltoluene	1.056	0.966	8.5	52	0.00
60 T	1,3,5-trimethylbenzene	1.642	1.304	20.6	42#	0.00
61 T	1,2,4-trimethylbenzene	1.332	1.056	20.7	46#	0.00
62 T	1,3-dichlorobenzene	1.429	1.420	0.6	55	0.00
63 T	benzyl chloride	0.413	0.679	-64.4#	97	0.00
64 T	1,4-dichlorobenzene	1.400	1.397	0.2	53	0.00
65 T	1,2-dichlorobenzene	1.303	1.227	5.8	52	0.00
66 T	1,2,4-trichlorobenzene	0.618	0.538	12.9	49#	0.00
67 T	Hexachloro-1,3-butadiene	1.184	1.355	-14.4	68	0.00

Data File : C:\HPCHEM\1\DATA\AH030302.D

Acq On : 3 Mar 2010 12:24

Sample : ALUG_1.0

Misc :

MS Integration Params: RTEINT.P

Quant Time: Mar 03 12:46:20 2010

Vial: 2

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	12157	1.00	ppb	0.02
30) 1,4-difluorobenzene	10.06	114	25520	1.00	ppb	0.01
44) Chlorobenzene-d5	14.92	117	23440	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	10912	0.96	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	7505	0.84	ppb	94
3) Freon 12	2.97	85	80926	1.09	ppb	100
4) Chloromethane	3.12	50	17060	1.08	ppb	99
5) Freon 114	3.12	85	54492	1.10	ppb	97
6) Vinyl Chloride	3.26	62	14228	1.03	ppb	97
7) 1,3-butadiene	3.33	39	8931	0.94	ppb	88
8) Bromomethane	3.58	94	18017	0.96	ppb	99
9) Chloroethane	3.71	64	5625	0.96	ppb	98
10) Vinyl Bromide	3.95	106	15932	0.88	ppb	99
11) Freon 11	4.16	101	55361	1.03	ppb	99
12) Acetone	4.33	58	4776	1.07	ppb	92
13) Isopropyl alcohol	4.44	45	10557m	0.81	ppb	
14) 1,1-dichloroethene	4.78	96	15857	0.96	ppb	100
15) Freon 113	4.95	101	37829	0.93	ppb	98
16) Methylene chloride	5.17	84	13719	0.82	ppb	100
17) Allyl chloride	5.16	41	11429	0.98	ppb	95
18) Carbon disulfide	5.30	76	40093m	0.76	ppb	
19) trans-1,2-dichloroethene	6.02	61	20983	0.94	ppb	100
20) methyl tert-butyl ether	6.08	73	22174m	0.74	ppb	
21) 1,1-dichloroethane	6.41	63	30741	1.00	ppb	94
22) Vinyl acetate	6.44	43	17420	0.85	ppb	100
23) Methyl Ethyl Ketone	6.92	43	25845	0.95	ppb	94
24) cis-1,2-dichloroethene	7.29	61	17483	0.87	ppb	99
25) Hexane	6.93	41	13842	0.99	ppb	89
26) Ethyl acetate	7.51	43	17642	0.90	ppb	100
27) Chloroform	7.88	83	50433	1.02	ppb	99
28) Tetrahydrofuran	8.08	42	5613	0.71	ppb	99
29) 1,2-dichloroethane	8.96	62	29569	0.99	ppb	92
31) 1,1,1-trichloroethane	8.67	97	42182m	1.29	ppb	
32) Cyclohexane	9.37	56	10761	1.09	ppb	# 82
33) Carbon tetrachloride	9.30	117	54802m	1.27	ppb	
34) Benzene	9.27	78	36749	1.21	ppb	96
35) 1,4-dioxane	11.12	88	2653	0.72	ppb	86
36) 2,2,4-trimethylpentane	10.25	57	30054	1.05	ppb	91
37) Heptane	10.66	43	10345	1.13	ppb	98
38) Trichloroethene	10.75	130	25641	1.27	ppb	97
39) 1,2-dichloropropane	10.88	63	13363m	1.25	ppb	
40) Bromodichloromethane	11.26	83	38579m	1.23	ppb	
41) cis-1,3-dichloropropene	12.16	75	15002	1.11	ppb	99
42) trans-1,3-dichloropropene	12.96	75	13061	1.10	ppb	95
43) 1,1,2-trichloroethane	13.26	97	21222m	1.25	ppb	
45) Toluene	13.00	92	19647	0.97	ppb	99
46) Methyl Isobutyl Ketone	12.14	43	7582m	0.75	ppb	
47) Dibromochloromethane	13.94	129	41351	1.24	ppb	100
48) Methyl Butyl Ketone	13.52	43	6779m	0.90	ppb	
49) 1,2-dibromoethane	14.18	107	36012	1.24	ppb	99
50) Tetrachloroethylene	14.03	164	28819	1.22	ppb	100

Data File : C:\HPCHEM\1\DATA\AH030302.D

Acq On : 3 Mar 2010 12:24

Sample : ALUG_1.0

Misc :

Vial: 2

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 12:46:20 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.97	112	37614	1.06	ppb	99
52) Ethylbenzene	15.23	91	36941	0.91	ppb	99
53) m&p-xylene	15.43	91	71836	1.99	ppb	99
54) Styrene	15.83	104	19118	0.86	ppb	99
55) Bromoform	15.91	173	40346	1.56	ppb	100
56) o-xylene	15.86	91	38885	0.93	ppb	100
58) 1,1,2,2-tetrachloroethane	16.28	83	42308m	1.24	ppb	
59) 4-ethyltoluene	17.04	105	22632	0.91	ppb	98
60) 1,3,5-trimethylbenzene	17.10	105	30567	0.79	ppb	100
61) 1,2,4-trimethylbenzene	17.51	105	24755m	0.79	ppb	
62) 1,3-dichlorobenzene	17.76	146	33280	0.99	ppb	100
63) benzyl chloride	17.83	91	15923	1.65	ppb	98
64) 1,4-dichlorobenzene	17.88	146	32751	1.00	ppb	98
65) 1,2-dichlorobenzene	18.16	146	28767	0.94	ppb	98
66) 1,2,4-trichlorobenzene	19.78	180	12600	0.87	ppb	98
67) Hexachloro-1,3-butadiene	20.04	225	31754	1.14	ppb	100

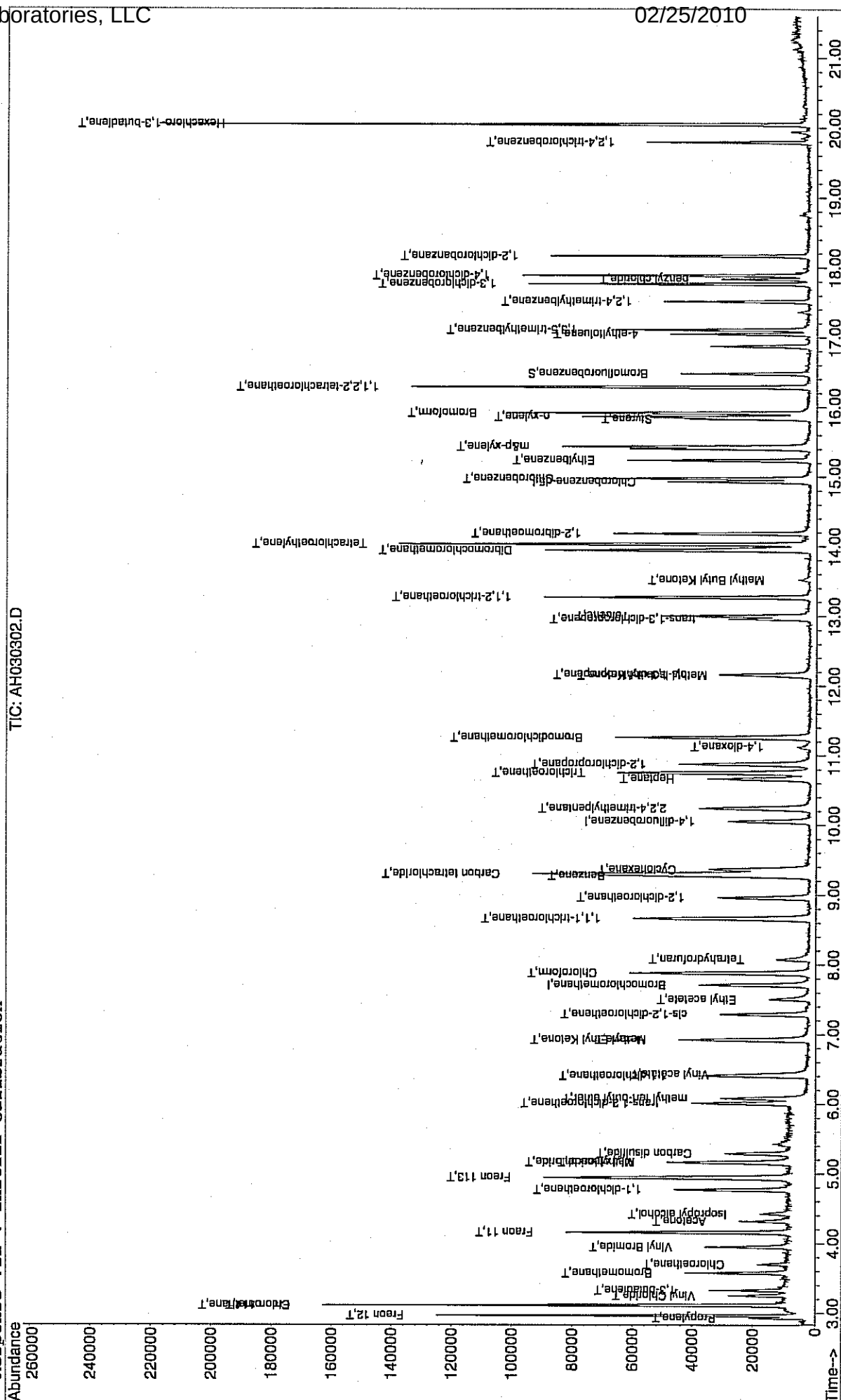
Data File : C:\HPCHEM\1\DATA\AH030302.D
Acq On : 3 Mar 2010 12:24
Sample : ALUG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 16:14 2010

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:31 2010
Response via : Initial Calibration

TIC: AH030302.D



Data File : C:\HPCHEM\1\DATA\AH030402.D

Vial: 2

Acq On : 4 Mar 2010 13:43

Operator: RJP

Sample : ALUG

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 22 13:10:31 2010

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)
1 I	Bromochloromethane	1.000	1.000	0.0	86	0.00
2 T	Propylene	0.733	0.563	23.2	66	0.00
3 T	Freon 12	6.081	6.361	-4.6	92	0.00
4 T	Chloromethane	1.296	1.308	-0.9	87	0.00
5 T	Freon 114	4.087	4.092	-0.1	88	0.00
6 T	Vinyl Chloride	1.135	1.066	6.1	83	0.00
7 T	1,3-butadiene	0.782	0.650	16.9	74	0.00
8 T	Bromomethane	1.541	1.512	1.9	91	0.00
9 T	Chloroethane	0.484	0.478	1.2	93	0.00
10 T	Vinyl Bromide	1.481	1.342	9.4	80	0.00
11 T	Freon 11	4.428	4.537	-2.5	90	0.00
12 T	Acetone	0.366	0.378	-3.3	94	0.00
13 T	Isopropyl alcohol	1.076	0.827	23.1	68	0.00
14 T	1,1-dichloroethene	1.361	1.265	7.1	82	0.00
15 T	Freon 113	3.363	3.059	9.0	91	0.00
16 T	Methylene chloride	1.384	1.034	25.3	63	0.00
17 T	Allyl chloride	0.961	0.808	15.9	71	0.00
18 T	Carbon disulfide	4.355	3.126	28.2	63	0.00
19 T	trans-1,2-dichloroethene	1.829	1.487	18.7	70	0.00
20 T	methyl tert-butyl ether	2.451	1.749	28.6	61	0.00
21 T	1,1-dichloroethane	2.530	2.312	8.6	80	0.00
22 T	Vinyl acetate	1.676	1.669	0.4	83	0.00
23 T	Methyl Ethyl Ketone	2.249	1.766	21.5	68	0.00
24 T	cis-1,2-dichloroethene	1.649	1.237	25.0	66	0.00
25 T	Hexane	1.154	0.955	17.2	68	0.00
26 T	Ethyl acetate	1.606	1.182	26.4	66	0.00
27 T	Chloroform	4.054	3.954	2.5	85	0.00
28 T	Tetrahydrofuran	0.651	0.625	4.0	82	0.00
29 T	1,2-dichloroethane	2.468	2.223	9.9	78	0.00
30 I	1,4-difluorobenzene	1.000	1.000	0.0	61	0.00
31 T	1,1,1-trichloroethane	1.281	1.652	-29.0	82	0.00
32 T	Cyclohexane	0.386	0.333	13.7	51	0.00
33 T	Carbon tetrachloride	1.686	2.244	-33.1#	88	0.00
34 T	Benzene	1.187	1.373	-15.7	74	0.00
35 T	1,4-dioxane	0.144	0.108	25.0	48#	0.00
36 T	2,2,4-trimethylpentane	1.118	0.944	15.6	51	0.00
37 T	Heptane	0.360	0.293	18.6	47#	0.00
38 T	Trichloroethene	0.790	0.945	-19.6	78	0.00
39 T	1,2-dichloropropane	0.420	0.487	-16.0	72	0.00
40 T	Bromodichloromethane	1.225	1.520	-24.1	77	0.00
41 T	cis-1,3-dichloropropene	0.531	0.489	7.9	54	0.00
42 T	trans-1,3-dichloropropene	0.465	0.447	3.9	57	0.00
43 T	1,1,2-trichloroethane	0.667	0.860	-28.9	82	0.00
44 I	Chlorobenzene-d5	1.000	1.000	0.0	62	0.00
45 T	Toluene	0.868	0.764	12.0	55	0.00
46 T	Methyl Isobutyl Ketone	0.429	0.326	24.0	48#	0.00
47 T	Dibromochloromethane	1.428	1.698	-18.9	77	0.00
48 T	Methyl Butyl Ketone	0.321	0.264	17.8	50	0.00
49 T	1,2-dibromoethane	1.241	1.417	-14.2	73	0.00
50 T	Tetrachloroethylene	1.008	1.223	-21.3	79	0.00
51 T	Chlorobenzene	1.507	1.454	3.5	62	0.00
52 T	Ethylbenzene	1.730	1.418	18.0	50#	0.00
53 T	m&p-xylene	1.537	1.324	13.9	50#	0.00

Data File : C:\HPCHEM\1\DATA\AH030402.D

Vial: 2

Acq On : 4 Mar 2010 13:43

Operator: RJP

Sample : A1UG

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 22 13:10:31 2010

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)
54 T	Styrene	0.943	0.768	18.6	50#	0.00
55 T	Bromoform	1.101	1.689	-53.4#	96	0.00
56 T	o-xylene	1.778	1.490	16.2	49#	0.00
57 S	Bromofluorobenzene	0.483	0.438	9.3	51	0.00
58 T	1,1,2,2-tetrachloroethane	1.457	1.836	-26.0	79	0.00
59 T	4-ethyltoluene	1.056	0.853	19.2	51	0.00
60 T	1,3,5-trimethylbenzene	1.642	1.164	29.1	41#	0.00
61 T	1,2,4-trimethylbenzene	1.332	1.045	21.5	50	0.00
62 T	1,3-dichlorobenzene	1.429	1.269	11.2	54	0.00
63 T	benzyl chloride	0.413	0.642	-55.4#	100	0.00
64 T	1,4-dichlorobenzene	1.400	1.249	10.8	52	0.00
65 T	1,2-dichlorobenzene	1.303	1.146	12.0	53	0.00
66 T	1,2,4-trichlorobenzene	0.618	0.496	19.7	49#	0.00
67 T	Hexachloro-1,3-butadiene	1.184	1.378	-16.4	76	0.00

Data File : C:\HPCHEM\1\DATA\AH030402.D

Vial: 2

Acq On : 4 Mar 2010 13:43

Operator: RJP

Sample : A1UG

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 14:05:10 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	12871	1.00	ppb	0.01
30) 1,4-difluorobenzene	10.06	114	28620	1.00	ppb	0.02
44) Chlorobenzene-d5	14.92	117	25624	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.48	95	11232	0.91	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	7243m	0.77	ppb	
3) Freon 12	2.97	85	81867	1.05	ppb	99
4) Chloromethane	3.12	50	16831	1.01	ppb	98
5) Freon 114	3.12	85	52665	1.00	ppb	96
6) Vinyl Chloride	3.26	62	13717	0.94	ppb	100
7) 1,3-butadiene	3.33	39	8361	0.83	ppb	82
8) Bromomethane	3.58	94	19458	0.98	ppb	99
9) Chloroethane	3.71	64	6157	0.99	ppb	98
10) Vinyl Bromide	3.96	106	17279	0.91	ppb	95
11) Freon 11	4.16	101	58394	1.02	ppb	99
12) Acetone	4.33	58	4862	1.03	ppb	97
13) Isopropyl alcohol	4.44	45	10638m	0.77	ppb	
14) 1,1-dichloroethene	4.77	96	16282	0.93	ppb	98
15) Freon 113	4.95	101	39376	0.91	ppb	97
16) Methylene chloride	5.17	84	13312	0.75	ppb	98
17) Allyl chloride	5.16	41	10403	0.84	ppb	96
18) Carbon disulfide	5.30	76	40234m	0.72	ppb	
19) trans-1,2-dichloroethene	6.02	61	19137	0.81	ppb	95
20) methyl tert-butyl ether	6.09	73	22516m	0.71	ppb	
21) 1,1-dichloroethane	6.41	63	29757	0.91	ppb	96
22) Vinyl acetate	6.44	43	21478m	1.00	ppb	
23) Methyl Ethyl Ketone	6.93	43	22724	0.78	ppb	97
24) cis-1,2-dichloroethene	7.29	61	15918	0.75	ppb	92
25) Hexane	6.93	41	12298	0.83	ppb	89
26) Ethyl acetate	7.51	43	15211	0.74	ppb	98
27) Chloroform	7.88	83	50889	0.98	ppb	99
28) Tetrahydrofuran	8.08	42	8040m	0.96	ppb	
29) 1,2-dichloroethane	8.96	62	28616	0.90	ppb	91
31) 1,1,1-trichloroethane	8.67	97	47289	1.29	ppb	99
32) Cyclohexane	9.36	56	9539	0.86	ppb	# 67
33) Carbon tetrachloride	9.30	117	64236m	1.33	ppb	
34) Benzene	9.27	78	39300	1.16	ppb	93
35) 1,4-dioxane	11.12	88	3081m	0.75	ppb	
36) 2,2,4-trimethylpentane	10.24	57	27007	0.84	ppb	90
37) Heptane	10.66	43	8380	0.81	ppb	91
38) Trichloroethene	10.75	130	27033	1.19	ppb	98
39) 1,2-dichloropropane	10.88	63	13946	1.16	ppb	97
40) Bromodichloromethane	11.26	83	43513	1.24	ppb	100
41) cis-1,3-dichloropropene	12.16	75	13995	0.92	ppb	97
42) trans-1,3-dichloropropene	12.96	75	12800	0.96	ppb	92
43) 1,1,2-trichloroethane	13.26	97	24611	1.29	ppb	98
45) Toluene	13.00	92	19587	0.88	ppb	99
46) Methyl Isobutyl Ketone	12.14	43	8341m	0.76	ppb	
47) Dibromochloromethane	13.94	129	43521	1.19	ppb	100
48) Methyl Butyl Ketone	13.51	43	6760m	0.82	ppb	
49) 1,2-dibromoethane	14.18	107	36322	1.14	ppb	97
50) Tetrachloroethylene	14.03	164	31328	1.21	ppb	100

Data File : C:\HPCHEM\1\DATA\AH030402.D

Vial: 2

Acq On : 4 Mar 2010 13:43

Operator: RJP

Sample : A1UG

Inst : MSD #1

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 14:05:10 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.97	112	37248	0.96	ppb	96
52) Ethylbenzene	15.23	91	36333	0.82	ppb	97
53) m&p-xylene	15.43	91	67830	1.72	ppb	99
54) Styrene	15.83	104	19691	0.81	ppb	96
55) Bromoform	15.91	173	43284	1.53	ppb	97
56) o-xylene	15.86	91	38181	0.84	ppb	100
58) 1,1,2,2-tetrachloroethane	16.28	83	47036	1.26	ppb	100
59) 4-ethyltoluene	17.04	105	21859	0.81	ppb	98
60) 1,3,5-trimethylbenzene	17.10	105	29815m	0.71	ppb	
61) 1,2,4-trimethylbenzene	17.51	105	26766m	0.78	ppb	
62) 1,3-dichlorobenzene	17.76	146	32526	0.89	ppb	97
63) benzyl chloride	17.83	91	16461	1.56	ppb	99
64) 1,4-dichlorobenzene	17.88	146	32014	0.89	ppb	98
65) 1,2-dichlorobenzene	18.16	146	29362	0.88	ppb	98
66) 1,2,4-trichlorobenzene	19.78	180	12708	0.80	ppb	98
67) Hexachloro-1,3-butadiene	20.04	225	35298	1.16	ppb	98

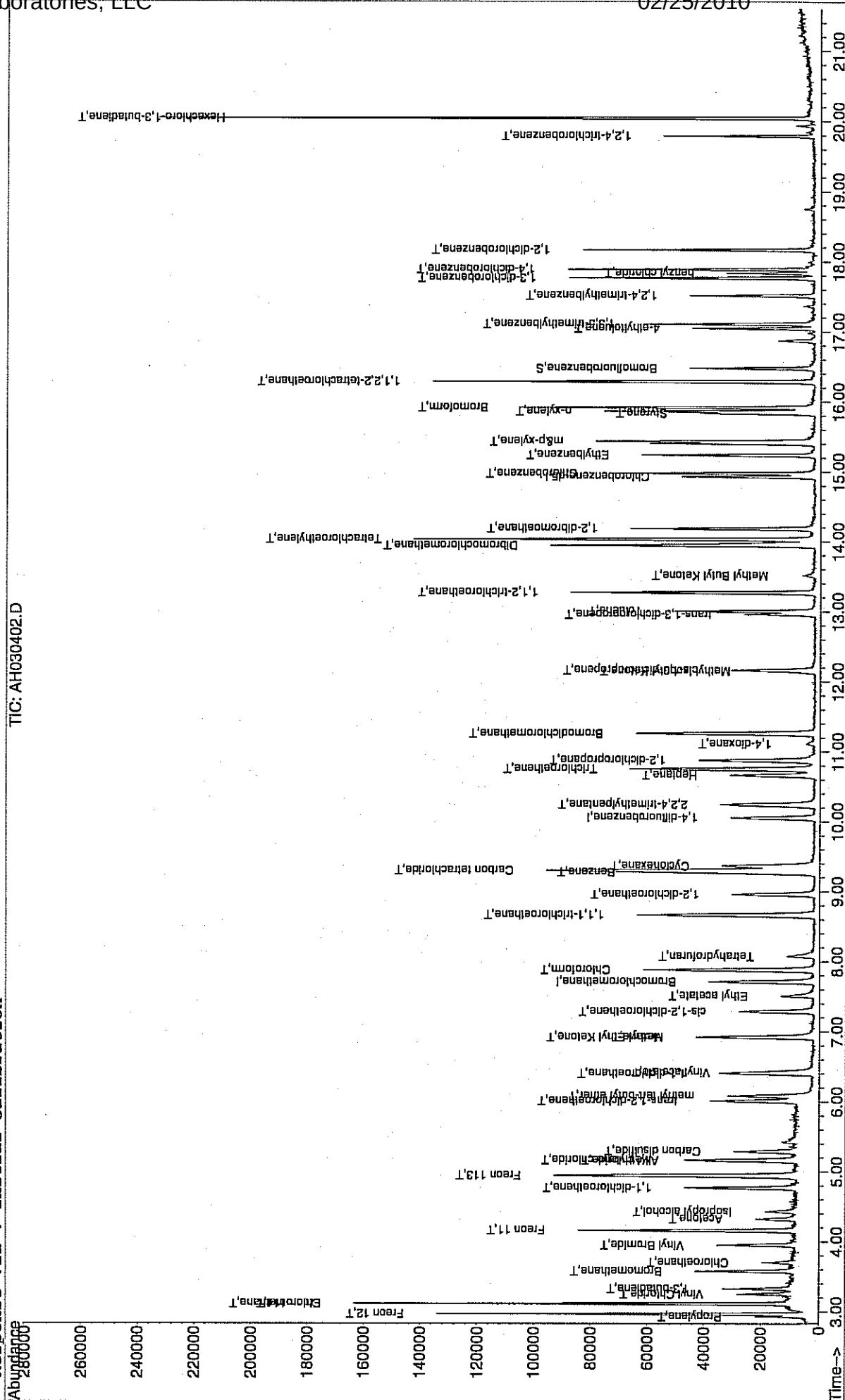
Data File : C:\HPCHEM\1\DATA\AH030402.D
Acq On : 4 Mar 2010 13:43
Sample : A1UG
Misc :
MS Integration Params: RTEINT.P
Quant Time: Apr 22 13:16 2010

Vial: 2
Operator: RJJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:31 2010
Response via : Initial Calibration

TIC: AH030402.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AH020901.D

Vial: 1

Acq On : 9 Feb 2010 16:59

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

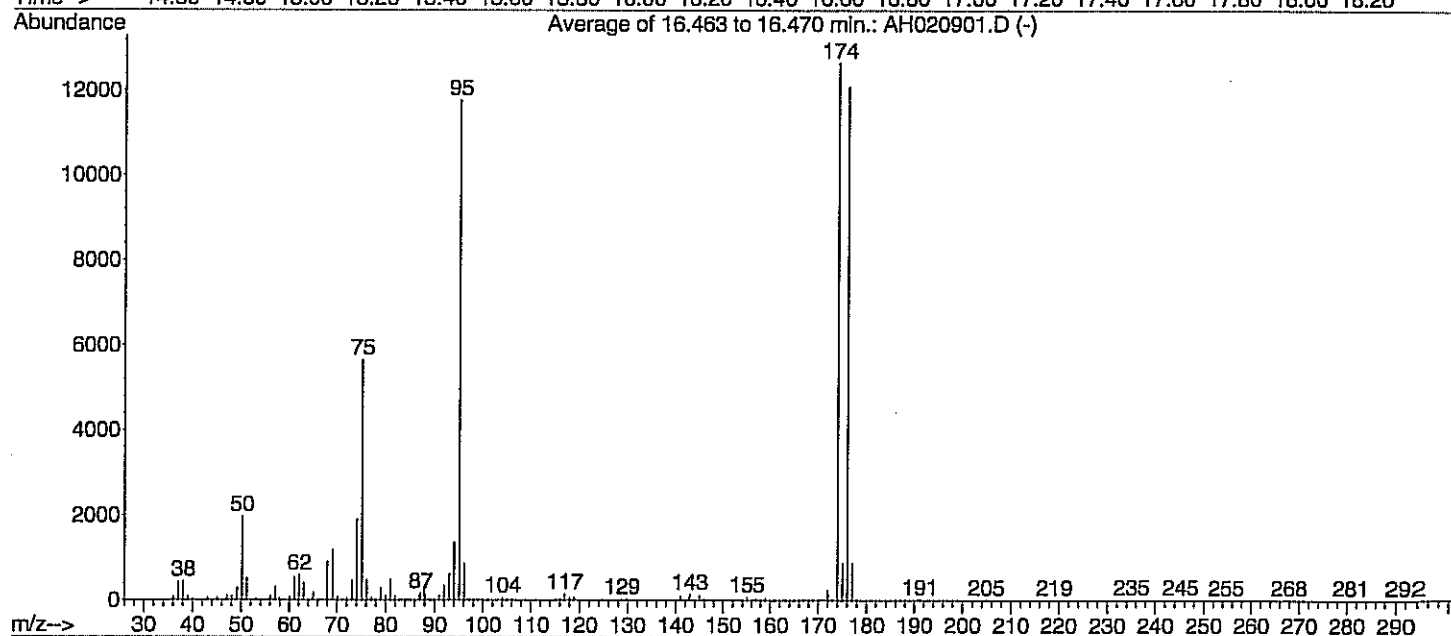
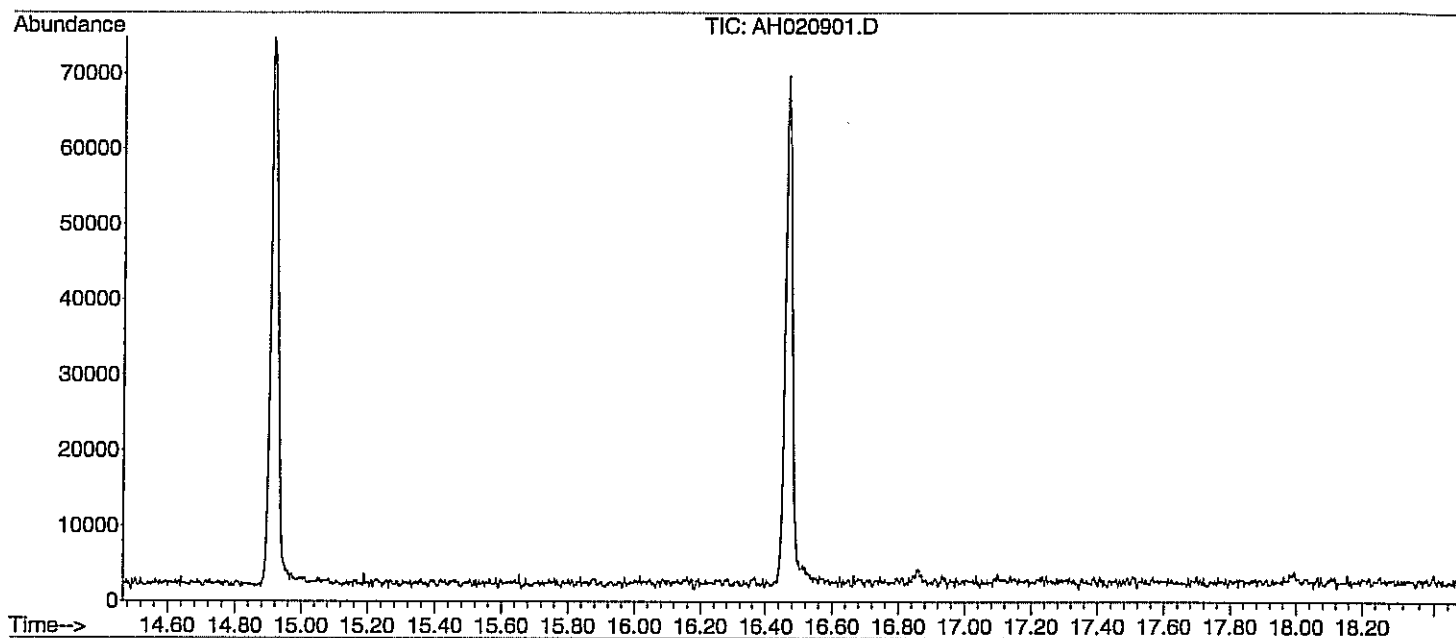
Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 16.463 to 16.470 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.7	1967	PASS
75	95	30	66	48.1	5666	PASS
95	95	100	100	100.0	11781	PASS
96	95	5	9	7.4	873	PASS
173	174	0.00	2	0.3	35	PASS
174	95	50	120	107.6	12673	PASS
175	174	4	9	7.0	884	PASS
176	174	95	101	95.5	12104	PASS
177	176	5	9	7.2	875	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AH030301.D

Vial: 1

Acq On : 3 Mar 2010 11:46

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

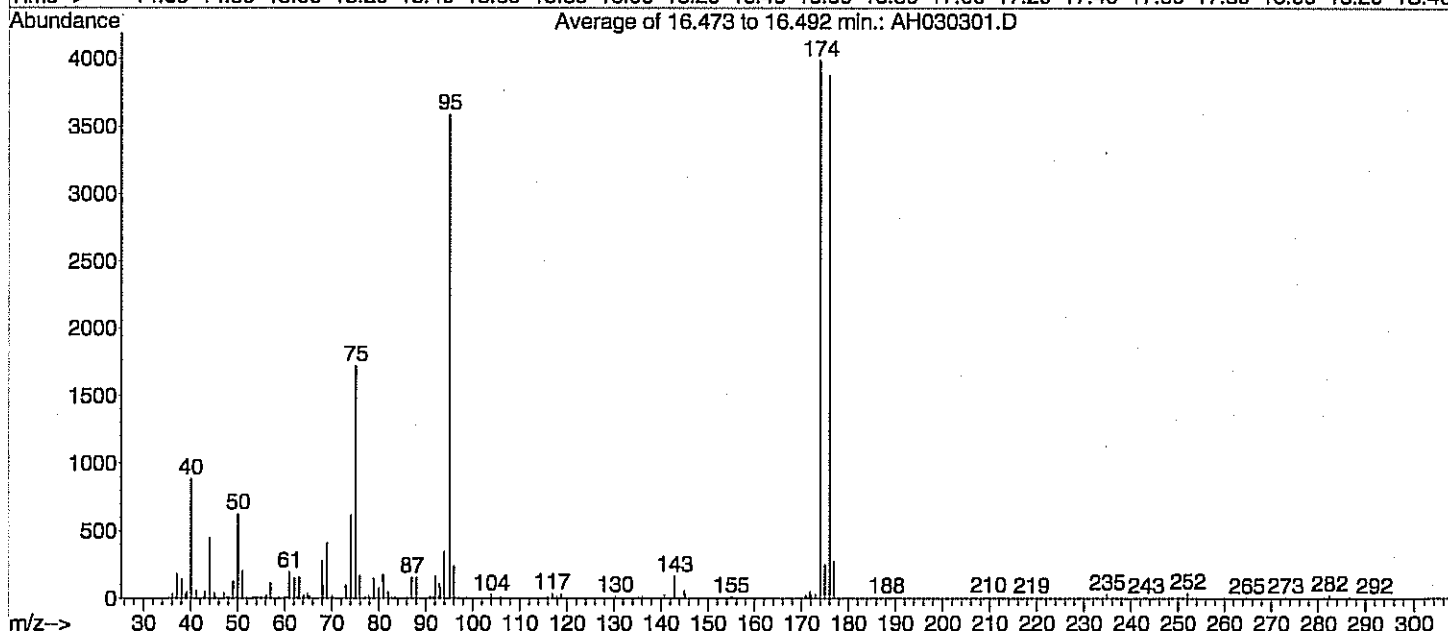
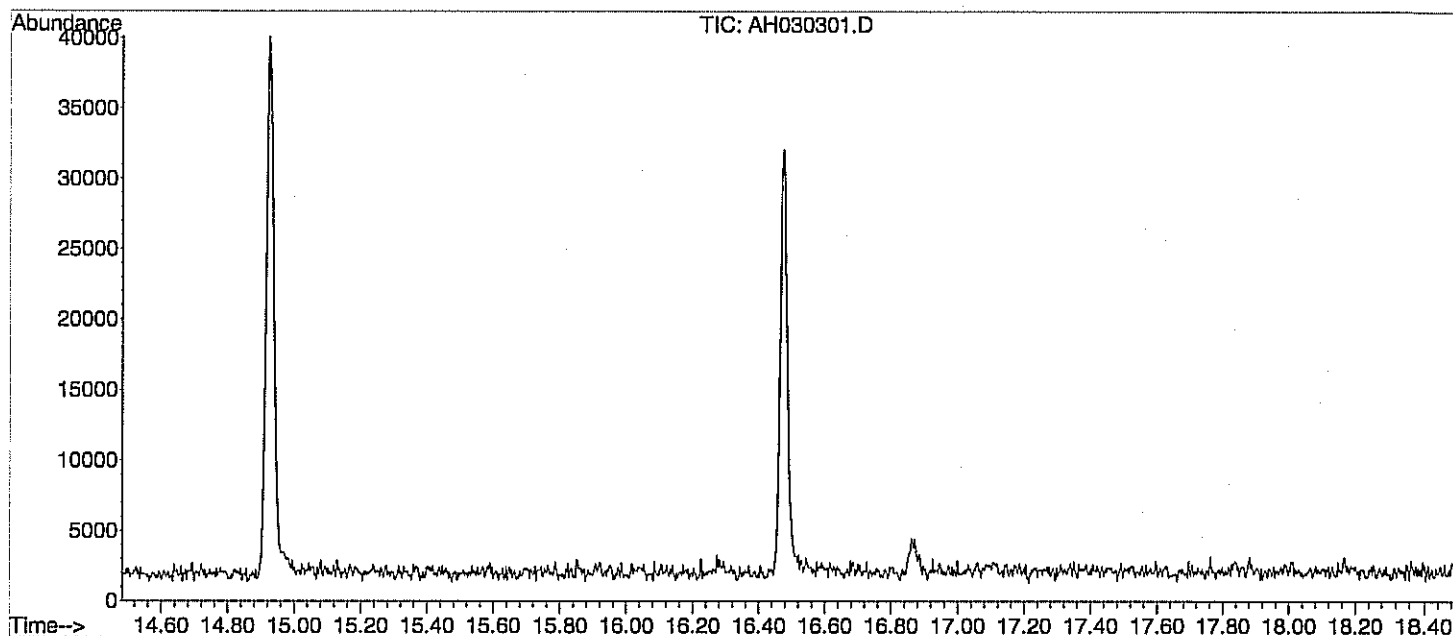
Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 16.473 to 16.492 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	624	PASS
75	95	30	66	48.0	1722	PASS
95	95	100	100	100.0	3590	PASS
96	95	5	9	6.7	239	PASS
173	174	0.00	2	0.8	30	PASS
174	95	50	120	111.1	3990	PASS
175	174	4	9	6.2	249	PASS
176	174	95	101	97.2	3879	PASS
177	176	5	9	7.0	273	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AH030401.D

Vial: 1

Acq On : 4 Mar 2010 12:36

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

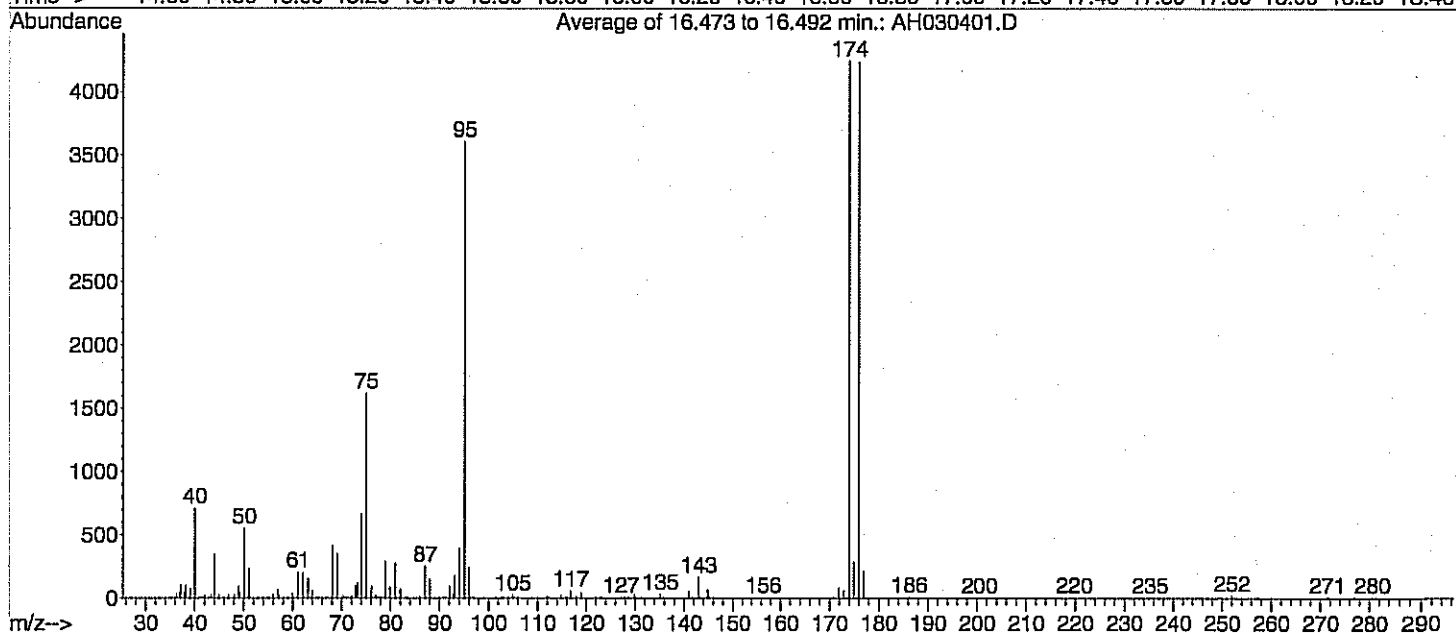
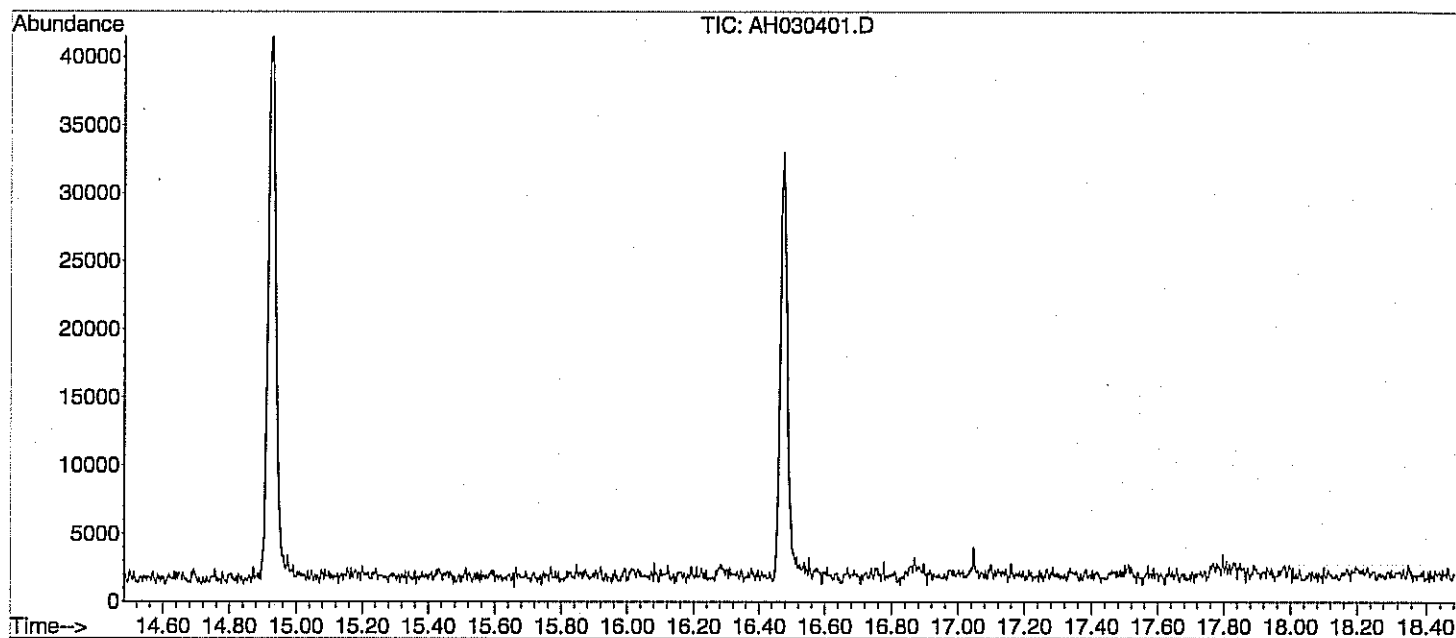
Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 16.473 to 16.492 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.3	552	PASS
75	95	30	66	44.9	1619	PASS
95	95	100	100	100.0	3606	PASS
96	95	5	9	6.8	244	PASS
173	174	0.00	2	1.5	62	PASS
174	95	50	120	117.7	4245	PASS
175	174	4	9	6.8	289	PASS
176	174	95	101	99.8	4235	PASS
177	176	5	9	5.1	214	PASS

RAW QC DATA

METHOD TO-15

GC/MS VOLATILES-WHOLE AIR

CLIENT: EnviroGroup Limited

Work Order: C1003003

Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: MB1UG-030310	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41348						
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-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									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

Qualifiers:

J Results reported are not blank corrected

S 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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 0.25CT-TCE-VC

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB1UG-030310	SampleType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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									
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									

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 0.25CT-TCE-VC

Sample ID: MB1UG-030310	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15										
Vinyl Bromide	< 0.15										
Vinyl chloride	< 0.040										

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 1ugM3_TO15

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB1UG-030410	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41357						
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-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									
Bromodichloromethane	< 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: 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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 1ugM3_TO15

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB1UG-030410	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41357						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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									
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: . 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

TestCode: 1ugM3_T015

Sample ID: MB1UG-030410	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41357
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Vinyl chloride	< 0.15	0.15			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Vinyl chloride

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				

Page 6 of 6

Data File : C:\HPCHEM\1\DATA\AH030305.D

Vial: 5

Acq On : 3 Mar 2010 14:05

Operator: RJP

Sample : MB1UG-030310

Inst : MSD #1

Misc : MB1UG-030310

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 14:27:35 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	11323	1.00	ppb	0.02
30) 1,4-difluorobenzene	10.06	114	25189	1.00	ppb	0.02
44) Chlorobenzene-d5	14.93	117	20956	1.00	ppb	0.02

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	7564m ⁿ	0.75	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	75.00%	

Target Compounds

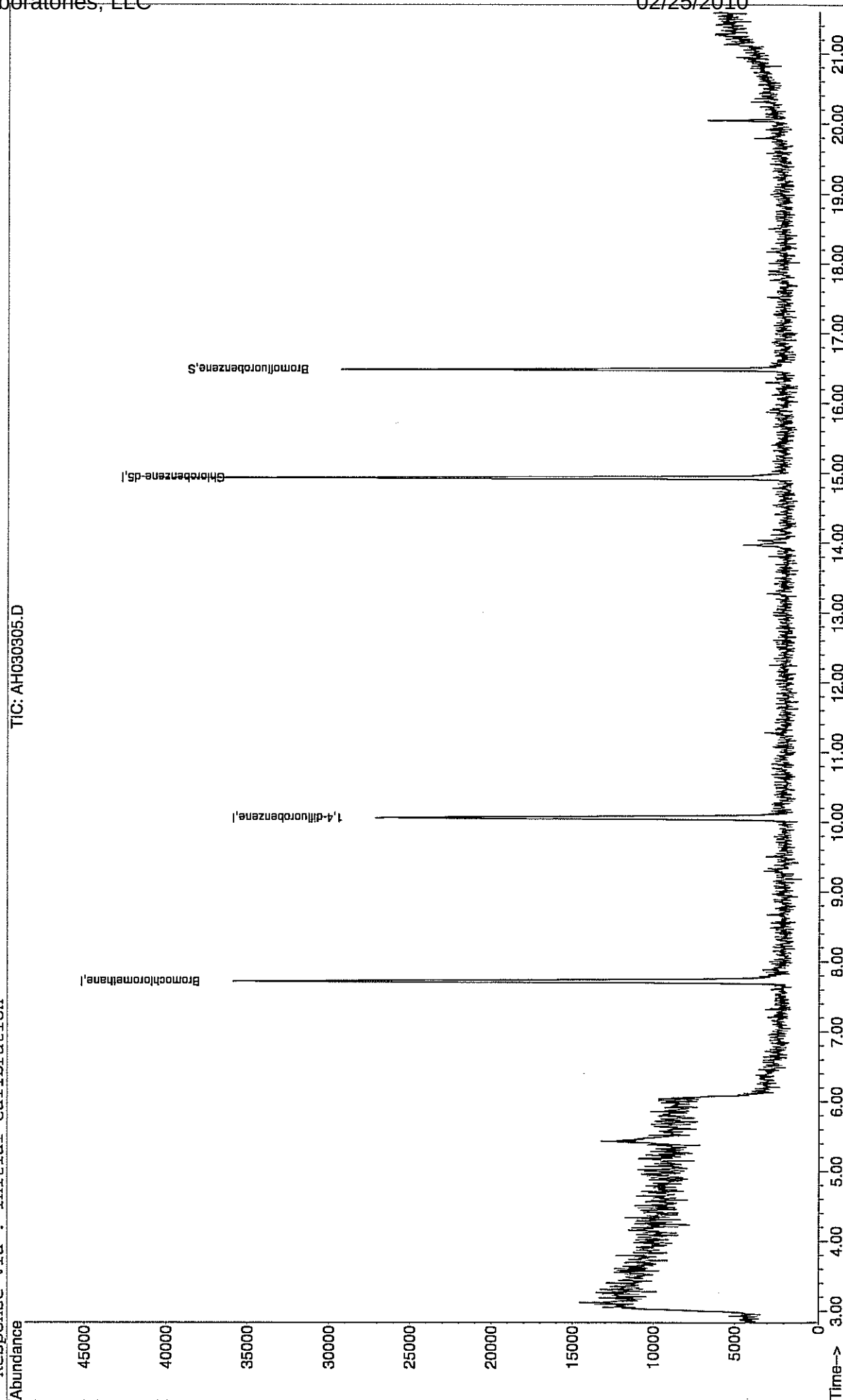
Qvalue

Data File : C:\HPCHEM\1\DATA\AH030305.D
Acq On : 3 Mar 2010 14:05
Sample : MB1UG-030310
Misc : MB1UG-030310
MS Integration Params: RTEINT.P
Quant Time: Mar 3 16:12 2010

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\AH030404.D

Vial: 4

Acq On : 4 Mar 2010 14:55

Operator: RJP

Sample : MB1UG-030410

Inst : MSD #1

Misc : MB1UG-030410

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 15:16:44 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	12675	1.00	ppb	0.02
30) 1,4-difluorobenzene	10.06	114	26413	1.00	ppb	0.02
44) Chlorobenzene-d5	14.93	117	21265	1.00	ppb	0.01

System Monitoring Compounds

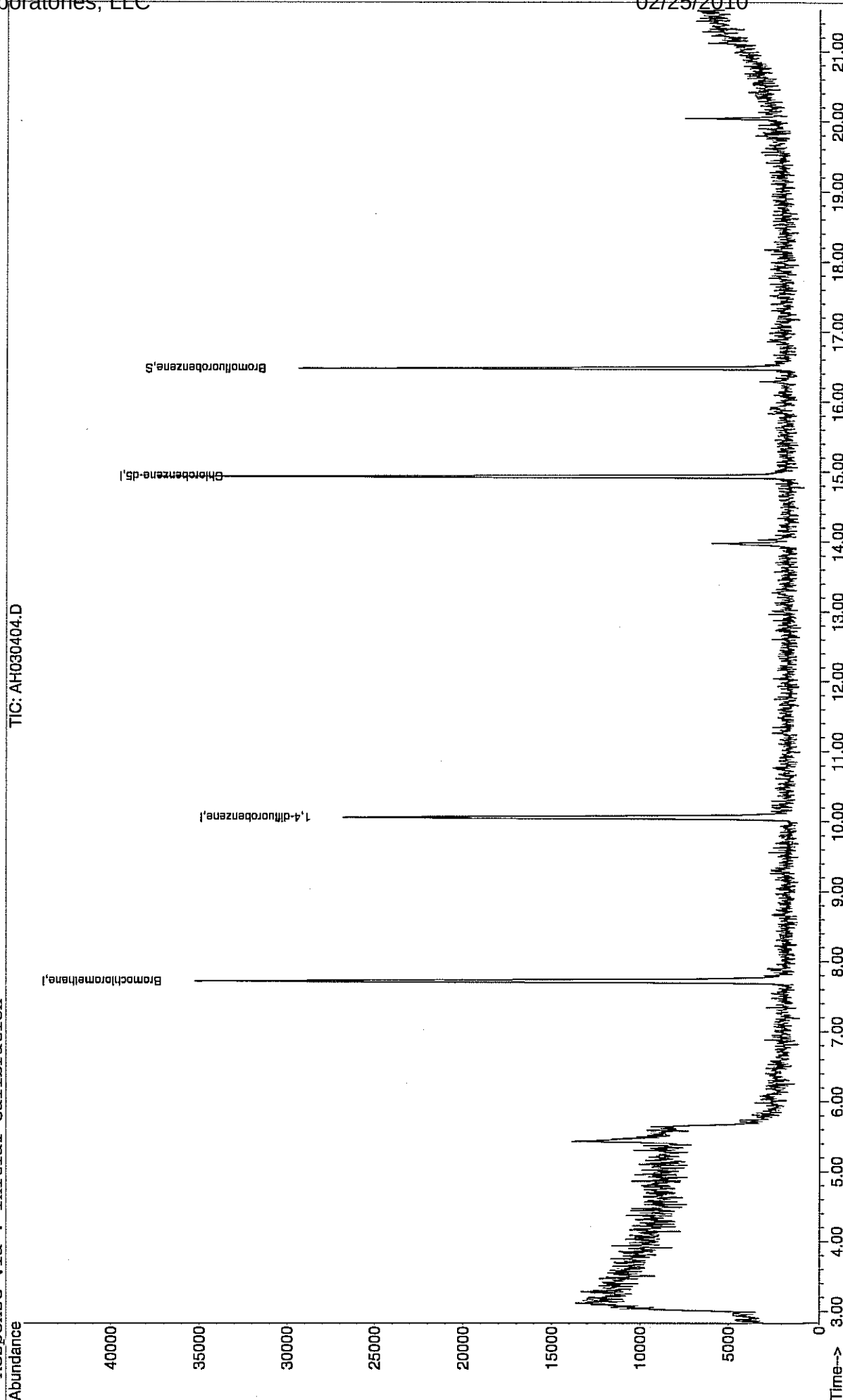
57) Bromofluorobenzene	16.47	95	7409	0.72	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	72.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA\AH030404.D
Acq On : 4 Mar 2010 14:55
Sample : MB1UG-030410
Misc : MB1UG-030410
MS Integration Params: RTEINT.P
Quant Time: Mar 4 16:16 2010
Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A209_1UG.RES



CLIENT: EnviroGroup Limited

Work Order: C1003003

Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UG-030310	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	70	130				
1,1,2-Trichloroethane	1.270	0.15	1	0	127	70	130				
1,1-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,2,4-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130				
1,2-Dibromoethane	1.250	0.15	1	0	125	70	130				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	70	130				
1,2-Dichloroethane	1.040	0.15	1	0	104	70	130				
1,2-Dichloropropane	1.200	0.15	1	0	120	70	130				
1,3,5-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,3-butadiene	1.130	0.15	1	0	113	70	130				
1,3-Dichlorobenzene	0.9700	0.15	1	0	97.0	70	130				
1,4-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dioxane	1.070	0.30	1	0	107	70	130				
2,2,4-trimethylpentane	1.090	0.15	1	0	109	70	130				
4-ethyltoluene	0.8900	0.15	1	0	89.0	70	130				
Acetone	1.230	0.30	1	0	123	70	130				
Allyl chloride	1.080	0.15	1	0	108	70	130				
Benzene	1.120	0.15	1	0	112	70	130				
Benzyl chloride	1.760	0.15	1	0	176	70	130				S
Bromodichloromethane	1.280	0.15	1	0	128	70	130				
Bromoform	1.590	0.15	1	0	159	70	130				
Bromomethane	1.080	0.15	1	0	108	70	130				S
Carbon disulfide	0.7200	0.15	1	0	72.0	70	130				
Carbon tetrachloride	1.280	0.040	1	0	128	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.100	0.15	1	0	110	70	130				

Qualifiers:

J Results reported are not blank corrected

S 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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 0.25CT-TCE-VC

ANALYTICAL QC SUMMARY REPORT

Sample ID: LCS1UG-030310	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.140	0.15	1	0	114	70	130				
cis-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	70	130				
cis-1,3-Dichloropropene	1.170	0.15	1	0	117	70	130				
Cyclohexane	1.100	0.15	1	0	110	70	130				
Dibromochloromethane	1.240	0.15	1	0	124	70	130				
Ethyl acetate	1.000	0.25	1	0	100	70	130				
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130				
Freon 11	1.120	0.15	1	0	112	70	130				
Freon 113	1.000	0.15	1	0	100	70	130				
Freon 114	1.130	0.15	1	0	113	70	130				
Freon 12	1.180	0.15	1	0	118	70	130				
Heptane	1.120	0.15	1	0	112	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	0.7800	0.15	1	0	78.0	70	130				
m&p-Xylene	1.980	0.30	2	0	99.0	70	130				
Methyl Butyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl tert-butyl ether	0.8000	0.15	1	0	80.0	70	130				
Methylene chloride	0.8800	0.15	1	0	88.0	70	130				
o-Xylene	0.9900	0.15	1	0	99.0	70	130				
Propylene	0.9600	0.15	1	0	96.0	70	130				
Styrene	0.8700	0.15	1	0	87.0	70	130				
Tetrachloroethylene	1.210	0.15	1	0	121	70	130				
Tetrahydrofuran	0.8400	0.15	1	0	84.0	70	130				
Toluene	1.000	0.15	1	0	100	70	130				
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	1.180	0.15	1	0	118	70	130				
Trichloroethene	1.280	0.040	1	0	128	70	130				

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: EnviroGroup Limited
 Work Order: C1003003
 Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UG-030310	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	0.8600	0.15	1	0	86.0	70	130				
Vinyl Bromide	1.000	0.15	1	0	100	70	130				
Vinyl chloride	1.130	0.040	1	0	113	70	130				

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 1ugM3_TO15

ANALYTICAL QC SUMMARY REPORT

Sample ID: LCS1UG-030410	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.280	0.15	1	0	128	70	130				
1,1,2,2-Tetrachloroethane	1.260	0.15	1	0	126	70	130				
1,1,2-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
1,2,4-Trichlorobenzene	0.9600	0.15	1	0	96.0	70	130				
1,2,4-Trimethylbenzene	0.7100	0.15	1	0	71.0	70	130				
1,2-Dibromoethane	1.220	0.15	1	0	122	70	130				
1,2-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,2-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichloropropane	1.250	0.15	1	0	125	70	130				
1,3,5-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130				
1,3-butadiene	0.8800	0.15	1	0	88.0	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	0.9000	0.30	1	0	90.0	70	130				
2,2,4-trimethylpentane	0.8600	0.15	1	0	86.0	70	130				
4-ethyltoluene	0.8900	0.15	1	0	89.0	70	130				
Acetone	1.050	0.30	1	0	105	70	130				
Allyl chloride	0.8700	0.15	1	0	87.0	70	130				
Benzene	1.090	0.15	1	0	109	70	130				S
Benzyl chloride	1.700	0.15	1	0	170	70	130				
Bromodichloromethane	1.270	0.15	1	0	127	70	130				
Bromoform	1.600	0.15	1	0	160	70	130				S
Bromomethane	0.9700	0.15	1	0	97.0	70	130				
Carbon disulfide	0.7200	0.15	1	0	72.0	70	130				
Carbon tetrachloride	1.450	0.15	1	0	145	70	130				S
Chlorobenzene	1.030	0.15	1	0	103	70	130				
Chloroethane	0.9300	0.15	1	0	93.0	70	130				
Chloroform	0.9800	0.15	1	0	98.0	70	130				
Chloromethane	1.020	0.15	1	0	102	70	130				

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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID: LCS1UG-030410	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130				
Cyclohexane	0.9000	0.15	1	0	90.0	70	130				
Dibromochloromethane	1.250	0.15	1	0	125	70	130				
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130				
Ethylbenzene	0.8700	0.15	1	0	87.0	70	130				
Freon 11	1.000	0.15	1	0	100	70	130				
Freon 113	0.9100	0.15	1	0	91.0	70	130				
Freon 114	1.020	0.15	1	0	102	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	0.8900	0.15	1	0	89.0	70	130				
Hexachloro-1,3-butadiene	1.300	0.15	1	0	130	70	130				
Hexane	0.7900	0.15	1	0	79.0	70	130				
Isopropyl alcohol	0.7800	0.15	1	0	78.0	70	130				
m&p-Xylene	1.840	0.30	2	0	92.0	70	130				
Methyl Butyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Ethyl Ketone	0.8300	0.30	1	0	83.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	0.7400	0.15	1	0	74.0	70	130				
Methylene chloride	0.7600	0.15	1	0	76.0	70	130				
o-Xylene	0.8900	0.15	1	0	89.0	70	130				
Propylene	0.7500	0.15	1	0	75.0	70	130				
Styrene	0.8500	0.15	1	0	85.0	70	130				
Tetrachloroethylene	1.220	0.15	1	0	122	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				
Toluene	0.9600	0.15	1	0	96.0	70	130				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	1.210	0.15	1	0	121	70	130				
Vinyl acetate	0.7200	0.15	1	0	72.0	70	130				
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130				

Qualifiers:

J Results reported are not blank corrected

S 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: EnviroGroup Limited
Work Order: C1003003
Project: LEICA
TestCode: 1ugM3_TO15

ANALYTICAL QC SUMMARY REPORT

Sample ID: LCS1UG-030410	SampleType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3318						
Client ID: ZZZZZ	Batch ID: R3318	TestNo: TO-15		Analysis Date: 3/4/2010	SeqNo: 41358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.000	0.15	1	0	100	70	130				

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						
	Spike Recovery outside accepted recovery limits										

Data File : C:\HPCHEM\1\DATA\AH030304.D

Vial: 4

Acq On : 3 Mar 2010 13:32

Operator: RJP

Sample : LCS1UG-030310

Inst : MSD #1

Misc : LCS1UG-030310

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 13:54:15 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	11453	1.00	ppb	0.01
30) 1,4-difluorobenzene	10.06	114	25808	1.00	ppb	0.02
44) Chlorobenzene-d5	14.92	117	24114	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.48	95	11130	0.96	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%

Target Compounds

						Qvalue
2) Propylene	2.94	41	8049	0.96	ppb	89
3) Freon 12	2.97	85	82338	1.18	ppb	99
4) Chloromethane	3.12	50	16991	1.14	ppb	94
5) Freon 114	3.12	85	53104	1.13	ppb	100
6) Vinyl Chloride	3.26	62	14731	1.13	ppb	100
7) 1,3-butadiene	3.33	39	10124	1.13	ppb	98
8) Bromomethane	3.58	94	19109	1.08	ppb	99
9) Chloroethane	3.71	64	6069	1.10	ppb	96
10) Vinyl Bromide	3.96	106	17032	1.00	ppb	98
11) Freon 11	4.17	101	56718	1.12	ppb	99
12) Acetone	4.31	58	5171	1.23	ppb	96
13) Isopropyl alcohol	4.42	45	9628	0.78	ppb	87
14) 1,1-dichloroethene	4.77	96	16494	1.06	ppb	100
15) Freon 113	4.95	101	38600	1.00	ppb	100
16) Methylene chloride	5.17	84	13931	0.88	ppb	98
17) Allyl chloride	5.16	41	11856	1.08	ppb	94
18) Carbon disulfide	5.29	76	35784	0.72	ppb	99
19) trans-1,2-dichloroethene	6.01	61	20816	0.99	ppb	97
20) methyl tert-butyl ether	6.08	73	22487m	0.80	ppb	
21) 1,1-dichloroethane	6.41	63	32250	1.11	ppb	95
22) Vinyl acetate	6.43	43	16476	0.86	ppb	99
23) Methyl Ethyl Ketone	6.92	43	26348	1.02	ppb	96
24) cis-1,2-dichloroethene	7.30	61	17463	0.92	ppb	98
25) Hexane	6.93	41	13328	1.01	ppb	96
26) Ethyl acetate	7.50	43	18348	1.00	ppb	98
27) Chloroform	7.88	83	51935	1.12	ppb	100
28) Tetrahydrofuran	8.06	42	6291	0.84	ppb	93
29) 1,2-dichloroethane	8.96	62	29474	1.04	ppb	92
31) 1,1,1-trichloroethane	8.67	97	39778m	1.20	ppb	
32) Cyclohexane	9.37	56	10923	1.10	ppb	# 82
33) Carbon tetrachloride	9.31	117	55872m	1.28	ppb	
34) Benzene	9.27	78	34362m	1.12	ppb	
35) 1,4-dioxane	11.09	88	4003	1.07	ppb	93
36) 2,2,4-trimethylpentane	10.25	57	31538	1.09	ppb	93
37) Heptane	10.66	43	10399	1.12	ppb	95
38) Trichloroethene	10.75	130	26100	1.28	ppb	99
39) 1,2-dichloropropane	10.88	63	12987m	1.20	ppb	
40) Bromodichloromethane	11.26	83	40395m	1.28	ppb	
41) cis-1,3-dichloropropene	12.16	75	16069	1.17	ppb	96
42) trans-1,3-dichloropropene	12.96	75	14167	1.18	ppb	97
43) 1,1,2-trichloroethane	13.27	97	21823m	1.27	ppb	
45) Toluene	13.00	92	20931	1.00	ppb	99
46) Methyl Isobutyl Ketone	12.13	43	10380	1.00	ppb	97
47) Dibromochloromethane	13.94	129	42813	1.24	ppb	100
48) Methyl Butyl Ketone	13.50	43	8800	1.14	ppb	94
49) 1,2-dibromoethane	14.18	107	37559	1.25	ppb	98
50) Tetrachloroethylene	14.02	164	29380	1.21	ppb	98

Data File : C:\HPCHEM\1\DATA\AH030304.D

Vial: 4

Acq On : 3 Mar 2010 13:32

Operator: RJP

Sample : LCS1UG-030310

Inst : MSD #1

Misc : LCS1UG-030310

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 13:54:15 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.97	112	39210	1.08	ppb	98
52) Ethylbenzene	15.23	91	37988	0.91	ppb	98
53) m&p-xylene	15.43	91	73526	1.98	ppb	100
54) Styrene	15.83	104	19760	0.87	ppb	97
55) Bromoform	15.91	173	42210	1.59	ppb	95
56) o-xylene	15.86	91	42497	0.99	ppb	96
58) 1,1,2,2-tetrachloroethane	16.28	83	41547m	1.18	ppb	
59) 4-ethyltoluene	17.04	105	22552	0.89	ppb	100
60) 1,3,5-trimethylbenzene	17.10	105	30480	0.77	ppb	98
61) 1,2,4-trimethylbenzene	17.51	105	25507m	0.79	ppb	
62) 1,3-dichlorobenzene	17.76	146	33330	0.97	ppb	98
63) benzyl chloride	17.83	91	17547	1.76	ppb	96
64) 1,4-dichlorobenzene	17.88	146	33766	1.00	ppb	100
65) 1,2-dichlorobenzene	18.16	146	30291	0.96	ppb	98
66) 1,2,4-trichlorobenzene	19.78	180	13359	0.90	ppb	97
67) Hexachloro-1,3-butadiene	20.04	225	33810	1.18	ppb	98

Data File : C:\HPCHEM\1\DATA\AH030304.D
Acq On : 3 Mar 2010 13:32
Sample : LCS1UG-030310
Misc : LCS1UG-030310
MS Integration Params: RTEINT.P
Quant Time: Mar 3 16:04 2010

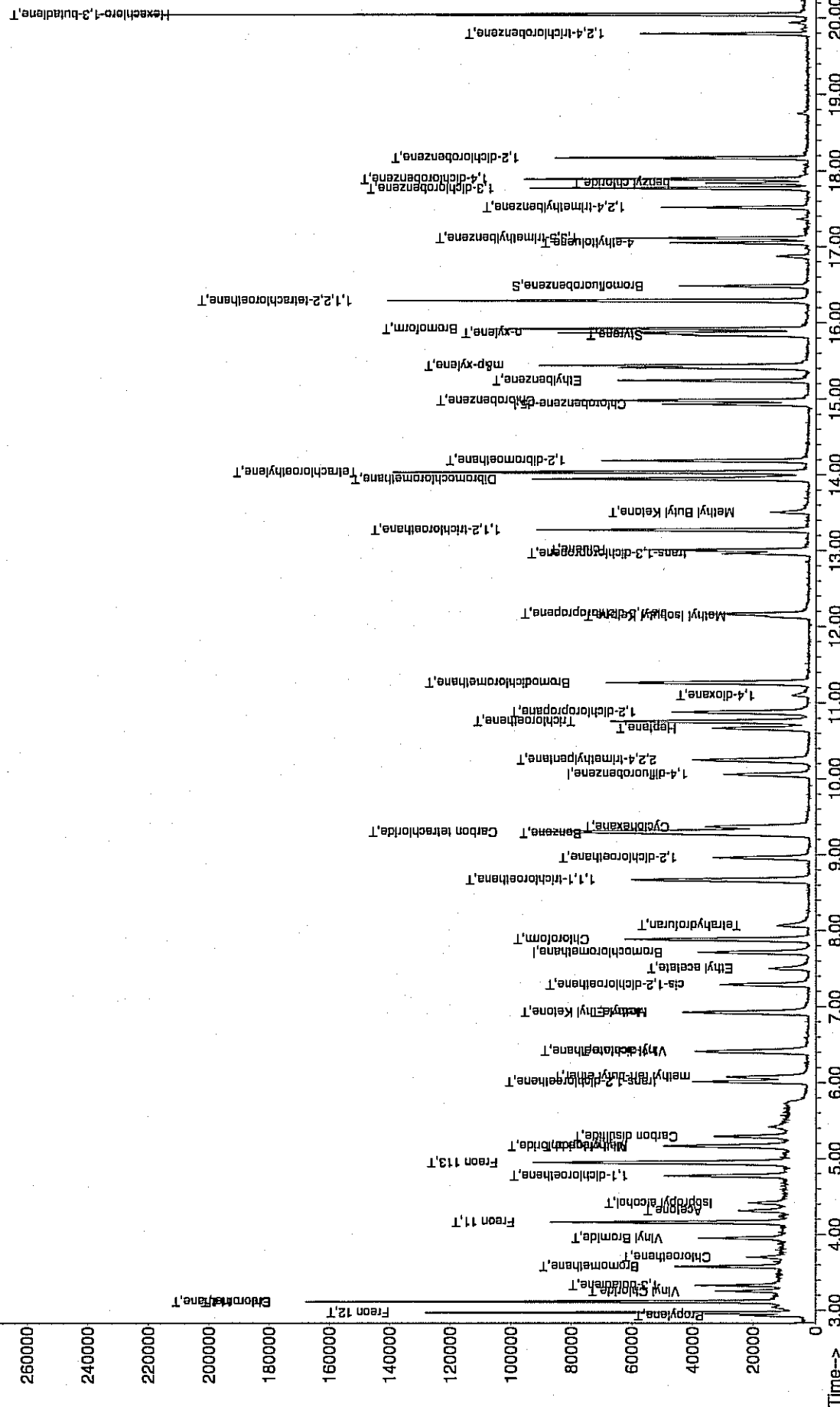
Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

TIC: AH030304.D

Abundance



Data File : C:\HPCHEM\1\DATA\AH030403.D
 Acq On : 4 Mar 2010 14:21
 Sample : LCS1UG-030410
 Misc : LCS1UG-030410
 MS Integration Params: RTEINT.P
 Quant Time: Mar 04 14:42:40 2010

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 10 08:53:54 2010
 Response via : Initial Calibration
 DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	12949	1.00	ppb	0.01
30) 1,4-difluorobenzene	10.06	114	28196	1.00	ppb	0.02
44) Chlorobenzene-d5	14.92	117	25143	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	11566	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	2.93	41	7114	0.75	ppb	90
3) Freon 12	2.97	85	84377	1.07	ppb	100
4) Chloromethane	3.12	50	17183	1.02	ppb	97
5) Freon 114	3.12	85	54135	1.02	ppb	97
6) Vinyl Chloride	3.26	62	14692	1.00	ppb	98
7) 1,3-butadiene	3.33	39	8954	0.88	ppb	83
8) Bromomethane	3.58	94	19316	0.97	ppb	97
9) Chloroethane	3.71	64	5829	0.93	ppb	100
10) Vinyl Bromide	3.95	106	17217	0.90	ppb	99
11) Freon 11	4.16	101	57561	1.00	ppb	98
12) Acetone	4.32	58	4968	1.05	ppb	99
13) Isopropyl alcohol	4.43	45	10890m	0.78	ppb	
14) 1,1-dichloroethene	4.78	96	16460	0.93	ppb	96
15) Freon 113	4.95	101	39819	0.91	ppb	96
16) Methylene chloride	5.17	84	13555	0.76	ppb	98
17) Allyl chloride	5.16	41	10782	0.87	ppb	98
18) Carbon disulfide	5.30	76	40509m	0.72	ppb	
19) trans-1,2-dichloroethene	6.02	61	22402	0.95	ppb	94
20) methyl tert-butyl ether	6.09	73	23642m	0.74	ppb	
21) 1,1-dichloroethane	6.41	63	29611	0.90	ppb	97
22) Vinyl acetate	6.44	43	15533	0.72	ppb	98
23) Methyl Ethyl Ketone	6.92	43	24121	0.83	ppb	95
24) cis-1,2-dichloroethene	7.30	61	15461	0.72	ppb	87
25) Hexane	6.93	41	11772	0.79	ppb	95
26) Ethyl acetate	7.51	43	15987	0.77	ppb	96
27) Chloroform	7.89	83	51275	0.98	ppb	99
28) Tetrahydrofuran	8.07	42	8659m	1.03	ppb	
29) 1,2-dichloroethane	8.96	62	28931	0.91	ppb	91
31) 1,1,1-trichloroethane	8.67	97	46243m	1.28	ppb	
32) Cyclohexane	9.37	56	9798	0.90	ppb	# 69
33) Carbon tetrachloride	9.30	117	69033	1.45	ppb	99
34) Benzene	9.27	78	36520	1.09	ppb	94
35) 1,4-dioxane	11.10	88	3642	0.90	ppb	98
36) 2,2,4-trimethylpentane	10.25	57	27164	0.86	ppb	91
37) Heptane	10.66	43	9057	0.89	ppb	92
38) Trichloroethene	10.76	130	26952	1.21	ppb	99
39) 1,2-dichloropropane	10.88	63	14865	1.25	ppb	99
40) Bromodichloromethane	11.26	83	43837	1.27	ppb	98
41) cis-1,3-dichloropropene	12.16	75	14718	0.98	ppb	94
42) trans-1,3-dichloropropene	12.96	75	13500	1.03	ppb	95
43) 1,1,2-trichloroethane	13.26	97	22647m	1.20	ppb	
45) Toluene	13.00	92	20994	0.96	ppb	99
46) Methyl Isobutyl Ketone	12.13	43	7749	0.72	ppb	98
47) Dibromochloromethane	13.94	129	44732	1.25	ppb	99
48) Methyl Butyl Ketone	13.50	43	7265m	0.90	ppb	
49) 1,2-dibromoethane	14.18	107	37958	1.22	ppb	99
50) Tetrachloroethylene	14.03	164	30958	1.22	ppb	97

Data File : C:\HPCHEM\1\DATA\AH030403.D

Vial: 3

Acq On : 4 Mar 2010 14:21

Operator: RJP

Sample : LCS1UG-030410

Inst : MSD #1

Misc : LCS1UG-030410

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 14:42:40 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.97	112	39001	1.03	ppb	96
52) Ethylbenzene	15.23	91	37956	0.87	ppb	95
53) m&p-xylene	15.43	91	70934	1.84	ppb	97
54) Styrene	15.83	104	20162	0.85	ppb	97
55) Bromoform	15.91	173	44364	1.60	ppb	96
56) o-xylene	15.86	91	39829	0.89	ppb	98
58) 1,1,2,2-tetrachloroethane	16.28	83	46047m	1.26	ppb	
59) 4-ethyltoluene	17.04	105	23683	0.89	ppb	95
60) 1,3,5-trimethylbenzene	17.10	105	32721	0.79	ppb	99
61) 1,2,4-trimethylbenzene	17.51	105	23621	0.71	ppb	97
62) 1,3-dichlorobenzene	17.76	146	35928	1.00	ppb	98
63) benzyl chloride	17.83	91	17618	1.70	ppb	99
64) 1,4-dichlorobenzene	17.88	146	35495	1.01	ppb	99
65) 1,2-dichlorobenzene	18.16	146	32666	1.00	ppb	98
66) 1,2,4-trichlorobenzene	19.78	180	14968	0.96	ppb	100
67) Hexachloro-1,3-butadiene	20.04	225	38652	1.30	ppb	97

Data File : C:\HPCHEM\1\DATA\AH030403.D
Acq On : 4 Mar 2010 14:21
Sample : LCS1UG-030410
Misc : LCS1UG-030410
MS Integration Params: RTEINT.P
Quant Time: Mar 8 19:43 2010

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Apr 22 13:10:30 2010
Response via : Initial Calibration

Abundance

TIC: AH030403.D

Hexachloro-1,3-butadiene, T

Chlorobenzene, T

Freon 12, T

Freon 11, T

Freon 113, T

Carbon disulfide, T

Methyl bromide, T

Carbon tetrachloride, T

Acetone, T

Isopropyl alcohol, T

Acetone, T

Vinyl bromide, T

Chloroethane, T

Bromomethane, T

Vinyl chloride, T

Propylene, T

Freon 11, T

Freon 12, T

Freon 113, T

Carbon disulfide, T

Methyl bromide, T

Carbon tetrachloride, T

Acetone, T

Isopropyl alcohol, T

Acetone, T

Vinyl bromide, T

Chloroethane, T

Bromomethane, T

Vinyl chloride, T

Propylene, T

Freon 11, T

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Freon 113, T

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Methyl bromide, T

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Acetone, T

Isopropyl alcohol, T

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Acetone, T

Isopropyl alcohol, T

Acetone, T

Vinyl bromide, T

Chloroethane, T

Bromomethane, T

Vinyl chloride, T

Propylene, T

Freon 11, T

Freon 12, T

Freon 113, T

Carbon disulfide, T

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

CLIENT: EnviroGroup Limited

Work Order: C1003003

Project: LEICA

Sample ID: LCS1UGD-030310	SampType: LCSD	TestCode: 0.25CT-TCE- TestNo: TO-15	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317			Analysis Date: 3/3/2010	SeqNo: 41350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.380	0.15	1	0	138	70	130	1.2	14.0	30	S
1,1,2,2-Tetrachloroethane	1.400	0.15	1	0	140	70	130	1.18	17.1	30	S
1,1,2-Trichloroethane	1.520	0.15	1	0	152	70	130	1.27	17.9	30	S
1,1-Dichloroethane	1.020	0.15	1	0	102	70	130	1.11	8.45	30	
1,1-Dichloroethene	0.9500	0.15	1	0	95.0	70	130	1.06	10.9	30	
1,2,4-Trichlorobenzene	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	
1,2,4-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.79	7.89	30	
1,2-Dibromoethane	1.290	0.15	1	0	129	70	130	1.25	3.15	30	
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130	0.96	5.08	30	
1,2-Dichloroethane	0.9600	0.15	1	0	96.0	70	130	1.04	8.00	30	
1,2-Dichloropropane	1.520	0.15	1	0	152	70	130	1.2	23.5	30	S
1,3,5-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130	0.77	0	30	
1,3-butadiene	0.9200	0.15	1	0	92.0	70	130	1.13	20.5	30	
1,3-Dichlorobenzene	1.040	0.15	1	0	104	70	130	0.97	6.97	30	
1,4-Dichlorobenzene	1.050	0.15	1	0	105	70	130	1	4.88	30	
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130	1.07	8.78	30	
2,2,4-trimethylpentane	1.050	0.15	1	0	105	70	130	1.09	3.74	30	
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
Acetone	1.130	0.30	1	0	113	70	130	1.23	8.47	30	
Allyl chloride	0.8500	0.15	1	0	85.0	70	130	1.08	23.8	30	
Benzene	1.170	0.15	1	0	117	70	130	1.12	4.37	30	
Benzyl chloride	2.070	0.15	1	0	207	70	130	1.76	16.2	30	S
Bromodichloromethane	1.480	0.15	1	0	148	70	130	1.28	14.5	30	S
Bromoform	1.630	0.15	1	0	163	70	130	1.59	2.48	30	S
Bromomethane	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Carbon disulfide	0.8900	0.15	1	0	89.0	70	130	0.72	21.1	30	
Carbon tetrachloride	1.560	0.040	1	0	156	70	130	1.28	19.7	30	S
Chlorobenzene	1.050	0.15	1	0	105	70	130	1.08	2.82	30	
Chloroethane	1.020	0.15	1	0	102	70	130	1.1	7.55	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

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

Page 1 of 3

CLIENT: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UGD-030310	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	1.030	0.15	1	0	103	70	130	1.12	8.37	30	
Chloromethane	1.090	0.15	1	0	109	70	130	1.14	4.48	30	
cis-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70	130	0.92	14.0	30	
cis-1,3-Dichloropropene	1.150	0.15	1	0	115	70	130	1.17	1.72	30	
Cyclohexane	1.070	0.15	1	0	107	70	130	1.1	2.76	30	
Dibromochloromethane	1.320	0.15	1	0	132	70	130	1.24	6.25	30	S
Ethyl acetate	0.8000	0.25	1	0	80.0	70	130	1	22.2	30	
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130	0.91	6.82	30	
Freon 11	1.000	0.15	1	0	100	70	130	1.12	11.3	30	
Freon 113	1.290	0.15	1	0	129	70	130	1	25.3	30	
Freon 114	1.030	0.15	1	0	103	70	130	1.13	9.26	30	
Freon 12	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Heptane	1.020	0.15	1	0	102	70	130	1.12	9.35	30	
Hexachloro-1,3-butadiene	1.260	0.15	1	0	126	70	130	1.18	6.56	30	
Hexane	0.8600	0.15	1	0	86.0	70	130	1.01	16.0	30	
Isopropyl alcohol	0.7400	0.15	1	0	74.0	70	130	0.78	5.26	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	1.98	2.56	30	
Methyl Butyl Ketone	1.280	0.30	1	0	128	70	130	1.14	11.6	30	
Methyl Ethyl Ketone	0.8400	0.30	1	0	84.0	70	130	1.02	19.4	30	
Methyl Isobutyl Ketone	1.010	0.30	1	0	101	70	130	1	0.995	30	
Methyl tert-butyl ether	0.7300	0.15	1	0	73.0	70	130	0.8	9.15	30	
Methylene chloride	1.120	0.15	1	0	112	70	130	0.88	24.0	30	
o-Xylene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
Propylene	0.9700	0.15	1	0	97.0	70	130	0.96	1.04	30	
Styrene	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Tetrachloroethylene	1.270	0.15	1	0	127	70	130	1.21	4.84	30	
Tetrahydrofuran	1.180	0.15	1	0	118	70	130	0.84	33.7	30	R
Toluene	0.9600	0.15	1	0	96.0	70	130	1	4.08	30	
trans-1,2-Dichloroethene	0.8200	0.15	1	0	82.0	70	130	0.99	18.8	30	
trans-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Trichloroethene	1.300	0.040	1	0	130	70	130	1.28	1.55	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
	Spike Recovery outside accepted recovery limits				

CLIENT: EnviroGroup Limited
Work Order: C1003003
Project: LEICA

ANALYTICAL QC SUMMARY REPORT

TestCode: 0.25CT-TCE-VC

Sample ID: LCS1UGD-030310	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 3317						
Client ID: ZZZZZ	Batch ID: R3317	TestNo: TO-15		Analysis Date: 3/3/2010	SeqNo: 41350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	0.7300	0.15	1	0	73.0	70	130	0.86	16.4	30	
Vinyl Bromide	0.9200	0.15	1	0	92.0	70	130	1	8.33	30	
Vinyl chloride	1.050	0.040	1	0	105	70	130	1.13	7.34	30	

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				

Data File : C:\HPCHEM\1\DATA\AH030327.D

Vial: 46

Acq On : 4 Mar 2010 2:38

Operator: RJP

Sample : LCS1UGD-030310

Inst : MSD #1

Misc : LCS1UGD-030310

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 03:00:10 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	12793	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	25614	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	23138	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	10521	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%

Target Compounds

						Qvalue
2) Propylene	2.93	41	9104	0.97	ppb	92
3) Freon 12	2.97	85	87150	1.12	ppb	98
4) Chloromethane	3.11	50	18144	1.09	ppb	97
5) Freon 114	3.11	85	53601	1.03	ppb	99
6) Vinyl Chloride	3.25	62	15212	1.05	ppb	100
7) 1,3-butadiene	3.33	39	9256	0.92	ppb	88
8) Bromomethane	3.58	94	19904	1.01	ppb	99
9) Chloroethane	3.70	64	6324	1.02	ppb	96
10) Vinyl Bromide	3.95	106	17435	0.92	ppb	98
11) Freon 11	4.16	101	56835	1.00	ppb	98
12) Acetone	4.32	58	5305	1.13	ppb	93
13) Isopropyl alcohol	4.42	45	10203	0.74	ppb	83
14) 1,1-dichloroethene	4.76	96	16506	0.95	ppb	96
15) Freon 113	4.94	101	55310	1.29	ppb	99
16) Methylene chloride	5.16	84	19758	1.12	ppb	96
17) Allyl chloride	5.16	41	10467	0.85	ppb	98
18) Carbon disulfide	5.29	76	49674	0.89	ppb	97
19) trans-1,2-dichloroethene	6.01	61	19125	0.82	ppb	98
20) methyl tert-butyl ether	6.08	73	22988m	0.73	ppb	
21) 1,1-dichloroethane	6.40	63	32898	1.02	ppb	95
22) Vinyl acetate	6.43	43	15608	0.73	ppb	97
23) Methyl Ethyl Ketone	6.92	43	24277	0.84	ppb	94
24) cis-1,2-dichloroethene	7.28	61	16842	0.80	ppb	99
25) Hexane	6.92	41	12689	0.86	ppb	91
26) Ethyl acetate	7.50	43	16403	0.80	ppb	99
27) Chloroform	7.87	83	53246	1.03	ppb	98
28) Tetrahydrofuran	8.07	42	9795m	1.18	ppb	
29) 1,2-dichloroethane	8.95	62	30299	0.96	ppb	92
31) 1,1,1-trichloroethane	8.66	97	45152m	1.38	ppb	
32) Cyclohexane	9.36	56	10549	1.07	ppb	# 20
33) Carbon tetrachloride	9.29	117	67231	1.56	ppb	98
34) Benzene	9.27	78	35433	1.17	ppb	96
35) 1,4-dioxane	11.10	88	3636	0.98	ppb	92
36) 2,2,4-trimethylpentane	10.23	57	29934	1.05	ppb	92
37) Heptane	10.66	43	9405	1.02	ppb	93
38) Trichloroethene	10.75	130	26254	1.30	ppb	98
39) 1,2-dichloropropane	10.86	63	16346	1.52	ppb	96
40) Bromodichloromethane	11.26	83	46353	1.48	ppb	100
41) cis-1,3-dichloropropene	12.16	75	15643	1.15	ppb	100
42) trans-1,3-dichloropropene	12.95	75	13364	1.12	ppb	100
43) 1,1,2-trichloroethane	13.26	97	25948	1.52	ppb	96
45) Toluene	12.99	92	19308	0.96	ppb	99
46) Methyl Isobutyl Ketone	12.12	43	10041	1.01	ppb	96
47) Dibromochloromethane	13.93	129	43691	1.32	ppb	100
48) Methyl Butyl Ketone	13.50	43	9520	1.28	ppb	95
49) 1,2-dibromoethane	14.18	107	36923	1.29	ppb	97
50) Tetrachloroethylene	14.02	164	29522	1.27	ppb	100

Data File : C:\HPCHEM\1\DATA\AH030327.D

Vial: 46

Acq On : 4 Mar 2010 2:38

Operator: RJP

Sample : LCS1UGD-030310

Inst : MSD #1

Misc : LCS1UGD-030310

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 04 03:00:10 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) Chlorobenzene	14.96	112	36445	1.05	ppb	99
52) Ethylbenzene	15.23	91	34163	0.85	ppb	96
53) m&p-xylene	15.43	91	68734	1.93	ppb	100
54) Styrene	15.82	104	18182	0.83	ppb	99
55) Bromoform	15.91	173	41408	1.63	ppb	98
56) o-xylene	15.85	91	38251	0.93	ppb	97
58) 1,1,2,2-tetrachloroethane	16.27	83	47078	1.40	ppb	98
59) 4-ethyltoluene	17.03	105	22319	0.91	ppb	98
60) 1,3,5-trimethylbenzene	17.10	105	29332	0.77	ppb	99
61) 1,2,4-trimethylbenzene	17.51	105	22635	0.73	ppb	98
62) 1,3-dichlorobenzene	17.76	146	34447	1.04	ppb	99
63) benzyl chloride	17.82	91	19719	2.07	ppb	96
64) 1,4-dichlorobenzene	17.88	146	34133	1.05	ppb	99
65) 1,2-dichlorobenzene	18.16	146	30461	1.01	ppb	99
66) 1,2,4-trichlorobenzene	19.78	180	12975	0.91	ppb	99
67) Hexachloro-1,3-butadiene	20.04	225	34529	1.26	ppb	98

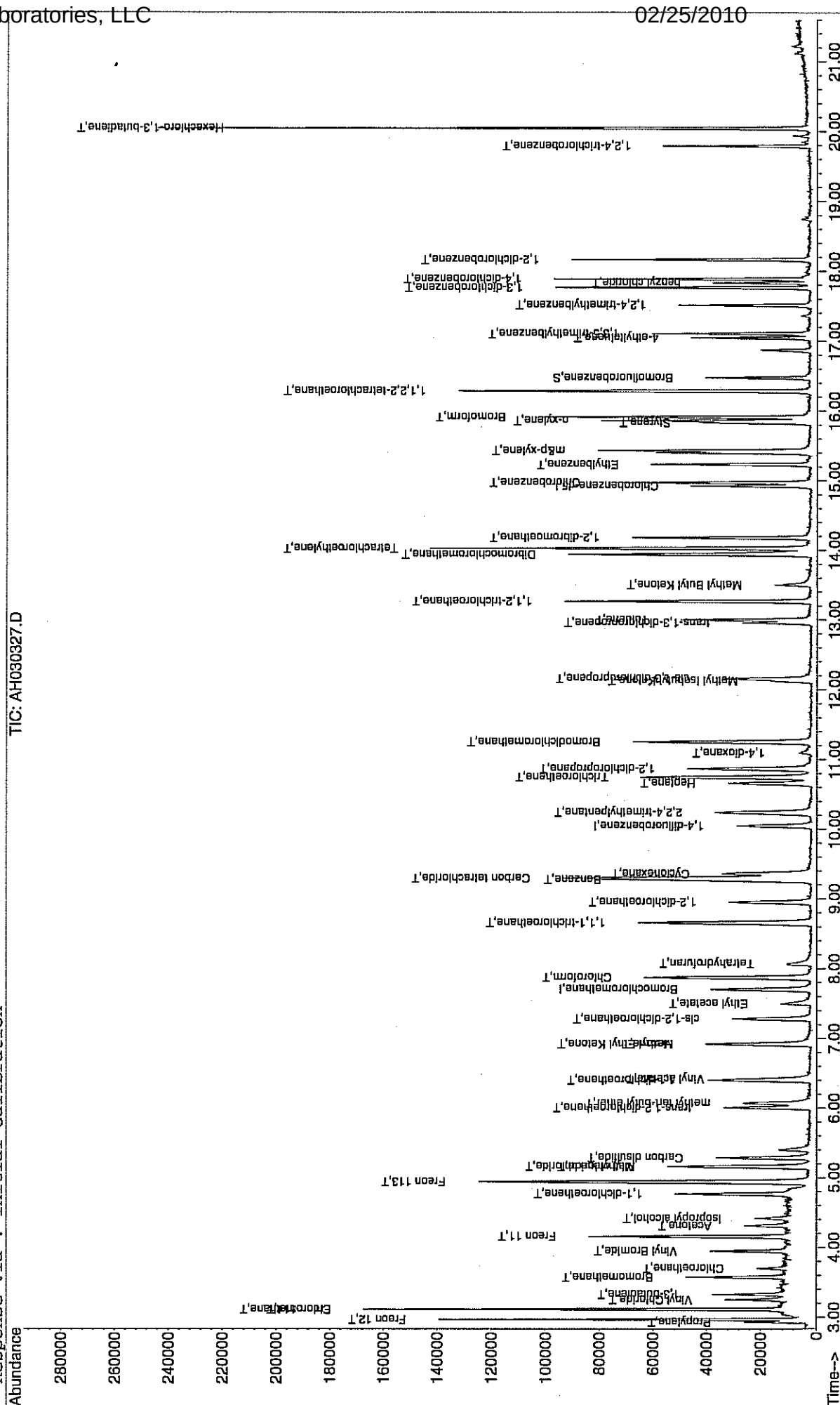
Data File : C:\HPCHEM\1\DATA\AH030327.D
 Acq On : 4 Mar 2010 2:38
 Sample : LCS1UGD-030310
 Misc : LCS1UGD-030310
 MS Integration Params: RTEINT.P
 Quant Time: Mar 8 18:52 2010

Vial: 46
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integration)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Apr 22 13:10:30 2010
 Response via : Initial Calibration

TIC: AH030327.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC

Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 7653
Standard Stock #(s) 7654
LCS Stock #(s) _____

Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFAIUG	A4020901	-		A005 f		2/7/10	1655		
	AIUG-2.0	03	-		A209-104					
	1.50	04	-							
	1.25	05	-							
	1.0	06	-							
	0.75	07	-							
	0.50	08	-							
	0.30	09	-							
	0.15	10	-							
	0.10	11	-							
	0.04	15	-				2/10/10	0033		
	0.5K	17								

Analyzed by: mf

Page No: 172

Injection Logbook A-MSD

Internal Standard Stock #: 7720

Standard Stock #(s) 7711

LCS Stock #(s) 7712

Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Centek Laboratories, LLC

Instrument: HP5973 MSD

GC Column: J&W DB-5MS, 1.5u, 60M

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj. Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	AFALUT	AM030301	-	-	A205-104		3/3/10	1176		
	A106-10	02	-	100						
	LCS106-030310	04	-							
	MB106	05	-							
	WPC-030310A	06	-							
	B	07	-							
	C	08	-							
	D	09	-							
	E	10	-							
	F	11	-							
	G	12	-							
	H	13	-							
	I	14	-							
		15	-							
	C1003005-001	16	-							
	002	17	-							
	003	18	-							
	004	20	-							
	C1003006-003	21	-				3/4/10	0022		
	1 m3	22	-							
	4 m3	23	-							
	001	24	-							
	002	25	-							
	004	26	-							
	005	27	-							
	LCS106-030310	28	-							
	C1003003-001	29	-							
	002	30	-					0417		
	003		-							

Page No: 200

Analyzed by: *NA*

Centek Laboratories, LLC

Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5 μ , 60M

Injection Logbook A-MSD

Internal Standard Stock #: 1720
Standard Stock #(s) _____
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

[illegible]

Analyzed by: W.A.

NOT IN CAN

Page No: 204

Centek Laboratories, LLC

Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5 μ , 60M

Injection Logbook A-MSD

Internal Standard Stock #: 7722

Standard Stock #(s) 7111

LCS Stock #(s) 7712

Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj. Vol. cc	Method/Q File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BF31105	AN030401	-	-	A209-106		3/4/10	1236		
	ANUG-1.0	02	-	2.00						
	LS106-030410	03	-							
	MB106-4	04	-							
	WAC030410A	05	-							
	B	06	-							
	C	07	-							
	D	08	-							
	E	09	-						N	
	C1003006-003.00	10	5	40						
	001	11	1							
	002	12	1							
	004	13	10	20						
	005	14	5	40						
	C1003003-001	15								
	002	16								
	003	17								
	004	18								
	005	19								
	006+	20					3/5/10	0018		
	BLK	21	-							

Analyzed by: VP

Page No: 205

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc/ppbV	Prep by	Chkd by
6117	11/11/08	11/14/08	TO15 IUT IS ^A	6112	50ppb	0.5psia	30psia	1ppb	MD	
6118	11/12/08	11/09	TO15 IS	AB-2253	1ppm	SPECTRA GASES			MP	
6119			TO15 SUBSET	AB-2274						
6120			TO14 MIX	AB-2236						
6121	11/14/08	11/21/08	TO15 IS	6118	1ppm	1.5psia	30psia	50ppb	MD	
6122			STD	4192/4193						
6123			LCS	2056/2057						
6124			TO15 IUT IS ^A	6121	50ppb	0.5psia	45psia	1ppb		
6125			STD ^A	6122						
6126			LCS	6123						
6127	11/15/08		TO15 IUT IS ^A	6121	50ppb	0.5psia	45psia	1ppb		
6128	11/17/08	11/21/08	TO15 IUT IS ^B	6121						
6129			STD ^B	6122						
6130			IS ^A							
6131	11/18/08		IS ^A							
6132			IS ^B							
6133	11/19/08		IS ^A							
6134			IS ^B							

Page # 40

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc/ppbV	Prep by	Chkd by
7365	8/30/09	8/31/09	T0151VT IS ^A	7352	50ppb	0.9psig	45psig	1ppb	MP	
7366	8/31/09	9/1/09	T015 IS	06503 883	1ppm SCOTT GAGES			1ppm	MP	
7367	8/31/09	9/6/09	T015 IS	7366	1ppm	1.5psig	30psig	50ppb	MP	
7368			STD	619/20						
7369			LCS	612/13						
7370			SI-1/SUL	6194						
7371			T0151VT IS ^A	7367	50ppb	0.9psig	45psig	1ppb		
7372			STD ^A	7368						
7373			LCS	7369						
7374	9/11/09		T0151VT IS ^A	7367						
7375	9/12/09									
7376	9/11/09	9/6/09	T0151VT IS ^(B)	7367	50ppb	0.9psig	45psig	1ppb	Z.L.	
7377			STD ^(B)	7368						
7378	9/2/09	9/6/09	T0151VT IS ^(B)	7367	50ppb	0.9psig	45psig	1ppb	Z.L.	
7379	9/2/09	9/6/09	IS ^(A)	7367					Z.L.	
7380	9/3/09	9/10/09	T015 IS	7366	1ppm	1.5psig	30psig	50ppb	Z.L.	
7381	9/3/09	9/16/09	T0151VT IS ^(A)	7380	50ppb	0.9psig	45psig	1ppb	Z.L.	
7382	9/3/09	9/10/09	IS ^(B)	7380						
7382A	8/31/09	9/6/09	T0151VT IS ^(B)	7367	50ppb	0.9psig	45psig	1ppb	Z.L.	
7382B			STD ^(B)	7368						

Page #

65

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc/ppbv	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS ^(B)	7601	50ppb	0.9psig	4.5psia	1ppb	Z.Z.	
7610	1/20/10	1/25/10	TO15 IUT IS ^(B)	7601	50ppb	0.9psig	4.5psia	1ppb	Z.Z.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	Z.Z.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	4.5psia	50ppb	Z.Z.	
7614	1/21/10	1/25/10	TD15 IS	7366	1ppm	1.5psig	30psia	50ppb	Z.Z.	
7615	1/21/10	1/25/10	TO15 IUT IS ^(B)	7614	50ppb	0.9psig	4.5psia	1ppb	Z.Z.	
7616	1/22/10	1/25/10	TO15 IUT IS ^(B)	7614	50ppb	0.9psig	4.5psia	1ppb	Z.Z.	
7617	1/25/10	1/20/11	TO15 SUBSET AB-HH60	AB-4573	1ppm	1800psig	Spectra Gases	1ppm	↓	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	Spectra Gases	1ppm	NO	
7619	1/25/10	1/25/11	FIXED GASES	105940 216304	% VARIES	10L	MATHECON TRA-GAS		Z.Z.	
7620	1/25/10	2/1/10	TO15 IUT IS ^(A)	7366	1ppm	1.5psig	30psia	50ppb	↓	
7621	↓	↓	STD	7617/748 7384/748	↓	↓	↓	↓	↓	
7622	↓	↓	LCS	619/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS ^(A)	7620	50ppb	0.9psig	4.5psia	1ppb	Z.Z.	
7624	↓	↓	STD	7621	↓	↓	↓	↓	↓	
7625	↓	↓	LCS	7622	↓	↓	↓	↓	↓	
7626	↓	↓	IS ^(B)	7620	↓	↓	↓	↓	↓	

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc/ppbV	Prep by	Chkd by
7699	2/24/10	3/1/10	T0151UGIS ^(A)	7697	50ppb	0.9psig	45psia	1ppb	Z.Z.	
7700	2/25/10	3/1/10	T0151UGIS ^(A)	7697	50ppb	0.9psig	45psia	1ppb	M	
7701	2/25/10	3/1/10	T0151UGIS ^(B)	7697	50ppb	0.9psig	45psia	1ppb	Z.Z.	
7702	2/26/10	3/1/10	T0151UGIS ^(A)	7697	50ppb	0.9psig	45psia	1ppb	Z.Z.	
7703	2/26/10	3/1/10	T0151UGIS ^(B)	7697	50ppb	0.9psig	45psia	1ppb	Z.Z.	
7704	2/27/10	3/4/10	T0151IS	7366	1ppm	1.5psig	30psia	50ppb	"	
7705	2/27/10	3/6/10	T0151UGIS ^(A)	7704	50ppb	0.9psig	45psia	1ppb		
7706	2/28/10	3/6/10	T0151UGIS ^(A)	7704	50ppb	0.9psig	45psia	1ppb		
7707	3/1/10	3/8/10	T0151IS	7366	1ppm	1.5psig	30psia	50ppb	Z.Z.	
7708			STD	7617/748						
7709			LCS	6119/6126						
7710	3/1/10	3/8/10	T0151UGIS ^(A)	7707	50ppb	0.9psig	45psia	1ppb	A	
7711			STD	7708						
7712			LCS	7709						
7713	3/1/10	3/8/10	T0151UGIS ^(B)	7707	50ppb	0.9psig	45psia	1ppb	Z.Z.	
7714			STD	7708						
7715	3/2/10	3/8/10	T0151UGIS ^(A)	7707	50ppb	0.9psig	45psia	1ppb	M	
7716	3/2/10	3/8/10	T0151UGIS ^(B)	7707	50ppb	0.9psig	45psia	1ppb	Z.Z.	

Page # 84

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	final vol	Final conc/ppbV	Prep by	Chkd by
7717	3/3/10	3/10/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	Z.Z.	
7718	3/3/10	3/10/10	FORM 50ppb	7717	10ppm	0.23psig	45psia	50ppb	↓	
7719	3/3/10	3/10/10	SILX/SOLF	6194/7046	1ppm	1.5psig	30psia	50ppb	Z.Z.	
7720	3/3/10	3/10/10	TO15 IUGIS ^(A)	7707	50ppb	0.9psig	45psia	1ppb	N	
7721	3/3/10	3/10/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	Z.Z.	
7722	3/4/10	3/10/10	TO15 IUGIS ^(A)	7721	50ppb	0.9psig	45psia	1ppb	P	
7723	3/5/10	3/12/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb		
7724	3/5/10	3/12/10	TO15 IUGIS ^(A)	7723	50ppb	0.9psig	45psia	1ppb		
7725	3/6/10	3/12/10	TO15 IUGIS ^(A)	7723	50ppb	0.9psig	45psia	1ppb	↓	
7726	3/8/10	3/15/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	N	
7727	↓	↓	↓ STD	7617/7618	↓	↓	↓	↓	↓	
7728	↓	↓	↓ LCS	619/6120	↓	↓	↓	↓	↓	
7729	3/8/10	3/15/10	TO15 IUGIS ^(A)	7726	50ppb	0.9psig	45psia	1ppb	N	
7730	↓	↓	↓ STD ^(A)	7727	↓	↓	↓	↓	↓	
7731	↓	↓	↓ LCS	7728	↓	↓	↓	↓	↓	
7732	3/8/10	3/15/10	TO15 IUGIS ^(B)	7726	50ppb	0.9psig	45psia	1ppb	Z.Z.	
7733	↓	↓	↓ STD ^(B)	7727	↓	↓	↓	↓	↓	
7734	3/9/10	3/15/10	TO15 IUGIS ^(A)	7726	50ppb	0.9psig	45psia	1ppb	N	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

QC Canister Cleaning &
Maintenance Logbook

Centek Laboratories, LLC
Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Maintenance
332	472	30	2/18/10	WAC 021810A	147/m3
427		✓			ACE
410		✓			14.5
168		✓			
472	✓				
475	349	30		WAC 021810B	
473		✓			
192		✓			
106		✓			
349	✓				
131	327	30		WAC 021810C	
242		✓			
192		✓			
542	✓				
327		30		WAC 021810D	
200	78	✓			
496		✓			
570		✓			
93		30			
222	✓				
189	202	✓		WAC 021810E	
320		✓			
316	✓				
351	✓	✓			

Cleaned by: L.F. Page # 154

QC Canister Cleaning &
Maintenance Logbook

Centek Laboratories, LLC

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Maintenance
202	202	30	02/18/10	WAC021810E	Aug 13 + 0.25
367	359			WAC021810F	TRF, CT, VNC
463					
462					
107					
359					
621	615			WAC021810G	
579					
591					
630					
615					
575	219			WAC021810H	
602					
572					
610					
219					
597	569			WAC021810I	
622					
580					
613					
569					

Cleaned by: 272 Page # 155

Data File : C:\HPCHEM\1\DATA2\10FEB\AH021821.D

Vial: 44

Acq On : 18 Feb 2010 21:09

Operator: RJP

Sample : WAC021810E

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 18 21:31:18 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	16376	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	50080	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	35249	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	15477	0.91	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\10FEB\AH021821.D

Vial: 44

Acq On : 18 Feb 2010 21:09

Operator: RJP

Sample : WAC021810E

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 15 7:18 2010

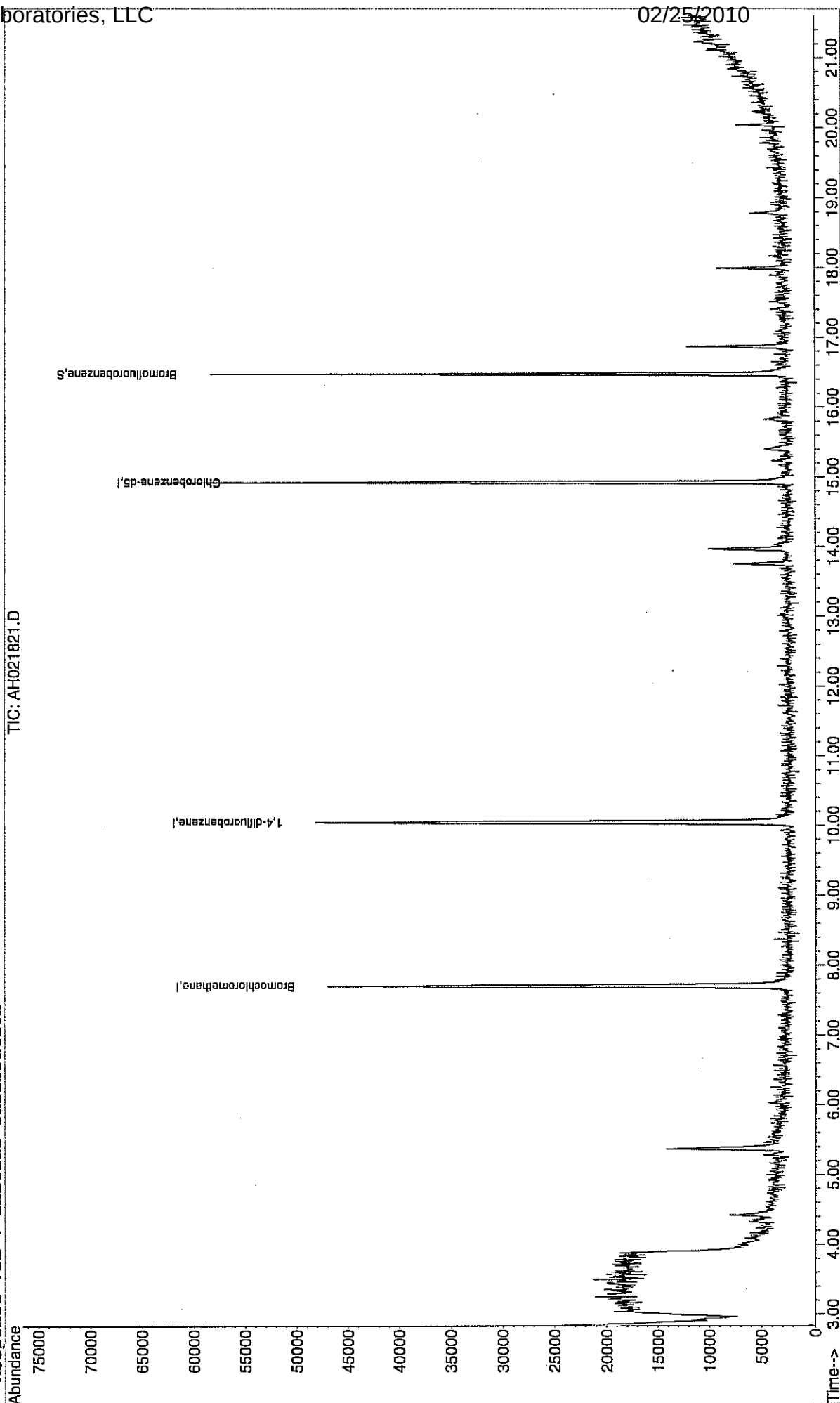
Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A314_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Apr 24 11:04:40 2010

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\10FEB\AH021822.D

Vial: 45

Acq On : 18 Feb 2010 21:42

Operator: RJP

Sample : WAC021810F

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 18 22:04:12 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	17787	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	56348	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	43869	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	17380	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\10FEB\AH021822.D

Vial: 45

Acq On : 18 Feb 2010 21:42

Operator: RJP

Sample : WAC021810F

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 15 7:19 2010

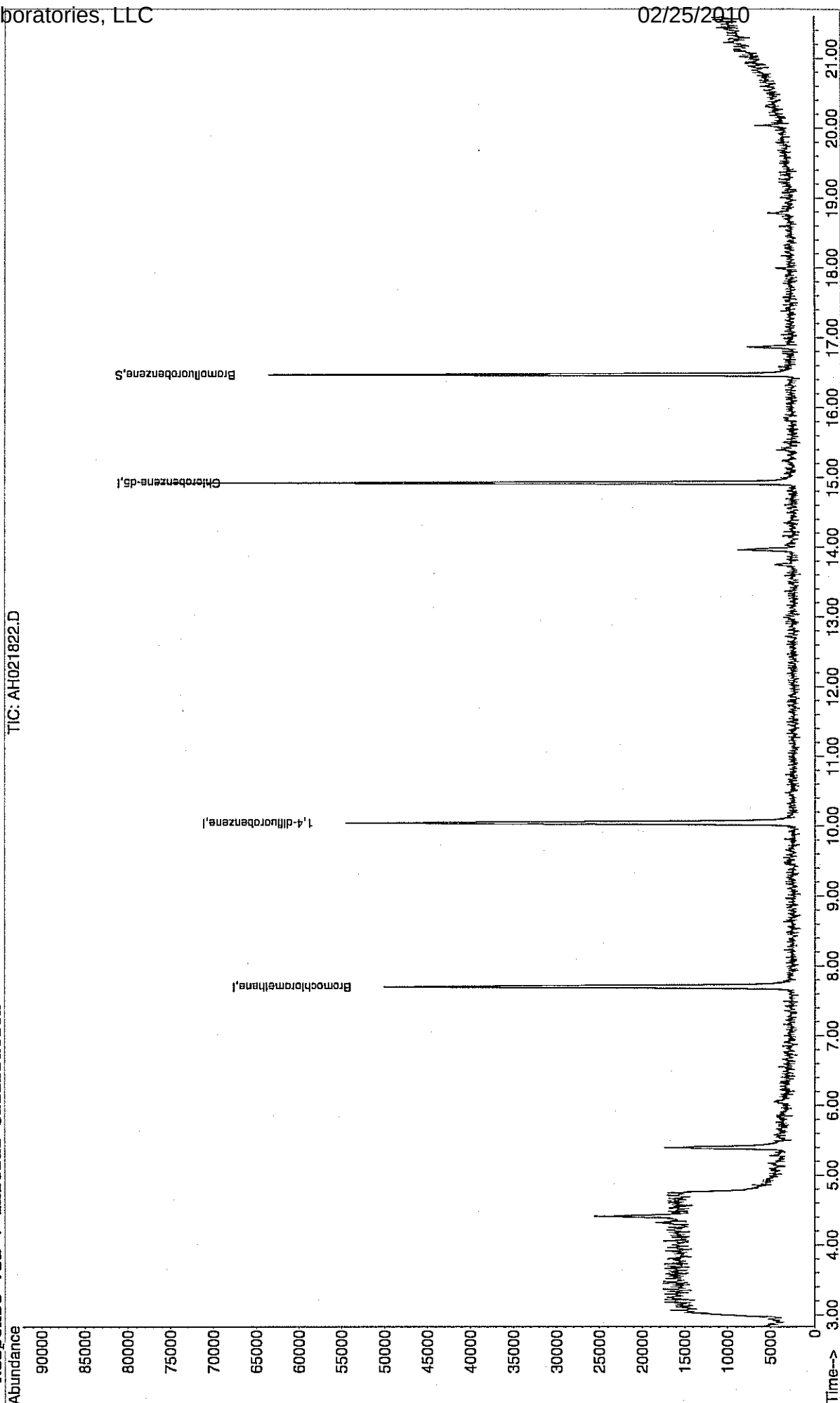
Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A314_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Apr 24 11:04:40 2010

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\10FEB\AH021823.D

Vial: 46

Acq On : 18 Feb 2010 22:15

Operator: RJP

Sample : WAC021810G

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 18 22:37:11 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	16233	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.05	114	49752	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	39309	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.47	95	15573	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\10FEB\AH021823.D

Vial: 46

Acq On : 18 Feb 2010 22:15

Operator: RJP

Sample : WAC021810G

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 15 7:19 2010

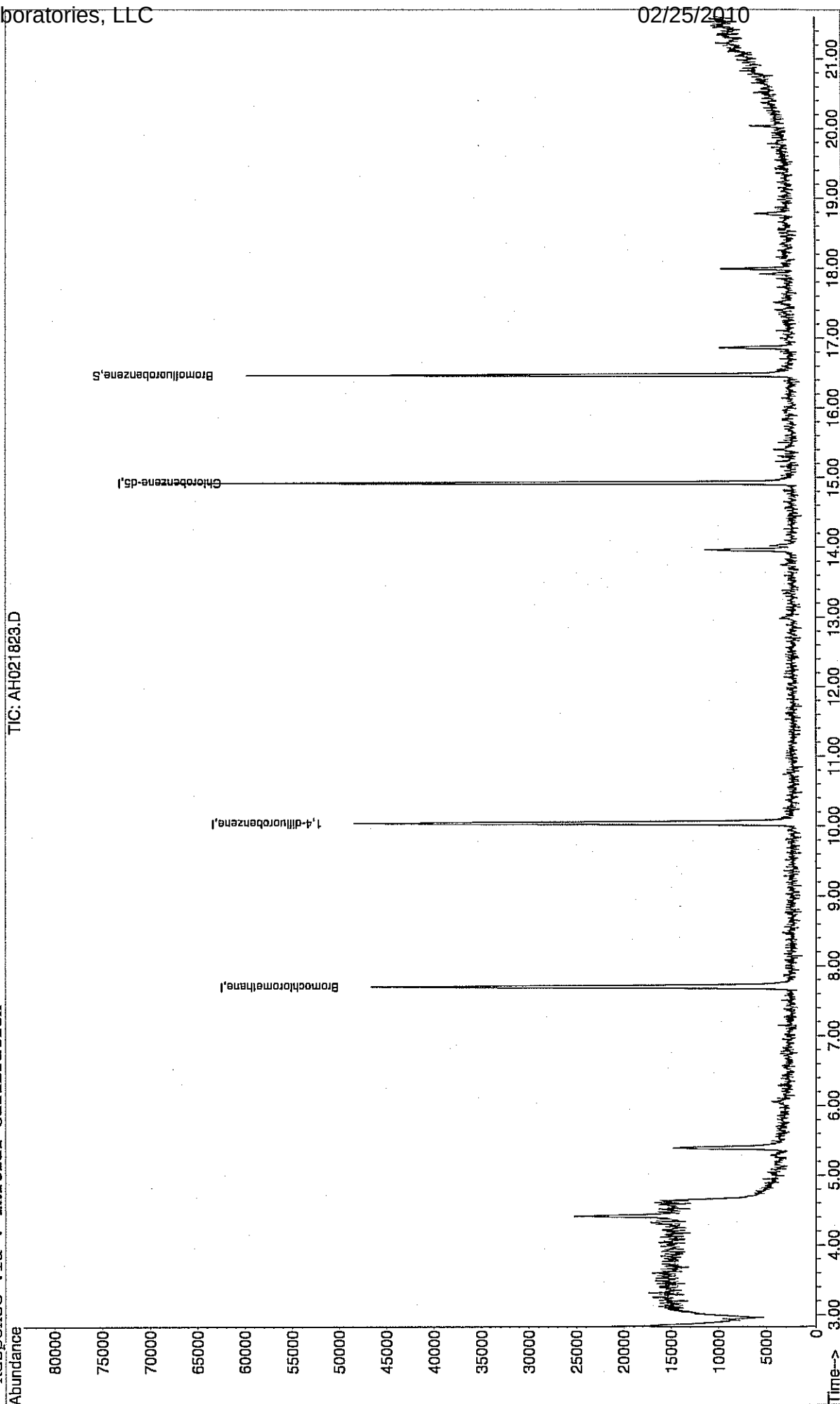
Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A314_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Apr 24 11:04:40 2010

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\10FEB\AH021824.D

Vial: 47

Acq On : 18 Feb 2010 22:48

Operator: RJP

Sample : WAC021810H

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 18 23:10:18 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14740	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	43988	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	32175	1.00	ppb	0.00

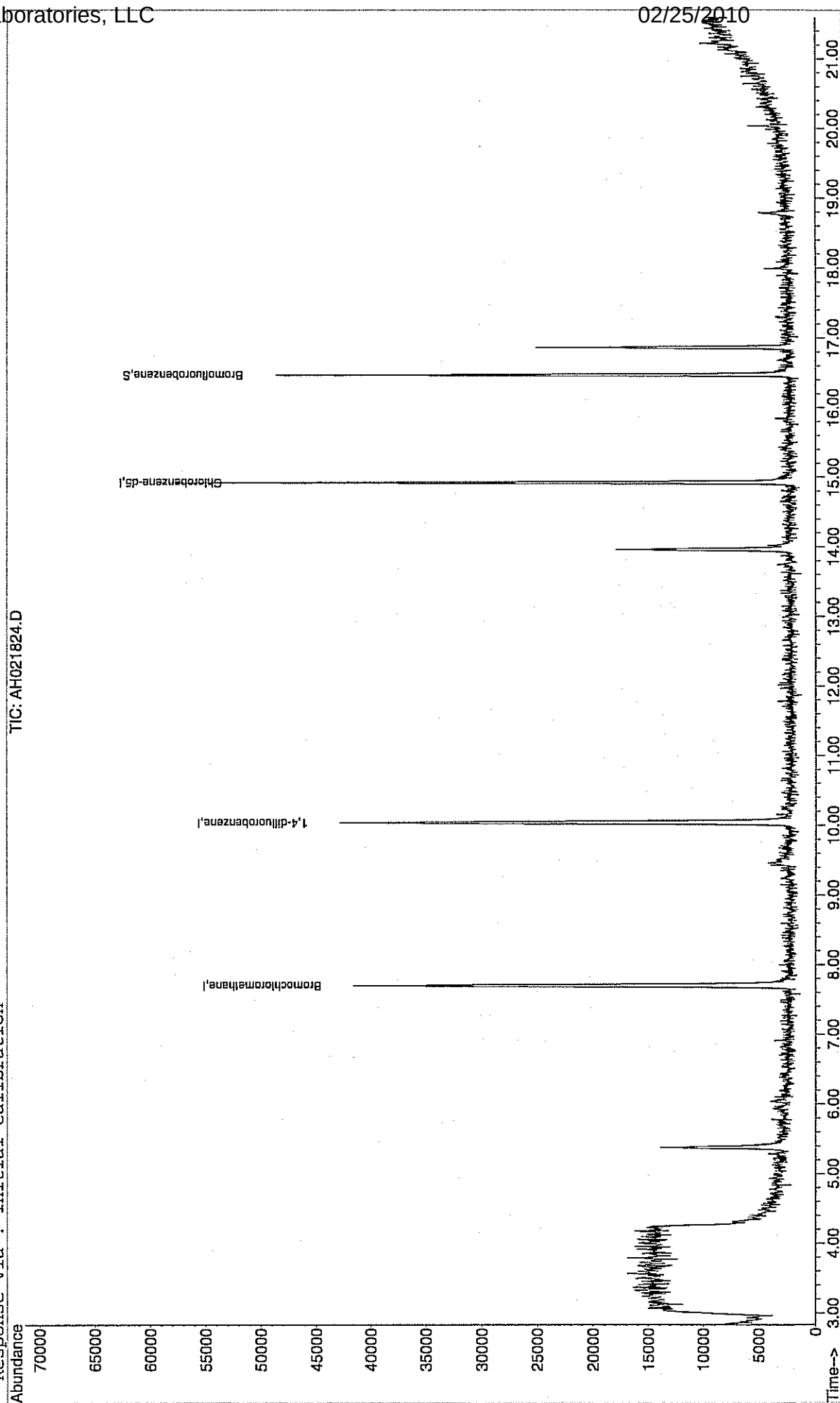
System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	12536	0.81	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	81.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\10FEB\AH021824.D
Acq On : 18 Feb 2010 22:48
Sample : WAC021810H
Misc : 1UG + 0.25
MS Integration Params: RTEINT.P
Quant Time: Feb 19 0:10 2010
Quant Results File: A209_1UG.RES
Vial: 47
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Method : C:\HPCHEM\1\METHODS\A314_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Apr 24 11:04:40 2010
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\10FEB\AH021825.D

Vial: 48

Acq On : 18 Feb 2010 23:21

Operator: RJP

Sample : WAC021810I

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 18 23:43:09 2010

Quant Results File: A209_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A209_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Feb 10 08:53:54 2010

Response via : Initial Calibration

DataAcq Meth : A209_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	15724	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.04	114	47938	1.00	ppb	0.00
44) Chlorobenzene-d5	14.92	117	35819	1.00	ppb	0.00

System Monitoring Compounds

57) Bromofluorobenzene	16.46	95	13606	0.79	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	79.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\10FEB\AH021825.D

Vial: 48

Acq On : 18 Feb 2010 23:21

Operator: RJP

Sample : WAC0218101

Inst : MSD #1

Misc : 1UG + 0.25

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 15 7:19 2010

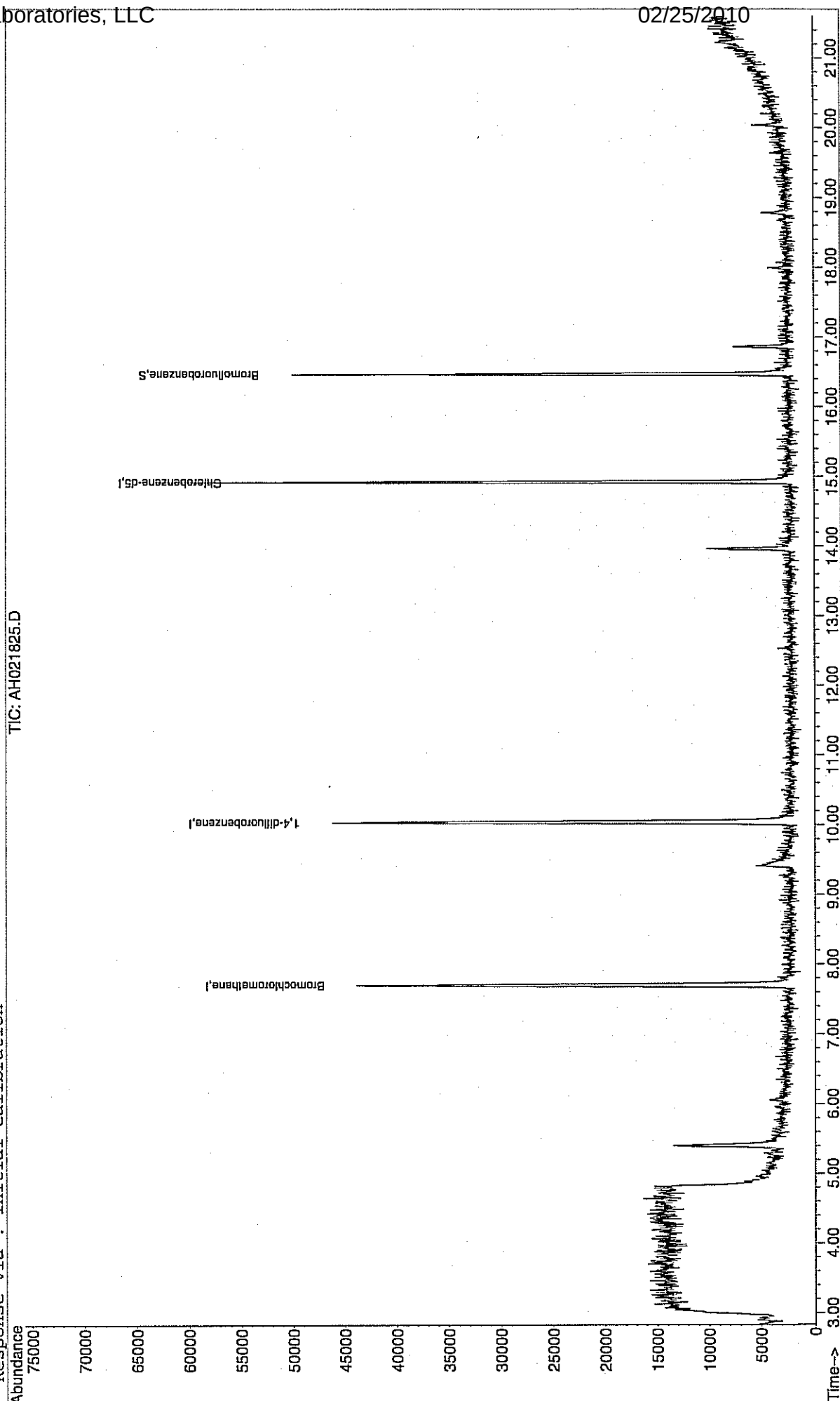
Quant Results File: A209_1UG.RES

Method : C:\HPCHEM\1\METHODS\A314_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Apr 24 11:04:40 2010

Response via : Initial Calibration



APPENDIX B

4/9/2010

Mr. Eric Lovenduski

EnviroGroup

46 Lake Avenue, Suite 102

Saratoga Springs NY 12866

Project Name: Leica

Project #: LE-0614

Workorder #: 1003633B

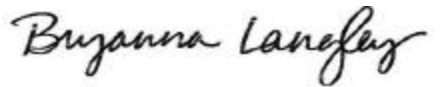
Dear Mr. Eric Lovenduski

The following report includes the data for the above referenced project for sample(s) received on 3/29/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley

Project Manager

WORK ORDER #: 1003633B

Work Order Summary

CLIENT: Mr. Eric Lovenduski
EnviroGroup
46 Lake Avenue, Suite 102
Saratoga Springs, NY 12866

BILL TO: Accounts Payable
EnviroGroup
7009 S. Potomac Street
Suite 300
Centennial, CO 80112

PHONE: 518-258-3859

P.O. #

FAX:

PROJECT # LE-0614 Leica

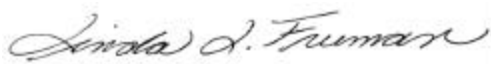
DATE RECEIVED: 03/29/2010

CONTACT: Bryanna Langley

DATE COMPLETED: 04/09/2010

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
11A	130-PRE-IA-2	Modified TO-15	6.0 "Hg	5 psi
11B	130-PRE-IA-2	Modified TO-15	6.0 "Hg	5 psi
12A	Lab Blank	Modified TO-15	NA	NA
12B	Lab Blank	Modified TO-15	NA	NA
13A	CCV	Modified TO-15	NA	NA
13B	CCV	Modified TO-15	NA	NA
14A	LCS	Modified TO-15	NA	NA
14B	LCS	Modified TO-15	NA	NA

CERTIFIED BY:



DATE: 04/09/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
EnviroGroup
Workorder# 1003633B

One 6 Liter Summa Canister sample was received on March 29, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 130-PRE-IA-2

Lab ID#: 1003633B-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.52	0.83	2.6
Chloromethane	0.17	0.49	0.35	1.0
Freon 11	0.17	0.28	0.94	1.6
Ethanol	0.84	260 E	1.6	490 E
Acetone	0.84	3.5	2.0	8.4
2-Propanol	0.84	16	2.1	39
Toluene	0.17	0.33	0.63	1.2

Client Sample ID: 130-PRE-IA-2

Lab ID#: 1003633B-11B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Tetrachloride	0.034	0.068	0.21	0.43

Client Sample ID: 130-PRE-IA-2

Lab ID#: 1003633B-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040525	Date of Collection:	3/25/10 11:29:00 AM	
Dil. Factor:	1.68	Date of Analysis:	4/6/10 07:00 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.52	0.83	2.6
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.49	0.35	1.0
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.17	Not Detected	0.65	Not Detected
Chloroethane	0.17	Not Detected	0.44	Not Detected
Freon 11	0.17	0.28	0.94	1.6
Ethanol	0.84	260 E	1.6	490 E
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	3.5	2.0	8.4
2-Propanol	0.84	16	2.1	39
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	Not Detected	0.50	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Benzene	0.17	Not Detected	0.54	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.69	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	0.33	0.63	1.2
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected

Client Sample ID: 130-PRE-IA-2

Lab ID#: 1003633B-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040525	Date of Collection: 3/25/10 11:29:00 AM
Dil. Factor:	1.68	Date of Analysis: 4/6/10 07:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	Not Detected	0.73	Not Detected
o-Xylene	0.17	Not Detected	0.73	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: 130-PRE-IA-2

Lab ID#: 1003633B-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040525sim	Date of Collection: 3/25/10 11:29:00 AM
Dil. Factor:	1.68	Date of Analysis: 4/6/10 07:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.068	0.21	0.43
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633B-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040505	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	4/5/10 10:06 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1003633B-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633B-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040505sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: CCV

Lab ID#: 1003633B-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 07:44 AM

Compound	%Recovery
Freon 12	102
Freon 114	99
Chloromethane	90
1,3-Butadiene	83
Bromomethane	119
Chloroethane	100
Freon 11	101
Ethanol	77
Freon 113	97
1,1-Dichloroethene	94
Acetone	85
2-Propanol	82
Carbon Disulfide	92
Methylene Chloride	95
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	94
Hexane	86
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	94
Tetrahydrofuran	83
Chloroform	95
1,1,1-Trichloroethane	94
Cyclohexane	90
Benzene	95
1,2-Dichloroethane	99
Heptane	94
1,2-Dichloropropane	93
1,4-Dioxane	92
Bromodichloromethane	91
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	90
Toluene	99
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	91
Tetrachloroethene	91
2-Hexanone	84
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	100

Client Sample ID: CCV

Lab ID#: 1003633B-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 07:44 AM

Compound	%Recovery
Chlorobenzene	96
Ethyl Benzene	97
m,p-Xylene	104
o-Xylene	104
Styrene	101
Bromoform	105
Cumene	106
1,1,2,2-Tetrachloroethane	100
Propylbenzene	108
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 1003633B-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040502sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 07:44 AM

Compound	%Recovery
Trichloroethene	92
Carbon Tetrachloride	104
Vinyl Chloride	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCS

Lab ID#: 1003633B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 08:14 AM

Compound	%Recovery
Freon 12	106
Freon 114	102
Chloromethane	92
1,3-Butadiene	88
Bromomethane	122
Chloroethane	104
Freon 11	105
Ethanol	74
Freon 113	92
1,1-Dichloroethene	88
Acetone	82
2-Propanol	83
Carbon Disulfide	96
Methylene Chloride	92
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	101
Hexane	94
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	102
Tetrahydrofuran	88
Chloroform	105
1,1,1-Trichloroethane	103
Cyclohexane	99
Benzene	102
1,2-Dichloroethane	104
Heptane	101
1,2-Dichloropropane	99
1,4-Dioxane	96
Bromodichloromethane	96
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	91
Toluene	97
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	99
Tetrachloroethene	96
2-Hexanone	92
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	111

Client Sample ID: LCS

Lab ID#: 1003633B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 08:14 AM

Compound	%Recovery
Chlorobenzene	102
Ethyl Benzene	104
m,p-Xylene	109
o-Xylene	108
Styrene	108
Bromoform	113
Cumene	111
1,1,2,2-Tetrachloroethane	112
Propylbenzene	114
4-Ethyltoluene	119
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: LCS

Lab ID#: 1003633B-14B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040503sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 08:14 AM

Compound	%Recovery
Trichloroethene	97
Carbon Tetrachloride	115
Vinyl Chloride	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Re-inquiring signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Reinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 457-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 2 of 2

Project Manager <u>Eric Lovenduski</u>		Project Info:		Turn Around Time:		Lab Use Only	
Collected by: (Print and Sign) <u>Eric Lovenduski</u>		P.O. # _____		Normal ☒ Rush ☐		Pressurized by: _____	
Company <u>Enviropac Corp</u>		Project # <u>LE0614</u>		Date: _____		Date: _____	
Address <u>46 Lake Ave</u>		Project Name <u>Leica</u>		Preaerization Gas: _____		Preaerization Gas: _____	
Phone <u>518-258-3859</u>		Date of Collection _____		Initial _____		Final _____	
Fax <u>303-790-1347</u>		Can # _____		Initial _____		Final _____	
Field Sample I.D. (Location) _____		Analyses Requested _____		Initial _____		Final _____	
LAB <u>130-PRE-1A-2</u>		2237		30		-7	
							
Relinquished by: (signature) _____		Received by: (signature) _____		Notes: _____		Notes: _____	
Date/Time <u>03/26/10 1330</u>		Date/Time <u>03/26/10 1330</u>		Date/Time <u>03/26/10 1330</u>		Date/Time <u>03/26/10 1330</u>	
Relinquished by: (signature) _____		Received by: (signature) _____		Date/Time <u>03/26/10 1330</u>		Date/Time <u>03/26/10 1330</u>	
Relinquished by: (signature) _____		Received by: (signature) _____		Date/Time _____		Date/Time _____	
Shipper Name: _____		Temp (°C) _____		Condition _____		Custody Seals Intact? _____	
Lab Use Only <u>Red CX</u>		Air Bill # _____		NA		Good	
Yes ☒ No ☐		Yes ☒ No ☐		Yes ☒ No ☐		Yes ☒ No ☐	
1008633		1008633		1008633		1008633	

4/9/2010

Mr. Eric Lovenduski

EnviroGroup

46 Lake Avenue, Suite 102

Saratoga Springs NY 12866

Project Name: Leica

Project #: LE-0614

Workorder #: 1003633A

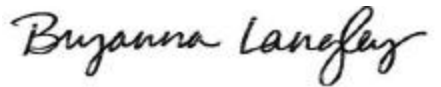
Dear Mr. Eric Lovenduski

The following report includes the data for the above referenced project for sample(s) received on 3/29/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley

Project Manager

WORK ORDER #: 1003633A

Work Order Summary

CLIENT:	Mr. Eric Lovenduski EnviroGroup 46 Lake Avenue, Suite 102 Saratoga Springs, NY 12866	BILL TO:	Accounts Payable EnviroGroup 7009 S. Potomac Street Suite 300 Centennial, CO 80112
PHONE:	518-258-3859	P.O. #	
FAX:		PROJECT #	LE-0614 Leica
DATE RECEIVED:	03/29/2010	CONTACT:	Bryanna Langley
DATE COMPLETED:	04/09/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	TRIP BLANK 03/25/10	Modified TO-15	29.0 "Hg	5 psi
01B	TRIP BLANK 03/25/10	Modified TO-15	29.0 "Hg	5 psi
02A	TREATMENT IN	Modified TO-15	5.0 "Hg	5 psi
03A	TREATMENT OUT	Modified TO-15	5.0 "Hg	5 psi
03AA	TREATMENT OUT Lab Duplicate	Modified TO-15	5.0 "Hg	5 psi
03B	TREATMENT OUT	Modified TO-15	5.0 "Hg	5 psi
03BB	TREATMENT OUT Lab Duplicate	Modified TO-15	5.0 "Hg	5 psi
04A	AA-TS	Modified TO-15	1.5 "Hg	5 psi
04B	AA-TS	Modified TO-15	1.5 "Hg	5 psi
05A	AA-PL	Modified TO-15	4.0 "Hg	5 psi
05B	AA-PL	Modified TO-15	4.0 "Hg	5 psi
06A	PRE-AA	Modified TO-15	1.0 "Hg	5 psi
06B	PRE-AA	Modified TO-15	1.0 "Hg	5 psi
07A	134-PRE-SS-2	Modified TO-15	0.50 "Hg	5 psi
07B	134-PRE-SS-2	Modified TO-15	0.50 "Hg	5 psi
08A	134-PRE-IA-2	Modified TO-15	3.5 "Hg	5 psi
08B	134-PRE-IA-2	Modified TO-15	3.5 "Hg	5 psi

Continued on next page

WORK ORDER #: 1003633A

Work Order Summary

CLIENT: Mr. Eric Lovenduski
EnviroGroup
46 Lake Avenue, Suite 102
Saratoga Springs, NY 12866

BILL TO: Accounts Payable
EnviroGroup
7009 S. Potomac Street
Suite 300
Centennial, CO 80112

PHONE: 518-258-3859

P.O. #

FAX:

PROJECT # LE-0614 Leica

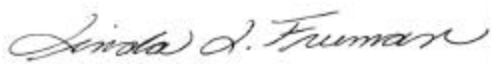
DATE RECEIVED: 03/29/2010

CONTACT: Bryanna Langley

DATE COMPLETED: 04/09/2010

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
09A	134-PRE-IA-2 DUP	Modified TO-15	3.0 "Hg	5 psi
09B	134-PRE-IA-2 DUP	Modified TO-15	3.0 "Hg	5 psi
10A	130-PRE-SS-2	Modified TO-15	2.5 "Hg	5 psi
10B	130-PRE-SS-2	Modified TO-15	2.5 "Hg	5 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
11C	Lab Blank	Modified TO-15	NA	NA
11D	Lab Blank	Modified TO-15	NA	NA
11E	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
12C	CCV	Modified TO-15	NA	NA
12D	CCV	Modified TO-15	NA	NA
12E	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13C	LCS	Modified TO-15	NA	NA
13D	LCS	Modified TO-15	NA	NA
13E	LCS	Modified TO-15	NA	NA

CERTIFIED BY:



DATE: 04/09/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
EnviroGroup
Workorder# 1003633A

Ten 6 Liter Summa Canister samples were received on March 29, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Sample TREATMENT IN was transferred from SIM/Low Level analysis to full scan TO-15 due to high levels of target compounds.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: TRIP BLANK 03/25/10

Lab ID#: 1003633A-01A

No Detections Were Found.

Client Sample ID: TRIP BLANK 03/25/10

Lab ID#: 1003633A-01B

No Detections Were Found.

Client Sample ID: TREATMENT IN

Lab ID#: 1003633A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	16	11000	41	27000
Chloroethane	16	770	42	2000
Freon 113	16	100	120	770
1,1-Dichloroethene	16	190	64	750
trans-1,2-Dichloroethene	16	170	64	660
1,1-Dichloroethane	16	3000	65	12000
cis-1,2-Dichloroethene	16	12000	64	48000
1,1,1-Trichloroethane	16	3200	88	18000
Cyclohexane	16	89	55	310
Trichloroethene	16	5600	86	30000
Toluene	16	160	61	610
Ethyl Benzene	16	150	70	660
m,p-Xylene	16	300	70	1300
o-Xylene	16	130	70	570
1,2,4-Trimethylbenzene	16	26	79	130

Client Sample ID: TREATMENT OUT

Lab ID#: 1003633A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	3.2	9.9	25	76
1,1-Dichloroethene	3.2	28	13	110
trans-1,2-Dichloroethene	3.2	3.5	13	14
1,1-Dichloroethane	3.2	240	13	960
2-Butanone (Methyl Ethyl Ketone)	3.2	4.1	9.5	12
cis-1,2-Dichloroethene	3.2	330	13	1300
1,1,1-Trichloroethane	3.2	540	18	3000

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: TREATMENT OUT Lab Duplicate

Lab ID#: 1003633A-03AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	2.3	2.5	6.1	6.7
Freon 113	2.3	11	18	83
1,1-Dichloroethene	2.3	32	9.1	130
trans-1,2-Dichloroethene	2.3	3.8	9.1	15
1,1-Dichloroethane	2.3	250	9.3	1000
2-Butanone (Methyl Ethyl Ketone)	2.3	4.6	6.8	14
cis-1,2-Dichloroethene	2.3	340	9.1	1400
1,1,1-Trichloroethane	2.3	560	12	3000

Client Sample ID: TREATMENT OUT

Lab ID#: 1003633A-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.32	460	0.82	1200

Client Sample ID: TREATMENT OUT Lab Duplicate

Lab ID#: 1003633A-03BB

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.23	500 E	0.59	1300 E

Client Sample ID: AA-TS

Lab ID#: 1003633A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.42	0.70	2.1
Chloromethane	0.14	0.39	0.29	0.80
Freon 11	0.14	0.19	0.79	1.0
Ethanol	0.70	1.2	1.3	2.3
Acetone	0.70	1.3	1.7	3.1
2-Butanone (Methyl Ethyl Ketone)	0.14	0.16	0.42	0.48
Cyclohexane	0.14	0.25	0.48	0.85
Benzene	0.14	0.15	0.45	0.47
Toluene	0.14	0.52	0.53	2.0

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AA-TS

Lab ID#: 1003633A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.028	0.058	0.15	0.31
Carbon Tetrachloride	0.028	0.058	0.18	0.36
Vinyl Chloride	0.014	0.014	0.036	0.037

Client Sample ID: AA-PL

Lab ID#: 1003633A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.48	0.77	2.4
Chloromethane	0.16	0.46	0.32	0.95
Freon 11	0.16	0.22	0.87	1.2
Acetone	0.78	1.5	1.8	3.5
2-Butanone (Methyl Ethyl Ketone)	0.16	0.25	0.46	0.73

Client Sample ID: AA-PL

Lab ID#: 1003633A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Tetrachloride	0.031	0.066	0.20	0.42

Client Sample ID: PRE-AA

Lab ID#: 1003633A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.52	0.69	2.6
Chloromethane	0.14	0.47	0.29	0.97
Freon 11	0.14	0.23	0.78	1.3
Ethanol	0.70	0.98	1.3	1.8
Acetone	0.70	1.6	1.6	3.9
2-Butanone (Methyl Ethyl Ketone)	0.14	0.21	0.41	0.62
Benzene	0.14	0.16	0.44	0.50
Toluene	0.14	0.22	0.52	0.83

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PRE-AA

Lab ID#: 1003633A-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Tetrachloride	0.028	0.073	0.17	0.46

Client Sample ID: 134-PRE-SS-2

Lab ID#: 1003633A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.51	0.67	2.5
Chloromethane	0.14	0.19	0.28	0.38
Freon 11	0.14	0.22	0.76	1.2
Ethanol	0.68	9.4	1.3	18
Acetone	0.68	7.2	1.6	17
2-Propanol	0.68	3.6	1.7	8.8
Carbon Disulfide	0.68	1.6	2.1	5.0
Methylene Chloride	0.27	1.2	0.94	4.0
Hexane	0.14	1.1	0.48	3.9
2-Butanone (Methyl Ethyl Ketone)	0.14	2.2	0.40	6.6
cis-1,2-Dichloroethene	0.14	2.2	0.54	8.7
Chloroform	0.14	2.1	0.66	10
1,1,1-Trichloroethane	0.14	0.32	0.74	1.7
Cyclohexane	0.14	3.0	0.47	10
Benzene	0.14	0.51	0.43	1.6
1,2-Dichloroethane	0.14	0.29	0.55	1.2
Heptane	0.14	0.77	0.56	3.2
Bromodichloromethane	0.14	0.27	0.91	1.8
Toluene	0.14	7.8	0.51	29
Ethyl Benzene	0.14	0.56	0.59	2.4
m,p-Xylene	0.14	1.2	0.59	5.4
o-Xylene	0.14	0.43	0.59	1.8
Styrene	0.14	0.45	0.58	1.9
Cumene	0.14	0.64	0.67	3.2
Propylbenzene	0.14	0.17	0.67	0.86
4-Ethyltoluene	0.14	0.34	0.67	1.6
1,2,4-Trimethylbenzene	0.14	0.33	0.67	1.6

Client Sample ID: 134-PRE-SS-2

Lab ID#: 1003633A-07B

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 134-PRE-SS-2

Lab ID#: 1003633A-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.027	0.078	0.15	0.42
Carbon Tetrachloride	0.027	0.066	0.17	0.41

Client Sample ID: 134-PRE-IA-2

Lab ID#: 1003633A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.52	0.75	2.6
Chloromethane	0.15	0.44	0.31	0.90
Freon 11	0.15	0.26	0.85	1.5
Ethanol	0.76	91 E	1.4	170 E
Acetone	0.76	11	1.8	26
2-Propanol	0.76	0.96	1.9	2.4
Hexane	0.15	0.17	0.54	0.61
2-Butanone (Methyl Ethyl Ketone)	0.15	0.55	0.45	1.6
Cyclohexane	0.15	0.23	0.52	0.80
Benzene	0.15	0.20	0.48	0.65
1,2-Dichloroethane	0.15	0.41	0.62	1.6
Toluene	0.15	0.77	0.57	2.9
m,p-Xylene	0.15	0.37	0.66	1.6
1,2,4-Trimethylbenzene	0.15	0.23	0.75	1.1

Client Sample ID: 134-PRE-IA-2

Lab ID#: 1003633A-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Tetrachloride	0.030	0.070	0.19	0.44
Vinyl Chloride	0.015	0.064	0.039	0.16

Client Sample ID: 134-PRE-IA-2 DUP

Lab ID#: 1003633A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.48	0.74	2.4
Chloromethane	0.15	0.41	0.31	0.85

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 134-PRE-IA-2 DUP

Lab ID#: 1003633A-09A

Freon 11	0.15	0.24	0.84	1.4
Ethanol	0.74	86 E	1.4	160 E
Acetone	0.74	10	1.8	24
2-Butanone (Methyl Ethyl Ketone)	0.15	0.41	0.44	1.2
Benzene	0.15	0.17	0.48	0.55
1,2-Dichloroethane	0.15	0.42	0.60	1.7
Toluene	0.15	0.39	0.56	1.5
m,p-Xylene	0.15	0.29	0.65	1.2

Client Sample ID: 134-PRE-IA-2 DUP

Lab ID#: 1003633A-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Tetrachloride	0.030	0.069	0.19	0.43
Vinyl Chloride	0.015	0.066	0.038	0.17

Client Sample ID: 130-PRE-SS-2

Lab ID#: 1003633A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.50	0.72	2.5
Freon 11	0.15	0.22	0.82	1.2
Ethanol	0.73	0.92	1.4	1.7
Acetone	0.73	0.96	1.7	2.3
Carbon Disulfide	0.73	0.73	2.3	2.3
2-Butanone (Methyl Ethyl Ketone)	0.15	0.75	0.43	2.2
Cyclohexane	0.15	0.75	0.50	2.6
1,2-Dichloroethane	0.15	0.24	0.59	0.96
Toluene	0.15	1.3	0.55	4.9
Ethyl Benzene	0.15	0.19	0.63	0.84
m,p-Xylene	0.15	0.52	0.63	2.3
o-Xylene	0.15	0.20	0.63	0.85
Styrene	0.15	0.31	0.62	1.3
Cumene	0.15	0.48	0.72	2.4
Propylbenzene	0.15	0.16	0.72	0.76
4-Ethyltoluene	0.15	0.26	0.72	1.3
1,2,4-Trimethylbenzene	0.15	0.21	0.72	1.0

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 130-PRE-SS-2

Lab ID#: 1003633A-10B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Tetrachloride	0.029	0.059	0.18	0.37

Client Sample ID: TRIP BLANK 03/25/10

Lab ID#: 1003633A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040518	Date of Collection:	3/25/10 9:45:00 AM	
Dil. Factor:	1.00	Date of Analysis:	4/5/10 10:38 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected

Client Sample ID: TRIP BLANK 03/25/10

Lab ID#: 1003633A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040518	Date of Collection: 3/25/10 9:45:00 AM
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	89	70-130

Client Sample ID: TRIP BLANK 03/25/10

Lab ID#: 1003633A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040518sim	Date of Collection: 3/25/10 9:45:00 AM
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: TREATMENT IN

Lab ID#: 1003633A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040720	Date of Collection: 3/25/10 6:27:00 PM
Dil. Factor:	3.22	Date of Analysis: 4/7/10 05:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16	Not Detected	80	Not Detected
Freon 114	16	Not Detected	110	Not Detected
Chloromethane	64	Not Detected	130	Not Detected
Vinyl Chloride	16	11000	41	27000
1,3-Butadiene	16	Not Detected	36	Not Detected
Bromomethane	16	Not Detected	62	Not Detected
Chloroethane	16	770	42	2000
Freon 11	16	Not Detected	90	Not Detected
Ethanol	64	Not Detected	120	Not Detected
Freon 113	16	100	120	770
1,1-Dichloroethene	16	190	64	750
Acetone	64	Not Detected	150	Not Detected
2-Propanol	64	Not Detected	160	Not Detected
Carbon Disulfide	16	Not Detected	50	Not Detected
3-Chloropropene	64	Not Detected	200	Not Detected
Methylene Chloride	16	Not Detected	56	Not Detected
Methyl tert-butyl ether	16	Not Detected	58	Not Detected
trans-1,2-Dichloroethene	16	170	64	660
Hexane	16	Not Detected	57	Not Detected
1,1-Dichloroethane	16	3000	65	12000
2-Butanone (Methyl Ethyl Ketone)	16	Not Detected	47	Not Detected
cis-1,2-Dichloroethene	16	12000	64	48000
Tetrahydrofuran	16	Not Detected	47	Not Detected
Chloroform	16	Not Detected	79	Not Detected
1,1,1-Trichloroethane	16	3200	88	18000
Cyclohexane	16	89	55	310
Carbon Tetrachloride	16	Not Detected	100	Not Detected
2,2,4-Trimethylpentane	16	Not Detected	75	Not Detected
Benzene	16	Not Detected	51	Not Detected
1,2-Dichloroethane	16	Not Detected	65	Not Detected
Heptane	16	Not Detected	66	Not Detected
Trichloroethene	16	5600	86	30000
1,2-Dichloropropane	16	Not Detected	74	Not Detected
1,4-Dioxane	64	Not Detected	230	Not Detected
Bromodichloromethane	16	Not Detected	110	Not Detected
cis-1,3-Dichloropropene	16	Not Detected	73	Not Detected
4-Methyl-2-pentanone	16	Not Detected	66	Not Detected
Toluene	16	160	61	610
trans-1,3-Dichloropropene	16	Not Detected	73	Not Detected

Client Sample ID: TREATMENT IN

Lab ID#: 1003633A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040720	Date of Collection: 3/25/10 6:27:00 PM
Dil. Factor:	3.22	Date of Analysis: 4/7/10 05:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	16	Not Detected	88	Not Detected
Tetrachloroethene	16	Not Detected	110	Not Detected
2-Hexanone	64	Not Detected	260	Not Detected
Dibromochloromethane	16	Not Detected	140	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
Chlorobenzene	16	Not Detected	74	Not Detected
Ethyl Benzene	16	150	70	660
m,p-Xylene	16	300	70	1300
o-Xylene	16	130	70	570
Styrene	16	Not Detected	68	Not Detected
Bromoform	16	Not Detected	170	Not Detected
Cumene	16	Not Detected	79	Not Detected
1,1,2,2-Tetrachloroethane	16	Not Detected	110	Not Detected
Propylbenzene	16	Not Detected	79	Not Detected
4-Ethyltoluene	16	Not Detected	79	Not Detected
1,3,5-Trimethylbenzene	16	Not Detected	79	Not Detected
1,2,4-Trimethylbenzene	16	26	79	130
1,3-Dichlorobenzene	16	Not Detected	97	Not Detected
1,4-Dichlorobenzene	16	Not Detected	97	Not Detected
alpha-Chlorotoluene	16	Not Detected	83	Not Detected
1,2-Dichlorobenzene	16	Not Detected	97	Not Detected
1,2,4-Trichlorobenzene	64	Not Detected	480	Not Detected
Hexachlorobutadiene	64	Not Detected	690	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: TREATMENT OUT

Lab ID#: 1003633A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040522	Date of Collection:	3/25/10 6:27:00 PM	
Dil. Factor:	32.2	Date of Analysis:	4/6/10 04:52 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.2	Not Detected	16	Not Detected
Freon 114	3.2	Not Detected	22	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
1,3-Butadiene	3.2	Not Detected	7.1	Not Detected
Bromomethane	3.2	Not Detected	12	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	3.2	Not Detected	18	Not Detected
Ethanol	16	Not Detected	30	Not Detected
Freon 113	3.2	9.9	25	76
1,1-Dichloroethene	3.2	28	13	110
Acetone	16	Not Detected	38	Not Detected
2-Propanol	16	Not Detected	40	Not Detected
Carbon Disulfide	16	Not Detected	50	Not Detected
Methylene Chloride	6.4	Not Detected	22	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	3.2	3.5	13	14
Hexane	3.2	Not Detected	11	Not Detected
1,1-Dichloroethane	3.2	240	13	960
2-Butanone (Methyl Ethyl Ketone)	3.2	4.1	9.5	12
cis-1,2-Dichloroethene	3.2	330	13	1300
Tetrahydrofuran	16	Not Detected	47	Not Detected
Chloroform	3.2	Not Detected	16	Not Detected
1,1,1-Trichloroethane	3.2	540	18	3000
Cyclohexane	3.2	Not Detected	11	Not Detected
Benzene	3.2	Not Detected	10	Not Detected
1,2-Dichloroethane	3.2	Not Detected	13	Not Detected
Heptane	3.2	Not Detected	13	Not Detected
1,2-Dichloropropane	3.2	Not Detected	15	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	3.2	Not Detected	22	Not Detected
cis-1,3-Dichloropropene	3.2	Not Detected	15	Not Detected
4-Methyl-2-pentanone	3.2	Not Detected	13	Not Detected
Toluene	3.2	Not Detected	12	Not Detected
trans-1,3-Dichloropropene	3.2	Not Detected	15	Not Detected
1,1,2-Trichloroethane	3.2	Not Detected	18	Not Detected
Tetrachloroethene	3.2	Not Detected	22	Not Detected
2-Hexanone	16	Not Detected	66	Not Detected
Dibromochloromethane	3.2	Not Detected	27	Not Detected
1,2-Dibromoethane (EDB)	3.2	Not Detected	25	Not Detected

Client Sample ID: TREATMENT OUT

Lab ID#: 1003633A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040522	Date of Collection: 3/25/10 6:27:00 PM
Dil. Factor:	32.2	Date of Analysis: 4/6/10 04:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	3.2	Not Detected	15	Not Detected
Ethyl Benzene	3.2	Not Detected	14	Not Detected
m,p-Xylene	3.2	Not Detected	14	Not Detected
o-Xylene	3.2	Not Detected	14	Not Detected
Styrene	3.2	Not Detected	14	Not Detected
Bromoform	3.2	Not Detected	33	Not Detected
Cumene	3.2	Not Detected	16	Not Detected
1,1,2,2-Tetrachloroethane	3.2	Not Detected	22	Not Detected
Propylbenzene	3.2	Not Detected	16	Not Detected
4-Ethyltoluene	3.2	Not Detected	16	Not Detected
1,3,5-Trimethylbenzene	3.2	Not Detected	16	Not Detected
1,2,4-Trimethylbenzene	3.2	Not Detected	16	Not Detected
1,3-Dichlorobenzene	3.2	Not Detected	19	Not Detected
1,4-Dichlorobenzene	3.2	Not Detected	19	Not Detected
alpha-Chlorotoluene	3.2	Not Detected	17	Not Detected
1,2-Dichlorobenzene	3.2	Not Detected	19	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	92	70-130

Client Sample ID: TREATMENT OUT Lab Duplicate

Lab ID#: 1003633A-03AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040519	Date of Collection:	3/25/10 6:27:00 PM	
Dil. Factor:	23.0	Date of Analysis:	4/6/10 12:25 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.3	Not Detected	11	Not Detected
Freon 114	2.3	Not Detected	16	Not Detected
Chloromethane	2.3	Not Detected	4.7	Not Detected
1,3-Butadiene	2.3	Not Detected	5.1	Not Detected
Bromomethane	2.3	Not Detected	8.9	Not Detected
Chloroethane	2.3	2.5	6.1	6.7
Freon 11	2.3	Not Detected	13	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Freon 113	2.3	11	18	83
1,1-Dichloroethene	2.3	32	9.1	130
Acetone	12	Not Detected	27	Not Detected
2-Propanol	12	Not Detected	28	Not Detected
Carbon Disulfide	12	Not Detected	36	Not Detected
Methylene Chloride	4.6	Not Detected	16	Not Detected
Methyl tert-butyl ether	2.3	Not Detected	8.3	Not Detected
trans-1,2-Dichloroethene	2.3	3.8	9.1	15
Hexane	2.3	Not Detected	8.1	Not Detected
1,1-Dichloroethane	2.3	250	9.3	1000
2-Butanone (Methyl Ethyl Ketone)	2.3	4.6	6.8	14
cis-1,2-Dichloroethene	2.3	340	9.1	1400
Tetrahydrofuran	12	Not Detected	34	Not Detected
Chloroform	2.3	Not Detected	11	Not Detected
1,1,1-Trichloroethane	2.3	560	12	3000
Cyclohexane	2.3	Not Detected	7.9	Not Detected
Benzene	2.3	Not Detected	7.3	Not Detected
1,2-Dichloroethane	2.3	Not Detected	9.3	Not Detected
Heptane	2.3	Not Detected	9.4	Not Detected
1,2-Dichloropropane	2.3	Not Detected	11	Not Detected
1,4-Dioxane	2.3	Not Detected	8.3	Not Detected
Bromodichloromethane	2.3	Not Detected	15	Not Detected
cis-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
4-Methyl-2-pentanone	2.3	Not Detected	9.4	Not Detected
Toluene	2.3	Not Detected	8.7	Not Detected
trans-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
1,1,2-Trichloroethane	2.3	Not Detected	12	Not Detected
Tetrachloroethene	2.3	Not Detected	16	Not Detected
2-Hexanone	12	Not Detected	47	Not Detected
Dibromochloromethane	2.3	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	2.3	Not Detected	18	Not Detected

Client Sample ID: TREATMENT OUT Lab Duplicate

Lab ID#: 1003633A-03AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040519	Date of Collection: 3/25/10 6:27:00 PM
Dil. Factor:	23.0	Date of Analysis: 4/6/10 12:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	2.3	Not Detected	10	Not Detected
Ethyl Benzene	2.3	Not Detected	10	Not Detected
m,p-Xylene	2.3	Not Detected	10	Not Detected
o-Xylene	2.3	Not Detected	10	Not Detected
Styrene	2.3	Not Detected	9.8	Not Detected
Bromoform	2.3	Not Detected	24	Not Detected
Cumene	2.3	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.3	Not Detected	16	Not Detected
Propylbenzene	2.3	Not Detected	11	Not Detected
4-Ethyltoluene	2.3	Not Detected	11	Not Detected
1,3,5-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,2,4-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,3-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,4-Dichlorobenzene	2.3	Not Detected	14	Not Detected
alpha-Chlorotoluene	2.3	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,2,4-Trichlorobenzene	12	Not Detected	85	Not Detected
Hexachlorobutadiene	12	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: TREATMENT OUT

Lab ID#: 1003633A-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040522sim	Date of Collection: 3/25/10 6:27:00 PM
Dil. Factor:	32.2	Date of Analysis: 4/6/10 04:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.64	Not Detected	3.5	Not Detected
Carbon Tetrachloride	0.64	Not Detected	4.0	Not Detected
Vinyl Chloride	0.32	460	0.82	1200

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: TREATMENT OUT Lab Duplicate

Lab ID#: 1003633A-03BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040519sim	Date of Collection: 3/25/10 6:27:00 PM
Dil. Factor:	23.0	Date of Analysis: 4/6/10 12:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.46	Not Detected	2.5	Not Detected
Carbon Tetrachloride	0.46	Not Detected	2.9	Not Detected
Vinyl Chloride	0.23	500 E	0.59	1300 E

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: AA-TS

Lab ID#: 1003633A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040523	Date of Collection:	3/25/10 1:05:00 PM	
Dil. Factor:	1.41	Date of Analysis:	4/6/10 05:35 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.42	0.70	2.1
Freon 114	0.14	Not Detected	0.98	Not Detected
Chloromethane	0.14	0.39	0.29	0.80
1,3-Butadiene	0.14	Not Detected	0.31	Not Detected
Bromomethane	0.14	Not Detected	0.55	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
Freon 11	0.14	0.19	0.79	1.0
Ethanol	0.70	1.2	1.3	2.3
Freon 113	0.14	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Acetone	0.70	1.3	1.7	3.1
2-Propanol	0.70	Not Detected	1.7	Not Detected
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
Methylene Chloride	0.28	Not Detected	0.98	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.51	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Hexane	0.14	Not Detected	0.50	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	0.16	0.42	0.48
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.1	Not Detected
Chloroform	0.14	Not Detected	0.69	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Cyclohexane	0.14	0.25	0.48	0.85
Benzene	0.14	0.15	0.45	0.47
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
Heptane	0.14	Not Detected	0.58	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.65	Not Detected
1,4-Dioxane	0.14	Not Detected	0.51	Not Detected
Bromodichloromethane	0.14	Not Detected	0.94	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.58	Not Detected
Toluene	0.14	0.52	0.53	2.0
trans-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Tetrachloroethene	0.14	Not Detected	0.96	Not Detected
2-Hexanone	0.70	Not Detected	2.9	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected

Client Sample ID: AA-TS

Lab ID#: 1003633A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040523	Date of Collection: 3/25/10 1:05:00 PM
Dil. Factor:	1.41	Date of Analysis: 4/6/10 05:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.14	Not Detected	0.65	Not Detected
Ethyl Benzene	0.14	Not Detected	0.61	Not Detected
m,p-Xylene	0.14	Not Detected	0.61	Not Detected
o-Xylene	0.14	Not Detected	0.61	Not Detected
Styrene	0.14	Not Detected	0.60	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.69	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.97	Not Detected
Propylbenzene	0.14	Not Detected	0.69	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.69	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.69	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.69	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.73	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.5	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: AA-TS

Lab ID#: 1003633A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040523sim	Date of Collection: 3/25/10 1:05:00 PM
Dil. Factor:	1.41	Date of Analysis: 4/6/10 05:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.028	0.058	0.15	0.31
Carbon Tetrachloride	0.028	0.058	0.18	0.36
Vinyl Chloride	0.014	0.014	0.036	0.037

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: AA-PL

Lab ID#: 1003633A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040524	Date of Collection:	3/25/10 1:00:00 PM	
Dil. Factor:	1.55	Date of Analysis:	4/6/10 06:16 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.48	0.77	2.4
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.46	0.32	0.95
1,3-Butadiene	0.16	Not Detected	0.34	Not Detected
Bromomethane	0.16	Not Detected	0.60	Not Detected
Chloroethane	0.16	Not Detected	0.41	Not Detected
Freon 11	0.16	0.22	0.87	1.2
Ethanol	0.78	Not Detected	1.5	Not Detected
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Acetone	0.78	1.5	1.8	3.5
2-Propanol	0.78	Not Detected	1.9	Not Detected
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Hexane	0.16	Not Detected	0.55	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	0.25	0.46	0.73
cis-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.84	Not Detected
Cyclohexane	0.16	Not Detected	0.53	Not Detected
Benzene	0.16	Not Detected	0.50	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.63	Not Detected
Heptane	0.16	Not Detected	0.64	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.16	Not Detected	0.56	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.63	Not Detected
Toluene	0.16	Not Detected	0.58	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.84	Not Detected
Tetrachloroethene	0.16	Not Detected	1.0	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected

Client Sample ID: AA-PL

Lab ID#: 1003633A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040524	Date of Collection: 3/25/10 1:00:00 PM
Dil. Factor:	1.55	Date of Analysis: 4/6/10 06:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.16	Not Detected	0.71	Not Detected
Ethyl Benzene	0.16	Not Detected	0.67	Not Detected
m,p-Xylene	0.16	Not Detected	0.67	Not Detected
o-Xylene	0.16	Not Detected	0.67	Not Detected
Styrene	0.16	Not Detected	0.66	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.76	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.76	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.76	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.80	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

Client Sample ID: AA-PL

Lab ID#: 1003633A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040524sim	Date of Collection: 3/25/10 1:00:00 PM
Dil. Factor:	1.55	Date of Analysis: 4/6/10 06:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.066	0.20	0.42
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: PRE-AA

Lab ID#: 1003633A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040607	Date of Collection: 3/25/10 11:05:00 AM		
Dil. Factor:	1.39	Date of Analysis: 4/6/10 02:12 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.52	0.69	2.6
Freon 114	0.14	Not Detected	0.97	Not Detected
Chloromethane	0.14	0.47	0.29	0.97
1,3-Butadiene	0.14	Not Detected	0.31	Not Detected
Bromomethane	0.14	Not Detected	0.54	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
Freon 11	0.14	0.23	0.78	1.3
Ethanol	0.70	0.98	1.3	1.8
Freon 113	0.14	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	0.70	1.6	1.6	3.9
2-Propanol	0.70	Not Detected	1.7	Not Detected
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Hexane	0.14	Not Detected	0.49	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	0.21	0.41	0.62
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.68	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Cyclohexane	0.14	Not Detected	0.48	Not Detected
Benzene	0.14	0.16	0.44	0.50
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
Heptane	0.14	Not Detected	0.57	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
1,4-Dioxane	0.14	Not Detected	0.50	Not Detected
Bromodichloromethane	0.14	Not Detected	0.93	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.57	Not Detected
Toluene	0.14	0.22	0.52	0.83
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Tetrachloroethene	0.14	Not Detected	0.94	Not Detected
2-Hexanone	0.70	Not Detected	2.8	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected

Client Sample ID: PRE-AA

Lab ID#: 1003633A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040607	Date of Collection: 3/25/10 11:05:00 AM
Dil. Factor:	1.39	Date of Analysis: 4/6/10 02:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	Not Detected	0.60	Not Detected
m,p-Xylene	0.14	Not Detected	0.60	Not Detected
o-Xylene	0.14	Not Detected	0.60	Not Detected
Styrene	0.14	Not Detected	0.59	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
Propylbenzene	0.14	Not Detected	0.68	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.68	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.68	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.68	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.72	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.4	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: PRE-AA

Lab ID#: 1003633A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040607sim	Date of Collection: 3/25/10 11:05:00 AM
Dil. Factor:	1.39	Date of Analysis: 4/6/10 02:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.028	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.028	0.073	0.17	0.46
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: 134-PRE-SS-2

Lab ID#: 1003633A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040608	Date of Collection:	3/25/10 11:09:00 AM	
Dil. Factor:	1.36	Date of Analysis:	4/6/10 03:05 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.51	0.67	2.5
Freon 114	0.14	Not Detected	0.95	Not Detected
Chloromethane	0.14	0.19	0.28	0.38
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	0.14	Not Detected	0.53	Not Detected
Chloroethane	0.14	Not Detected	0.36	Not Detected
Freon 11	0.14	0.22	0.76	1.2
Ethanol	0.68	9.4	1.3	18
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	0.68	7.2	1.6	17
2-Propanol	0.68	3.6	1.7	8.8
Carbon Disulfide	0.68	1.6	2.1	5.0
Methylene Chloride	0.27	1.2	0.94	4.0
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.14	1.1	0.48	3.9
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	2.2	0.40	6.6
cis-1,2-Dichloroethene	0.14	2.2	0.54	8.7
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	2.1	0.66	10
1,1,1-Trichloroethane	0.14	0.32	0.74	1.7
Cyclohexane	0.14	3.0	0.47	10
Benzene	0.14	0.51	0.43	1.6
1,2-Dichloroethane	0.14	0.29	0.55	1.2
Heptane	0.14	0.77	0.56	3.2
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
1,4-Dioxane	0.14	Not Detected	0.49	Not Detected
Bromodichloromethane	0.14	0.27	0.91	1.8
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.56	Not Detected
Toluene	0.14	7.8	0.51	29
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	Not Detected	0.92	Not Detected
2-Hexanone	0.68	Not Detected	2.8	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected

Client Sample ID: 134-PRE-SS-2

Lab ID#: 1003633A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040608	Date of Collection: 3/25/10 11:09:00 AM
Dil. Factor:	1.36	Date of Analysis: 4/6/10 03:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	0.56	0.59	2.4
m,p-Xylene	0.14	1.2	0.59	5.4
o-Xylene	0.14	0.43	0.59	1.8
Styrene	0.14	0.45	0.58	1.9
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	0.64	0.67	3.2
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	0.17	0.67	0.86
4-Ethyltoluene	0.14	0.34	0.67	1.6
1,3,5-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,2,4-Trimethylbenzene	0.14	0.33	0.67	1.6
1,3-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: 134-PRE-SS-2

Lab ID#: 1003633A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040608sim	Date of Collection: 3/25/10 11:09:00 AM
Dil. Factor:	1.36	Date of Analysis: 4/6/10 03:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.027	0.078	0.15	0.42
Carbon Tetrachloride	0.027	0.066	0.17	0.41
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: 134-PRE-IA-2

Lab ID#: 1003633A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040609	Date of Collection:	3/25/10 11:07:00 AM	
Dil. Factor:	1.52	Date of Analysis:	4/6/10 04:04 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.52	0.75	2.6
Freon 114	0.15	Not Detected	1.1	Not Detected
Chloromethane	0.15	0.44	0.31	0.90
1,3-Butadiene	0.15	Not Detected	0.34	Not Detected
Bromomethane	0.15	Not Detected	0.59	Not Detected
Chloroethane	0.15	Not Detected	0.40	Not Detected
Freon 11	0.15	0.26	0.85	1.5
Ethanol	0.76	91 E	1.4	170 E
Freon 113	0.15	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Acetone	0.76	11	1.8	26
2-Propanol	0.76	0.96	1.9	2.4
Carbon Disulfide	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	0.30	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.55	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Hexane	0.15	0.17	0.54	0.61
1,1-Dichloroethane	0.15	Not Detected	0.62	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.15	0.55	0.45	1.6
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
Chloroform	0.15	Not Detected	0.74	Not Detected
1,1,1-Trichloroethane	0.15	Not Detected	0.83	Not Detected
Cyclohexane	0.15	0.23	0.52	0.80
Benzene	0.15	0.20	0.48	0.65
1,2-Dichloroethane	0.15	0.41	0.62	1.6
Heptane	0.15	Not Detected	0.62	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.70	Not Detected
1,4-Dioxane	0.15	Not Detected	0.55	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.69	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.62	Not Detected
Toluene	0.15	0.77	0.57	2.9
trans-1,3-Dichloropropene	0.15	Not Detected	0.69	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.83	Not Detected
Tetrachloroethene	0.15	Not Detected	1.0	Not Detected
2-Hexanone	0.76	Not Detected	3.1	Not Detected
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.2	Not Detected

Client Sample ID: 134-PRE-IA-2

Lab ID#: 1003633A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040609	Date of Collection: 3/25/10 11:07:00 AM
Dil. Factor:	1.52	Date of Analysis: 4/6/10 04:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.15	Not Detected	0.70	Not Detected
Ethyl Benzene	0.15	Not Detected	0.66	Not Detected
m,p-Xylene	0.15	0.37	0.66	1.6
o-Xylene	0.15	Not Detected	0.66	Not Detected
Styrene	0.15	Not Detected	0.65	Not Detected
Bromoform	0.15	Not Detected	1.6	Not Detected
Cumene	0.15	Not Detected	0.75	Not Detected
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
Propylbenzene	0.15	Not Detected	0.75	Not Detected
4-Ethyltoluene	0.15	Not Detected	0.75	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.75	Not Detected
1,2,4-Trimethylbenzene	0.15	0.23	0.75	1.1
1,3-Dichlorobenzene	0.15	Not Detected	0.91	Not Detected
1,4-Dichlorobenzene	0.15	Not Detected	0.91	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.79	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.91	Not Detected
1,2,4-Trichlorobenzene	0.76	Not Detected	5.6	Not Detected
Hexachlorobutadiene	0.76	Not Detected	8.1	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

Client Sample ID: 134-PRE-IA-2

Lab ID#: 1003633A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040609sim	Date of Collection: 3/25/10 11:07:00 AM
Dil. Factor:	1.52	Date of Analysis: 4/6/10 04:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.030	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.030	0.070	0.19	0.44
Vinyl Chloride	0.015	0.064	0.039	0.16

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: 134-PRE-IA-2 DUP

Lab ID#: 1003633A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040610	Date of Collection:	3/25/10 11:07:00 AM	
Dil. Factor:	1.49	Date of Analysis:	4/6/10 05:11 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.48	0.74	2.4
Freon 114	0.15	Not Detected	1.0	Not Detected
Chloromethane	0.15	0.41	0.31	0.85
1,3-Butadiene	0.15	Not Detected	0.33	Not Detected
Bromomethane	0.15	Not Detected	0.58	Not Detected
Chloroethane	0.15	Not Detected	0.39	Not Detected
Freon 11	0.15	0.24	0.84	1.4
Ethanol	0.74	86 E	1.4	160 E
Freon 113	0.15	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Acetone	0.74	10	1.8	24
2-Propanol	0.74	Not Detected	1.8	Not Detected
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	0.30	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Hexane	0.15	Not Detected	0.52	Not Detected
1,1-Dichloroethane	0.15	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.15	0.41	0.44	1.2
cis-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
Chloroform	0.15	Not Detected	0.73	Not Detected
1,1,1-Trichloroethane	0.15	Not Detected	0.81	Not Detected
Cyclohexane	0.15	Not Detected	0.51	Not Detected
Benzene	0.15	0.17	0.48	0.55
1,2-Dichloroethane	0.15	0.42	0.60	1.7
Heptane	0.15	Not Detected	0.61	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.69	Not Detected
1,4-Dioxane	0.15	Not Detected	0.54	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.61	Not Detected
Toluene	0.15	0.39	0.56	1.5
trans-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.81	Not Detected
Tetrachloroethene	0.15	Not Detected	1.0	Not Detected
2-Hexanone	0.74	Not Detected	3.0	Not Detected
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected

Client Sample ID: 134-PRE-IA-2 DUP

Lab ID#: 1003633A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040610	Date of Collection: 3/25/10 11:07:00 AM
Dil. Factor:	1.49	Date of Analysis: 4/6/10 05:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.15	Not Detected	0.68	Not Detected
Ethyl Benzene	0.15	Not Detected	0.65	Not Detected
m,p-Xylene	0.15	0.29	0.65	1.2
o-Xylene	0.15	Not Detected	0.65	Not Detected
Styrene	0.15	Not Detected	0.63	Not Detected
Bromoform	0.15	Not Detected	1.5	Not Detected
Cumene	0.15	Not Detected	0.73	Not Detected
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
Propylbenzene	0.15	Not Detected	0.73	Not Detected
4-Ethyltoluene	0.15	Not Detected	0.73	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.73	Not Detected
1,2,4-Trimethylbenzene	0.15	Not Detected	0.73	Not Detected
1,3-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,4-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.77	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,2,4-Trichlorobenzene	0.74	Not Detected	5.5	Not Detected
Hexachlorobutadiene	0.74	Not Detected	7.9	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: 134-PRE-IA-2 DUP

Lab ID#: 1003633A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040610sim	Date of Collection: 3/25/10 11:07:00 AM
Dil. Factor:	1.49	Date of Analysis: 4/6/10 05:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.030	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.030	0.069	0.19	0.43
Vinyl Chloride	0.015	0.066	0.038	0.17

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: 130-PRE-SS-2

Lab ID#: 1003633A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040517	Date of Collection:	3/25/10 11:29:00 AM	
Dil. Factor:	1.46	Date of Analysis:	4/5/10 09:47 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.50	0.72	2.5
Freon 114	0.15	Not Detected	1.0	Not Detected
Chloromethane	0.15	Not Detected	0.30	Not Detected
1,3-Butadiene	0.15	Not Detected	0.32	Not Detected
Bromomethane	0.15	Not Detected	0.57	Not Detected
Chloroethane	0.15	Not Detected	0.38	Not Detected
Freon 11	0.15	0.22	0.82	1.2
Ethanol	0.73	0.92	1.4	1.7
Freon 113	0.15	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Acetone	0.73	0.96	1.7	2.3
2-Propanol	0.73	Not Detected	1.8	Not Detected
Carbon Disulfide	0.73	0.73	2.3	2.3
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.53	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Hexane	0.15	Not Detected	0.51	Not Detected
1,1-Dichloroethane	0.15	Not Detected	0.59	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.15	0.75	0.43	2.2
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Tetrahydrofuran	0.73	Not Detected	2.2	Not Detected
Chloroform	0.15	Not Detected	0.71	Not Detected
1,1,1-Trichloroethane	0.15	Not Detected	0.80	Not Detected
Cyclohexane	0.15	0.75	0.50	2.6
Benzene	0.15	Not Detected	0.47	Not Detected
1,2-Dichloroethane	0.15	0.24	0.59	0.96
Heptane	0.15	Not Detected	0.60	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.67	Not Detected
1,4-Dioxane	0.15	Not Detected	0.53	Not Detected
Bromodichloromethane	0.15	Not Detected	0.98	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.66	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.60	Not Detected
Toluene	0.15	1.3	0.55	4.9
trans-1,3-Dichloropropene	0.15	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.80	Not Detected
Tetrachloroethene	0.15	Not Detected	0.99	Not Detected
2-Hexanone	0.73	Not Detected	3.0	Not Detected
Dibromochloromethane	0.15	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected

Client Sample ID: 130-PRE-SS-2

Lab ID#: 1003633A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040517	Date of Collection: 3/25/10 11:29:00 AM
Dil. Factor:	1.46	Date of Analysis: 4/5/10 09:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.15	Not Detected	0.67	Not Detected
Ethyl Benzene	0.15	0.19	0.63	0.84
m,p-Xylene	0.15	0.52	0.63	2.3
o-Xylene	0.15	0.20	0.63	0.85
Styrene	0.15	0.31	0.62	1.3
Bromoform	0.15	Not Detected	1.5	Not Detected
Cumene	0.15	0.48	0.72	2.4
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
Propylbenzene	0.15	0.16	0.72	0.76
4-Ethyltoluene	0.15	0.26	0.72	1.3
1,3,5-Trimethylbenzene	0.15	Not Detected	0.72	Not Detected
1,2,4-Trimethylbenzene	0.15	0.21	0.72	1.0
1,3-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
1,4-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.76	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
1,2,4-Trichlorobenzene	0.73	Not Detected	5.4	Not Detected
Hexachlorobutadiene	0.73	Not Detected	7.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: 130-PRE-SS-2

Lab ID#: 1003633A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040517sim	Date of Collection: 3/25/10 11:29:00 AM
Dil. Factor:	1.46	Date of Analysis: 4/5/10 09:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.059	0.18	0.37
Vinyl Chloride	0.015	Not Detected	0.037	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040505sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 10:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040606	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	4/6/10 12:36 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 12:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040606sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 12:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11E

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/7/10 09:36 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1003633A-11E

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/7/10 09:36 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: CCV

Lab ID#: 1003633A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 07:44 AM

Compound	%Recovery
Freon 12	102
Freon 114	99
Chloromethane	90
1,3-Butadiene	83
Bromomethane	119
Chloroethane	100
Freon 11	101
Ethanol	77
Freon 113	97
1,1-Dichloroethene	94
Acetone	85
2-Propanol	82
Carbon Disulfide	92
Methylene Chloride	95
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	94
Hexane	86
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	94
Tetrahydrofuran	83
Chloroform	95
1,1,1-Trichloroethane	94
Cyclohexane	90
Benzene	95
1,2-Dichloroethane	99
Heptane	94
1,2-Dichloropropane	93
1,4-Dioxane	92
Bromodichloromethane	91
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	90
Toluene	99
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	91
Tetrachloroethene	91
2-Hexanone	84
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	100

Client Sample ID: CCV

Lab ID#: 1003633A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 07:44 AM

Compound	%Recovery
Chlorobenzene	96
Ethyl Benzene	97
m,p-Xylene	104
o-Xylene	104
Styrene	101
Bromoform	105
Cumene	106
1,1,2,2-Tetrachloroethane	100
Propylbenzene	108
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 1003633A-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040502sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 07:44 AM

Compound	%Recovery
Trichloroethene	92
Carbon Tetrachloride	104
Vinyl Chloride	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: CCV

Lab ID#: 1003633A-12C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 09:42 AM

Compound	%Recovery
Freon 12	97
Freon 114	94
Chloromethane	98
1,3-Butadiene	81
Bromomethane	128
Chloroethane	96
Freon 11	97
Ethanol	78
Freon 113	93
1,1-Dichloroethene	91
Acetone	83
2-Propanol	81
Carbon Disulfide	91
Methylene Chloride	94
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	92
Hexane	86
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	91
Tetrahydrofuran	83
Chloroform	91
1,1,1-Trichloroethane	92
Cyclohexane	88
Benzene	88
1,2-Dichloroethane	90
Heptane	89
1,2-Dichloropropane	86
1,4-Dioxane	86
Bromodichloromethane	94
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	83
Toluene	92
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	86
Tetrachloroethene	83
2-Hexanone	80
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	94

Client Sample ID: CCV

Lab ID#: 1003633A-12C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 09:42 AM

Compound	%Recovery
Chlorobenzene	89
Ethyl Benzene	90
m,p-Xylene	95
o-Xylene	96
Styrene	92
Bromoform	98
Cumene	96
1,1,2,2-Tetrachloroethane	94
Propylbenzene	99
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: CCV

Lab ID#: 1003633A-12D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040603sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 09:42 AM

Compound	%Recovery
Trichloroethene	85
Carbon Tetrachloride	100
Vinyl Chloride	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 1003633A-12E

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/7/10 07:56 AM

Compound	%Recovery
Freon 12	104
Freon 114	106
Chloromethane	92
Vinyl Chloride	100
1,3-Butadiene	100
Bromomethane	109
Chloroethane	104
Freon 11	106
Ethanol	102
Freon 113	108
1,1-Dichloroethene	107
Acetone	107
2-Propanol	106
Carbon Disulfide	106
3-Chloropropene	108
Methylene Chloride	102
Methyl tert-butyl ether	128
trans-1,2-Dichloroethene	109
Hexane	105
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	116
cis-1,2-Dichloroethene	106
Tetrahydrofuran	103
Chloroform	106
1,1,1-Trichloroethane	109
Cyclohexane	107
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	106
Benzene	104
1,2-Dichloroethane	106
Heptane	107
Trichloroethene	103
1,2-Dichloropropane	105
1,4-Dioxane	107
Bromodichloromethane	107
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	115
Toluene	107
trans-1,3-Dichloropropene	110

Client Sample ID: CCV

Lab ID#: 1003633A-12E

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/7/10 07:56 AM

Compound	%Recovery
1,1,2-Trichloroethane	109
Tetrachloroethene	111
2-Hexanone	110
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	111
Chlorobenzene	107
Ethyl Benzene	110
m,p-Xylene	113
o-Xylene	112
Styrene	113
Bromoform	114
Cumene	110
1,1,2,2-Tetrachloroethane	106
Propylbenzene	107
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	79
Hexachlorobutadiene	87

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1003633A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 08:14 AM

Compound	%Recovery
Freon 12	106
Freon 114	102
Chloromethane	92
1,3-Butadiene	88
Bromomethane	122
Chloroethane	104
Freon 11	105
Ethanol	74
Freon 113	92
1,1-Dichloroethene	88
Acetone	82
2-Propanol	83
Carbon Disulfide	96
Methylene Chloride	92
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	101
Hexane	94
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	102
Tetrahydrofuran	88
Chloroform	105
1,1,1-Trichloroethane	103
Cyclohexane	99
Benzene	102
1,2-Dichloroethane	104
Heptane	101
1,2-Dichloropropane	99
1,4-Dioxane	96
Bromodichloromethane	96
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	91
Toluene	97
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	99
Tetrachloroethene	96
2-Hexanone	92
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	111

Client Sample ID: LCS

Lab ID#: 1003633A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 08:14 AM

Compound	%Recovery
Chlorobenzene	102
Ethyl Benzene	104
m,p-Xylene	109
o-Xylene	108
Styrene	108
Bromoform	113
Cumene	111
1,1,2,2-Tetrachloroethane	112
Propylbenzene	114
4-Ethyltoluene	119
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: LCS

Lab ID#: 1003633A-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040503sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/5/10 08:14 AM

Compound	%Recovery
Trichloroethene	97
Carbon Tetrachloride	115
Vinyl Chloride	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCS

Lab ID#: 1003633A-13C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 10:37 AM

Compound	%Recovery
Freon 12	103
Freon 114	100
Chloromethane	101
1,3-Butadiene	88
Bromomethane	119
Chloroethane	100
Freon 11	103
Ethanol	74
Freon 113	89
1,1-Dichloroethene	86
Acetone	83
2-Propanol	82
Carbon Disulfide	95
Methylene Chloride	90
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	99
Hexane	94
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	100
Tetrahydrofuran	88
Chloroform	102
1,1,1-Trichloroethane	100
Cyclohexane	96
Benzene	98
1,2-Dichloroethane	101
Heptane	103
1,2-Dichloropropane	96
1,4-Dioxane	92
Bromodichloromethane	103
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	86
Toluene	95
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	97
Tetrachloroethene	96
2-Hexanone	89
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	110

Client Sample ID: LCS

Lab ID#: 1003633A-13C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 10:37 AM

Compound	%Recovery
Chlorobenzene	101
Ethyl Benzene	103
m,p-Xylene	108
o-Xylene	107
Styrene	108
Bromoform	108
Cumene	108
1,1,2,2-Tetrachloroethane	108
Propylbenzene	110
4-Ethyltoluene	116
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 1003633A-13D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s040604sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/6/10 10:37 AM

Compound	%Recovery
Trichloroethene	94
Carbon Tetrachloride	112
Vinyl Chloride	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCS

Lab ID#: 1003633A-13E

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/7/10 08:38 AM

Compound	%Recovery
Freon 12	100
Freon 114	103
Chloromethane	90
Vinyl Chloride	92
1,3-Butadiene	96
Bromomethane	102
Chloroethane	100
Freon 11	104
Ethanol	100
Freon 113	92
1,1-Dichloroethene	91
Acetone	99
2-Propanol	100
Carbon Disulfide	102
3-Chloropropene	101
Methylene Chloride	90
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	104
Hexane	99
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	100
Tetrahydrofuran	98
Chloroform	100
1,1,1-Trichloroethane	102
Cyclohexane	100
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	101
Benzene	100
1,2-Dichloroethane	100
Heptane	102
Trichloroethene	99
1,2-Dichloropropane	100
1,4-Dioxane	103
Bromodichloromethane	102
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	109
Toluene	98
trans-1,3-Dichloropropene	105

Client Sample ID: LCS

Lab ID#: 1003633A-13E

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w040704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/7/10 08:38 AM

Compound	%Recovery
1,1,2-Trichloroethane	104
Tetrachloroethene	103
2-Hexanone	105
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	110
Chlorobenzene	102
Ethyl Benzene	103
m,p-Xylene	108
o-Xylene	106
Styrene	111
Bromoform	108
Cumene	102
1,1,2,2-Tetrachloroethane	104
Propylbenzene	100
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, state, federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Ltd. assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Ltd. against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 2

Project Manager Eric Love nduski

Collected by: (Print and Sign) Eric Lorenduski

Company Enviro Group Email elorenduski@envirogroup.com

Address 46 Lake Ave City Saratoga Springs State NY Zip 12861

Phone 518-258-3859 Fax 303-790-1347

Project Info:

P.O. # 600

Project # LE-0614

Project Name Leica

Turn Around Time:

☒ Normal

☐ Rush

Lab Use Only

Pressurized by:

Date:

Pressurization Gas:

N₂ H₂

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psi)
01AB	TRIP BLANK 03/25/10	1107	03/25/10	0945	TO-15 ^{SK}	-29	-60
02AB	TREATMENT IN	2486	03/25/10	1000-1827	TO-15 ^{SK}	-30	-63
03AB	TREATMENT OUT	2404	03/25/10	1000-1827	TO-15 ^{SK}	-28	-3
04AB	AA-TS	14879	03/25/10	1245-1805	TO-15 ^{SK}	-30	-5
05AB	AA-PL	1074	03/25/10	1300-1300	TO-15 ^{SK}	-30	-1
06AB	PRE-AA	3120	03/25/10	1155-1105	TO-15 ^{SK}	-23	0
07AB	134-PRE-SS-2	1528	03/25/10	1157-1107	TO-15 ^{SK}	-30	-4
08AB	134-PRE-IA-2	1035	03/25/10	1157-1107	TO-15 ^{SK}	-30	-3
09AB	134-PRE-SS	9201	03/25/10	1200-1125	TO-15	-28	-3
10AB	130-PRE-SS-2	0911	03/25/10				

Relinquished by: (signature) Monica Green Date/Time 3/26/10 1330 Notes: # lug/m³
Relinquished by: (signature) Monica Green Date/Time 3/26/10 1330 ALL NYS DOH Method Compounds
Relinquished by: (signature) Monica Green Date/Time 3/26/10 1330 (Carbon Tet, TCE, Vinyl Chloride)
Relinquished by: (signature) Monica Green Date/Time 3/26/10 1330 all others to lug/m³

Lab Use Only
Shipper Name Enviro Air Bill # NA Condition Good Temp (°C) NA Custody/Seals Intact? Yes No None 1003633 Work Order #

AIRBILL # 8695 9071 1724



180 Blue Ravine Road, Suite B Folsom, CA 95630

Memo

To: Eric Lovenduski, EnviroGroup
From: Ausha Scott, Air Toxics Ltd.
CC: Jeff Kurtz, EnviroGroup
CC: Jennifer Miller, Air Toxics Ltd.
Date: June 15th, 2010

Re: Canister Cleaning procedures for the Leica project

Dear Mr. Lovenduski,

Air Toxics Ltd. has the largest single site inventory of Summa® canisters. These canisters undergo a multi-stage cleaning process to remove sample contaminants from the interior of the canister in order to provide a clean sample vessel for the next sampling event. To evaluate the efficiency of the canister cleaning process, Air Toxics randomly selects 10% of all cleaned canisters to be certified by GC/MS (Compendium Method TO-15 Section 8.4.1.6). Data from the 10% certification program is compiled and evaluated to monitor the effectiveness of the canister cleaning process.

Requirements for Compendium Method TO-15 are that canisters be certified at 40% of the Reporting Limit. Specifically, this will occur for all standard TO-15 projects (implied reporting limit 0.5/2.0 ppbv, certification level at 0.2/0.8 ppbv). In some instances, the certification level is at or below the reporting limit. Specific client requests for certification are typically addressed on per project basis and we typically recommend 100% certification for SIM or Low Level reporting limits.

For the Leica project, Air Toxics Ltd. provided 6 Liter Summa Canisters and mass flow controllers set to a 3.5ml/min flow rate for a 24 hour sample collection. These cans were shipped from Air Toxics on March 23rd. During this week we cleaned and prepared approximately 900 6L summa canisters for shipments. Over 300 of those cans were set aside for 100% certification by GC/MS, 35% of the total cleaned. There was an approximate certification pass rate of 88% for client specific lists.

If you have any questions, please feel free to contact me directly at 800-985-5955 ext. 1044 or the PM Manager, Phua Penney, at 800-985-5955 ext. 1047.

Best Regards,

Ausha Scott
Project Manager
Air Toxics Ltd.

	Item	Physical ID	Barcode	Quantity	In	Out	Shipped	Received	# Rcv	WO #
1	Candy Bar			1	0	1	03/23/10			
2	Chain of Custody			2	0	2	03/23/10			
3	Fitting w/ Pink Ferrule			2	0	2	03/23/10			
4	Union			2	0	2	03/23/10			
5	6 Liter Summa Canister	✓ 94305	000002239	1	1	0	03/23/10	03/29/10	1	1003633A
6	6 Liter Summa Canister	✓ 14879	0000000283	1	1	0	03/23/10	03/29/10	1	1003633A
7	6 Liter Summa Canister	✓ 9562	0000000911	1	1	0	03/23/10	03/29/10	1	1003633A
8	6 Liter Summa Canister	✓ 9201	0000000367	1	1	0	03/23/10	03/29/10	1	1003633A
9	6 Liter Summa Canister	33573	000003120	1	1	0	03/23/10	03/29/10	1	1003633A
10	6 Liter Summa Canister	✓ 95639	0000001025	1	1	0	03/23/10	03/29/10	1	1003633A
11	6 Liter Summa Canister	✓ SH34209	0000002404	1	1	0	03/23/10	03/29/10	1	1003633A
12	6 Liter Summa Canister	✓ 4356	000001074	1	1	0	03/23/10	03/29/10	1	1003633A
13	6 Liter Summa Canister	✓ 25266	000002486	1	1	0	03/23/10	03/29/10	1	1003633A
14	6 Liter Summa Canister	✓ 36034	000001107	1	1	0	03/23/10	03/29/10	1	1003633A
15	6 Liter Summa Canister	✓ to-3737	000001528	1	1	0	03/23/10	03/29/10	1	1003633A
16	Blue Body Flow Controller	FC00169	FC00169	1	1	0	03/23/10	03/29/10	1	1003633A
17	Blue Body Flow Controller	FC00261	FC00261	1	1	0	03/23/10	03/29/10	1	1003633A
18	Flow Controller-24 hr	03-29	40353	1	1	0	03/23/10	03/29/10	1	1003633A
19	Flow Controller-24 hr	fc6941	40078	1	1	0	03/23/10	03/29/10	1	1003633A
20	Flow Controller-24 hr	101-28	40107	1	1	0	03/23/10	03/29/10	1	1003633A
21	Flow Controller-24 hr	6633	40059	1	1	0	03/23/10	03/29/10	1	1003633A
22	Flow Controller-24 hr	483	40483	1	1	0	03/23/10	03/29/10	1	1003633A
23	Flow Controller-24 hr	367	40044	1	1	0	03/23/10	03/29/10	1	1003633A
24	Flow Controller-24 hr	fc6787	40296	1	1	0	03/23/10	03/29/10	1	1003633A
25	Flow Controller-24 hr	03-34	40503	1	1	0	03/23/10	03/29/10	1	1003633A
26	Gauge-Vacuum			1	1	0	03/23/10	03/29/10	1	1003633A

3/19 - 23

Oven F

@Air Toxics Ltd.

Logbook #: 1916

Date	IN Init.	Start Time	End Time	OUT Init.	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp. (°C)
3/20/10	✓	845	1015	BW	11887	P	P	34227	P	P	33989	P	P	4.1	R	6L	129
3-21	BW	1045	1100	BW	9401	P	P	5785	P	P	33960	P	P	12	R	6L	120°
3/22/10	✓	640	720	✓	5719	P	P	34753	P	P	23988	P	P	4.0	R	6L	↓
	✓	800	830	✓	5627	P	P	9907	P	P	13132	P	P	4.0	R	6L	↓
	✓	905	935	✓	3746	P	P	36049	P	P	4235	P	P	4.0	R	6L	↓
	✓	1145	1215	✓	31491	P	P	35286	P	P	21015	P	P	4.0	R	6L	↓
	✓	1300	1345	✓	13842	P	P	25320	P	P	31139	P	P	4.0	R	6L	↓
	✓	1420	1450	✓	37300	P	P	9318	P	P	35599	P	P	4.5	R	6L	↓
✓	✓	1800	1828	✓	22497	P	P	33977	P	P	34213	P	P	42	R	6L	6m
3/23/10	✓	0825	0850	✓	02245	P	P	95639	P	P	33573	P	P	0	R	6L	
	✓	915	0945	✓	4249	P	P	33903	P	P	96108	P	P	18	R	6L	
	✓	1010	1045	✓	57420	P	P	34666	P	P	36740	P	P	18	R	6L	
	✓	1150	1220	✓	5772	P	P	03738	P	P	4342	P	P	20	R	6L	
	✓	1235	1300	✓	10929	P	P	96109	P	P	12003	P	P	20	R	6L	
	✓	1330	1350	✓	4199	P	P	5621	P	P	05710	P	P	20	R	6L	
	✓	1620	1635	✓	5628	P	P	12719	P	P	34364	P	P	0	R	6L	
	✓	1845	1900	✓	34181	P	P	39034	P	P	34470	P	P	0	R	6L	6m
✓	✓	2130	2150	✓	13664	P	P	34311	P	P	34028	P	P	0	R	6L	6m
3/24/10	✓	630	700	✓	25305	P	P	4347	P	P	12687	P	P	0	R	6L	
	✓	730	800	✓	35543	P	P	1024	P	P	12035	P	P	0	R	6L	
	✓	830	900	✓	2126	P	P	34098	P	P	33714	P	P	0	R	6L	
	✓	1200	1230	✓	38177	P	P	34003	P	P	9554	P	P	0	R	6L	
✓	✓	1400			5556	P	P	9935	P	P	927	P	P	0	R	6L	

CODE KEY: X - High Level

% - Process Certs

FC - Previously Failed Can

[illegible]

CODE KEY: X – High Level

% - Process Certs

FC – Previously Failed Can

Signature

Date _____

Revised 11/09

Oven E

@Air Toxics Ltd.

Logbook #: 1915

Date	IN Init.	Start Time	End Time	OUT Init.	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp. (°C)
3-20-10	→	845	1015	BW	5360	P	P	5697	P	P	31145	P	P	4.0	R	6L	127
3-21	BW	1045	1100	BW	33549	P	P	2587	P	P	9583	P	P	12	R	6L	120
	→	640	720	→	34320	P	P	5669	P	P	4188	P	P	4.0	R	6L	↓
	→	800	830	→	23988	P	P	5669	P	P	34753	P	P	40	R	6L	↓
	→	905	935	→	4204	P	P	5690	P	P	23887	P	P	40	R	6L	↓
	→	1145	1215	→	33973	P	P	34494	P	P	12073	P	P	40	R	6L	↓
	→	1300	1345	→	34462	P	P	12683	P	P	33540	P	P	4.0	R	6L	↓
	→	1470	1450	→	35557	P	P	36180	P	P	23835	P	P	4.5	R	6L	↓
✓	up	1800	1820	up	5696	P	P	24228	P	P	34409	P	P	4.2	R	6L	20
3/22/10	→	0825	0850	→	34758	P	P	94305	P	P	14879	P	P	0	R	6L	↓
	→	915	0945	→	36034	P	P	25266	P	P	3737	P	P	18	R	6L	↓
	→	1010	1045	→	30834	P	P	35692	P	P	36476	P	P	18	R	6L	↓
	→	1180	1220	→	9946	P	P	34390	P	P	05698	P	P	20	R	6L	↓
	→	1230	1330	→	10920	P	P	3723	P	P	31426	P	P	20	R	6L	↓
	→	1540	1600	→	12017	P	P	946	P	P	34006	P	P	20	R	6L	↓
	up	1620	1635	up	R-18	P	P	755-575	P	P	13865	P	P	0	R	6L 1530	60
	up	1845	1900	up	5561	P	P	5724	P	P	5702	P	P	6	R	6L	60
✓	up	2130	2150	up	22494	P	P	23888	P	P	33536	P	P	0	R	6L FL	65
3/24/10	→	630	700	→	34322	P	P	33772	P	P	915	P	P	0	R	6L	↓
	→	730	800	→	34571	P	P	3049	P	P	33913	P	P	0	R	6L	↓
	→	830	900	→	36465	P	P	9539	P	P	9336	P	P	0	R	6L	↓
	→	1200	1230	→	4370	P	P	12700	P	P	34217	P	P	0	R	6L	↓
✓	→	1310	1330	→													BW 5/7/10

CODE KEY: X - High Level % - Process Certs

FC - Previously Failed Can

Date	IN Init.	Start Time	End Time	OUT Init.	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp. (°C)
3/18	8	1010	1040	8	3900	P	P	12378	P	P	2062	P	P	0	R	W	N/A
3/18	BW	1040	1110	BW	37291	P	P	36542	P	P	37349	P	P	0	R	IL	130°
	8	1130	1200	8	4373	P	P	33795	P	P	1563	P	P	0	R	W	L
	8	1230	1230	8	25253	P	P	R-7	P	P	12932	P	P	0	R	W	L
	W	1715	1735	W	5790	P	P	10797	P	P	9423	P	P	0	R	W	W
3/19	8	730	800	8	22508	P	P	9515	P	P	34408	P	P	0	R	W	N/A
	8	830	900	8	02333	P	P	288	P	P	96115	P	P	0	R	W	N/A
	BW	945	1000	BW	36035	P	P	4342	P	P	34433	P	P	0	FC	W	125°
	8	1030	1100	8	2079	P	P	1041	P	P	4432	P	P	0	R	W	N/A
	8	1130	1200	8	03788	P	P	94305	P	P	4379	P	P	0	R	W	L

CODE KEY: X - High Level

% - Process Certs

FC - Previously Failed Can

Oven C

@Air Toxics Ltd.

Logbook #: 1776

Date	Init.	Start Time	End Time	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp.: (°C)
3/18/10	24P	1710	1735	34391	P	P	32129	P	P	55578	P	P	00	R	GL	60W
3/19/10	24P	730	800	4333	P	P	20935	P	P	5711	P	P	0	R	GL	
	24P	0900	0945	9928	P	P	13661	P	P	33536	P	P	0	R	GL	130
	24P	1010	1130	05403	P	P	35152	P	P	33580	P	P	0	P	GL	130
	24P	1200	1300	35241	P	P	5588	P	P	34489	P	P	0		GL	
3-20	24P	830	1000	35109	P	P	5657	P	P	5606	P	P	0	R	GL	125°
3-21	24P	1100	1115	25267	P	P	34439	P	P	35280	P	P	0	R	GL	120°
3-22	24P	640	710	22499	P	P	4365	P	P	96115	P	P	0	R	GL	
	24P	800	830	33898	P	P	4365	P	P	24486	P	P	0	R	GL	
	24P	900	930	33861	P	P	5688	P	P	31436	P	P	0	R	GL	
	24P	1140	1210	33895	P	P	25316	P	P	35975	P	P	0	R	GL	
	24P	1315	1345	34733	P	P	34493	P	P	33932	P	P	0	R	GL	
	24P	1400	1430	2050	P	P	1453	P	P	34107	P	P	0	R	GL	
	24P	1740	1710	34400	P	P	33780	P	P	35248	P	P	0	R	GL	60W
3/23/10	24P	0820	0845	34339	P	P	(4356)	P	P	(34209)	P	P	0	R	GL	
	24P	900	930	416	P	P	25273	P	P	5712	P	P	0	R	GL	
	24P	1010	1040	12333	P	P	2139	P	P	34107	P	P	0	R	GL	NO
	24P	1110	1135	37324	P	P	34105	P	P	36558	P	P	0	R	GL	NO
	24P	1200	1230	2140	P	P	36511	P	P	34086	P	P	0	R	GL	
	24P	1300	1330	2051	P	P	37306	P	P	31781	P	P	0	R	GL	at 1330
	24P	1350	1420	34118	P	P	37131	P	P	9330	P	P	0	R	GL	
	24P	1400	1500	36376	P	P	34608	P	P	2168	P	P	0	R	GL	1430
	24P	1440	NA	3											24 5/7/10	

CODE KEY: X - High Level

% - Process Certs

FC - Previously Failed Can

5/7/10

Date	Init.	Start Time	End Time	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp. (°C)
3/23/10	cep	1610	1630	35287	P	P	35972	P	P	34301	P	P	0	R	6L	600
	up	1745	1810	34757	P	P	36033	P	P	24219	P	P	0	R	6L	600
	up	2130	2150	4364	P	P	95661	P	P	14875	P	P	0	R	6L	600
3/24	BW	100	115	33996	P	P	10786	P	P	5720	P	P	0	R	6L	120°
	2	630	700	02331	P	P	5611	P	P	95662	P	P	0	R	6L	125
	2	630	800	9410	P	P	4359	P	P	25304	P	P	0	R	6L	125
	2	1200	1230	5745	P	P	25256	P	P	4348	P	P	0	R	6L	
	2	1400	1430	12667	P	P	34477	P	P	34383	P	P	0	R	6L	
	up	1510	1530	02332	P	P	14876	P	P	24220	P	P	0	R	6L	600
	up	1535	1550	34649	P	P	35657	P	P	3024	P	P	0	R	6L	130
	up	1600	1635	36486	P	P	33731	P	P	33405	P	P	0	X	IL Study can	1320
	up	1905	1925	5682	P	P	35246	P	P	5595	P	P	0	R	6L	600
	up	1935	2000	35286	P	P	5628	P	P	5775	P	P	0	R	6L	600
	up	2010	2035	25262	P	P	34495	P	P	35256	P	P	0	R	6L	600
3/25	2	715	745	937	P	P	33559	P	P	34327	P	P	0	R	6L	
	2	800	830	11821	P	P	2116	P	P	35597	P	P	0	R	6L	
	2	900	930	9541	P	P	33546	P	P				0	X	6L Test Noor	
	10	0950	1020	36549	P	P	34834	P	P	34104	P	P	0	R	6L	
	2	1035	1105	36433	P	P	12034	P	P	1734	P	P	0	R	6L	
	2	1220	1250	1566	P	P	34374	P	P	35162	P	P	0	R	6L	
	2	1325	1420	14512	P	P	12894	P	P	11835	P	P	0	R	6L	
	2	1440	1520	22566	P	P	5617	P	P	34453	P	P	0	R	6L	
	2	1530	1600	23881	P	P	33660	P	P	13856	P	P	0	R	6L	Batch 2

CODE KEY: X - High Level

% - Process Certs

FC - Previously Failed Can

Oven D

@Air Toxics Ltd.

Logbook #: 1762

Date	Init.	Start Time	End Time	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp. (°C)
3/18/10	24p	1710	1735	5776	P	P	10710	P	P	5738	P	P	00	R	GL	600
3/19/10	8	730	830	34315	P	P	35135	P	P	33553	P	P	0	R	GL	
	10	0920	0930	425	P	P	35212	P	P	35133	P	P	0	R	GL	130
	10	1010	1130	33902	P	P	34497	P	P	34765	P	P	0	R	GL	
	10	1200	1230	5769	P	P	5749	P	P	11892	P	P	0	R	GL	
3/20/10	8	830	1000	33972	P	P	35264	P	P	34029	P	P	0	R	GL	128
3-21	8W	1100	1115	34314	P	P	900	P	P	25271	P	P	0	R	GL	120°
3-22	8	640	720	95680	P	P	35149	P	P	34001	P	P	0	R	GL	
	8	800	830	33556	P	P	3749	P	P	36042	P	P	0	R	GL	
	8	900	930	4241	P	P	4243	P	P	1616	P	P	0	R	GL	
	8	1140	1210	20944	P	P	403	P	P	5668	P	P	0	R	GL	
	8	1318	1345	35139	P	P	35244	P	P	14885	P	P	0	R	GL	
	8	1435	1500	36825	P	P	1415	P	P	1414	P	P	0	R	IL	
	8W	1750	1710	3358	P	P	14866	P	P	3554	P	P	0	R	GL	600
3/23/10	10	0820	0845	34221	P	P	34749	P	P	12688	P	P	0	R	GL	
	8	900	930	4227	P	P	34731	P	P	23996	P	P	0	R	GL	
	8	1010	1040	31785	P	P	12027	P	P	35624	P	P	0	R	IL	
	8	1040	1135	37358	P	P	2033	P	P	34146	P	P	0	R	IL	1110
	8	1200	1230	22966	P	P	35645	P	P	34652	P	P	0	R	IL	
	8	1300	1350	34602	P	P	31770	P	P	34158	P	P	0	R	IL	
	8	1330	1400	25204	P	P	13899	P	P	36428	P	P	0	R	IL	

Date	Init.	Start Time	End Time	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp.: (°C)
3/23	up	1745	1810	415	P	P	1619	P	P	3847	P	P	0	P	6L	62
	up	2130	2150	13656	P	P	425	P	P	12073	P	P	0	P	6L	68
3/24	BW	100	115	25237	P	P	33551	P	P	33980	P	P	0	R	6L	65
	8	630	700	5787	P	P	24224	P	P	49609	P	P	0	R	6L 120° 360 324	65
	8	730	800	5572	P	P	4215	P	P	33916	P	P	0	R	6L	125
	8	1200	1330	1588	P	P	21004	P	P	5643	P	P	0	R	6L	128
	8L	1400		33925	P	P	25240	P	P	34464	P	P		R	6L	
	up	1510	1530	34401	P	P	33939	P	P	4220	P	P	0	R	6L	680
	up	1535	1550	36475	P	P	3562	P	P	31753	P	P	0	R	6L	680
	up	1600	1635	34108	P	P	37384	P	P	31630	P	P	0	R	6L	680
	up	1905	1925	01054	P	P	34267	P	P	5621	P	P	0	R	6L	680
	up	1935	2000	9915	P	P	12023	P	P	34400	P	P	0	R	6L	680
	up	2010	2035	34455	P	P	10771	P	P	03111	P	P	0	R	6L	680
3/25/10	8L	715	745	5757	P	P	32922	P	P	32112	P	P	0	R	6L	
	8	800	830	12391	P	P	12807	P	P	36380	P	P	0	R	6L	
	8	900	930	25263	P	P	34430	P	P	4245	P	P	0	R	6L	
	8	0950	1020	35655	P	P	36543	P	P	2068	P	P	0	R	6L	
	8	1035	1105	33969	P	P	32110	P	P	9411	P	P	0	R	6L	
	8	1120	1250	34139	P	P	34162	P	P	36735	P	P	0	R	6L	
	8	1325	1420	5762	P	P	34427	P	P	12674	P	P	0	R	6L	
	8	1530	1600	14888	P	P	11307	P	P	10978	P	P	0	R	6L	
	up	1835	1650	9945	P	P	3580	P	P	25854	P	P	0	R	6L	
	up	1655	1715	11872	P	P	35163	P	P	34199	P	P	0	R	6L	

CODE KEY: X - High Level

% - Process Certs

FC - Previously Failed Can

Signature

5-7-10

Date

Revised 06/07

Oven B

@Air Toxics Ltd.

Logbook #: 1940

Date	IN Init.	Start Time	End Time	OUT Init.	Can #	I L C	F L C	Can #	I L C	F L C	Can #	I L C	F L C	End mTorr	C O D E	Comments:	Temp. (°C)
3-20/10	+	850	920	+	33973	P	P	12073	P	P	429	P	P	70	R	6L	120°
3-21	BLW	1030	1045	BLW	12719	P	P	9940	P	P	12943	P	P	7.1	R	6L	120°
3/22	8	640	720	8	1052	P	P	24483	P	P	25319	P	P	6.2	R	6L	119
	8	830	900	8	34015	P	P	33277	P	P	34480	P	P	6.7	R	6L	120
	8	930	1015	8	34746	P	P	5411	P	P	14875	P	P	7.2	R	6L	121
	8	1135	1205	8	5085	P	P	13676	P	P	5671	P	P	8.7	R	6L	
	8	1420	1445	8	34267	P	P	34483	P	P	05404	P	P	9.2	R	6L	
3/23/10	ND	0830	920	ND	33663	P	P	5752	P	P	30933	P	P	2.3	R	6L	
	ND	0915	1000	ND	9562	P	P	12690	P	P	9201	P	P	8.4	R	6L	
	ND	1055	1135	8	2199	P	P	36473	P	P	12363	P	P	8.1	R	6L	
	21P	1735	1800	8	25264	P	P	—	—	—	3494	P	P	8.7	X	Test Can No. 9	68U
3/24/10	8	630	700	8	25264	P	P	33922	P	P	33324	P	P	8.2	R	6L 25262	130
	8	730	800	8	2151	P	P	34176	P	P	37364	P	P	8.4	R	6L	
	8	945	1015	8	34417	P	P	25248	P	P	33943	P	P	8.7	R	6L	
	8	1035		8	35985	P	P	35146	P	P	9494	P	P		R	6L	

CODE KEY: X – High Level % – Process Certs FC – Previously Failed Can

APPENDIX C

4/23/2010

Mr. Eric Lovenduski

EnviroGroup

46 Lake Avenue, Suite 102

Saratoga Springs NY 12866

Project Name: Leica

Project #:

Workorder #: 1004258

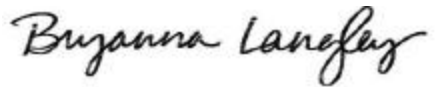
Dear Mr. Eric Lovenduski

The following report includes the data for the above referenced project for sample(s) received on 4/12/2010 at Air Toxics Ltd.

The data and associated QC analyzed by ATL Applications are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley

Project Manager

WORK ORDER #: 1004258

Work Order Summary

CLIENT: Mr. Eric Lovenduski
EnviroGroup
46 Lake Avenue, Suite 102
Saratoga Springs, NY 12866

BILL TO: Accounts Payable
EnviroGroup
7009 S. Potomac Street
Suite 300
Centennial, CO 80112

PHONE: 518-258-3859

P.O. # LE0614

FAX:

PROJECT # Leica

DATE RECEIVED: 04/12/2010

CONTACT: Bryanna Langley

DATE COMPLETED: 04/23/2010

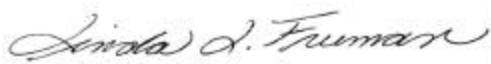
FRACTION #

NAME

TEST

01A	130-PRE-IA-RAD	ATL Applications
01AA	130-PRE-IA-RAD Lab Duplicate	ATL Applications
02A	134-PRE-IA-RAD	ATL Applications
03A	AA-PRE-RAD	ATL Applications
04A	Lab Blank	ATL Applications
05A	LCS	ATL Applications

CERTIFIED BY:



Laboratory Director

DATE: 04/23/10

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
ATL GC/MS Application #48
EnviroGroup
Workorder# 1004258

Three Radiello 130 (Solvent) samples were received on April 12, 2010. The laboratory performed analysis via GC/MS Application #48. Each tube was extracted with 2.0 mL of carbon disulfide. The extract was analyzed by GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody contained incorrect method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

Sample concentrations were calculated using sampling rates provided by the manufacturer. These sampling rate values already take into account the desorption efficiency with carbon disulfide. As a result, the average concentration over the sampling duration is calculated from the mass of analyte measured and the exposure time without a correction factor. Results were calculated based on 25 deg C without temperature correction.

The rate for 1,2,4-Trimethylbenzene was estimated based on Graham's Law using the sampling rate of ethyl benzene as the reference. The theoretical sampling rate was calculated as 60 mL/min. The resulting concentration was flagged as an estimated value.

The actual exposure time was used to calculate sample concentrations and reporting limits. An exposure time of 20160 minutes was used for the Laboratory Blank.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds RADIELLO VOCS BY GC/MS

Client Sample ID: 130-PRE-IA-RAD

Lab ID#: 1004258-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	0.083	0.41 J
1,2-Dichloroethane	0.064	0.10
2-Butanone (Methyl Ethyl Ketone)	0.063	0.93
2-Propanol	0.19	7.9
Acetone	0.13	0.91
Benzene	0.12	0.73
Carbon Tetrachloride	0.074	0.34
Chloroform	0.066	0.69
Cyclohexane	0.092	0.29
Ethanol	0.049	3.3
Ethyl Acetate	0.25	1.7
Ethyl Benzene	0.073	0.39
Heptane	0.086	0.36
Hexane	0.075	0.78
m,p-Xylene	0.14	1.2
o-Xylene	0.076	0.37
Propylbenzene	0.087	0.095
Tetrachloroethene	0.084	0.15
Toluene	0.067	2.0

Client Sample ID: 130-PRE-IA-RAD Lab Duplicate

Lab ID#: 1004258-01AA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	0.083	0.45 J
1,2-Dichloroethane	0.064	0.12
2-Butanone (Methyl Ethyl Ketone)	0.063	0.99
2-Propanol	0.19	8.2
Acetone	0.13	1.1
Benzene	0.12	0.75
Carbon Tetrachloride	0.074	0.35
Chloroform	0.066	0.70
Cyclohexane	0.092	0.26
Ethanol	0.049	4.1
Ethyl Acetate	0.25	1.7
Ethyl Benzene	0.073	0.44

Summary of Detected Compounds RADIELLO VOCS BY GC/MS

Client Sample ID: 130-PRE-IA-RAD Lab Duplicate

Lab ID#: 1004258-01AA

Heptane	0.086	0.41
Hexane	0.075	0.79
m,p-Xylene	0.14	1.2
o-Xylene	0.076	0.42
Propylbenzene	0.087	0.10
Tetrachloroethene	0.084	0.16
Toluene	0.067	2.1

Client Sample ID: 134-PRE-IA-RAD

Lab ID#: 1004258-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	0.089
1,2,4-Trimethylbenzene	0.083	0.48 J
1,2-Dichloroethane	0.064	1.9
2-Butanone (Methyl Ethyl Ketone)	0.063	0.92
2-Propanol	0.19	4.7
Acetone	0.13	2.8
Benzene	0.12	0.80
Carbon Tetrachloride	0.074	0.39
Chloroform	0.066	0.55
Cyclohexane	0.092	0.20
Ethanol	0.049	9.9
Ethyl Acetate	0.25	0.30
Ethyl Benzene	0.073	0.58
Heptane	0.086	0.44
Hexane	0.075	0.77
m,p-Xylene	0.14	1.6
o-Xylene	0.076	0.52
Trichloroethene	0.072	0.084
Tetrachloroethene	0.084	0.29
Toluene	0.067	2.2

Client Sample ID: AA-PRE-RAD

Lab ID#: 1004258-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	0.083	0.29 J

Summary of Detected Compounds RADIELLO VOCS BY GC/MS

Client Sample ID: AA-PRE-RAD

Lab ID#: 1004258-03A

2-Butanone (Methyl Ethyl Ketone)	0.063	0.16
Acetone	0.13	0.36
Benzene	0.12	0.80
Carbon Tetrachloride	0.074	0.43
Cyclohexane	0.092	0.12
Ethyl Benzene	0.073	0.28
Heptane	0.086	0.34
Hexane	0.075	0.67
m,p-Xylene	0.14	0.84
o-Xylene	0.076	0.33
Tetrachloroethene	0.084	0.19
Toluene	0.067	1.8

Client Sample ID: 130-PRE-IA-RAD

Lab ID#: 1004258-01A

RADIELLO VOCs BY GC/MS

File Name:	q041221	Date of Collection: 4/9/10 11:30:00 AM
Dil. Factor:	1.00	Date of Analysis: 4/12/10 08:29 PM
		Date of Extraction: 4/12/10

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	Not Detected
1,2,4-Trimethylbenzene	0.083	0.41 J
1,2-Dichloroethane	0.064	0.10
1,4-Dichlorobenzene	0.097	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.063	0.93
2-Propanol	0.19	7.9
4-Methyl-2-pentanone	0.15	Not Detected
Acetone	0.13	0.91
Benzene	0.12	0.73
Carbon Tetrachloride	0.074	0.34
Chlorobenzene	0.073	Not Detected
Chloroform	0.066	0.69
Cyclohexane	0.092	0.29
Ethanol	0.049	3.3
Ethyl Acetate	0.25	1.7
Ethyl Benzene	0.073	0.39
Heptane	0.086	0.36
Hexane	0.075	0.78
Methyl tert-butyl ether	0.076	Not Detected
m,p-Xylene	0.14	1.2
o-Xylene	0.076	0.37
Styrene	0.081	Not Detected
Naphthalene	0.20	Not Detected
Propylbenzene	0.087	0.095
Trichloroethene	0.072	Not Detected
Tetrachloroethene	0.084	0.15
Toluene	0.067	2.0

J = Estimated value.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

Client Sample ID: 130-PRE-IA-RAD Lab Duplicate

Lab ID#: 1004258-01AA

RADIELLO VOCS BY GC/MS

File Name:	q041222	Date of Collection: 4/9/10 11:30:00 AM
Dil. Factor:	1.00	Date of Analysis: 4/12/10 08:52 PM
		Date of Extraction: 4/12/10

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	Not Detected
1,2,4-Trimethylbenzene	0.083	0.45 J
1,2-Dichloroethane	0.064	0.12
1,4-Dichlorobenzene	0.097	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.063	0.99
2-Propanol	0.19	8.2
4-Methyl-2-pentanone	0.15	Not Detected
Acetone	0.13	1.1
Benzene	0.12	0.75
Carbon Tetrachloride	0.074	0.35
Chlorobenzene	0.073	Not Detected
Chloroform	0.066	0.70
Cyclohexane	0.092	0.26
Ethanol	0.049	4.1
Ethyl Acetate	0.25	1.7
Ethyl Benzene	0.073	0.44
Heptane	0.086	0.41
Hexane	0.075	0.79
Methyl tert-butyl ether	0.076	Not Detected
m,p-Xylene	0.14	1.2
o-Xylene	0.076	0.42
Styrene	0.081	Not Detected
Naphthalene	0.20	Not Detected
Propylbenzene	0.087	0.10
Trichloroethene	0.072	Not Detected
Tetrachloroethene	0.084	0.16
Toluene	0.067	2.1

J = Estimated value.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

Client Sample ID: 134-PRE-IA-RAD

Lab ID#: 1004258-02A

RADIELLO VOCs BY GC/MS

File Name:	q041223	Date of Collection: 4/9/10 11:40:00 AM
Dil. Factor:	1.00	Date of Analysis: 4/12/10 09:15 PM
		Date of Extraction: 4/12/10

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	0.089
1,2,4-Trimethylbenzene	0.083	0.48 J
1,2-Dichloroethane	0.064	1.9
1,4-Dichlorobenzene	0.097	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.063	0.92
2-Propanol	0.19	4.7
4-Methyl-2-pentanone	0.15	Not Detected
Acetone	0.13	2.8
Benzene	0.12	0.80
Carbon Tetrachloride	0.074	0.39
Chlorobenzene	0.073	Not Detected
Chloroform	0.066	0.55
Cyclohexane	0.092	0.20
Ethanol	0.049	9.9
Ethyl Acetate	0.25	0.30
Ethyl Benzene	0.073	0.58
Heptane	0.086	0.44
Hexane	0.075	0.77
Methyl tert-butyl ether	0.076	Not Detected
m,p-Xylene	0.14	1.6
o-Xylene	0.076	0.52
Styrene	0.081	Not Detected
Naphthalene	0.20	Not Detected
Propylbenzene	0.087	Not Detected
Trichloroethene	0.072	0.084
Tetrachloroethene	0.084	0.29
Toluene	0.067	2.2

J = Estimated value.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

Client Sample ID: AA-PRE-RAD

Lab ID#: 1004258-03A

RADIELLO VOCs BY GC/MS

File Name:	q041224	Date of Collection: 4/9/10 11:50:00 AM
Dil. Factor:	1.00	Date of Analysis: 4/12/10 09:38 PM
		Date of Extraction: 4/12/10

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	Not Detected
1,2,4-Trimethylbenzene	0.083	0.29 J
1,2-Dichloroethane	0.064	Not Detected
1,4-Dichlorobenzene	0.097	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.063	0.16
2-Propanol	0.19	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected
Acetone	0.13	0.36
Benzene	0.12	0.80
Carbon Tetrachloride	0.074	0.43
Chlorobenzene	0.073	Not Detected
Chloroform	0.066	Not Detected
Cyclohexane	0.092	0.12
Ethanol	0.049	Not Detected
Ethyl Acetate	0.25	Not Detected
Ethyl Benzene	0.073	0.28
Heptane	0.086	0.34
Hexane	0.075	0.67
Methyl tert-butyl ether	0.076	Not Detected
m,p-Xylene	0.14	0.84
o-Xylene	0.076	0.33
Styrene	0.081	Not Detected
Naphthalene	0.20	Not Detected
Propylbenzene	0.087	Not Detected
Trichloroethene	0.072	Not Detected
Tetrachloroethene	0.084	0.19
Toluene	0.067	1.8

J = Estimated value.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130

Client Sample ID: Lab Blank

Lab ID#: 1004258-04A

RADIELLO VOCs BY GC/MS

File Name:	q041206c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/12/10 02:45 PM
		Date of Extraction: 4/12/10

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	Not Detected
1,2,4-Trimethylbenzene	0.083	Not Detected J
1,2-Dichloroethane	0.064	Not Detected
1,4-Dichlorobenzene	0.097	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.063	Not Detected
2-Propanol	0.19	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected
Acetone	0.13	Not Detected
Benzene	0.12	Not Detected
Carbon Tetrachloride	0.074	Not Detected
Chlorobenzene	0.073	Not Detected
Chloroform	0.066	Not Detected
Cyclohexane	0.092	Not Detected
Ethanol	0.049	Not Detected
Ethyl Acetate	0.25	Not Detected
Ethyl Benzene	0.073	Not Detected
Heptane	0.086	Not Detected
Hexane	0.075	Not Detected
Methyl tert-butyl ether	0.076	Not Detected
m,p-Xylene	0.14	Not Detected
o-Xylene	0.076	Not Detected
Styrene	0.081	Not Detected
Naphthalene	0.20	Not Detected
Propylbenzene	0.087	Not Detected
Trichloroethene	0.072	Not Detected
Tetrachloroethene	0.084	Not Detected
Toluene	0.067	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

Client Sample ID: LCS

Lab ID#: 1004258-05A

RADIELLO VOCs BY GC/MS

File Name:	q041205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/12/10 02:22 PM
		Date of Extraction: 4/12/10

Compound	%Recovery
1,1,1-Trichloroethane	106
1,2,4-Trimethylbenzene	98
1,2-Dichloroethane	107
1,4-Dichlorobenzene	83
2-Butanone (Methyl Ethyl Ketone)	100
2-Propanol	99
4-Methyl-2-pentanone	110
Acetone	91
Benzene	87
Carbon Tetrachloride	100
Chlorobenzene	90
Chloroform	106
Cyclohexane	103
Ethanol	87
Ethyl Acetate	104
Ethyl Benzene	113
Heptane	119
Hexane	101
Methyl tert-butyl ether	100
m,p-Xylene	106
o-Xylene	99
Styrene	61
Naphthalene	8.8
Propylbenzene	97
Trichloroethene	104
Tetrachloroethene	105
Toluene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

APPENDIX D

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Lovenduski Date/Time Prepared 2/25/10 1030

Preparer's Affiliation EnviroGroup LTD Phone No. 518-258-3859

Purpose of Investigation Leica - Offsite VI evaluation

1. OCCUPANT:

* occupant would not allow interview

Interviewed: Y / N

Last Name: _____ First Name: "Ray"

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / N * Landlord would not allow interview

Last Name: Woodall First Name: Damien

Address: _____

County: _____

Home Phone: _____ Office Phone: Cell 315-559-1039

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	<u>2-Family</u> <i>up stairs/down stairs</i>	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 2

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 88 *(built in 1922 - Erie County, GLS)*

Is the building insulated? Y / N

Unknown

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with - previously painted - deteriorated paint.
- h. The basement is: wet damp dry moldy * wet in Northeast corner appears to be from water leaking through cinder block wall. - North east wall.
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: 1.5' (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks in cinder block wall, very thin slab (20.5"), wood cover over hole in slab
in center of basement, laundry water piping penetrations

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Furnace is located in center of basement w/ ~12" diameter flexible ducting.
ducting appears to be in good condition.

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never*

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

*Laundry + significant amount of junk throughout basement.

1st Floor

Residential, presumed

2nd Floor

Residential, presumed

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/N

b. Does the garage have a separate heating unit?

Y/N/NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y/N/NA

Please specify _____

d. Has the building ever had a fire?

Y/N When? Unknown

e. Is a kerosene or unvented gas space heater present?

Y/N Where? Not in basement

f. Is there a workshop or hobby/craft area?

Y/N Where & Type? Not in basement

g. Is there smoking in the building?

Y/N How frequently? Unknown, no cigarettes in basement

h. Have cleaning products been used recently?

Y/N When & Type? Unknown, not likely

i. Have cosmetic products been used recently?

Y/N When & Type? Unknown

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Unknown
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Unknown, not likely
- l. Have air fresheners been used recently? Y / N When & Type? Unknown
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Unknown
- n. Is there a bathroom exhaust fan? Y / N If yes, where vented? Unknown
- o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / N When & Type? Unknown, not likely

Are there odors in the building? Y / N

If yes, please describe: Musty odor in basement

Do any of the building occupants use solvents at work? Y / N Unknown

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) Unknown No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

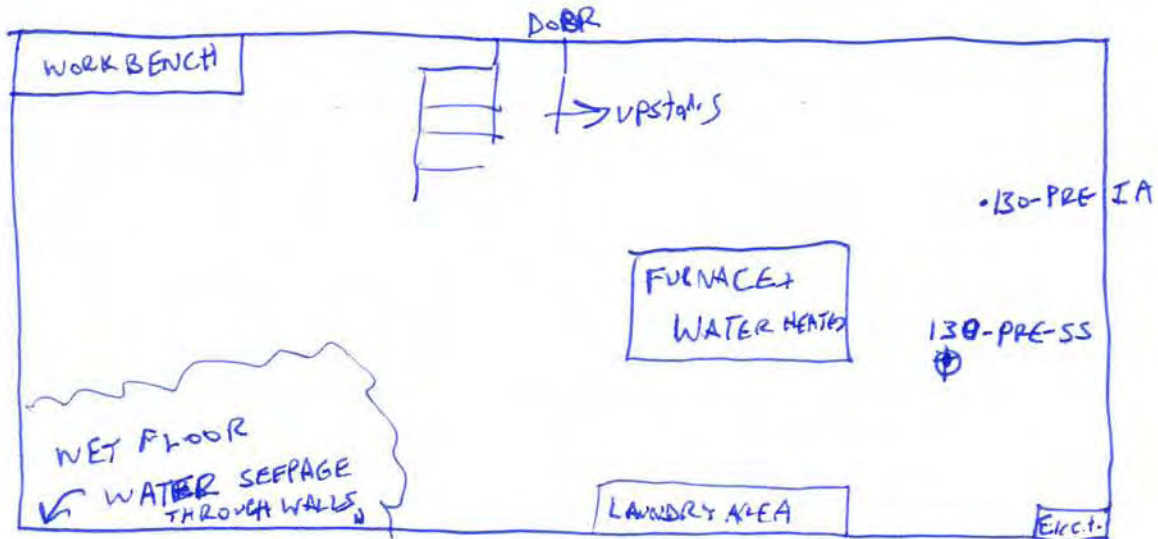
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

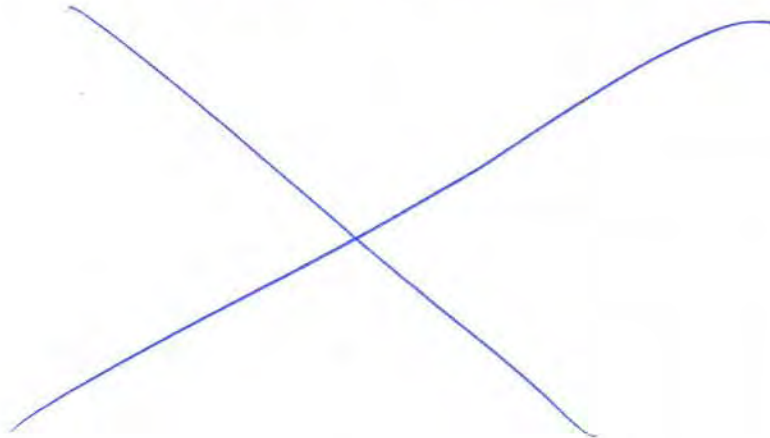
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:

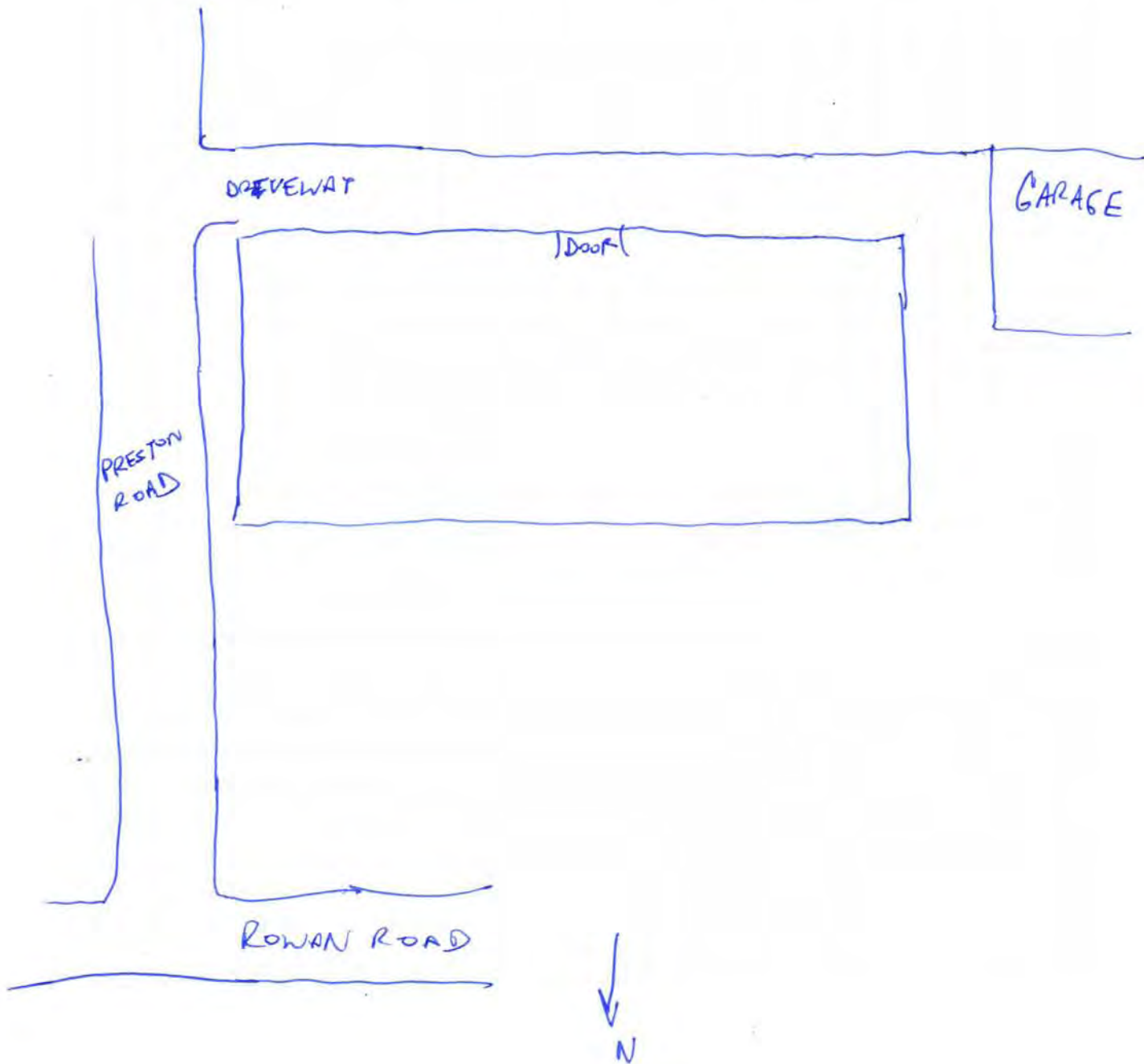
ACCESS NOT PERMITTED



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE SYSTEMS ppbRAE V/10.6EV Lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Basement background = 0 ppb

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Basement	All Laundry Det.	20 100oz	U		0	N
	Clorox Bleach	30 1gal	U/VO	Sodium hypochlorite, NaOH	0	N
	Plasti-Kote Aerosol Primer	12oz	U	Dimethyl Ketone, Isobutyl acetate, Mineral spirits, Ethylbenzene	128	Y
	Plasti-Kote Aerosol Paint	6oz	U	Toluene, Xylene	291	Y
	Great Stuff Spray foam	6oz	VO	NOT LISTED	0	Y
	Zinsser Aerosol Primer	13oz	U	Petroleum Distillates	172	Y
	Olympic Oil Base Stain	1pt	U	Naphtha, Diethylene Glycol, Isobutyl	103	Y
	Gleddon Enamels Latex	4gal	U	Ethylene Glycol	72	Y
	Honey 2082 Floor Coating	1gal	U	Asphalt, Petroleum Distillates	103	Y

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Lovenduski Date/Time Prepared 02/25/10 0915

Preparer's Affiliation EnviroGroup Limited Phone No. 518-258-3859

Purpose of Investigation Leica offsite Indoor air investigation/evaluation

1. OCCUPANT:

Interviewed: ☒ Y / ☐ N

Last Name: Salomon First Name: Jason

Address: 134 Preston Road Cheektowaga, NY

County: Erie

Home Phone: ^{cell} Office Phone: 716-812-2289

Number of Occupants/persons at this location 1 Age of Occupants 33

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: ☒ Y / ☐ N

Last Name: Doze First Name: Christine

Address: 103 Carol Drive, Cheektowaga, NY

County: Erie

Home Phone: 716-892-6182 Office Phone:

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

☒ Residential

☐ Industrial

☐ School

☐ Church

☐ Commercial/Multi-use

☐ Other:

If the property is residential, type? (Circle appropriate response)

Ranch	<u>2-Family</u> * <i>upstairs + downstairs</i>	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 2

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 79 (*built 1931 - Erie Co. GIS*)

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors NOT CONDUCTED

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy ** Seasonally wet in N.E. corner - snow melt, heavy rain*
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: ~ 5 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

- Thin slab (2-1") , cracks in block walls, laundry sink in N-central wall

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler
		Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y / ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Furnace located in center of basement. Typical modern ducting (~2 yrs old)

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never ** laundry + storage*

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	<u>Laundry + storage</u>
1 st Floor	<u>Residential Apartment</u>
2 nd Floor	<u>Residential Apartment</u>
3 rd Floor	<u>NA</u>
4 th Floor	<u>NA</u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- Is there an attached garage? Y / ☒ N
- Does the garage have a separate heating unit? Y / N / ☒ NA
- Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / ☒ NA
Please specify _____
- Has the building ever had a fire? Y / ☒ N When? _____
- Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- Is there smoking in the building? Y / ☒ N How frequently? _____
- Have cleaning products been used recently? ☒ Y / ☐ N When & Type? -weekly, household cleansers - both rooms + mopping floors
- Have cosmetic products been used recently? ☒ Y / ☐ N When & Type? daily, cologne

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____
- l. Have air fresheners been used recently? Y / N When & Type? _____
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / N If yes, where vented? Exterior
- o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / N When & Type? _____

Are there odors in the building? Y / N★

If yes, please describe: Tenant reports occasional sulfur odor in bathroom sink

Do any of the building occupants use solvents at work? Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: NA

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

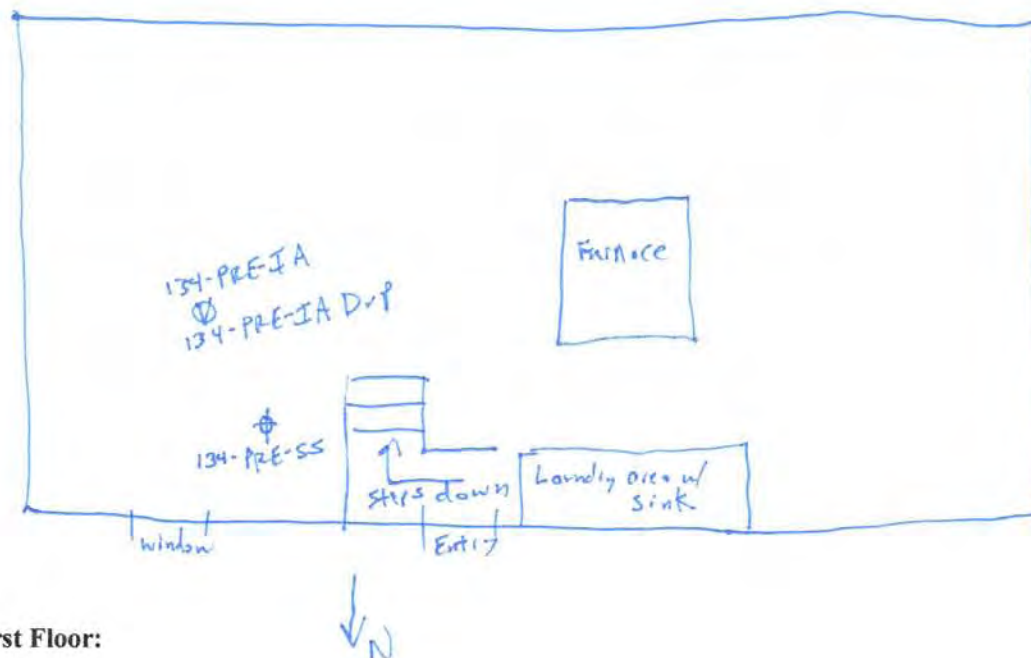
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d. Relocation package provided and explained to residents? Y / N

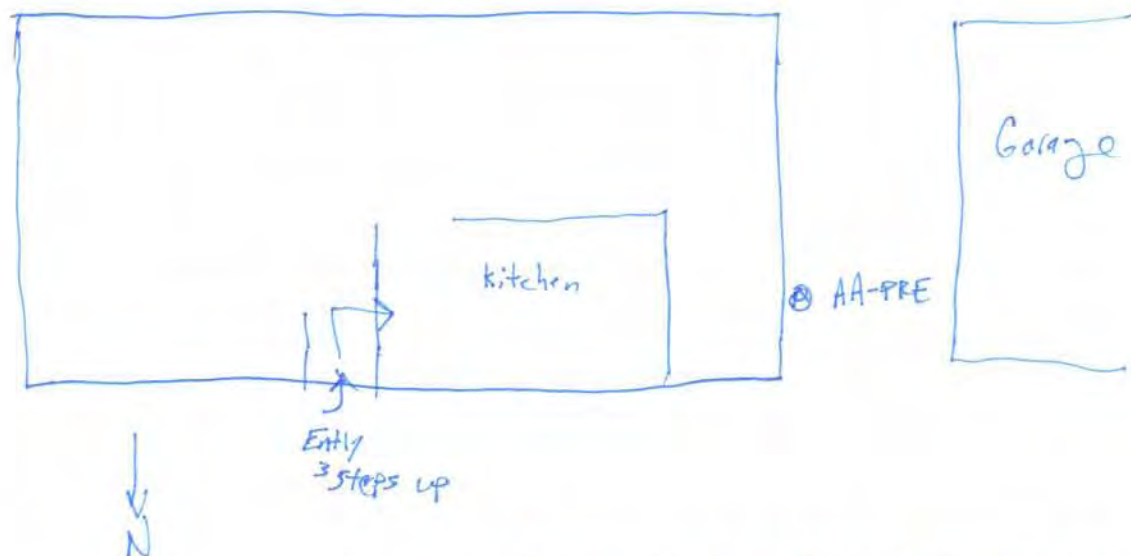
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Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

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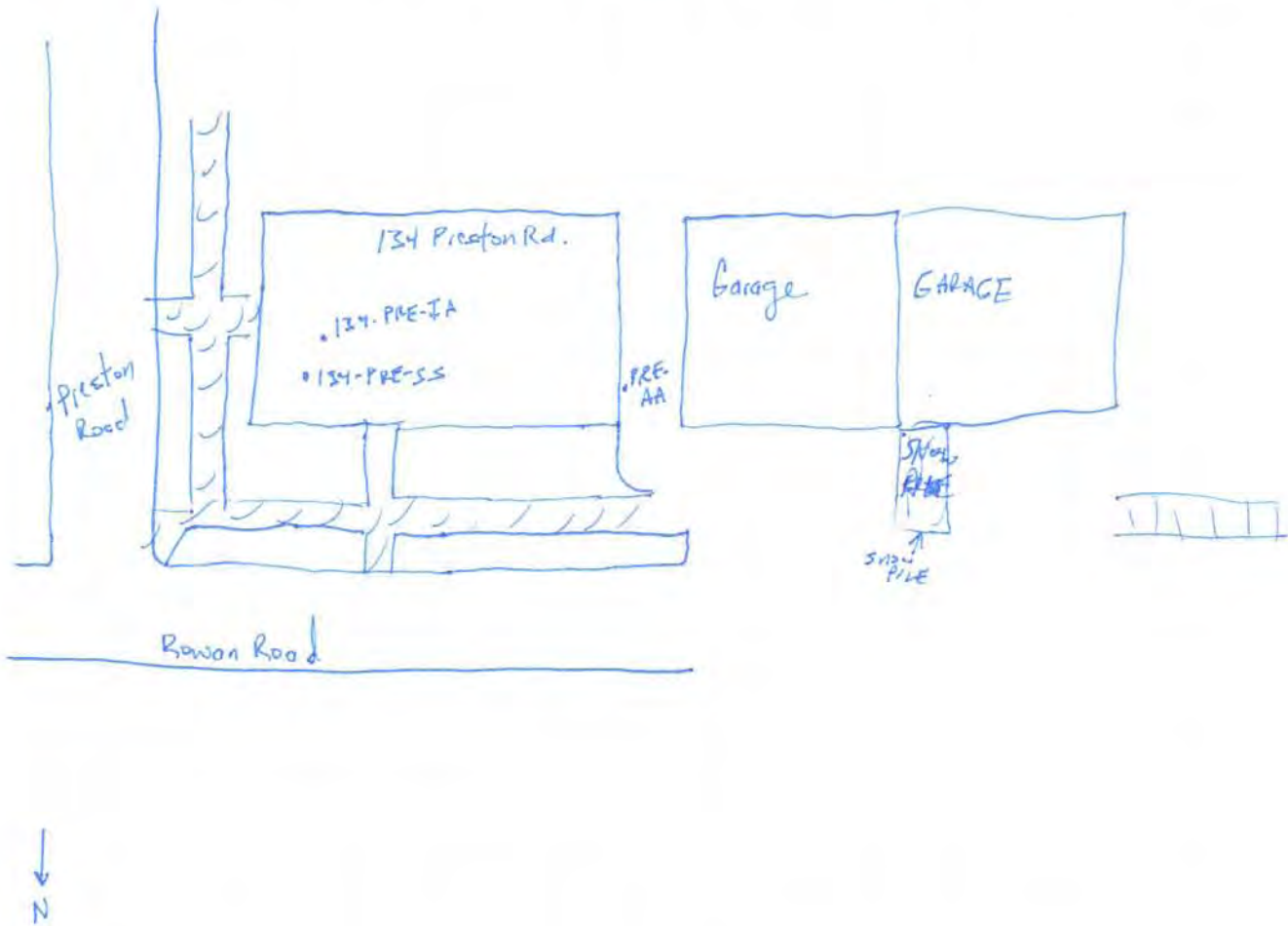


* owner + tenant would not permit access past kitchen on First Floor.

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppb RAE w/10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Basement background = 0 ppb

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
BASEMENT	STP Brake Fluid	12oz	U	diethylene glycol -triethylene glycol, polyalkylene glycol ethers	0	Y
	American XT ATF	1Q	U	NOT LISTED	0	Y
	Px oil Starting Fluid	11oz	U	Heptane, diethyl ether, Hexane, CO ₂	125	Y
	X-Tra Laundry Detergent	2x 150oz	UO/U	Not listed "Spring Sunshine"	0	N
	Clorox Bleach	1gal	U	Bleach - sodium hypochlorite, NaOH	0	N
	Final Touch Fabric Softener	1/2 gal	U	NOT LISTED	0	N
	Kleen Strip Paint Thinner	1QT	U	Petroleum Distillates	52	N
	Behr Latex "Ultra Pure White"	3x/gal	U	~~Behr~~ Ethanol/Glycol, Styrene, Stock # 026066	109	N
	Color Tile "Instant Clean"	1QT	U	Phenylacetal	0	N

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX E

Leica Data Validation Summary
LE-0614
Indoor Air testing from 2/10-3/10

Air Toxics 1003633A and 1003633B

- A “g” flag should be applied to all results for sample 134-PRE-SS-2; initial pressure = 23.0” Hg.
- A “<” flag should be applied to all results for sample 134-PRE-SS-2; final pressure = 0” Hg.
- A “G” flag should be applied to all results for sample AA-TS; sample receipt pressure was 2.5” lower than final field sample pressure.
- Canister cleaning documented by process cleaning.

Centek C1003003

- A “C” flag should be applied to all results for all samples (PRE-AA, 134-PRE-SS, 134-PRE-IA, 134-PRE-AI DUP, 130-PRE-SS, 130-PRE-IA); sample dates were wrong on COC and sample times, analysis requested, and start and stop vacuum readers were missing.
- A “<” flag should be applied to all results for samples PRE-AA, 134-PRE-IA, 134-PRE-SS; final pressure = 0” Hg.
- A “>” flag should be applied to all results for all samples (PRE-AA, 134-PRE-SS, 134-PRE-IA, 134-PRE-AI DUP, 130-PRE-SS, 130-PRE-IA); all sample times were over 25 hours.
- An “IT” flag should be applied to all result for all samples (PRE-AA, 134-PRE-SS, 134-PRE-IA, 134-PRE-AI DUP, 130-PRE-SS, 130-PRE-IA; no trip blank was included.
- A “P” flag should be applied to isopropyl alcohol and PCE for sample 134-PRE-IA DUP; duplicate results were greater than 50% RPD.
- See attached lab corrective action reports regarding internal standards and continuing calibration deviations; no flagging necessary.
- An “HB” flag should be applied to all detected results for 1,1,1-TCA, carbon tetrachloride, and TCE, due to the LCSD being above control limits for % recovery.