

SOIL VAPOR INTRUSION INVESTIGATION SUMMARY REPORT

AT

**FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NEW YORK 11020**

NYSDEC VCP SITE #V-00244-1

MAY 2017

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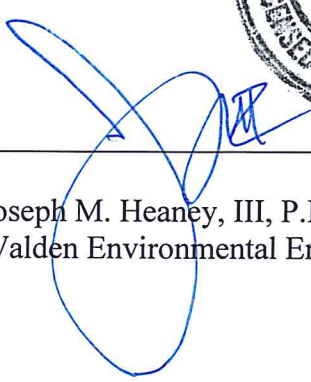
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Professional Engineer Certification

I, Joseph M. Heaney, III, P.E., certify that I am currently a NYS registered professional engineer and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

I further certify that this submittal, *Soil Vapor Intrusion Investigation Summary Report*, dated May 4, 2017, was prepared under my direction.





Joseph M. Heaney, III, P.E.
Walden Environmental Engineering, PLLC

6/27/17

Date

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1 INTRODUCTION

Walden Environmental Engineering, PLLC (Walden) has prepared this report to summarize the results of the February 2016 soil vapor intrusion (SVI) investigation conducted for the Former Imperial Cleaners site located at 218 Lakeville Road, Lake Success, New York (the “Site”). The Site is currently managed under the New York State Voluntary Cleanup Program (VCP) as VCP #V-00244-1 subject to New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Agreement #D1-0001-01-03. This agreement was amended on July 28, 2015 to reflect a change in property ownership, establishing 218 Lakeville Acquisition LLC as the Site Owner and remedial party.

The SVI investigation was conducted to address the potential for vapor intrusion from contaminated soil vapor and potential impacts on indoor air quality at the Site and neighboring off-site properties. The SVI investigation was completed in accordance with the NYSDEC approved *Soil Vapor Intrusion Investigation Work Plan* (Work Plan; Walden, December 2015) which was developed in accordance with the guidelines set forth in NYSDEC *DER-13: Strategy for Evaluating Soil Vapor Intrusion at Remedial Sites in New York* (issued October 18, 2006) and *NYSDOH: Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (dated October 2006). The field work included the collection of sub-slab vapor, indoor air, and outdoor air samples.

A brief site description and the objectives of the SVI investigation are presented below. Section 2 describes the SVI investigation field work conducted at the Site and neighboring properties. Section 3 summarizes the SVI investigation sampling results. Section 4 presents conclusions and recommendations based on the SVI investigation results.

1.1 Site History and Previous Investigations/Remediation

The Site location is illustrated on Figure 1. The Site is a commercial center with a one-story building occupying approximately 4,250 square feet, with one active tenant (Tobacco Plaza, Ltd.) and three vacant spaces as shown on Figure 2. The basement of the on-site building has concrete block walls and a poured concrete floor slab. Note that there is a perched water table underlying the site at approximately 30 feet below grade, while the water table is located approximately 150 feet below land surface.

A release of tetrachloroethylene (PCE) at the Site was first noted in 1995. The PCE contamination was suspected to originate from floor drains within the space occupied by a dry cleaner (Imperial Cleaners) at that time and from leaching pools and drywells around the property. The site investigation and remediation work described below was

conducted by the previous owners of the Site as required by NYSDEC and NYSDOH under the VCP.

A site investigation was conducted to identify source areas and determine the extent of contaminated soil and groundwater at the Site. Contaminated sediments were removed from the source areas (dry wells, an interior floor drain and leaching pools) to the extent possible without undermining the structures. Post-excavation soil sampling results indicated that volatile organic compounds (VOCs) remained in the subsurface following the source area removal actions. A soil vapor extraction (SVE) system was installed to remove VOC vapors remaining in the soil and improve soil and groundwater quality. The SVE system began operating in 2001 (refer to Appendix A for details on the SVE system). A soil, soil gas, groundwater and indoor air monitoring program was implemented to track the reductions in VOC concentrations achieved by operation of the SVE system. The SVE system was shut down several years ago when on-site soil sampling results indicated that the SVE system had successfully reduced soil contaminant concentrations to below the NYSDEC TAGM 4046 Recommended Cleanup Objectives.

1.2 SVI Sampling Objectives

Representatives from NYSDEC, 218 Lakeville Acquisition LLC (the new property owner) and Walden met on-site on September 17, 2015 to evaluate Site conditions and discuss previous sampling investigations, potential redevelopment of the Site and the work required to achieve VCP site closure. Based on this meeting and subsequent discussions, the Work Plan was developed detailing the additional on-site and off-site sampling to be conducted to evaluate potential indoor air quality impacts related to SVI and support development of appropriate site closure/management recommendations for NYSDEC and NYSDOH review and approval.

The SVI sampling was conducted during the 2015-2016 heating season in accordance with the NYSDEC-approved Work Plan as discussed in Section 2.

2 SVI INVESTIGATION FIELD WORK

The SVI sub-slab sampling point installation was conducted on February 16-17, 2016. Sub-slab vapor, indoor air and outdoor air samples were collected over a 24-hour sampling period from February 17-18, 2016. The field work and sampling activities are described below.

2.1 Interior Inspection

Pre-sampling interior inspections were performed to identify potential vapor intrusion pathways and to determine appropriate sub-slab and indoor air sampling locations. The Site and off-site properties were inspected to evaluate the physical layout and to identify conditions or materials stored and/or used that may affect or interfere with the sampling or interpretation of the sampling results. Consideration was given to factors such as access for installation/sampling purposes, interior uses at the Site, foundation/floor slab installation and conditions, heating/ventilation/mechanical system operation, and utility layout/breaches.

The indoor air quality questionnaire and building inventory sheet provided in the NYSDOH SVI guidance was completed prior to sampling. Copies of the completed questionnaire for the on-site building and off-site properties are provided in Appendix B of this report.

To reduce the potential for interference and dilution effects of samples, the Site tenants and off-site property owners were notified in advance of sampling to ensure that the occupants avoided the following activities within 24 hours prior to sampling wherever possible (per NYSDOH *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October 2006, p. 33):

- Opening any windows, fireplace dampers, openings or vents;
- Operating ventilation fans unless special arrangements are made;
- Smoking in the building;
- Painting;
- Using a wood stove, fireplace or other auxiliary heating equipment (e.g., kerosene heater);
- Operating or storing automobile in an attached garage;
- Allowing containers of gasoline or oil to remain within the house or garage area, except for fuel oil tanks;
- Cleaning, waxing or polishing furniture, floors or other woodwork with petroleum or oil-based products;

- Using air fresheners, scented candles or odor eliminators;
- Engaging in any hobbies that use materials containing volatile chemicals;
- Using cosmetics including hairspray, nail polish, nail polish removers, perfume/cologne, etc.;
- Lawn mowing, paving with asphalt, or snow blowing;
- Applying pesticides;
- Using building repair or maintenance products, such as caulk or roofing tar; and
- Bringing freshly dry-cleaned clothing or furnishings into the building.

2.2 Sampling Locations

The SVI investigation samples were collected from the general locations defined in the NYSDEC-approved work plan. The sampling locations were selected on February 11, 2016 following an inspection of each space and cleared based on a private utility mark-out, physical access and tenant/owner approval. Refer to Figure 2 for the sampling locations.

Sub-slab vapor sampling points were placed in locations with a minimal potential for ambient air infiltration from floor penetrations such as cracks, floor drains, utility perforations, sumps, etc. All penetrations observed were sealed prior to sample collection.

2.2.1 On-site Locations

Sub-slab vapor and indoor air samples were collected in pairs (at each sub-slab sampling location, a corresponding indoor air sample was collected concurrently) from four locations in the basement of the on-site building at 218 Lakeville Road as follows:

- Beneath the former dry cleaners space (SS-1 and IA-1)
- Beneath Tobacco Plaza (in the unfinished area on the west side of the space) (SS-2 and IA-2)
- Two locations beneath the former delicatessen space (this basement area is divided into two sections; one sampling location in each section) (SS-3 and IA-3; SS-4 and IA-4)

A duplicate sub-slab vapor sample (SS-9) was collected from one of the on-site basement sampling locations. Similarly, a duplicate indoor air sample (IA-9) was also collected from an on-site basement location.

Two outdoor air samples (AA-1 and AA-2) and one duplicate (AA-3) were collected outside the on-site building concurrently with the sub-slab and indoor air samples to obtain samples representative of ambient (background) conditions at the site. The final

outdoor air sampling locations were selected in the field and sited upwind (AA-1) and downwind (AA-2 and duplicate AA-3) of the on-site sampling locations (dependent upon the wind direction observed at the time of sampling).

2.2.2 Off-site Locations

The off-site sampling was conducted at the same time as the on-site sampling to achieve contemporaneous analytical results. Pairs of sub-slab vapor and indoor air samples were collected per the Work Plan in the lowest level of three off-site properties as follows:

- 2 University Place (SS-5 and IA-5)
- 4 University Place (SS-6 and IA-6)
- 220 Lakeville Road (SS-7 and IA-7)

The owner of 216 Lakeville Road (“De-Liceful” rear cottage) would not allow a sub-slab vapor sampling probe to be installed inside this building because there was no way to avoid damaging the floors by installing a sub-slab vapor sampling probe as specified in the approved Work Plan. Walden contacted NYSDEC and NYSDOH on February 11, 2016 regarding this issue and the State approved the following modification to the sampling locations at this off-site property:

- A surrogate soil vapor sample (SS-8) was collected outside the 216 Lakeville Road cottage in the asphalt paved area on the west side of the building. A hole was drilled through the pavement adjacent to the cottage and a sampling probe was installed to collect a vapor sample from the soil below using the same setup specified in the Work Plan for indoor sub-slab vapor sample collection.
- The indoor air sample (IA-8) was collected inside the 216 Lakeville Road cottage from a location near the outdoor surrogate soil vapor sampling location.

2.3 Sub-slab Sampling Probe Installation

Permanent recessed sub-slab vapor sampling probes were installed in accordance with NYSDOH SVI guidance and as described in the Work Plan. At each location, a small diameter hole (approximately one inch) was drilled through the concrete floor slab and into sub-slab material approximately two (2) inches below the bottom of the floor slab. Concrete and soil cuttings were removed from the hole. A stainless steel sampling probe was installed to no greater than two (2) inches into the sub-slab material. The top of the probe was finished with a recessed brass plug and the implant was sealed with cement. For sampling purposes, a threaded fitting connected to Teflon-lined tubing were inserted

into the sampling port for connection to a Summa[®] canister. The sub-slab sampling probes in the on-site building (SS-1, SS-2, SS-3, SS-4 and SS-9) and the surrogate soil vapor probe outside the 216 Lakeville Road cottage (SS-8) were finished at the surface with 4-inch steel manhole covers. The sub-slab probes in the other three off-site properties (SS-5, SS-6 and SS-7) were finished with brass fittings and sealed to the surface with hydraulic cement.

2.3.1 *Tracer Gas Monitoring*

Walden performed tracer gas monitoring per the NYSDOH SVI guidance to verify the integrity of the sub-slab vapor probe seals prior to sample collection. Plastic sheeting was placed around the sampling probes and sealed around the edges to create an adequate surface seal to prevent outdoor air infiltration. Helium tracer gas was introduced under the plastic sheeting through a small opening to enrich the atmosphere in the immediate vicinity of the sampling probes with the tracer gas. A portable helium monitoring device, MGD-2002 Helium Leak Detector, was used to analyze a soil vapor sample for the helium tracer gas to confirm the integrity of the probe seals before vapor samples were collected in 6-liter Summa[®] canisters.

2.4 Sample Collection

Sub-slab vapor, indoor air and outdoor air samples were collected over a 24 hour period in laboratory provided and individually certified clean 6-liter Summa[®] canisters with regulators as described in the Work Plan. The Summa[®] canisters were placed adjacent to each sub-slab sampling port and at each indoor and outdoor air sampling location. Where sub-slab vapor samples were collected, tee fittings were used to connect the Summa[®] canister tubing to the sampling port tubing, with the third leg of the tee connected to a purge pump. In addition, the ground surface was sealed in advance to prevent ambient air infiltration during purging and collection of sub-slab vapor samples. The weather conditions were noted at the time of sampling (wind speed and direction, precipitation, outdoor temperature, barometric pressure, etc.).

At each sub-slab sampling location, a corresponding indoor air sample was also collected. The indoor air samples were collected at approximately the same sampling locations as the sub-slab sampling locations and at a height of approximately three (3) feet above the floor to represent breathing zones, per NYSDOH Guidance. Similarly, the upwind and downwind outdoor air samples were collected at a height of approximately three (3) to five (5) feet above the ground.

Prior to and immediately after sampling at each point, a pressure gauge was used to check each Summa[®] canister for vacuum, and the vacuum pressure was recorded. A regulator was used to keep flow rates during purging and sampling during the 24-hour sampling period below 0.2 liters per minute as specified by the NYSDOH SVI guidance.

After the sampling was completed, the Summa[®] canisters were labeled with the site name, the Walden job number, sample location and identification, date, time, sampler's initials, and the parameter(s) for analysis. The samples were transported to the laboratory in such a manner as to avoid container damage during transportation and to minimize the possibility of cross-contamination. The samples were delivered via courier under the appropriate Chain-of-Custody protocol.

2.5 Sample Analysis and Reporting

The Summa[®] canisters were submitted to Phoenix Environmental Laboratories, Inc. of Manchester, CT, a NYSDOH ELAP certified laboratory, for analysis. The soil vapor and air samples were analyzed for VOCs in accordance with USEPA Method TO-15 with the analytical detection limits set forth in the NYSDOH guidance document. All sample data packages submitted by the analytical laboratory were reported in conformance with the NYSDEC ASP Superfund-CLP, Category B deliverable requirements applicable to the method utilized.

3 EVALUATION OF SVI INVESTIGATION SAMPLING RESULTS

Walden reviewed the SVI results in accordance with the NYSDOH SVI Guidance. This guidance document lists the air guideline values (AGVs) that NYSDOH has established for methylene chloride, trichloroethylene (TCE) and PCE. (Although AGVs have also been developed for PCBs and dioxin, these compounds are not contaminants of concern at the Site and were not included in the laboratory analyses conducted for this project.) AGVs only apply to concentrations of these VOCs in indoor and outdoor air.

The State of New York does not have any standards, criteria or guidance values for concentrations of volatile chemicals in subsurface vapors, so the sub-slab vapor concentrations cannot be compared to any regulatory threshold values. However, the sub-slab vapor concentrations factor into the decision matrices contained in the NYSDOH SVI guidance. The SVI decision matrices consider the concentrations of PCE, TCE, carbon tetrachloride, 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride detected in indoor air samples and sub-slab vapor samples collected concurrently at the same location. The matrices recommend actions intended to address soil vapor intrusion exposures based on the relationship between the sub-slab vapor and corresponding indoor air concentrations at a given sampling location.

For analytes that do not have AGVs and are not considered in the NYSDOH SVI decision matrices, the NYSDOH SVI guidance Appendix C (*Volatile Organic Chemicals in Air – Summary of Background Databases*) was referenced for typical background concentrations of these compounds published in USEPA's 2001 Building Assessment and Survey Evaluation (BASE) database. When developing BASE, USEPA collected indoor and outdoor air samples at randomly selected office and commercial buildings using Summa[®] canisters.

The analytical data from the February 2016 SVI investigation are summarized in Table 1. Table 2 summarizes the SVI data decision matrix comparison and notes the actions recommended based on the decision matrices contained in the NYSDOH SVI guidance document. A copy of the laboratory analytical report is attached as Appendix C. A Data Usability Summary Report (DUSR), which was completed in accordance with DER-10, is provided in Appendix D.

3.1 Summary of Results

3.1.1 General Discussion of Results

Most of the VOCs detected in the sub-slab samples, soil vapor samples, indoor air samples, and outdoor air samples are not considered by the NYSDOH decision matrices and do not have NYSDOH AGVs. These compounds have a number of commercial uses

in consumer products, building materials, or furnishings. The majority of the detected concentrations of these compounds fall within or near the range of background concentrations listed in the USEPA BASE database as noted in Table 1. These analytes were also detected at various concentrations in both the outdoor upwind (AA-1) and downwind (AA-2 and duplicate AA-3) air samples. Because there are no health based standards or decision criteria for these VOCs, they are not evaluated further in this report.

3.1.2 NYSDOH Decision Matrix Evaluation

The results discussed below are limited to the compounds included in the NYSDOH SVI decision matrices. Refer to Table 2 for the NYSDOH decision matrix comparison.

Carbon Tetrachloride

- No AGV established for this compound
- Carbon tetrachloride was detected at low concentrations (less than $0.60 \mu\text{g}/\text{m}^3$) in each of the indoor air samples and one of the vapor samples (the surrogate sub-slab sample, SS-8 at 216 Lakeville Road). This compound was also detected at similar concentrations in the upwind and downwind ambient air samples, so the carbon tetrachloride reported for the indoor air samples can be considered representative of background conditions.
- All reported concentrations of this compound were the low end of the typical ranges listed in the BASE database for indoor and outdoor air.
- Based on the carbon tetrachloride concentrations reported for the sub-slab vapor and indoor air samples collected at all locations, NYSDOH Decision Matrix 1 recommends *“Take reasonable and practical actions to identify source and reduce exposures.”*

1,1,1-Trichloroethane

- No AGV established for this compound
- 1,1,1-TCA was only detected in the surrogate soil vapor sample (SS-8) collected outside the cottage at 216 Lakeville Road.
- None of the other sub-slab vapor, indoor air or outdoor air samples contained detectable concentrations of 1,1,1-TCA.
- Based on the 1,1,1-TCA concentrations reported for sub-slab vapor and indoor air samples collected at all locations, NYSDOH Decision Matrix 2 recommends *“No further action.”*

Trichloroethene

- None of the indoor air samples contained TCE concentrations above the 2 µg/m³ AGV for this compound. Note that NYSDOH lowered the AGV for TCE in August 2015 from 5 µg/m³ to 2 µg/m³ and developed a recommended immediate action level of 20 µg/m³ for this compound.
- TCE was not detected in the outdoor ambient air samples.
- Based on the TCE concentrations reported for sub-slab vapor and indoor air samples, NYSDOH Decision Matrix 1 recommends the following:
 - At 216 Lakeville Road and 220 Lakeville Road: *"No further action"*
 - At 2 University Place and the former dry cleaners space at 218 Lakeville Road: *"Monitor"*
 - At the 218 Lakeville Road tobacco shop: *"Monitor/Mitigate"*
 - At 4 University Place and the former deli at 218 Lakeville Road: *"Mitigate"*

Tetrachloroethene

- Note that NYSDOH lowered the AGV for PCE in September 2013 from 100 µg/m³ to 30 µg/m³. The recommended immediate action level for PCE was also lowered from 1,000 µg/m³ to 300 µg/m³ at this time.
- None of the indoor air samples contained PCE concentrations above the 300 µg/m³ recommended immediate action level for this compound. The PCE concentration reported for the indoor air sample collected at 4 University Place (IA-6) was slightly above the AGV for this compound (36 µg/m³ PCE detected in IA-6 vs. 30 µg/m³ AGV).
- Minimal concentrations of PCE (less than 0.5 µg/m³) were detected in the outdoor ambient air samples.
- Based on the PCE concentrations reported for sub-slab vapor and indoor air samples, NYSDOH Decision Matrix 2 recommends the following:
 - At 216 Lakeville Road: *"No further action"*
 - At 220 Lakeville Road: *"Monitor"*
 - At 2 University Place, 4 University Place and all sampling locations at 218 Lakeville Road: *"Mitigate"*

1,1-Dichloroethene

- No AGV established for this compound
- 1,1-DCE was not detected in any of the sub-slab vapor, indoor air or outdoor air samples, therefore NYSDOH Decision Matrix 2 recommends *"No further action"* with respect to this compound.

Cis-1,2-Dichloroethene

- No AGV established for this compound
- Cis-1,2-DCE was not detected in any of the indoor air or outdoor air samples.
- This compound was detected in sub-slab vapor samples collected at 218 Lakeville Road and 4 University Place.
- Based on the cis-1,2-DCE concentrations reported for sub-slab vapor and indoor air samples collected at all locations, NYSDOH Decision Matrix 2 recommends the following:
 - At 2 University Place, 216 Lakeville Road, 220 Lakeville Road and the former dry cleaners space and tobacco shop at 218 Lakeville Road: *“No further action”*
 - At 4 University Place and the former deli at 218 Lakeville Road: *“Monitor”*

Vinyl Chloride

- No AGV established for this compound
- Vinyl chloride was not detected in any of the sub-slab vapor, indoor air or outdoor air samples, therefore NYSDOH Decision Matrix 1 recommends *“No further action”* with respect to this compound.

3.2 Data Usability Summary Report (DUSR)

A Data Usability Summary Report (DUSR) completed in accordance with DER-10 is provided in Appendix D.

4 CONCLUSIONS & RECOMMENDATIONS

4.1 Conclusions

The SVI sampling results show that the indoor air within the basement of 218 Lakeville Road and the lowest levels of the neighboring off-site properties located at 216 Lakeville Road, 220 Lakeville Road, and 2 University Place meets the AGVs established by NYSDOH as described in Section 3. The PCE concentration detected in the indoor air sample (IA-6) at 4 University Place exceeded the lower AGV established in September 2013 (36 µg/m³ PCE detected in IA-6 vs. 30 µg/m³ AGV).

The sub-slab sampling results revealed that vapors (mainly PCE and breakdown products TCE and cis-1,2-DCE) attributable to the historic release of VOCs at the Former Imperial Cleaners Site remain in the subsurface. While the SVE remedial system at 218 Lakeville Road removed VOCs and reduced concentrations to levels acceptable to NYSDEC and NYSDOH, the current SVI sampling results show that VOC concentrations have rebounded since the SVE system was shut down. This rebound is likely due to the low permeability clay layer and perched water table located approximately 30 feet below grade in this area, creating subsurface conditions which have trapped VOC vapors in the tight pore spaces and possibly on top of the perched water.

Based on a comparison of the target compound concentrations reported for the sub-slab and indoor air samples to the concentration ranges compared in the NYSDOH decision matrices, mitigation is recommended for 218 Lakeville Road, 2 University Place and 4 University Place to address potential soil vapor intrusion impacts and prevent exposure to VOCs in indoor air. The decision matrix comparison indicates that monitoring is recommended to ensure that residual VOCs do not impact indoor air at 220 Lakeville Road; no action is recommended at 216 Lakeville Road.

4.2 Recommendations

The following actions are recommended based on the SVI investigation results:

- Install sub-slab depressurization (SSD) systems at 218 Lakeville Road, 2 University Place and 4 University Place to prevent VOC vapor migration into the buildings.
 - The SSD system design will specify fans and piping required to draw vapors from beneath the building slabs at each property to create an adequate vacuum to control the sub-slab VOC vapors and prevent vapors from entering the buildings to avoid indoor air quality impacts.

- SSD systems will be designed and installed to minimize construction/operating impacts on off-site properties to the extent possible.
- The design and installation; post-mitigation, or confirmation testing; operation, maintenance, and monitoring; and termination of mitigation system operations will be done in accordance with the October 2006, Final NYSDOH CEH BEEI, Soil Vapor Intrusion Guidance, as amended.
- Monitoring is recommended for 220 Lakeville Road in each subsequent heating season in accordance with the October 2006, Final NYSDOH CEH BEEI, Soil Vapor Intrusion Guidance, as amended.

Design plans/specifications and an operation/monitoring plan for the SSD systems will be developed and submitted to NYSDEC and NYSDOH under separate cover for review and approval if the State concurs with this recommendation.

TABLES

FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY

VCP SITE #V-00244-1

TABLE 1
SUMMARY OF SVI INVESTIGATION SAMPLING RESULTS

					218 Lakeville Road (Former Dry Cleaners Space)				218 Lakeville Road (Tobacco Shop)						
Analyte	CAS #	NYSDOH Air Guideline Value (µg/m3)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m3)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m3)	Indoor Air Concentration (µg/m3)				Sub-slab Vapor Concentration (µg/m3)		Indoor Air Concentration (µg/m3)		Sub-slab Vapor Concentration (µg/m3)		
					IA-1	Q	IA-9 (Duplicate)		Q	SS-1	Q	IA-2	Q	SS-2	Q
1,1,1,2-Tetrachloroethane	630-20-6				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
1,1,2,2-Tetrachloroethane	79-34-5				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
1,1-Dichloroethane	75-34-3		<0.7	<0.6	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
1,1-Dichloroethene	75-35-4		<1.4	<1.4	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	< 1.00	U	< 1.00		U	13.1		< 1.00	U	17.7	
1,2-Dibromoethane(EDB)	106-93-4		<1.5	<1.6	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	< 1.00	U	< 1.00		U	< 9.97	U	< 1.00	U	< 9.97	U
1,2-Dichloroethane	107-06-2		<0.9	<0.8	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
1,2-Dichloropropane	78-87-5		<1.6	<1.6	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
1,2-Dichlorotetrafluoroethane	76-14-2				< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
1,3-Butadiene	106-99-0		<3.0	<3.4	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	< 1.00	U	< 1.00		U	< 9.97	U	< 1.00	U	< 9.97	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	< 1.00	U	< 1.00		U	< 9.97	U	< 1.00	U	< 9.97	U
1,4-Dioxane	123-91-1				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
2-Hexanone(MBK)	591-78-6				< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
4-Ethyltoluene	622-96-8		3.6	3	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
4-Isopropyltoluene	99-87-6				< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
4-Methyl-2-pentanone(MIBK)	108-10-1		6	1.9	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
Acetone	67-64-1		98.9	43.7	6.65	S	5.6		S	70.3	S	7.24	S	24.9	S
Acrylonitrile	107-13-1				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Benzene	71-43-2		9.4	6.6	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
Benzyl chloride	100-44-7		<6.8	<6.4	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
Bromodichloromethane	75-27-4				< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
Bromoform	75-25-2				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Bromomethane	74-83-9		<1.7	<1.6	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Carbon Disulfide	75-15-0		4.2	3.7	< 1.00	U	< 1.00		U	12.6		< 1.00	U	< 9.99	U
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.5		0.58			< 2.50	U	0.5		< 2.50	U
Chlorobenzene	108-90-7		<0.9	<0.8	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
Chloroethane	75-00-3		<1.1	<1.2	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Chloroform	67-66-3		1.1	0.6	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	46.3	
Chloromethane	74-87-3		3.7	3.7	1.21		1.43			< 10.0	U	1.41		< 10.0	U
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	< 1.00	U	< 1.00		U	396		< 1.00	U	244	
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
Cyclohexane	110-82-7				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Dibromochloromethane	124-48-1				< 1.00	U	< 1.00		U	< 9.96	U	< 1.00	U	< 9.96	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.36		2.62			< 9.98	U	2.59		< 9.98	U
Ethanol	64-17-5		210	57	69.1		81.5		E	21.5	S	25.4		< 10.0	U
Ethyl acetate	141-78-6		5.4	1.5	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Ethylbenzene	100-41-4		5.7	3.5	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
Heptane	142-82-5				< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
Hexachlorobutadiene	87-68-3		<6.8	<6.4	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Hexane	110-54-3				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Isopropylalcohol	67-63-0				1.22	S	1.41		S	< 10.0	U	1.96	S	< 10.0	U
Isopropylbenzene	98-82-8				< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
m,p-Xylene	179601-23-1		22.2	12.8	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	14.7	
Methyl Ethyl Ketone	78-93-3		12	11.3	< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
Methyl tert-butyl ether(MTBE)	1634-04-4		11.5	6.2	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Methylene Chloride	75-09-2	60	10	6.1	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
n-Butylbenzene	104-51-8				< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
o-Xylene	95-47-6		7.9	4.6	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
Propylene	115-07-1				1.01		< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
sec-Butylbenzene	135-98-8				< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	14.9	
Styrene	100-42-5		1.9	1.3	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Tetrachloroethene	127-18-4	30	15.9	6.5	5.65		5.98			5,090		4.64		18,600	
Tetrahydrofuran	109-99-9				< 1.00	U	< 1.00		U	< 9.99	U	< 1.00	U	< 9.99	U
Toluene	108-88-3		43	33.7	1.05		1.07			< 10.0	U	1.12		12	
Trans-1,2-Dichloroethene	156-60-5				< 1.00	U	< 1.00		U	15.6		< 1.00	U	13.8	
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	< 1.00	U	< 1.00		U	< 9.98	U	< 1.00	U	< 9.98	U
Trichloroethene	79-01-6	2	4.2	1.3	< 0.25	U	< 0.25		U	168		0.28		191	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.33		1.35			< 9.99	U	1.29		< 9.99	U
Trichlorotrifluoroethane	76-13-1		3.5	1.6	< 1.00	U	< 1.00		U	< 10.0	U	< 1.00	U	< 10.0	U
Vinyl Chloride	75-01-4		<1.9	<1.8	< 0.25	U	< 0.25		U	< 2.50	U	< 0.25	U	< 2.50	U

Highlighted analytes are included in the NYSDOH Decision Matrices

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

E - The reported value is estimated because the concentration exceeded the calibration range.

**FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY**

VCP SITE #V-00244-1

**TABLE 1
SUMMARY OF SVI INVESTIGATION SAMPLING RESULTS**

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m3)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m3)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m3)	218 Lakeville Road (Deli South)				218 Lakeville Road (Deli North)					
					Indoor Air Concentration (µg/m3)		Sub-slab Vapor Concentration (µg/m3)		Indoor Air Concentration (µg/m3)		Sub-slab Vapor Concentration (µg/m3)			
					IA-3	Q	SS-3	Q	IA-4	Q	SS-4	Q	SS-9 (Duplicate)	Q
1,1,1,2-Tetrachloroethane	630-20-6				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
1,1,2,2-Tetrachloroethane	79-34-5				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
1,1-Dichloroethane	75-34-3		<0.7	<0.6	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
1,1-Dichloroethene	75-35-4		<1.4	<1.4	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	< 1.00	U	< 10.0	U	< 1.00	U	21.1		19.2	
1,2-Dibromoethane(EDB)	106-93-4		<1.5	<1.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	< 1.00	U	< 9.97	U	< 1.00	U	< 9.97	U	< 9.97	U
1,2-Dichloroethane	107-06-2		<0.9	<0.8	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
1,2-Dichloropropane	78-87-5		<1.6	<1.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
1,2-Dichlorotetrafluoroethane	76-14-2				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
1,3-Butadiene	106-99-0		<3.0	<3.4	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	< 1.00	U	< 9.97	U	< 1.00	U	< 9.97	U	< 9.97	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	< 1.00	U	< 9.97	U	< 1.00	U	< 9.97	U	< 9.97	U
1,4-Dioxane	123-91-1				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
2-Hexanone(MBK)	591-78-6				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
4-Ethyltoluene	622-96-8		3.6	3	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
4-Isopropyltoluene	99-87-6				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
4-Methyl-2-pentanone(MIBK)	108-10-1		6	1.9	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Acetone	67-64-1		98.9	43.7	4.06	S	26.1	S	4.75	S	39.4	S	38	S
Acrylonitrile	107-13-1				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Benzene	71-43-2		9.4	6.6	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Benzyl chloride	100-44-7		<6.8	<6.4	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Bromodichloromethane	75-27-4				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
Bromoform	75-25-2				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Bromomethane	74-83-9		<1.7	<1.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Carbon Disulfide	75-15-0		4.2	3.7	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.51		< 2.50	U	0.49		< 2.50	U	< 2.50	U
Chlorobenzene	108-90-7		<0.9	<0.8	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
Chloroethane	75-00-3		<1.1	<1.2	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Chloroform	67-66-3		1.1	0.6	< 1.00	U	< 10.0	U	< 1.00	U	11.8		12.3	
Chloromethane	74-87-3		3.7	3.7	1.51		< 10.0	U	1.28		< 10.0	U	< 10.0	U
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	< 1.00	U	282		< 1.00	U	630		654	
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
Cyclohexane	110-82-7				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Dibromochloromethane	124-48-1				< 1.00	U	< 9.96	U	< 1.00	U	< 9.96	U	< 9.96	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.68		14.8		2.47		< 9.98	U	< 9.98	U
Ethanol	64-17-5		210	57	9.23	S	< 10.0	U	5.44	S	< 10.0	U	11.8	S
Ethyl acetate	141-78-6		5.4	1.5	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Ethylbenzene	100-41-4		5.7	3.5	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
Heptane	142-82-5				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Hexachlorobutadiene	87-68-3		<6.8	<6.4	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Hexane	110-54-3				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Isopropylalcohol	67-63-0				1.8	S	< 10.0	U	1.27	S	< 10.0	U	< 10.0	U
Isopropylbenzene	98-82-8				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
m,p-Xylene	179601-23-1		22.2	12.8	< 1.00	U	< 9.98	U	< 1.00	U	15.6		16	
Methyl Ethyl Ketone	78-93-3		12	11.3	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Methyl tert-butyl ether(MTBE)	1634-04-4		11.5	6.2	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Methylene Chloride	75-09-2	60	10	6.1	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
n-Butylbenzene	104-51-8				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
o-Xylene	95-47-6		7.9	4.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
Propylene	115-07-1				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
sec-Butylbenzene	135-98-8				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	16.1	
Styrene	100-42-5		1.9	1.3	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Tetrachloroethene	127-18-4	30	15.9	6.5	1.92		2,760		1.58		3,630		3,550	
Tetrahydrofuran	109-99-9				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U	< 9.99	U
Toluene	108-88-3		43	33.7	< 1.00	U	< 10.0	U	< 1.00	U	13.3		14.5	
Trans-1,2-Dichloroethene	156-60-5				< 1.00	U	24.8		< 1.00	U	34.9		36.2	
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U	< 9.98	U
Trichloroethene	79-01-6	2	4.2	1.3	0.27		459		< 0.25	U	564		607	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.39		< 9.99	U	1.25		< 9.99	U	< 9.99	U
Trichlorotrifluoroethane	76-13-1		3.5	1.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U	< 10.0	U
Vinyl Chloride	75-01-4		<1.9	<1.8	< 0.25	U	< 2.50	U	< 0.25	U	< 2.50	U	< 2.50	U

Highlighted analytes are included in the NYSDOH Decision Matrices

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

E - The reported value is estimated because the concentration exceeded the calibration range.

**FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY**

VCP SITE #V-00244-1

**TABLE 1
SUMMARY OF SVI INVESTIGATION SAMPLING RESULTS**

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m3)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m3)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m3)	2 University Place				4 University Place			
					Indoor Air Concentration (µg/m3)		Sub-slab Vapor Concentration (µg/m3)		Indoor Air Concentration (µg/m3)		Sub-slab Vapor Concentration (µg/m3)	
					IA-5	Q	SS-5	Q	IA-6	Q	SS-6	Q
1,1,1,2-Tetrachloroethane	630-20-6				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
1,1,2,2-Tetrachloroethane	79-34-5				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
1,1-Dichloroethane	75-34-3		<0.7	<0.6	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
1,1-Dichloroethene	75-35-4		<1.4	<1.4	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	< 1.00	U	76.6		< 1.00	U	53.6	
1,2-Dibromoethane(EDB)	106-93-4		<1.5	<1.6	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	< 1.00	U	< 9.97	U	< 1.00	U	< 9.97	U
1,2-Dichloroethane	107-06-2		<0.9	<0.8	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
1,2-Dichloropropane	78-87-5		<1.6	<1.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
1,2-Dichlorotetrafluoroethane	76-14-2				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	< 1.00	U	22.7		< 1.00	U	13.8	
1,3-Butadiene	106-99-0		<3.0	<3.4	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	< 1.00	U	< 9.97	U	< 1.00	U	< 9.97	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	< 1.00	U	< 9.97	U	< 1.00	U	< 9.97	U
1,4-Dioxane	123-91-1				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
2-Hexanone(MBK)	591-78-6				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
4-Ethyltoluene	622-96-8		3.6	3	< 1.00	U	12.7		< 1.00	U	< 10.0	U
4-Isopropyltoluene	99-87-6				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
4-Methyl-2-pentanone(MIBK)	108-10-1		6	1.9	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
Acetone	67-64-1		98.9	43.7	14.9		82.6	S	48.2		37.3	S
Acrylonitrile	107-13-1				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Benzene	71-43-2		9.4	6.6	1.56		< 9.99	U	< 1.00	U	< 9.99	U
Benzyl chloride	100-44-7		<6.8	<6.4	< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
Bromodichloromethane	75-27-4				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
Bromoform	75-25-2				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Bromomethane	74-83-9		<1.7	<1.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Carbon Disulfide	75-15-0		4.2	3.7	< 1.00	U	13.9		< 1.00	U	< 9.99	U
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.57		< 2.50	U	0.55		< 2.50	U
Chlorobenzene	108-90-7		<0.9	<0.8	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
Chloroethane	75-00-3		<1.1	<1.2	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Chloroform	67-66-3		1.1	0.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Chloromethane	74-87-3		3.7	3.7	2.17		< 10.0	U	1.5		< 10.0	U
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	< 1.00	U	< 9.99	U	< 1.00	U	134	
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
Cyclohexane	110-82-7				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Dibromochloromethane	124-48-1				< 1.00	U	< 9.96	U	< 1.00	U	< 9.96	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.71		< 9.98	U	2.61		< 9.98	U
Ethanol	64-17-5		210	57	23.2		23.5	S	57.6		13.6	S
Ethyl acetate	141-78-6		5.4	1.5	1.06		< 10.0	U	< 1.00	U	< 10.0	U
Ethylbenzene	100-41-4		5.7	3.5	1.05		14.5		< 1.00	U	< 9.98	U
Heptane	142-82-5				1.45		13		< 1.00	U	< 9.99	U
Hexachlorobutadiene	87-68-3		<6.8	<6.4	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Hexane	110-54-3				2.03	S	11.1	S	< 1.00	U	< 10.0	U
Isopropylalcohol	67-63-0				1.64	S	< 10.0	U	6.19	S	< 10.0	U
Isopropylbenzene	98-82-8				< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
m,p-Xylene	179601-23-1		22.2	12.8	4.13		57.7		2.2		35.7	
Methyl Ethyl Ketone	78-93-3		12	11.3	1.81		< 9.99	U	1.29		< 9.99	U
Methyl tert-butyl ether(MTBE)	1634-04-4		11.5	6.2	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Methylene Chloride	75-09-2	60	10	6.1	2.35	S	< 10.0	U	< 1.00	U	< 10.0	U
n-Butylbenzene	104-51-8				< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
o-Xylene	95-47-6		7.9	4.6	1.29		28.3		< 1.00	U	17.3	
Propylene	115-07-1				< 1.00	U	28.6		< 1.00	U	< 9.99	U
sec-Butylbenzene	135-98-8				< 1.00	U	64.7		< 1.00	U	44.9	
Styrene	100-42-5		1.9	1.3	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Tetrachloroethene	127-18-4	30	15.9	6.5	1.82		3,590		36.2		20,100	
Tetrahydrofuran	109-99-9				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
Toluene	108-88-3		43	33.7	9.83		31.4		3.17		20.4	
Trans-1,2-Dichloroethene	156-60-5				< 1.00	U	< 9.99	U	< 1.00	U	< 9.99	U
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	< 1.00	U	< 9.98	U	< 1.00	U	< 9.98	U
Trichloroethene	79-01-6	2	4.2	1.3	1.01		47		0.6		655	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.35		< 9.99	U	1.33		< 9.99	U
Trichlorotrifluoroethane	76-13-1		3.5	1.6	< 1.00	U	< 10.0	U	< 1.00	U	< 10.0	U
Vinyl Chloride	75-01-4		<1.9	<1.8	< 0.25	U	< 2.50	U	< 0.25	U	< 2.50	U

Highlighted analytes are included in the NYSDOH Decision Matrices

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

E - The reported value is estimated because the concentration exceeded the calibration range.

**FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY**

VCP SITE #V-00244-1

**TABLE 1
SUMMARY OF SVI INVESTIGATION SAMPLING RESULTS**

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m3)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m3)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m3)	220 Lakeville Road				216 Lakeville Road (Cottage)			
					Indoor Air Concentration (µg/m3)		Sub-slab Vapor Concentration (µg/m3)		Indoor Air Concentration (µg/m3)		Soil Vapor Concentration (µg/m3)	
					IA-7	Q	SS-7	Q	IA-8	Q	SS-8	Q
1,1,1,2-Tetrachloroethane	630-20-6				<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	<1.00	U	<1.00	U	<1.00	U	8.34	
1,1,2,2-Tetrachloroethane	79-34-5				<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,1-Dichloroethane	75-34-3		<0.7	<0.6	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,1-Dichloroethene	75-35-4		<1.4	<1.4	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	<1.00	U	20.6		<1.00	U	14.1	
1,2-Dibromoethane(EDB)	106-93-4		<1.5	<1.6	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,2-Dichloroethane	107-06-2		<0.9	<0.8	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,2-Dichloropropane	78-87-5		<1.6	<1.6	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,2-Dichlorotetrafluoroethane	76-14-2				<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	<1.00	U	5.4		<1.00	U	4.05	
1,3-Butadiene	106-99-0		<3.0	<3.4	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	<1.00	U	<1.00	U	<1.00	U	<1.00	U
1,4-Dioxane	123-91-1				<1.00	U	<1.00	U	<1.00	U	<1.00	U
2-Hexanone(MBK)	591-78-6				<1.00	U	<1.00	U	<1.00	U	<1.00	U
4-Ethyltoluene	622-96-8		3.6	3	<1.00	U	3.23		<1.00	U	2.37	
4-Isopropyltoluene	99-87-6				<1.00	U	1.65		<1.00	U	1.01	
4-Methyl-2-pentanone(MIBK)	108-10-1		6	1.9	<1.00	U	<1.00	U	<1.00	U	1.05	
Acetone	67-64-1		98.9	43.7	6.62	S	143		69.6		98.8	
Acrylonitrile	107-13-1				<1.00	U	<1.00	U	<1.00	U	<1.00	U
Benzene	71-43-2		9.4	6.6	<1.00	U	1.1		<1.00	U	4.95	
Benzyl chloride	100-44-7		<6.8	<6.4	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Bromodichloromethane	75-27-4				<1.00	U	<1.00	U	<1.00	U	<1.00	U
Bromoform	75-25-2				<1.00	U	<1.00	U	<1.00	U	<1.00	U
Bromomethane	74-83-9		<1.7	<1.6	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Carbon Disulfide	75-15-0		4.2	3.7	<1.00	U	29.6		<1.00	U	5.1	
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.58		<0.25	U	0.46		0.46	
Chlorobenzene	108-90-7		<0.9	<0.8	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Chloroethane	75-00-3		<1.1	<1.2	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Chloroform	67-66-3		1.1	0.6	<1.00	U	4.62		<1.00	U	<1.00	U
Chloromethane	74-87-3		3.7	3.7	1.19		<1.00	U	1.22		1.57	
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	<1.00	U	3.8		<1.00	U	<1.00	U
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Cyclohexane	110-82-7				<1.00	U	1.42		<1.00	U	<1.00	U
Dibromochloromethane	124-48-1				<1.00	U	<1.00	U	<1.00	U	<1.00	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.81		2.96		2.49		2.92	
Ethanol	64-17-5		210	57	6.76	S	14.9		130	E	29.2	
Ethyl acetate	141-78-6		5.4	1.5	<1.00	U	<1.00	U	1.47		<1.00	U
Ethylbenzene	100-41-4		5.7	3.5	<1.00	U	3.54		<1.00	U	3.94	
Heptane	142-82-5				<1.00	U	3.43		<1.00	U	6.59	
Hexachlorobutadiene	87-68-3		<6.8	<6.4	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Hexane	110-54-3				<1.00	U	7.12	S	<1.00	U	9.09	S
Isopropylalcohol	67-63-0				1.15	S	1.8	S	35.4		2.85	S
Isopropylbenzene	98-82-8				<1.00	U	<1.00	U	<1.00	U	<1.00	U
m,p-Xylene	179601-23-1		22.2	12.8	<1.00	U	14.3		<1.00	U	14.1	
Methyl Ethyl Ketone	78-93-3		12	11.3	<1.00	U	6.69		<1.00	U	9.84	
Methyl tert-butyl ether(MTBE)	1634-04-4		11.5	6.2	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Methylene Chloride	75-09-2	60	10	6.1	<1.00	U	<1.00	U	<1.00	U	<1.00	U
n-Butylbenzene	104-51-8				<1.00	U	<1.00	U	<1.00	U	<1.00	U
o-Xylene	95-47-6		7.9	4.6	<1.00	U	6.94		<1.00	U	6.77	
Propylene	115-07-1				<1.00	U	<1.00	U	<1.00	U	22.2	
sec-Butylbenzene	135-98-8				<1.00	U	<1.00	U	<1.00	U	11.8	
Styrene	100-42-5		1.9	1.3	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Tetrachloroethene	127-18-4	30	15.9	6.5	0.67		854		0.79		3.2	
Tetrahydrofuran	109-99-9				<1.00	U	<1.00	U	<1.00	U	<1.00	U
Toluene	108-88-3		43	33.7	1.71		9.45		2.05		14.6	
Trans-1,2-Dichloroethene	156-60-5				<1.00	U	<1.00	U	<1.00	U	<1.00	U
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Trichloroethene	79-01-6	2	4.2	1.3	<0.25	U	14.1		<0.25	U	0.39	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.47		1.52		1.33		1.77	
Trichlorotrifluoroethane	76-13-1		3.5	1.6	<1.00	U	<1.00	U	<1.00	U	<1.00	U
Vinyl Chloride	75-01-4		<1.9	<1.8	<0.25	U	<0.25	U	<0.25	U	<0.25	U

Highlighted analytes are included in the NYSDOH Decision Matrices

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

E - The reported value is estimated because the concentration exceeded the calibration range.

FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY

VCP SITE #V-00244-1

TABLE 1
SUMMARY OF SVI INVESTIGATION SAMPLING RESULTS

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m3)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m3)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m3)	Outdoor Ambient Air Samples					
					Upwind Concentration (µg/m3)		Downwind Concentration (µg/m3)			
					AA-1	Q	AA-2	Q	AA-3 (Duplicate)	Q
1,1,1,2-Tetrachloroethane	630-20-6				< 1.00	U	< 1.00	U	< 1.00	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	< 1.00	U	< 1.00	U	< 1.00	U
1,1,2,2-Tetrachloroethane	79-34-5				< 1.00	U	< 1.00	U	< 1.00	U
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	< 1.00	U	< 1.00	U	< 1.00	U
1,1-Dichloroethane	75-34-3		<0.7	<0.6	< 1.00	U	< 1.00	U	< 1.00	U
1,1-Dichloroethene	75-35-4		<1.4	<1.4	< 1.00	U	< 1.00	U	< 1.00	U
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	< 1.00	U	< 1.00	U	< 1.00	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	11.3		12.6		14.3	
1,2-Dibromoethane(EDB)	106-93-4		<1.5	<1.6	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichloroethane	107-06-2		<0.9	<0.8	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichloropropane	78-87-5		<1.6	<1.6	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichlorotetrafluoroethane	76-14-2				< 1.00	U	< 1.00	U	< 1.00	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	4.31		4.32		4.2	
1,3-Butadiene	106-99-0		<3.0	<3.4	< 1.00	U	< 1.00	U	< 1.00	U
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	< 1.00	U	< 1.00	U	< 1.00	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	< 1.00	U	< 1.00	U	< 1.00	U
1,4-Dioxane	123-91-1				< 1.00	U	< 1.00	U	< 1.00	U
2-Hexanone(MBK)	591-78-6				< 1.00	U	< 1.00	U	< 1.00	U
4-Ethyltoluene	622-96-8		3.6	3	2.11		2.84		2.6	
4-Isopropyltoluene	99-87-6				1.03		1.08		1.31	
4-Methyl-2-pentanone(MIBK)	108-10-1		6	1.9	< 1.00	U	< 1.00	U	< 1.00	U
Acetone	67-64-1		98.9	43.7	18.8		28		22.1	
Acrylonitrile	107-13-1				< 1.00	U	< 1.00	U	< 1.00	U
Benzene	71-43-2		9.4	6.6	4.12		3.19		2.96	
Benzyl chloride	100-44-7		<6.8	<6.4	< 1.00	U	< 1.00	U	< 1.00	U
Bromodichloromethane	75-27-4				< 1.00	U	< 1.00	U	< 1.00	U
Bromoform	75-25-2				< 1.00	U	< 1.00	U	< 1.00	U
Bromomethane	74-83-9		<1.7	<1.6	< 1.00	U	< 1.00	U	< 1.00	U
Carbon Disulfide	75-15-0		4.2	3.7	< 1.00	U	< 1.00	U	< 1.00	U
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.38		0.41		0.43	
Chlorobenzene	108-90-7		<0.9	<0.8	< 1.00	U	< 1.00	U	< 1.00	U
Chloroethane	75-00-3		<1.1	<1.2	< 1.00	U	< 1.00	U	< 1.00	U
Chloroform	67-66-3		1.1	0.6	< 1.00	U	< 1.00	U	< 1.00	U
Chloromethane	74-87-3		3.7	3.7	1.53		1.63		< 1.00	U
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	< 1.00	U	< 1.00	U	< 1.00	U
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	< 1.00	U	< 1.00	U	< 1.00	U
Cyclohexane	110-82-7				6.47		4.54		3.96	
Dibromochloromethane	124-48-1				< 1.00	U	< 1.00	U	< 1.00	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.51		2.45		2.47	
Ethanol	64-17-5		210	57	17.5		13.6		13.8	
Ethyl acetate	141-78-6		5.4	1.5	< 1.00	U	< 1.00	U	< 1.00	U
Ethylbenzene	100-41-4		5.7	3.5	4.73		4.6		4.69	
Heptane	142-82-5				8.27		6.47		5.73	
Hexachlorobutadiene	87-68-3		<6.8	<6.4	< 1.00	U	< 1.00	U	< 1.00	U
Hexane	110-54-3				10.8		7.82	S	6.76	S
Isopropylalcohol	67-63-0				1.67	S	2.44	S	1.28	S
Isopropylbenzene	98-82-8				1.07		1.11		< 1.00	U
m,p-Xylene	179601-23-1		22.2	12.8	15.9		15.3		15.4	
Methyl Ethyl Ketone	78-93-3		12	11.3	1.71		1.09		1.06	
Methyl tert-butyl ether(MTBE)	1634-04-4		11.5	6.2	< 1.00	U	< 1.00	U	< 1.00	U
Methylene Chloride	75-09-2	60	10	6.1	< 1.00	U	< 1.00	U	< 1.00	U
n-Butylbenzene	104-51-8				< 1.00	U	< 1.00	U	< 1.00	U
o-Xylene	95-47-6		7.9	4.6	7.59		7.38		7.33	
Propylene	115-07-1				< 1.00	U	< 1.00	U	< 1.00	U
sec-Butylbenzene	135-98-8				9.49		< 1.00	U	12.1	
Styrene	100-42-5		1.9	1.3	< 1.00	U	< 1.00	U	< 1.00	U
Tetrachloroethene	127-18-4	30	15.9	6.5	0.33		0.47		0.39	
Tetrahydrofuran	109-99-9				< 1.00	U	< 1.00	U	< 1.00	U
Toluene	108-88-3		43	33.7	21.9		18.8		18.3	
Trans-1,2-Dichloroethene	156-60-5				< 1.00	U	< 1.00	U	< 1.00	U
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	< 1.00	U	< 1.00	U	< 1.00	U
Trichloroethene	79-01-6	2	4.2	1.3	< 0.25	U	< 0.25	U	< 0.25	U
Trichlorofluoromethane	75-69-4		18.1	4.3	2.76		2.3		2.17	
Trichlorotrifluoroethane	76-13-1		3.5	1.6	< 1.00	U	< 1.00	U	< 1.00	U
Vinyl Chloride	75-01-4		<1.9	<1.8	< 0.25	U	< 0.25	U	< 0.25	U

Highlighted analytes are included in the NYSDOH Decision Matrices

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

E - The reported value is estimated because the concentration exceeded the calibration range.

FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY
VCP SITE #V-00244-1

TABLE 2
SVI INVESTIGATION SAMPLING RESULTS NYSDOH DECISION MATRIX COMPARISON

Location	NYSDEC DECISION MATRIX 1			NYSDEC DECISION MATRIX 2			
	Carbon Tetrachloride µg/m ³	Trichloroethene µg/m ³	Vinyl Chloride µg/m ³	1,1-Dichloroethene µg/m ³	cis-1,2-Dichloroethene µg/m ³	1,1,1-Trichloroethane µg/m ³	Tetrachloroethene µg/m ³
218 Lakeville Road							
Former Cleaners							
IA-1/Duplicate IA-9 Result	0.5/0.58	<0.25/<0.25	<0.25/<0.25	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	5.65/5.98
Matrix Range Indoor Air	0.25 to <1	<0.25	<0.25	<3	<3	<3	<3
SS-1 Result	<2.50	168	<2.50	<9.99	396	<9.98	5090
Matrix Range Sub-Slab Vapor	<5	50 to <250	<5	<100	100 to <1000	<100	1,000 and above
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>Monitor</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>
Tobacco Shop							
IA-2 Result	0.5	0.28	<0.25	<1.0	<1.0	<1.0	4.64
Matrix Range Indoor Air	0.25 to <1	0.25 to <1	<0.25	<3	<3	<3	3 to <30
SS-2 Result	<2.50	191	<2.50	<9.99	244	<9.98	18600
Matrix Range Sub-Slab Vapor	<5	50 to <250	<5	<100	100 to <1000	<100	1,000 and above
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>Monitor/Mitigate</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>
Deli South							
IA-3 Result	0.51	0.27	<0.25	<1.0	<1.0	<1.0	1.92
Matrix Range Indoor Air	0.25 to <1	0.25 to <1	<0.25	<3	<3	<3	<3
SS-3 Result	<2.50	459	<2.50	<9.99	282	<9.98	2760
Matrix Range Sub-Slab Vapor	<5	250 and above	<5	<100	100 to <1000	<100	1,000 and above
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>Mitigate</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>Monitor</i>	<i>No Further Action</i>	<i>Mitigate</i>
Deli North							
IA-4 Result	0.49	<0.25	<0.25	<1.0	<1.0	<1.0	1.58
Matrix Range Indoor Air	0.25 to <1	<0.25	<0.25	<3	<3	<3	<3
SS-4/Duplicate SS-9 Result	<2.50/<2.50	564/607	<2.50/<2.50	<9.99/<9.99	630/654	<9.98/<9.98	3630/3550
Matrix Range Sub-Slab Vapor	<5	250 and above	<5	<100	100 to <1000	<100	1,000 and above
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>Mitigate</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>Monitor</i>	<i>No Further Action</i>	<i>Mitigate</i>
2 University Place							
IA-5 Result	0.57	1.01	<0.25	<1.0	<1.0	<1.0	1.82
Matrix Range Indoor Air	0.25 to <1	1 to <5.0	<0.25	<3	<3	<3	<3
SS-5 Result	<2.50	47	<2.50	<9.99	<9.99	<9.98	3590
Matrix Range Sub-Slab Vapor	<5	5 to <50	<5	<100	<100	<100	1,000 and above
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>Monitor</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>
4 University Place							
IA-6 Result	0.55	0.6	<0.25	<1.0	<1.0	<1.0	36.2
Matrix Range Indoor Air	0.25 to <1	0.25 to <1	<0.25	<3	<3	<3	30 to <100
SS-6 Result	<2.50	655	<2.50	<9.99	134	<9.98	20100
Matrix Range Sub-Slab Vapor	<5	250 and above	<5	<100	100 to <1000	<100	1,000 and above
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>Mitigate</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>Monitor</i>	<i>No Further Action</i>	<i>Mitigate</i>
220 Lakeville Road							
IA-7 Result	0.58	<0.25	<0.25	<1.0	<1.0	<1.0	0.67
Matrix Range Indoor Air	0.25 to <1	<0.25	<0.25	<3	<3	<3	<3
SS-7 Result	<2.50	14.1	<0.25	<1.0	3.8	<1.0	854
Matrix Range Sub-Slab Vapor	<5	5 to <50	<5	<100	<100	<100	100 to <1,000
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>No Further Action</i>	<i>NoFurther Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Monitor</i>
216 Lakeville Road							
IA-8 Result	0.46	<0.25	<0.25	<1.0	<1.0	<1.0	0.79
Matrix Range Indoor Air	0.25 to <1	<0.25	<0.25	<3	<3	<3	<3
SS-8 Result	0.46	0.39	<0.25	<1.0	<1.0	8.34	3.2
Matrix Range Sub-Slab Vapor	<5	<5	<5	<100	<100	<100	<100
<i>Recommended Action</i>	<i>Take Reasonable/Practical Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>No Further Action</i>

Decision Matrices in tables referenced from NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The recommendations indicated in the decision matrices are described below.

No Further Action: Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

TAKE REASONABLE AND PRACTICAL ACTIONS TO IDENTIFY SOURCE(S) AND REDUCE EXPOSURE: The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposure accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MITIGATE: Take reasonable and practical actions to identify source(s) and reduce exposure: The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile chemical-containing products in places where people do not spend much time, such as a garage or shed). Resampling may also be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR: Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

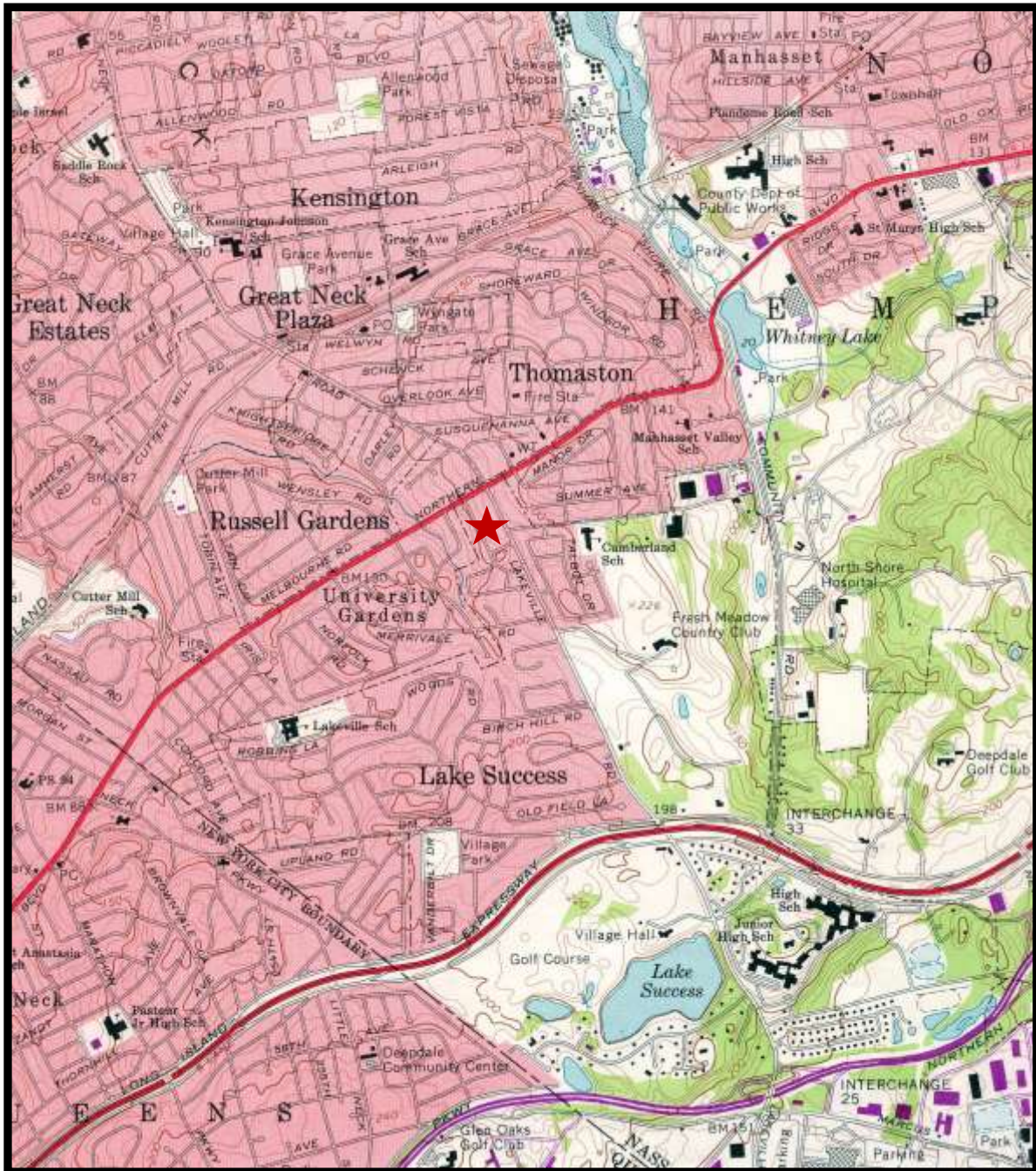
MONITOR/MITIGATE: Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building and site specific conditions.

FIGURES

Former Imperial Cleaners Site
(VCP Site #V-00244-1)
218 Lakeville Road
Lake Success, New York

FIGURE 1

SITE LOCATION MAP



(USGS QUAD Sea Cliff, New York)

(Scale 1:24000)

UNIVERSITY PLACE

UNIVERSITY ROAD

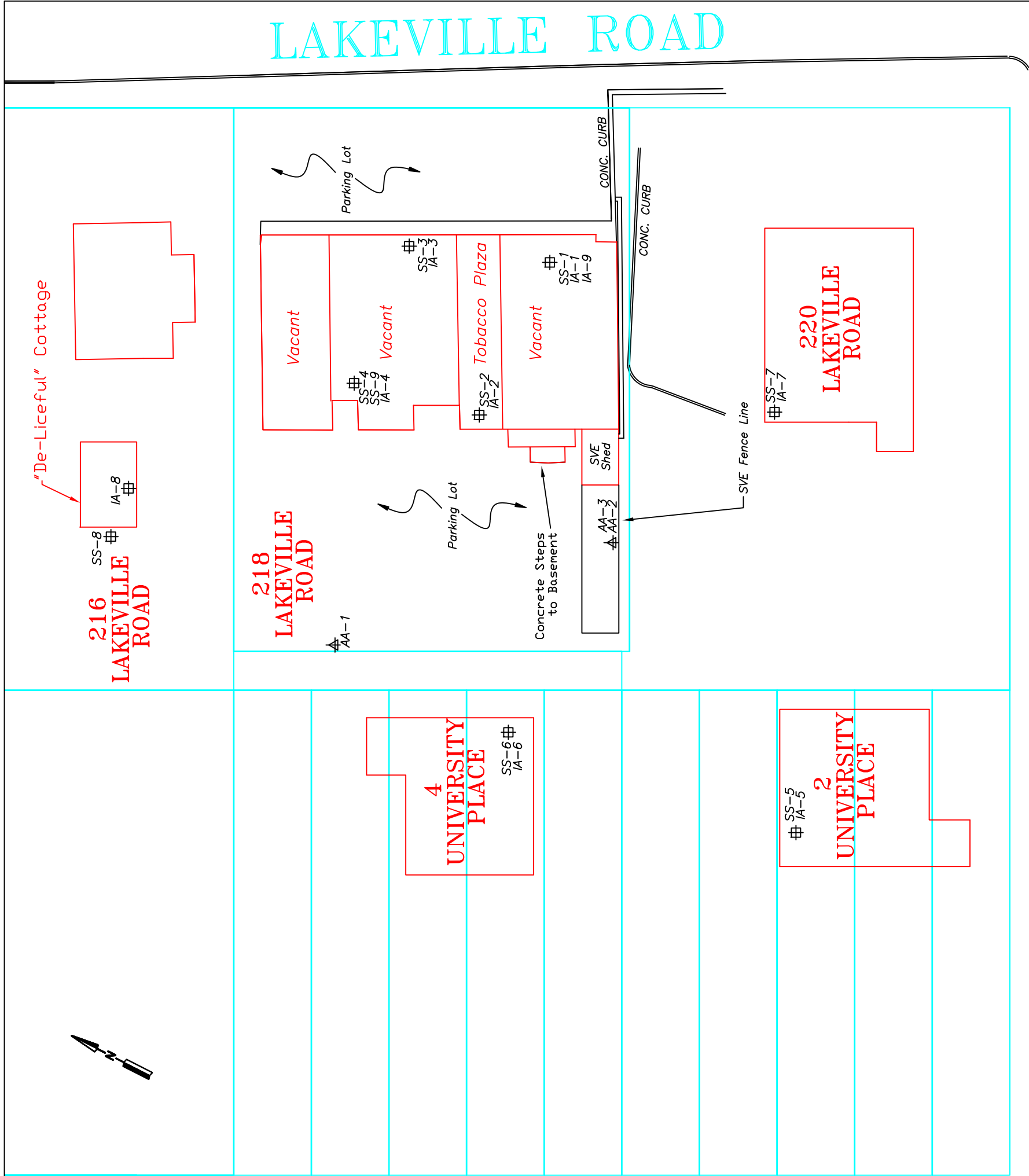


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FILE: **SITE MAP WITH SAMPLE
LOCATIONS**
218 LAKEVILLE ROAD,
LAKE SUCCESS, NEW YORK

JOB NO: IMPL0115.4	DATE: March 24, 2016
CAD FILE NAME: Z:\IMPL0115 (Imperial Chanters)\IMPL0115.4 - SVI Investigation\Site Map, Sample Locations, Septic.dwg	



LEGEND

- PROPERTY LINE
SUB-SLAB AND INDOOR AIR SAMPLE
AMBIENT AIR SAMPLE



NOTES

1. Site base map was derived from a property surveying prepared by Welsh Engineering & Land Surveying, P.C., 343 Manville Road, Pleasantville, NY 10570, revised on 7/14/00.
2. The Welsh Engineering north area was corrected based on 1999 Nassau County GIS base map.

APPENDICES

APPENDIX A
Existing Soil Vapor Extraction System Details

218 Lakeville Road Soil Vapor Extraction System

Based on the investigation and remediation activities previously conducted at the 218 Lakeville Road site, it was determined that installation of an SVE system would be required to remove residual PCE remaining in soils at the site. This work was conducted under the VCP program administered by NYSDEC. A SVE pilot test was conducted in May 1998 to determine the SVE well radius of influence for a full-scale SVE system. The SVE system was designed and installed by the previous Site owner's consultants and started up in January 2001. The complete SVE system consists of eight soil vapor extraction wells, as shown on the attached figure and described below.

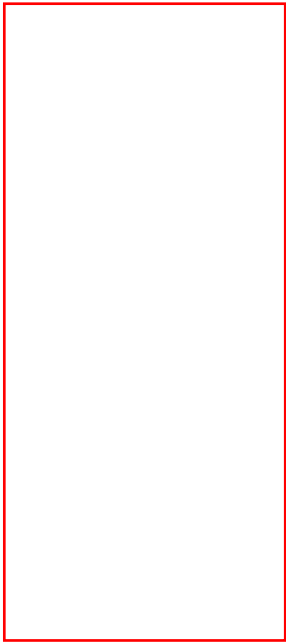
RW-1, RW-2, RW-3, RW-4 and RW-10 were installed in November - December 2000. RW-1 and RW-2 are located just east of the property line between 4 University Place and the Former Imperial Cleaners site. RW-3 was installed in the vicinity of former dry well DW-1, at the southwest corner of the Former Imperial Cleaners site. RW-1, RW-2 and RW-3 are 25 feet deep and screened 15 to 25 feet below grade. RW-4 (13 feet deep with 10 feet of slotted pipe) is located along the western boundary of 220 Lakeville Road, adjacent to the residence at 2 University Place, and its designed radius of influence covers portions of these two properties. RW-10 (25 feet deep with 10 feet of slotted pipe) was installed along the south side of the residence at 4 University Place, and its designed radius of influence extends to a portion of the property at 2 University Place.

Existing extraction wells B-1, FD-2 and B-3, which were installed at the Site prior to 1998, were connected to the five SVE wells and piping installed in 2000 to complete the SVE remediation system. Soil boring B-1 was converted to a SVE extraction well and is screened from 10 to 25 feet below grade. Floor drain FD-2 was excavated in 1996 and converted to a SVE extraction well screened 4 to 10 feet below the basement floor. Extraction well B-3 is located in the vicinity of LP-2 and is screened 15 to 30 feet below grade.

Site closure sampling (soil, soil vapor and indoor air perc badge sampling) was conducted in November 2007 – January 2008 in accordance with a NYSDEC approved work plan. The closure sampling results indicated that residual VOC concentrations met applicable NYSDEC and NYSDOH criteria. Permanent shutdown of the SVE system was recommended based on the 2007-2008 closure sampling results. The SVE system was subsequently shut down. All of the remediation system equipment remains in place at the Site.

LEGEND

- 
SURVEY CONTROL STATION
& BASELINE
- 
EXISTING SVE EXTRACTION WELL
- 
EXISTING SOIL BORING SVE EXTRACTION WELL
- 
EXISTING FLOOR DRAIN SVE EXTRACTION WELL
- 
EXISTING MONITORING WELL
- 
PROPERTY LINE



NOTES

1. All extraction wells locations are approximately located based on Anson Environmental's field measurements. No survey was conducted to exactly locate extraction well points.
2. Site base map was derived from a property survey prepared by Welsh Engineering & Land Surveying, P.C., 343 Manville Road, Pleasantville, NY 10570, revised on 7/14/00.
3. The Welsh Engineering north area was corrected based on 1999 Nassau County GIS basemap.

UNIVERSITY PLACE



SVE BURIED VACUUM LINES
FROM TREATMENT WELLS
TO REMEDIAL ENCLOSURE



MW2

MW4

RW-1

4
UNIVERSITY
PLACE

B-1

B-3

218
LAKEVILLE
ROAD

RW-10

RW-3

FD-2

MW3

SVE
SHED

MW5

CONC. CURB

SVE FENCE LINE

RW-4

2
UNIVERSITY
PLACE

220
LAKEVILLE
ROAD

LAKEVILLE ROAD

216
LAKEVILLE
ROAD

UNIVERSITY ROAD

APPENDIX B
Completed NYSDOH Indoor Air Quality Questionnaire/Building Inventory Sheets

Appendix B

Indoor air quality questionnaire and building inventory

As discussed in Section 2.11, products in buildings should be inventoried every time indoor air is sampled to provide an accurate assessment of the potential contribution of volatile chemicals. In addition, the type of structure, floor layout and physical conditions of the building being studied should be noted to identify (and minimize) conditions that may interfere with the proposed testing.

Toward this end, a blank copy of the NYSDOH Center for Environmental Health's Indoor Air Quality Questionnaire and Building Inventory is provided in this appendix. Also provided is an example that demonstrates how the form should be completed properly.

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 Jessica Bluth Date/Time Prepared 2/17/16

Preparer's Affiliation Walden Environmental Engineering Phone No. (516) 624-7200

Purpose of Investigation Soil Vapor Intrusion Investigation
Former Imperial Cleaners Site (VCP Site # V-00244-1)

1. OCCUPANT:

Interviewed: ☒ Y / ☐ N

Last Name: Keeling First Name: Betty

Address: 2 University Place, Great Neck

County: Nassau

Home Phone: (516) 466-3531 Office Phone: _____

Number of Occupants/persons at this location 2 Age of Occupants 45+

2. OWNER OR LANDLORD: (Check if same as occupant ☒)

Interviewed: ☒ Y / ☐ N

Last Name: Keeling First Name: Bill

Address: Same as above

County: _____

Home Phone: _____ 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
 Raised Ranch
Cape Cod
 Duplex
 Modular

2-Family
 Split Level
 Contemporary
 Apartment House
 Log Home

3-Family
 Colonial
 Mobile Home
 Townhouses/Condos
 Other: _____

If multiple units, how many? _____

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 1 + B

Building age ~ 1929

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

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 _____
except for boiler room
- e. Concrete floor: unsealed sealed re: exposed floor in boiler room sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N - 5 gallon bucket installed by homeowner in boiler room; top of bucket is reportedly sealed to concrete slab floor.
- k. Water in sump? Y N not applicable

Basement/Lowest level depth below grade: _____ (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

sump in boiler room (5 gallon bucket, described above) and floor drain just outside doorway to room containing sub-slab vapor sample location; both covered with plastic sheeting during sample collection

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)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: natural gasBoiler/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.

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 office, spare bedroom

1st Floor living areas, kitchen

2nd Floor _____

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

{ gas snow-blower
multiple paint cans
2 propane tanks
2 portable gas cans

d. Has the building ever had a fire?

Y / N

When? _____

e. Is a kerosene or unvented gas space heater present?

Y / N

Where? _____

f. Is there a workshop or hobby/craft area?

Y / N

Where & Type? _____

g. Is there smoking in the building?

Y / N

How frequently? _____

h. Have cleaning products been used recently?

Y / N

When & Type? _____

i. Have cosmetic products been used recently?

Y / N

When & Type? _____

- 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? _____
- 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: _____

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: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

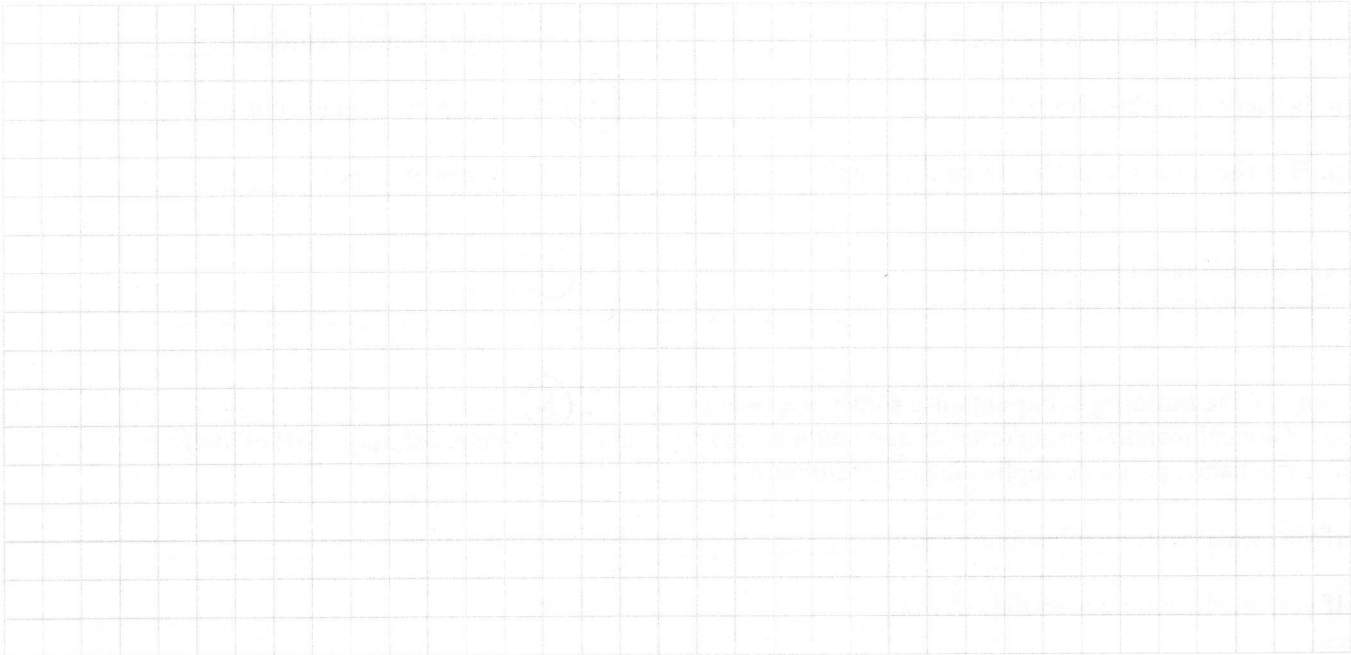
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

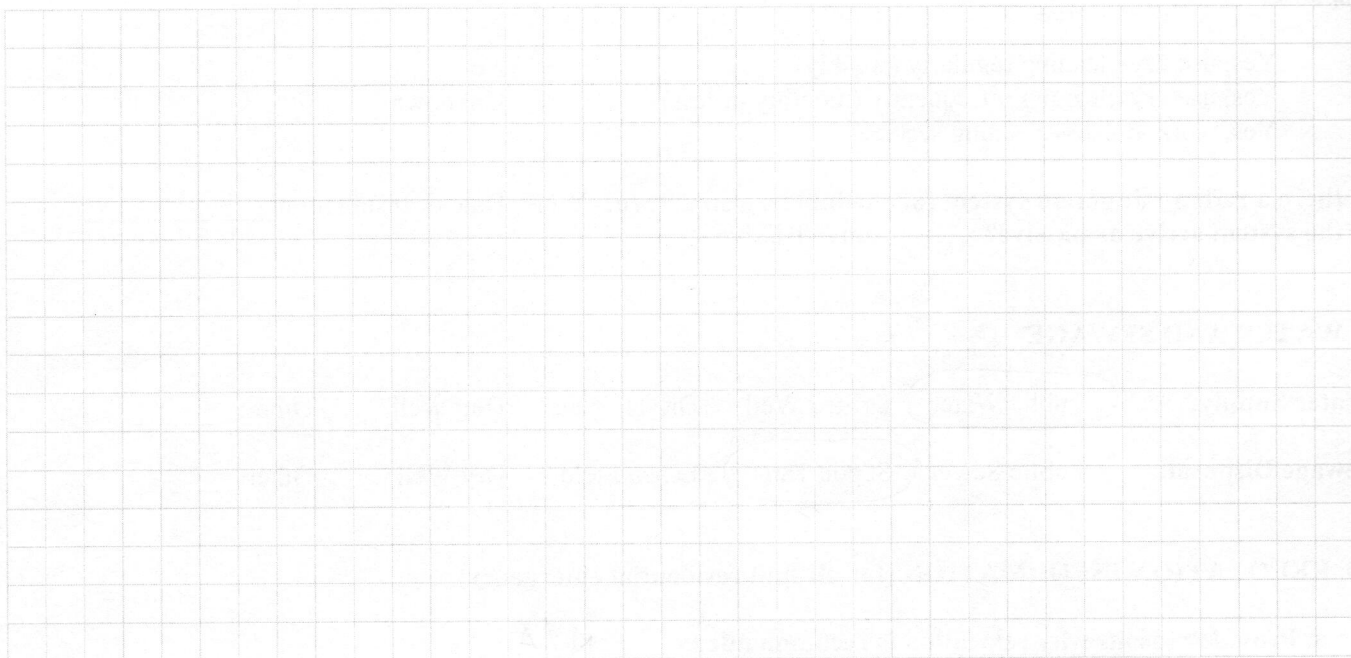
11. FLOOR PLANS

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:



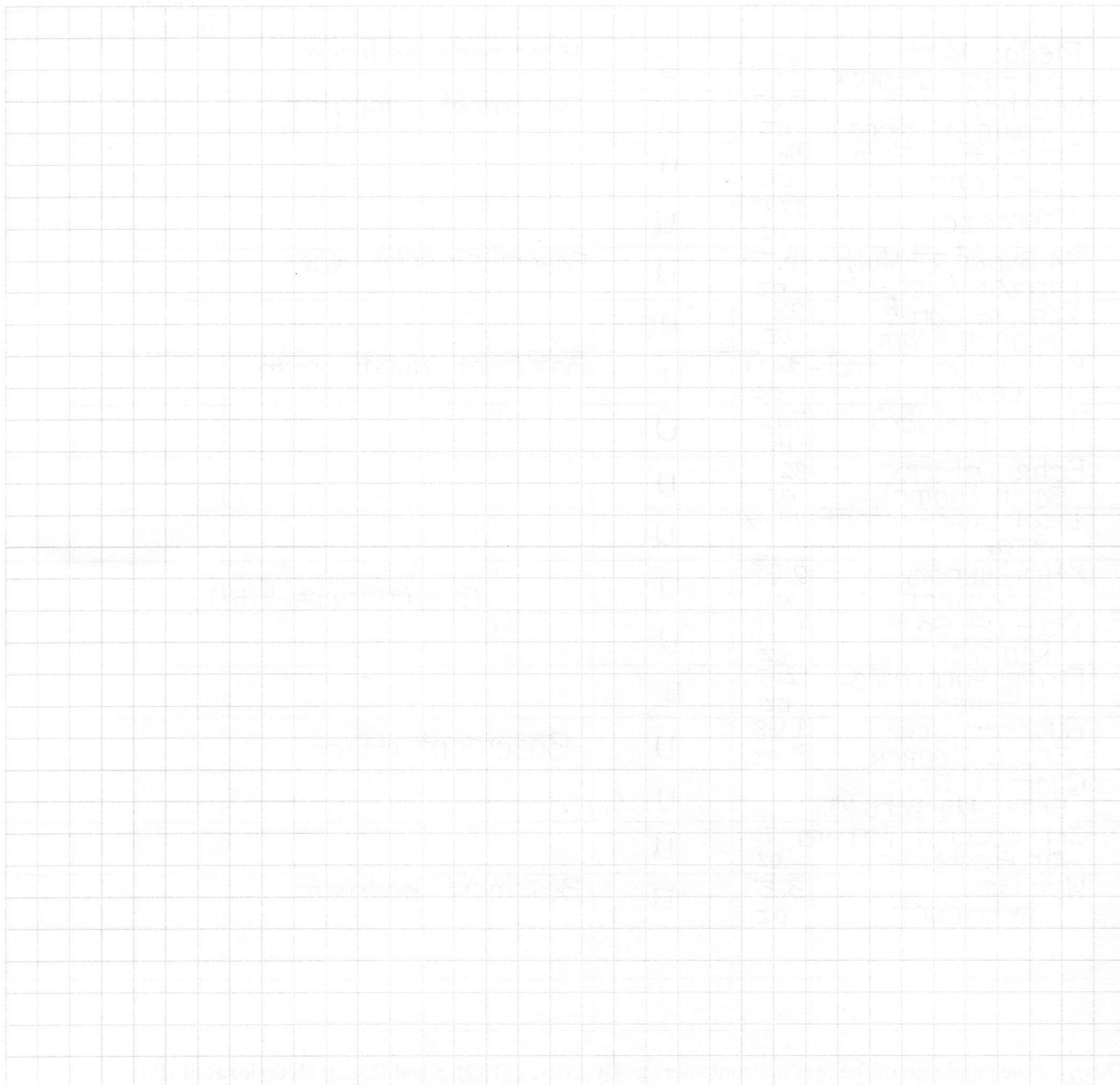
First Floor:



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: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition *	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
	Pledge Multi-Surface Cleaner	9.7 oz	U	Basement bedroom		
	Leather care foam (M. Benz)	5.07 oz	U	Basement computer room		
	Great Stuff Foam Sealant	16 oz.	U	" "		
	Febreze	27 fl. oz.	U	" "		
	3M Super 77 Multi-Purpose Adhesive	16.75 oz	U	Basement entry way		
	Resolve Carpet Cleaner Foam	22 oz	UO	" " "		
	Rust-Oleum Protective Enamel	32 fl. oz	U	Basement laundry room		
	Tide (powder)	7.12 lb	U	" " "		
	Behr Interior Satin Enamel	32 oz	U	" " "		
	Lysol Disinfectant Spray	19 oz	U	" " "		
	Xtra Laundry Detergent	2.68 gal	U	" " " (2 containers total)		
	Goof Off Spot Remover	1 fl. oz	U	" " "		
	Pledge Furniture Polish	12.5 oz	U	" " "		
	Quartet Dry-Erase Cleaner	1.68 fl. oz	U	Basement office		
	Quartet Dry-Erase Markers (5)		U	" "		
	Zep Coconut Verbana Air Freshener	7 oz	U	" "		
	Wet Gel Lubricant	3.5 oz	U	Basement bedroom		

* 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 B

Indoor air quality questionnaire and building inventory

As discussed in Section 2.11, products in buildings should be inventoried every time indoor air is sampled to provide an accurate assessment of the potential contribution of volatile chemicals. In addition, the type of structure, floor layout and physical conditions of the building being studied should be noted to identify (and minimize) conditions that may interfere with the proposed testing.

Toward this end, a blank copy of the NYSDOH Center for Environmental Health's Indoor Air Quality Questionnaire and Building Inventory is provided in this appendix. Also provided is an example that demonstrates how the form should be completed properly.

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 Jessica Bluth Date/Time Prepared 2/17/2016

Preparer's Affiliation Walden Environmental Engineering Phone No. (516) 624-7200

Purpose of Investigation Soil Vapor Intrusion Investigation
Former Imperial Cleaners Site (VCP Site # V-00244-1)

1. OCCUPANT:

Interviewed: ☒ Y ☐ N

Last Name: _____ First Name: Aby

Address: 4 University Place, Great Neck NY 11020

County: Nassau

Home Phone: (718) 813-2980 Office Phone: _____

Number of Occupants/persons at this location 2 Age of Occupants 45+

2. OWNER OR LANDLORD: (Check if same as occupant ☒)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ 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
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

If multiple units, how many? N/A

If the property is commercial, type? N/A

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N

If yes, how many? _____

Other characteristics:

Number of floors 2 + B

Building age ~ 1929

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

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 _____
except for laundry room
- e. Concrete floor: unsealed sealed sealed with _____
re: exposed floor in laundry room
- f. Foundation walls: poured block stone other brick
- g. Foundation walls: unsealed sealed partially sealed with paint
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
except for laundry room
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable - capped; contains sump pump for discharge to sewer
- Basement/Lowest level depth below grade: _____ (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

small (~3" ϕ) hole in laundry room concrete slab floor proximal to sub-slab vapor sample location, used as a condensation drain for boiler/furnace equipment; homeowner stated that he installed the drain himself and it extends ~2-3' laterally beneath the floor.

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 gasBoiler/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.

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 recreation, laundry, storage

1st Floor kitchen, living areas, dining room

2nd Floor bedrooms

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? _____

e. Is a kerosene or unvented gas space heater present?

Y / N

Where? _____

f. Is there a workshop or hobby/craft area?

Y / N Where & Type? _____

g. Is there smoking in the building?

Y / N

How frequently? _____

h. Have cleaning products been used recently?

Y / N

When & Type? _____

i. Have cosmetic products been used recently?

Y / N

When & Type? _____

- 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? _____
- 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: _____

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)

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 ☐

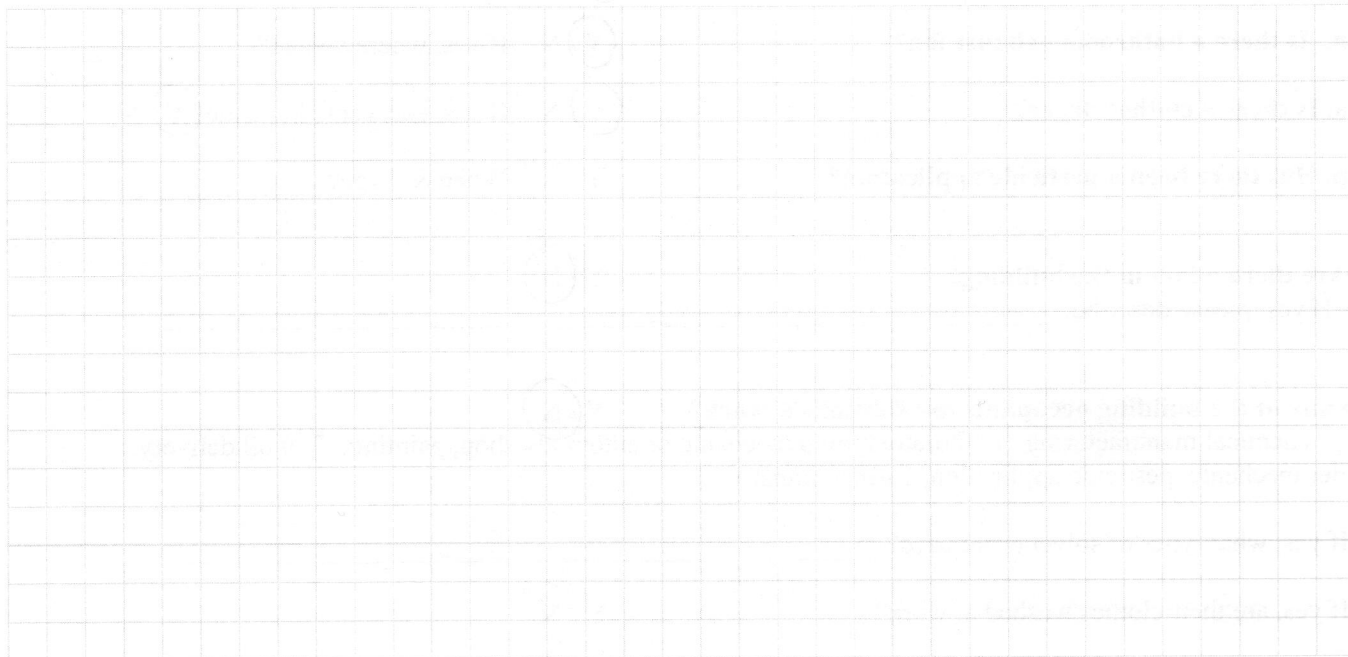
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

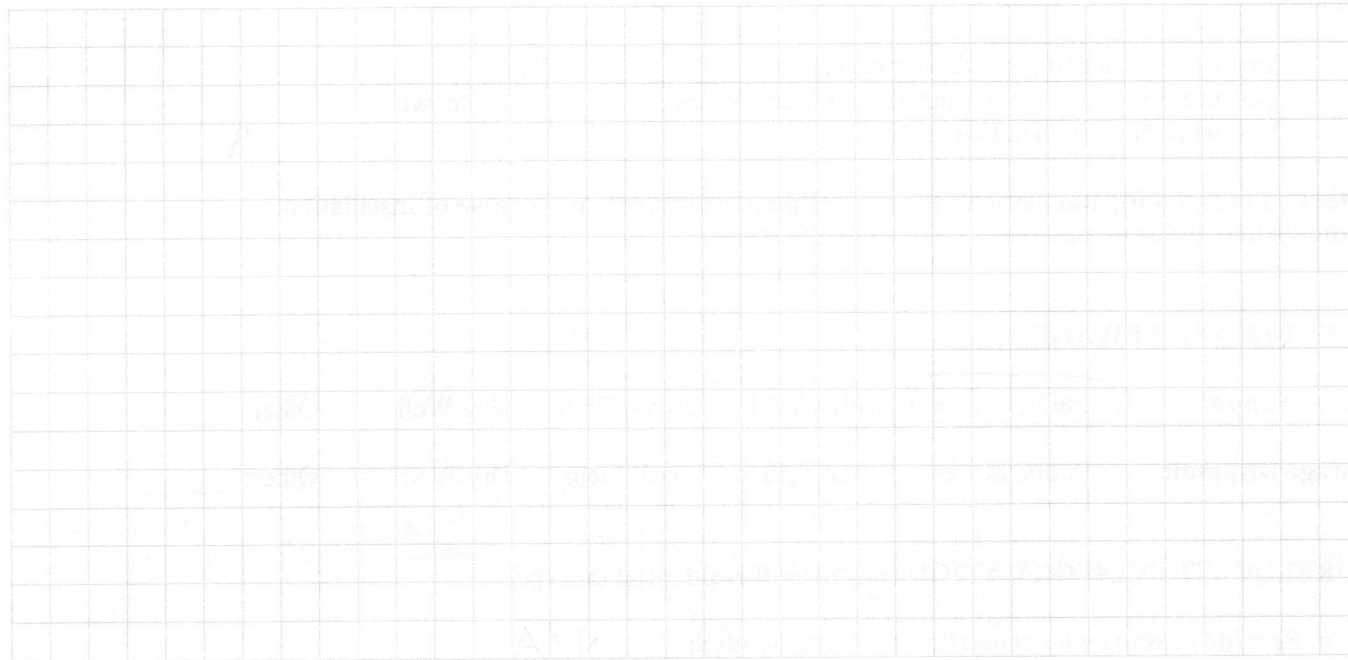
11. FLOOR PLANS

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:



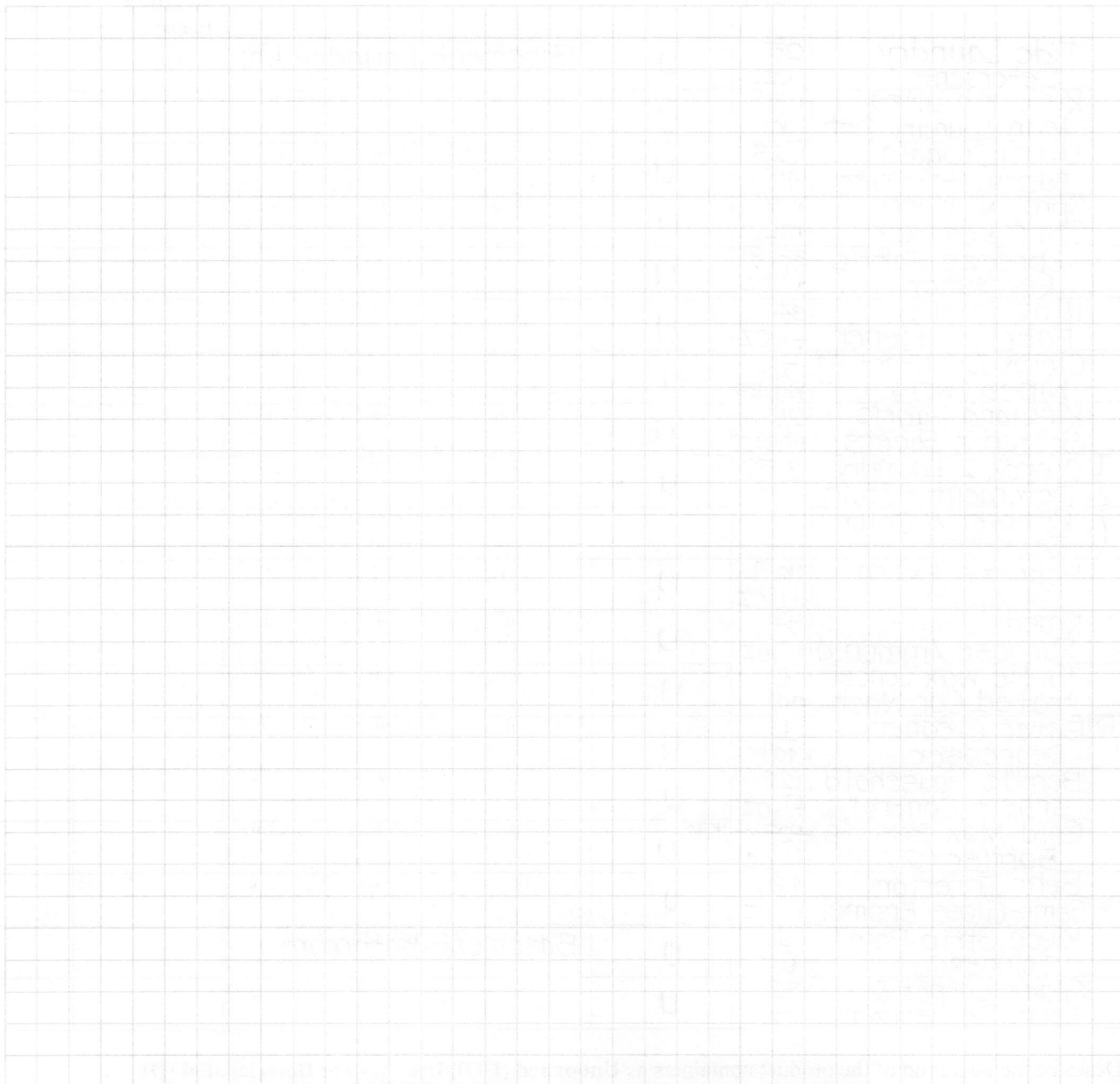
First Floor:



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: _____

List specific products found in the residence that have the potential to affect indoor air quality.

	Sprayway Fast Open 32 (Screen opener for water- based inks)	19 oz. spray can	U	Basement bathroom		
Location	Product Description	Size (units)	Condition *	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
	Tide Laundry Detergent	25 oz.	U	Basement Laundry Rm.		
	Kirkland Ultra Clean Laundry Det.	1.51 gal	U	" " "		
	Ultra Snuggle Fabric Softener	1.23 gal	U	" " "		
	Spray N' Wash Stain Remover	650 mL	U	" " "		
	Febreze Fabric Refresher	33.81 fl.oz	U	" " "		
	Ultra Downey Fabric Softener	34 fl.oz	U	" " "		
	Clorox Disinfecting Wipes (wet)	78 wipes	U	" " "		
	Kirkland Fabric Softener Sheets	250 sheets	U	" " "		
	Clorox 2 Laundry Detergent - Stain	3.52 Qt	U	" " "		
	Remover & Color Booster					
	Febreze Extra Strength	116.9 fl.oz	U	" " "		
	Krasdale All- Purpose Ammonia	64 fl.oz	U	" " "		
	Turtle Wax Concen- trated Car Wash	1 gal	U	" " "		
MARKED "OIL"	Eater Cleaner/ Degreaser	1 gal	U	" " "		
	Bonide Household Insect Control	128 fl.oz	U	" " "		
	Raid Max Bug (JP) Barrier (2) (JP)	128 → 156 fl.oz	U	" " "		
(x4)	Behr Interior Semi-Gloss Enamel	480 fl.oz	U	" " "		
	Klean Strip Paint Thinner	1 Qt	U	Basement bathroom		
	Glade Carpet & Room Deoderizer	32 oz	U	" "		

* 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.

- Clorox Toilet Bowl Cleaner 24 fl.oz Empty Basement bathroom

- Fantastik Oxy Power 26 fl.oz " " "
- Epsom Salt 4 lbs U " "

Appendix B

Indoor air quality questionnaire and building inventory

As discussed in Section 2.11, products in buildings should be inventoried every time indoor air is sampled to provide an accurate assessment of the potential contribution of volatile chemicals. In addition, the type of structure, floor layout and physical conditions of the building being studied should be noted to identify (and minimize) conditions that may interfere with the proposed testing.

Toward this end, a blank copy of the NYSDOH Center for Environmental Health's Indoor Air Quality Questionnaire and Building Inventory is provided in this appendix. Also provided is an example that demonstrates how the form should be completed properly.

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 Jessica Bluth Date/Time Prepared 2/17/2016
Preparer's Affiliation Walden Environmental Engineering Phone No. (516) 624-7200
Purpose of Investigation Soil Vapor Intrusion Investigation
Former Imperial Cleaners Site (VCP Site # V-00244-1)

1. OCCUPANT:

Interviewed: Y/N (N) Goodstein Development Corporation
Last Name: _____ First Name: _____
Address: 220 Lakeville Road, Great Neck NY 11020
County: Nassau
Home Phone: _____ Office Phone: (516) 482-8222
Number of Occupants/persons at this location < 10 Age of Occupants 25+

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: Y/N (N)
Last Name: _____ First Name: _____
Address: _____
County: _____
Home Phone: _____ 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) N/A - Converted Residence

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) development corp office

Does it include residences (i.e., multi-use)? Y ☒ N If yes, how many? _____

Other characteristics:

Number of floors 2 + B

Building age ~ 1932

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

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 brick
- g. Foundation walls: unsealed partially sealed sealed with paint
- h. The basement is: wet damp dry moldy
- 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: _____ (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

crack traversing basement concrete slab floor in same
portion of room as sub-slab vapor sample location; appears
to coincide with location of underground sewer pipe.
Crack sealed with hydraulic cement prior to sampling.

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	* formerly fuel oil
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.

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 document storage

1st Floor offices

2nd Floor _____

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? _____

e. Is a kerosene or unvented gas space heater present?

Y (N)

Where? _____

f. Is there a workshop or hobby/craft area?

Y (N)

Where & Type? _____

g. Is there smoking in the building?

Y (N)

How frequently? _____

h. Have cleaning products been used recently?

Y (N)

When & Type? _____

i. Have cosmetic products been used recently?

Y (N)

When & Type? _____

- 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? _____
- 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: _____

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: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

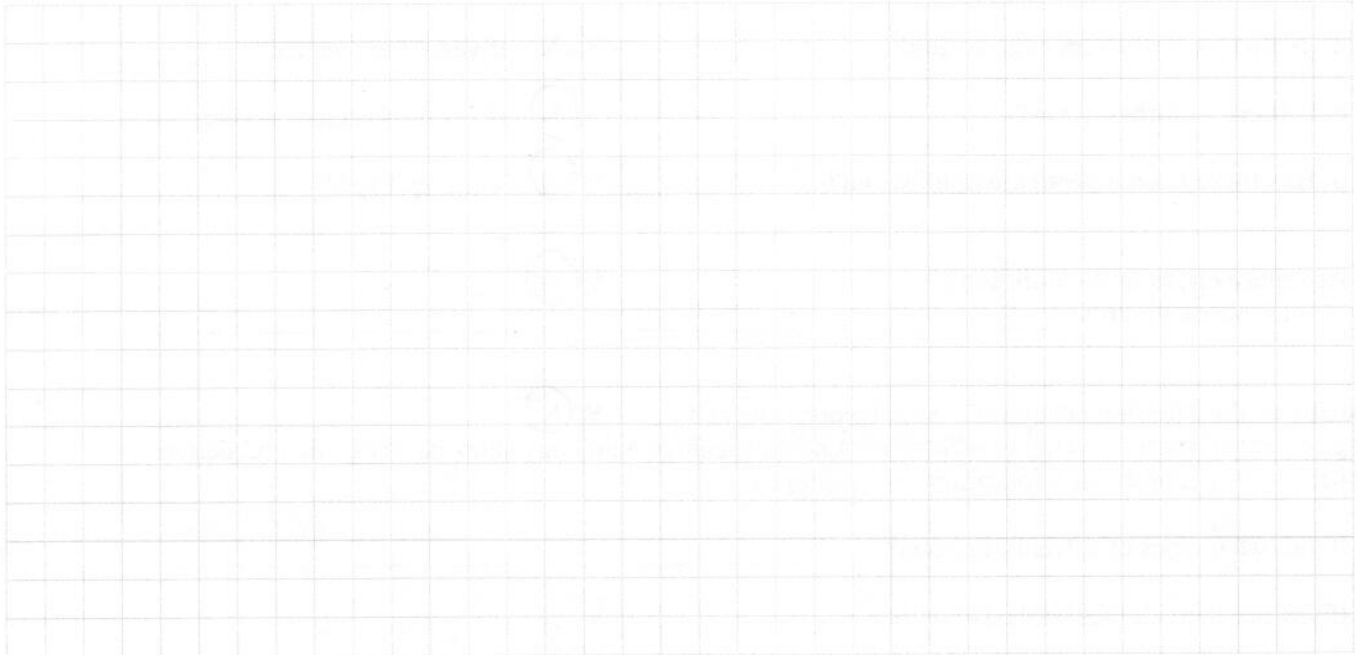
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

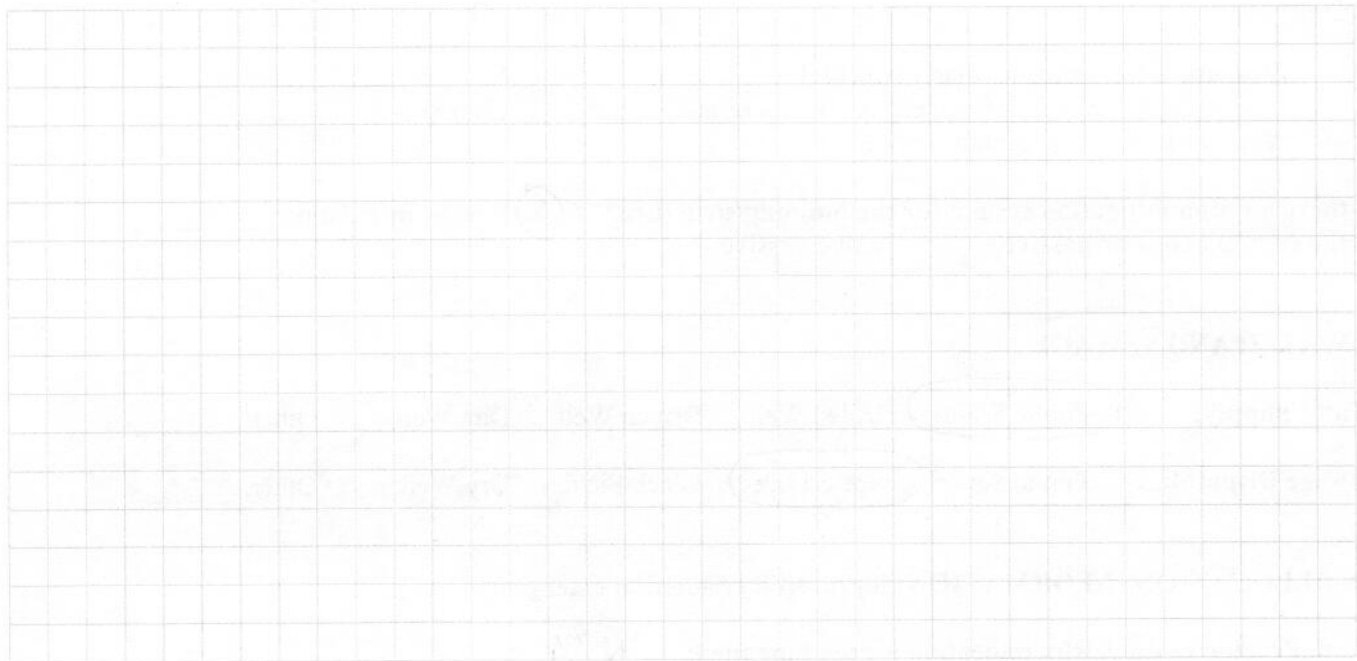
11. FLOOR PLANS

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:



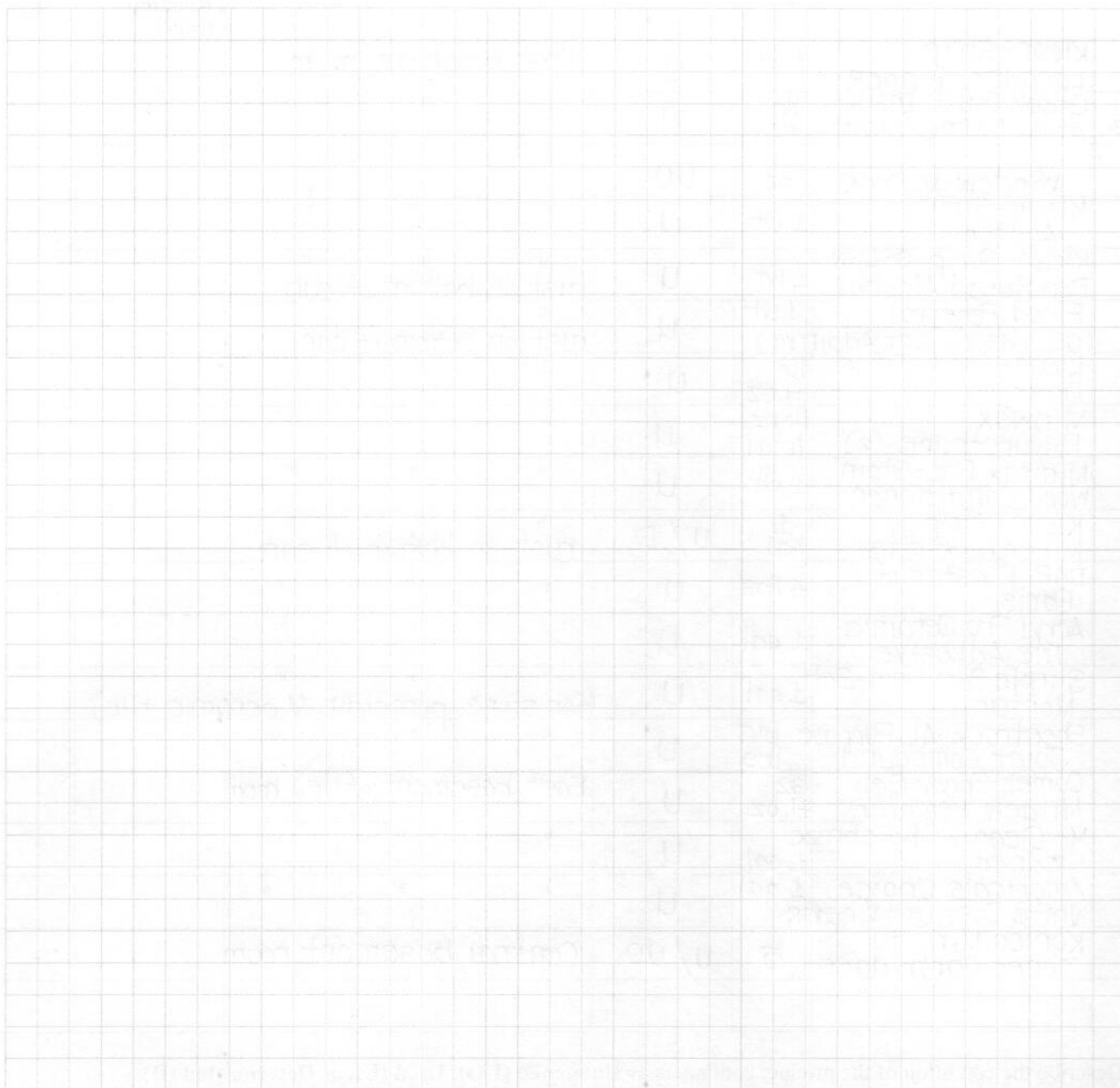
First Floor:



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: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Location Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
	Klean-Strip Lacquer Thinner	1 qt	U	West basement room		
Gaps & Cracks	Great Stuff Insulating Foam Sealant	1lb oz	U	" " "		
	" " Window & Door	1lb oz	UO	" " "		
	Klean-Strip Acetone	1 qt	U	" " "		
	Klean-Strip 3-L-X Denatured Alcohol	1 qt	U	" " " rust on bottom of can		
	Flood Penetrol (oil-based paint additive)	1 qt	U	" " " rust on bottom of can		
	Klean-Strip Japan Drier	1lb fl.oz	U	" " "		
	Minwax Polyurethane (2)	1lb oz. total	U	" " "		
	Minwax Pre-Stain Wood Conditioner	1 qt	U	" " "		
	Klean-Strip Mineral Spirits	1 gal	U/D	" " " rust on bottom of can		
	DAP Plaster of Paris	4 lbs	U	" " "		
	Acryl Pro Ceramic Tile Adhesive	1 gal	U	" " "		
	Simple Set Thin-Set Mortar	1 gal	U	" " " (for stone, porcelain & ceramic tile)		
	Sheetrock All Purpose Joint Compound	1lb.7 lbs	U	" " "		
	Comet Spray Gel Mildew Remover	32 fl.oz	U	East basement (file) room		
	Mr. Clean with Febreze Cleaner	1 gal	U	" " "		
	America's Choice White Distilled Vinegar	1 gal	U	" " "		
	Konica Minolta Toner Cartridges	5	U/UO	Central basement room		

* 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 C
Laboratory Analytical Report



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Walden Environmental Engineering PLLC
218 LAKEVILLE RD

GBK67651

Ver 1

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Monday, February 29, 2016

Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: 218 LAKEVILLE RD
Sample ID#s: BK67651 - BK67671

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: Walden Environmental Engineering PLLC
Project: 218 LAKEVILLE RD
Laboratory Project: GBK67651



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

February 29, 2016

SDG I.D.: GBK67651

Walden Environmental Engineering PLLC 218 LAKEVILLE RD

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
IA-3	BK67651	AIR
IA-8	BK67652	AIR
SS-5	BK67653	AIR
AA-2	BK67654	AIR
SS-6	BK67655	AIR
IA-6	BK67656	AIR
IA-5	BK67657	AIR
SS-2	BK67658	AIR
SS-8	BK67659	AIR
SS-9	BK67660	AIR
AA-1	BK67661	AIR
SS-1	BK67662	AIR
SS-4	BK67663	AIR
IA-1	BK67664	AIR
IA-7	BK67665	AIR
AA-3	BK67666	AIR
IA-4	BK67667	AIR
SS-7	BK67668	AIR
IA-9	BK67669	AIR
IA-2	BK67670	AIR
SS-3	BK67671	AIR



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NY Analytical Services Protocol Format

February 29, 2016

SDG I.D.: GBK67651

Walden Environmental Engineering PLLC 218 LAKEVILLE RD

Laboratory Chronicle

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BK67651	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67652	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67653	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y
BK67654	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67655	Volatiles (TO15)	02/17/16	02/24/16	02/24/16	KCA	Y
BK67656	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67657	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67658	Volatiles (TO15)	02/17/16	02/24/16	02/24/16	KCA	Y
BK67659	Volatiles (TO15)	02/17/16	02/24/16	02/24/16	KCA	Y
BK67660	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y
BK67661	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67662	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y
BK67663	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y
BK67664	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67665	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y
BK67666	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67667	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67668	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y
BK67669	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67670	Volatiles (TO15)	02/17/16	02/22/16	02/22/16	KCA	Y
BK67671	Volatiles (TO15)	02/17/16	02/23/16	02/23/16	KCA	Y



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SDG Comments

February 29, 2016

SDG I.D.: GBK67651

Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 222

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 16:56
02/19/16 16:00

Time

Project ID: 218 LAKEVILLE RD
Client ID: IA-3

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67651

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	1.71	S 0.421	0.421	4.06	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.081	0.040	0.040	0.51	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.730	0.485	0.485	1.51	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.543	0.202	0.202	2.68	1.00	1.00	02/22/16	KCA	1
Ethanol	4.90	S 0.531	0.531	9.23	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.731	S 0.407	0.407	1.80	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.283	0.037	0.037	1.92	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	ND	0.266	0.266	ND	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	0.050	0.047	0.047	0.27	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.247	0.178	0.178	1.39	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	97	%	%	97	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

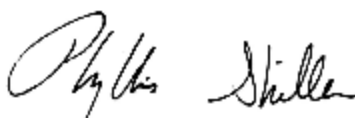
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 12866

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 16:27
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67652

Project ID: 218 LAKEVILLE RD
Client ID: IA-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	29.3	S 0.421	0.421	69.6	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.073	0.040	0.040	0.46	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.593	0.485	0.485	1.22	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.503	0.202	0.202	2.49	1.00	1.00	02/22/16	KCA	1
Ethanol	68.8	ES 0.531	0.531	130	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	0.407	0.278	0.278	1.47	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	14.4	S 0.407	0.407	35.4	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.116	0.037	0.037	0.79	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	0.544	0.266	0.266	2.05	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.236	0.178	0.178	1.33	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	100	%	%	100	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

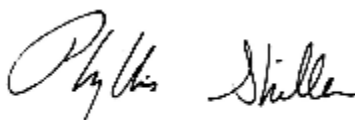
Comments:

E = Estimated value quantitated above calibration range for this compound.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 217

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 15:56
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67653

Project ID: 218 LAKEVILLE RD
Client ID: SS-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trimethylbenzene	15.6	2.04	2.04	76.6	10.0	10.0	02/23/16	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10
1,3,5-Trimethylbenzene	4.62	2.04	2.04	22.7	10.0	10.0	02/23/16	KCA	10
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
4-Ethyltoluene	2.58	2.04	2.04	12.7	10.0	10.0	02/23/16	KCA	10
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Acetone	34.8	S 4.21	4.21	82.6	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10

Client ID: SS-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	4.46	3.21	3.21	13.9	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	ND	2.05	2.05	ND	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	ND	2.02	2.02	ND	10.0	10.0	02/23/16	KCA	10
Ethanol	12.5	S 5.31	5.31	23.5	10.0	10.0	02/23/16	KCA	10 1
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10 1
Ethylbenzene	3.35	2.30	2.30	14.5	10.0	10.0	02/23/16	KCA	10
Heptane	3.17	2.44	2.44	13.0	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	3.14	S 2.84	2.84	11.1	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	13.3	2.30	2.30	57.7	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10 1
o-Xylene	6.51	2.30	2.30	28.3	10.0	10.0	02/23/16	KCA	10
Propylene	16.6	5.81	5.81	28.6	10.0	10.0	02/23/16	KCA	10 1
sec-Butylbenzene	11.8	1.82	1.82	64.7	10.0	10.0	02/23/16	KCA	10 1
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	529	D 1.11	1.11	3590	7.52	7.52	02/23/16	KCA	30
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10 1
Toluene	8.35	2.66	2.66	31.4	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	8.75	0.466	0.466	47.0	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/OC Surrogates</u>									
% Bromofluorobenzene	104	%	%	104	%	%	02/23/16	KCA	10

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

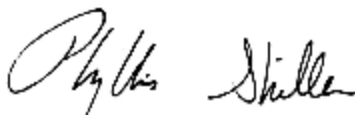
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 469

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:33
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67654

Project ID: 218 LAKEVILLE RD
Client ID: AA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	2.57	0.204	0.204	12.6	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	0.880	0.204	0.204	4.32	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	0.579	0.204	0.204	2.84	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	0.196	0.182	0.182	1.08	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	11.8	S 0.421	0.421	28.0	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	1.00	0.313	0.313	3.19	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: AA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.066	0.040	0.040	0.41	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.791	0.485	0.485	1.63	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	1.32	0.291	0.291	4.54	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.495	0.202	0.202	2.45	1.00	1.00	02/22/16	KCA	1
Ethanol	7.20	S 0.531	0.531	13.6	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	1.06	0.230	0.230	4.60	1.00	1.00	02/22/16	KCA	1
Heptane	1.58	0.244	0.244	6.47	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	2.22	S 0.284	0.284	7.82	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.994	S 0.407	0.407	2.44	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	0.225	0.204	0.204	1.11	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	3.53	0.230	0.230	15.3	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	0.371	0.339	0.339	1.09	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	1.70	0.230	0.230	7.38	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.069	0.037	0.037	0.47	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	5.00	0.266	0.266	18.8	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.409	0.178	0.178	2.30	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	99	%	%	99	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

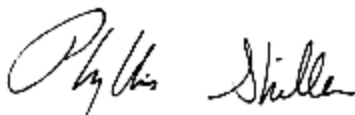
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 216

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 16:07
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67655

Project ID: 218 LAKEVILLE RD
Client ID: SS-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trimethylbenzene	10.9	2.04	2.04	53.6	10.0	10.0	02/23/16	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10
1,3,5-Trimethylbenzene	2.81	2.04	2.04	13.8	10.0	10.0	02/23/16	KCA	10
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
4-Ethyltoluene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Acetone	15.7	S 4.21	4.21	37.3	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10

Client ID: SS-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	ND	3.21	3.21	ND	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	ND	2.05	2.05	ND	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	33.8	2.52	2.52	134	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	ND	2.02	2.02	ND	10.0	10.0	02/23/16	KCA	10
Ethanol	7.20	S 5.31	5.31	13.6	10.0	10.0	02/23/16	KCA	10 1
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10 1
Ethylbenzene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Heptane	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	ND	2.84	2.84	ND	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	8.22	2.30	2.30	35.7	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10 1
o-Xylene	3.98	2.30	2.30	17.3	10.0	10.0	02/23/16	KCA	10
Propylene	ND	5.81	5.81	ND	10.0	10.0	02/23/16	KCA	10 1
sec-Butylbenzene	8.18	1.82	1.82	44.9	10.0	10.0	02/23/16	KCA	10 1
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	2960	D 5.53	5.53	20100	37.5	37.5	02/24/16	KCA	150
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10 1
Toluene	5.42	2.66	2.66	20.4	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	122	0.466	0.466	655	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/OC Surrogates</u>									
% Bromofluorobenzene	102	%	%	102	%	%	02/23/16	KCA	10

Client ID: SS-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

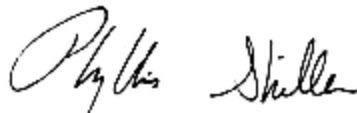
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 9767

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 16:14
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67656

Project ID: 218 LAKEVILLE RD
Client ID: IA-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	20.3	S 0.421	0.421	48.2	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.087	0.040	0.040	0.55	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.729	0.485	0.485	1.50	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.529	0.202	0.202	2.61	1.00	1.00	02/22/16	KCA	1
Ethanol	30.6	S 0.531	0.531	57.6	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	2.52	S 0.407	0.407	6.19	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	0.508	0.230	0.230	2.20	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	0.436	0.339	0.339	1.29	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	5.34	0.037	0.037	36.2	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	0.843	0.266	0.266	3.17	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	0.112	0.047	0.047	0.60	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.237	0.178	0.178	1.33	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	99	%	%	99	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

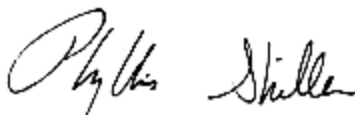
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 457

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 15:57
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67657

Project ID: 218 LAKEVILLE RD
Client ID: IA-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	6.27	S 0.421	0.421	14.9	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	0.490	0.313	0.313	1.56	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.090	0.040	0.040	0.57	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	1.05	0.485	0.485	2.17	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.548	0.202	0.202	2.71	1.00	1.00	02/22/16	KCA	1
Ethanol	12.3	S 0.531	0.531	23.2	1.00	1.00	02/22/16	KCA	1
Ethyl acetate	0.293	0.278	0.278	1.06	1.00	1.00	02/22/16	KCA	1
Ethylbenzene	0.243	0.230	0.230	1.05	1.00	1.00	02/22/16	KCA	1
Heptane	0.353	0.244	0.244	1.45	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	0.577	S 0.284	0.284	2.03	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.668	S 0.407	0.407	1.64	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	0.952	0.230	0.230	4.13	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	0.613	0.339	0.339	1.81	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	0.677	S 0.288	0.288	2.35	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
o-Xylene	0.297	0.230	0.230	1.29	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.268	0.037	0.037	1.82	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Toluene	2.61	0.266	0.266	9.8	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	0.188	0.047	0.047	1.01	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.241	0.178	0.178	1.35	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	97	%	%	97	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

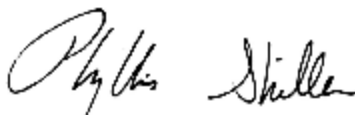
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 11257

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:16
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67658

Project ID: 218 LAKEVILLE RD
Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trimethylbenzene	3.61	2.04	2.04	17.7	10.0	10.0	02/23/16	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10
1,3,5-Trimethylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
4-Ethyltoluene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Acetone	10.5	S 4.21	4.21	24.9	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10

Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	ND	3.21	3.21	ND	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	9.49	2.05	2.05	46.3	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	61.7	2.52	2.52	244	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	ND	2.02	2.02	ND	10.0	10.0	02/23/16	KCA	10
Ethanol	ND	5.31	5.31	ND	10.0	10.0	02/23/16	KCA	10
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Ethylbenzene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Heptane	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	ND	2.84	2.84	ND	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	3.38	2.30	2.30	14.7	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
o-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Propylene	ND	5.81	5.81	ND	10.0	10.0	02/23/16	KCA	10
sec-Butylbenzene	2.71	1.82	1.82	14.9	10.0	10.0	02/23/16	KCA	10
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	2750	D 2.77	2.77	18600	18.8	18.8	02/24/16	KCA	75
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Toluene	3.19	2.66	2.66	12.0	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	3.48	2.52	2.52	13.8	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	35.5	0.466	0.466	191	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/OC Surrogates</u>									
% Bromofluorobenzene	102	%	%	102	%	%	02/23/16	KCA	10

Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

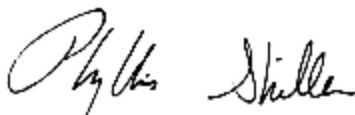
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 223

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 18:06
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67659

Project ID: 218 LAKEVILLE RD
Client ID: SS-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/23/16	KCA	1
1,1,1-Trichloroethane	1.53	0.183	0.183	8.34	1.00	1.00	02/23/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/23/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/23/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/23/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/23/16	KCA	1
1,2,4-Trimethylbenzene	2.86	0.204	0.204	14.1	1.00	1.00	02/23/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/23/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/23/16	KCA	1
1,3,5-Trimethylbenzene	0.825	0.204	0.204	4.05	1.00	1.00	02/23/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/23/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/23/16	KCA	1
4-Ethyltoluene	0.483	0.204	0.204	2.37	1.00	1.00	02/23/16	KCA	1
4-Isopropyltoluene	0.185	0.182	0.182	1.01	1.00	1.00	02/23/16	KCA	1
4-Methyl-2-pentanone(MIBK)	0.256	0.244	0.244	1.05	1.00	1.00	02/23/16	KCA	1
Acetone	41.6	DS 2.11	2.11	98.8	5.01	5.01	02/24/16	KCA	5
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/23/16	KCA	1
Benzene	1.55	0.313	0.313	4.95	1.00	1.00	02/23/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/23/16	KCA	1

Client ID: SS-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/23/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/23/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/23/16	KCA	1
Carbon Disulfide	1.64	0.321	0.321	5.10	1.00	1.00	02/23/16	KCA	1
Carbon Tetrachloride	0.073	0.040	0.040	0.46	0.25	0.25	02/23/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/23/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/23/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/23/16	KCA	1
Chloromethane	0.760	0.485	0.485	1.57	1.00	1.00	02/23/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/23/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/23/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/23/16	KCA	1
Dichlorodifluoromethane	0.591	0.202	0.202	2.92	1.00	1.00	02/23/16	KCA	1
Ethanol	15.5	S 0.531	0.531	29.2	1.00	1.00	02/23/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1 1
Ethylbenzene	0.907	0.230	0.230	3.94	1.00	1.00	02/23/16	KCA	1
Heptane	1.61	0.244	0.244	6.59	1.00	1.00	02/23/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/23/16	KCA	1
Hexane	2.58	S 0.284	0.284	9.09	1.00	1.00	02/23/16	KCA	1
Isopropylalcohol	1.16	S 0.407	0.407	2.85	1.00	1.00	02/23/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/23/16	KCA	1
m,p-Xylene	3.25	0.230	0.230	14.1	1.00	1.00	02/23/16	KCA	1
Methyl Ethyl Ketone	3.34	0.339	0.339	9.8	1.00	1.00	02/23/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/23/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1 1
o-Xylene	1.56	0.230	0.230	6.77	1.00	1.00	02/23/16	KCA	1
Propylene	12.9	0.581	0.581	22.2	1.00	1.00	02/23/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/23/16	KCA	1
Tetrachloroethene	0.472	0.037	0.037	3.20	0.25	0.25	02/23/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/23/16	KCA	1 1
Toluene	3.87	0.266	0.266	14.6	1.00	1.00	02/23/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/23/16	KCA	1
Trichloroethene	0.072	0.047	0.047	0.39	0.25	0.25	02/23/16	KCA	1
Trichlorofluoromethane	0.315	0.178	0.178	1.77	1.00	1.00	02/23/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/23/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/23/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	103	%	%	103	%	%	02/23/16	KCA	1

Client ID: SS-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

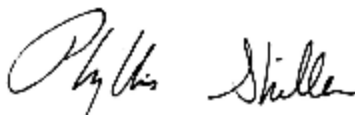
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 221

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:46
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67660

Project ID: 218 LAKEVILLE RD
Client ID: SS-9

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trimethylbenzene	3.91	2.04	2.04	19.2	10.0	10.0	02/23/16	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10
1,3,5-Trimethylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
4-Ethyltoluene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Acetone	16.0	S 4.21	4.21	38.0	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10

Client ID: SS-9

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	ND	3.21	3.21	ND	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	2.53	2.05	2.05	12.3	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	165	2.52	2.52	654	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	ND	2.02	2.02	ND	10.0	10.0	02/23/16	KCA	10
Ethanol	6.27	S 5.31	5.31	11.8	10.0	10.0	02/23/16	KCA	10 1
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10 1
Ethylbenzene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Heptane	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	ND	2.84	2.84	ND	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	3.69	2.30	2.30	16.0	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10 1
o-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Propylene	ND	5.81	5.81	ND	10.0	10.0	02/23/16	KCA	10 1
sec-Butylbenzene	2.94	1.82	1.82	16.1	10.0	10.0	02/23/16	KCA	10 1
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	524	D 1.11	1.11	3550	7.52	7.52	02/23/16	KCA	30
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10 1
Toluene	3.84	2.66	2.66	14.5	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	9.13	2.52	2.52	36.2	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	113	0.466	0.466	607	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/OC Surrogates</u>									
% Bromofluorobenzene	101	%	%	101	%	%	02/23/16	KCA	10

Client ID: SS-9

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

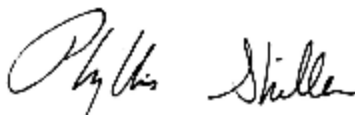
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 367

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:38
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67661

Project ID: 218 LAKEVILLE RD
Client ID: AA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	2.30	0.204	0.204	11.3	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	0.878	0.204	0.204	4.31	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	0.429	0.204	0.204	2.11	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	0.188	0.182	0.182	1.03	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	7.92	S 0.421	0.421	18.8	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	1.29	0.313	0.313	4.12	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: AA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.060	0.040	0.040	0.38	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.743	0.485	0.485	1.53	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	1.88	0.291	0.291	6.47	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.507	0.202	0.202	2.51	1.00	1.00	02/22/16	KCA	1
Ethanol	9.31	S 0.531	0.531	17.5	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	1.09	0.230	0.230	4.73	1.00	1.00	02/22/16	KCA	1
Heptane	2.02	0.244	0.244	8.27	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	3.07	S 0.284	0.284	10.8	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.680	S 0.407	0.407	1.67	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	0.218	0.204	0.204	1.07	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	3.66	0.230	0.230	15.9	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	0.580	0.339	0.339	1.71	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	1.75	0.230	0.230	7.59	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	1.73	0.182	0.182	9.49	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.049	0.037	0.037	0.33	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	5.82	0.266	0.266	21.9	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.492	0.178	0.178	2.76	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	99	%	%	99	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

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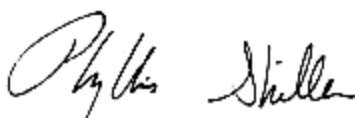
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 368

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:59
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67662

Project ID: 218 LAKEVILLE RD
Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trimethylbenzene	2.67	2.04	2.04	13.1	10.0	10.0	02/23/16	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10
1,3,5-Trimethylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
4-Ethyltoluene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Acetone	29.6	S 4.21	4.21	70.3	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10

Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	4.06	3.21	3.21	12.6	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	ND	2.05	2.05	ND	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	99.9	2.52	2.52	396	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	ND	2.02	2.02	ND	10.0	10.0	02/23/16	KCA	10
Ethanol	11.4	S 5.31	5.31	21.5	10.0	10.0	02/23/16	KCA	10 1
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10 1
Ethylbenzene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Heptane	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	ND	2.84	2.84	ND	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10 1
o-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Propylene	ND	5.81	5.81	ND	10.0	10.0	02/23/16	KCA	10 1
sec-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10 1
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	751	D 1.11	1.11	5090	7.52	7.52	02/23/16	KCA	30
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10 1
Toluene	ND	2.66	2.66	ND	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	3.93	2.52	2.52	15.6	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	31.3	0.466	0.466	168	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	104	%	%	104	%	%	02/23/16	KCA	10

Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

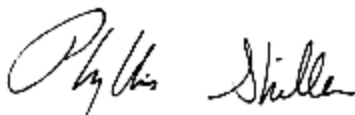
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 12867

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:45
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67663

Project ID: 218 LAKEVILLE RD
Client ID: SS-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10
1,2,4-Trimethylbenzene	4.30	2.04	2.04	21.1	10.0	10.0	02/23/16	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10
1,3,5-Trimethylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
4-Ethyltoluene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Acetone	16.6	S 4.21	4.21	39.4	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10

Client ID: SS-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	ND	3.21	3.21	ND	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	2.42	2.05	2.05	11.8	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	159	2.52	2.52	630	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	ND	2.02	2.02	ND	10.0	10.0	02/23/16	KCA	10
Ethanol	ND	5.31	5.31	ND	10.0	10.0	02/23/16	KCA	10
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Ethylbenzene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Heptane	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	ND	2.84	2.84	ND	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	3.60	2.30	2.30	15.6	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
o-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Propylene	ND	5.81	5.81	ND	10.0	10.0	02/23/16	KCA	10
sec-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	536	D 1.11	1.11	3630	7.52	7.52	02/23/16	KCA	30
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Toluene	3.54	2.66	2.66	13.3	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	8.81	2.52	2.52	34.9	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	105	0.466	0.466	564	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	101	%	%	101	%	%	02/23/16	KCA	10

Client ID: SS-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

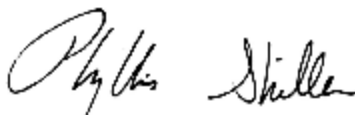
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 13650

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:53
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67664

Project ID: 218 LAKEVILLE RD
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	2.80	S 0.421	0.421	6.65	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.079	0.040	0.040	0.50	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.585	0.485	0.485	1.21	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.477	0.202	0.202	2.36	1.00	1.00	02/22/16	KCA	1
Ethanol	36.7	S 0.531	0.531	69.1	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.496	S 0.407	0.407	1.22	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	0.586	0.581	0.581	1.01	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.834	0.037	0.037	5.65	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	0.280	0.266	0.266	1.05	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.237	0.178	0.178	1.33	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	94	%	%	94	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

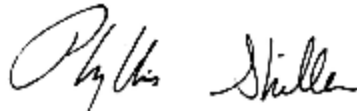
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 12862

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 16:46
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67665

Project ID: 218 LAKEVILLE RD
Client ID: IA-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/23/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/23/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/23/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/23/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/23/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/23/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/23/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/23/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/23/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/23/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/23/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/23/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/23/16	KCA	1
Acetone	2.79	S 0.421	0.421	6.62	1.00	1.00	02/23/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/23/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/23/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/23/16	KCA	1

Client ID: IA-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/23/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/23/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/23/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/23/16	KCA	1
Carbon Tetrachloride	0.092	0.040	0.040	0.58	0.25	0.25	02/23/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/23/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/23/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/23/16	KCA	1
Chloromethane	0.576	0.485	0.485	1.19	1.00	1.00	02/23/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/23/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/23/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/23/16	KCA	1
Dichlorodifluoromethane	0.568	0.202	0.202	2.81	1.00	1.00	02/23/16	KCA	1
Ethanol	3.59	S 0.531	0.531	6.76	1.00	1.00	02/23/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/23/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/23/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/23/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/23/16	KCA	1
Isopropylalcohol	0.467	S 0.407	0.407	1.15	1.00	1.00	02/23/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/23/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/23/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/23/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/23/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/23/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/23/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/23/16	KCA	1
Tetrachloroethene	0.099	0.037	0.037	0.67	0.25	0.25	02/23/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/23/16	KCA	1 1
Toluene	0.455	0.266	0.266	1.71	1.00	1.00	02/23/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/23/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/23/16	KCA	1
Trichlorofluoromethane	0.261	0.178	0.178	1.47	1.00	1.00	02/23/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/23/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/23/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	94	%	%	94	%	%	02/23/16	KCA	1

Client ID: IA-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

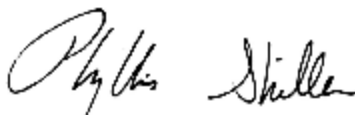
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 492

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:33
02/19/16 16:00

Time

Project ID: 218 LAKEVILLE RD
Client ID: AA-3

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67666

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	2.92	0.204	0.204	14.3	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	0.854	0.204	0.204	4.20	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	0.530	0.204	0.204	2.60	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	0.239	0.182	0.182	1.31	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	9.32	S 0.421	0.421	22.1	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	0.927	0.313	0.313	2.96	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: AA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.068	0.040	0.040	0.43	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	1.15	0.291	0.291	3.96	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.500	0.202	0.202	2.47	1.00	1.00	02/22/16	KCA	1
Ethanol	7.31	S 0.531	0.531	13.8	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	1.08	0.230	0.230	4.69	1.00	1.00	02/22/16	KCA	1
Heptane	1.40	0.244	0.244	5.73	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	1.92	S 0.284	0.284	6.76	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.522	S 0.407	0.407	1.28	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	3.54	0.230	0.230	15.4	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	0.358	0.339	0.339	1.06	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	1.69	0.230	0.230	7.33	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	2.20	0.182	0.182	12.1	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.058	0.037	0.037	0.39	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	4.87	0.266	0.266	18.3	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.387	0.178	0.178	2.17	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	99	%	%	99	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

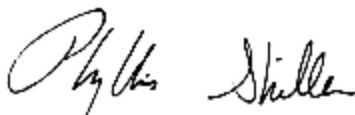
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 13651

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:44
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67667

Project ID: 218 LAKEVILLE RD
Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	2.00	S 0.421	0.421	4.75	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.078	0.040	0.040	0.49	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.622	0.485	0.485	1.28	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.500	0.202	0.202	2.47	1.00	1.00	02/22/16	KCA	1
Ethanol	2.89	S 0.531	0.531	5.44	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.518	S 0.407	0.407	1.27	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.233	0.037	0.037	1.58	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	ND	0.266	0.266	ND	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.222	0.178	0.178	1.25	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	96	%	%	96	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

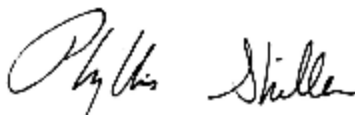
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



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Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 172

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 16:43
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67668

Project ID: 218 LAKEVILLE RD
Client ID: SS-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/23/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/23/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/23/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/23/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/23/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/23/16	KCA	1
1,2,4-Trimethylbenzene	4.19	0.204	0.204	20.6	1.00	1.00	02/23/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/23/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/23/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/23/16	KCA	1
1,3,5-Trimethylbenzene	1.10	0.204	0.204	5.40	1.00	1.00	02/23/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/23/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/23/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/23/16	KCA	1
4-Ethyltoluene	0.657	0.204	0.204	3.23	1.00	1.00	02/23/16	KCA	1
4-Isopropyltoluene	0.300	0.182	0.182	1.65	1.00	1.00	02/23/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/23/16	KCA	1
Acetone	60.3	DS 4.21	4.21	143	10.0	10.0	02/23/16	KCA	10
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/23/16	KCA	1
Benzene	0.345	0.313	0.313	1.10	1.00	1.00	02/23/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/23/16	KCA	1

Client ID: SS-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/23/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/23/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/23/16	KCA	1
Carbon Disulfide	9.51	0.321	0.321	29.6	1.00	1.00	02/23/16	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	02/23/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/23/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/23/16	KCA	1
Chloroform	0.946	0.205	0.205	4.62	1.00	1.00	02/23/16	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	02/23/16	KCA	1
Cis-1,2-Dichloroethene	0.958	0.252	0.252	3.80	1.00	1.00	02/23/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/23/16	KCA	1
Cyclohexane	0.413	0.291	0.291	1.42	1.00	1.00	02/23/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/23/16	KCA	1
Dichlorodifluoromethane	0.598	0.202	0.202	2.96	1.00	1.00	02/23/16	KCA	1
Ethanol	7.91	S 0.531	0.531	14.9	1.00	1.00	02/23/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1 1
Ethylbenzene	0.815	0.230	0.230	3.54	1.00	1.00	02/23/16	KCA	1
Heptane	0.838	0.244	0.244	3.43	1.00	1.00	02/23/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/23/16	KCA	1
Hexane	2.02	S 0.284	0.284	7.12	1.00	1.00	02/23/16	KCA	1
Isopropylalcohol	0.731	S 0.407	0.407	1.80	1.00	1.00	02/23/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/23/16	KCA	1
m,p-Xylene	3.30	0.230	0.230	14.3	1.00	1.00	02/23/16	KCA	1
Methyl Ethyl Ketone	2.27	0.339	0.339	6.69	1.00	1.00	02/23/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/23/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/23/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1 1
o-Xylene	1.60	0.230	0.230	6.94	1.00	1.00	02/23/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/23/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/23/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/23/16	KCA	1
Tetrachloroethene	126	D 0.369	0.369	854	2.50	2.50	02/23/16	KCA	10
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/23/16	KCA	1 1
Toluene	2.51	0.266	0.266	9.45	1.00	1.00	02/23/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/23/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/23/16	KCA	1
Trichloroethene	2.63	0.047	0.047	14.1	0.25	0.25	02/23/16	KCA	1
Trichlorofluoromethane	0.271	0.178	0.178	1.52	1.00	1.00	02/23/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/23/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/23/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	111	%	%	111	%	%	02/23/16	KCA	1

Client ID: SS-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

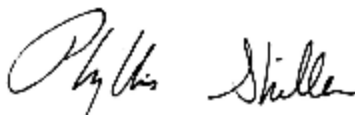
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 219

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:56
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67669

Project ID: 218 LAKEVILLE RD
Client ID: IA-9

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	2.36	S 0.421	0.421	5.60	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-9

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.092	0.040	0.040	0.58	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.695	0.485	0.485	1.43	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.531	0.202	0.202	2.62	1.00	1.00	02/22/16	KCA	1
Ethanol	43.3	ES 0.531	0.531	81.5	1.00	1.00	02/22/16	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.574	S 0.407	0.407	1.41	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.882	0.037	0.037	5.98	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Toluene	0.284	0.266	0.266	1.07	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.240	0.178	0.178	1.35	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	94	%	%	94	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

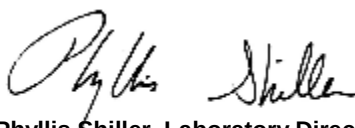
Comments:

E = Estimated value quantitated above calibration range for this compound.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 12855

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:16
02/19/16 16:00

Time

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67670

Project ID: 218 LAKEVILLE RD
Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	02/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	02/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	02/22/16	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	02/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	02/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	02/22/16	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Acetone	3.05	S 0.421	0.421	7.24	1.00	1.00	02/22/16	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	02/22/16	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	02/22/16	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	02/22/16	KCA	1

Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	02/22/16	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	02/22/16	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	02/22/16	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	02/22/16	KCA	1
Carbon Tetrachloride	0.080	0.040	0.040	0.50	0.25	0.25	02/22/16	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	02/22/16	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	02/22/16	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	02/22/16	KCA	1
Chloromethane	0.685	0.485	0.485	1.41	1.00	1.00	02/22/16	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	02/22/16	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	02/22/16	KCA	1
Dichlorodifluoromethane	0.524	0.202	0.202	2.59	1.00	1.00	02/22/16	KCA	1
Ethanol	13.5	S 0.531	0.531	25.4	1.00	1.00	02/22/16	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	02/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	02/22/16	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	02/22/16	KCA	1
Isopropylalcohol	0.798	S 0.407	0.407	1.96	1.00	1.00	02/22/16	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	02/22/16	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	02/22/16	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	02/22/16	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	02/22/16	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	02/22/16	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	02/22/16	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	02/22/16	KCA	1
Tetrachloroethene	0.685	0.037	0.037	4.64	0.25	0.25	02/22/16	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	02/22/16	KCA	1 1
Toluene	0.297	0.266	0.266	1.12	1.00	1.00	02/22/16	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	02/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	02/22/16	KCA	1
Trichloroethene	0.052	0.047	0.047	0.28	0.25	0.25	02/22/16	KCA	1
Trichlorofluoromethane	0.230	0.178	0.178	1.29	1.00	1.00	02/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	02/22/16	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	02/22/16	KCA	1
<u>QA/QC Surrogates</u>									
% Bromofluorobenzene	95	%	%	95	%	%	02/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

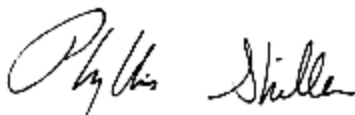
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 29, 2016

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE
Rush Request: Standard
P.O.#: IMPL 0115.4
Canister Id: 488

Custody Information

Collected by: JB/AE
Received by: SW
Analyzed by: see "By" below

Date

02/17/16 17:01
02/19/16 16:00

Time

Project ID: 218 LAKEVILLE RD
Client ID: SS-3

Laboratory Data

SDG ID: GBK67651
Phoenix ID: BK67671

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<u>Volatiles (TO15)</u>										
1,1,1,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10	1
1,1,1-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10	
1,1,2,2-Tetrachloroethane	ND	1.46	1.46	ND	10.0	10.0	02/23/16	KCA	10	
1,1,2-Trichloroethane	ND	1.83	1.83	ND	10.0	10.0	02/23/16	KCA	10	
1,1-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10	
1,1-Dichloroethene	ND	2.52	2.52	ND	10.0	10.0	02/23/16	KCA	10	
1,2,4-Trichlorobenzene	ND	1.35	1.35	ND	10.0	10.0	02/23/16	KCA	10	
1,2,4-Trimethylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10	
1,2-Dibromoethane(EDB)	ND	1.30	1.30	ND	10.0	10.0	02/23/16	KCA	10	
1,2-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10	
1,2-Dichloroethane	ND	2.47	2.47	ND	10.0	10.0	02/23/16	KCA	10	
1,2-dichloropropane	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10	
1,2-Dichlorotetrafluoroethane	ND	1.43	1.43	ND	10.0	10.0	02/23/16	KCA	10	
1,3,5-Trimethylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10	
1,3-Butadiene	ND	4.52	4.52	ND	10.0	10.0	02/23/16	KCA	10	
1,3-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10	
1,4-Dichlorobenzene	ND	1.66	1.66	ND	10.0	10.0	02/23/16	KCA	10	
1,4-Dioxane	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10	
2-Hexanone(MBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10	1
4-Ethyltoluene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10	1
4-Isopropyltoluene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10	1
4-Methyl-2-pentanone(MIBK)	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10	
Acetone	11.0	S 4.21	4.21	26.1	10.0	10.0	02/23/16	KCA	10	
Acrylonitrile	ND	4.61	4.61	ND	10.0	10.0	02/23/16	KCA	10	
Benzene	ND	3.13	3.13	ND	10.0	10.0	02/23/16	KCA	10	
Benzyl chloride	ND	1.93	1.93	ND	10.0	10.0	02/23/16	KCA	10	

Client ID: SS-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	1.49	1.49	ND	10.0	10.0	02/23/16	KCA	10
Bromoform	ND	0.968	0.968	ND	10.0	10.0	02/23/16	KCA	10
Bromomethane	ND	2.58	2.58	ND	10.0	10.0	02/23/16	KCA	10
Carbon Disulfide	ND	3.21	3.21	ND	10.0	10.0	02/23/16	KCA	10
Carbon Tetrachloride	ND	0.397	0.397	ND	2.50	2.50	02/23/16	KCA	10
Chlorobenzene	ND	2.17	2.17	ND	10.0	10.0	02/23/16	KCA	10
Chloroethane	ND	3.79	3.79	ND	10.0	10.0	02/23/16	KCA	10
Chloroform	ND	2.05	2.05	ND	10.0	10.0	02/23/16	KCA	10
Chloromethane	ND	4.85	4.85	ND	10.0	10.0	02/23/16	KCA	10
Cis-1,2-Dichloroethene	71.1	2.52	2.52	282	10.0	10.0	02/23/16	KCA	10
cis-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Cyclohexane	ND	2.91	2.91	ND	10.0	10.0	02/23/16	KCA	10
Dibromochloromethane	ND	1.17	1.17	ND	10.0	10.0	02/23/16	KCA	10
Dichlorodifluoromethane	3.00	2.02	2.02	14.8	10.0	10.0	02/23/16	KCA	10
Ethanol	ND	5.31	5.31	ND	10.0	10.0	02/23/16	KCA	10
Ethyl acetate	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Ethylbenzene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Heptane	ND	2.44	2.44	ND	10.0	10.0	02/23/16	KCA	10
Hexachlorobutadiene	ND	0.938	0.938	ND	10.0	10.0	02/23/16	KCA	10
Hexane	ND	2.84	2.84	ND	10.0	10.0	02/23/16	KCA	10
Isopropylalcohol	ND	4.07	4.07	ND	10.0	10.0	02/23/16	KCA	10
Isopropylbenzene	ND	2.04	2.04	ND	10.0	10.0	02/23/16	KCA	10
m,p-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Methyl Ethyl Ketone	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Methyl tert-butyl ether(MTBE)	ND	2.78	2.78	ND	10.0	10.0	02/23/16	KCA	10
Methylene Chloride	ND	2.88	2.88	ND	10.0	10.0	02/23/16	KCA	10
n-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
o-Xylene	ND	2.30	2.30	ND	10.0	10.0	02/23/16	KCA	10
Propylene	ND	5.81	5.81	ND	10.0	10.0	02/23/16	KCA	10
sec-Butylbenzene	ND	1.82	1.82	ND	10.0	10.0	02/23/16	KCA	10
Styrene	ND	2.35	2.35	ND	10.0	10.0	02/23/16	KCA	10
Tetrachloroethene	407	D 1.11	1.11	2760	7.52	7.52	02/23/16	KCA	30
Tetrahydrofuran	ND	3.39	3.39	ND	10.0	10.0	02/23/16	KCA	10
Toluene	ND	2.66	2.66	ND	10.0	10.0	02/23/16	KCA	10
Trans-1,2-Dichloroethene	6.27	2.52	2.52	24.8	10.0	10.0	02/23/16	KCA	10
trans-1,3-Dichloropropene	ND	2.20	2.20	ND	10.0	10.0	02/23/16	KCA	10
Trichloroethene	85.5	0.466	0.466	459	2.50	2.50	02/23/16	KCA	10
Trichlorofluoromethane	ND	1.78	1.78	ND	10.0	10.0	02/23/16	KCA	10
Trichlorotrifluoroethane	ND	1.31	1.31	ND	10.0	10.0	02/23/16	KCA	10
Vinyl Chloride	ND	0.979	0.979	ND	2.50	2.50	02/23/16	KCA	10
<u>QA/OC Surrogates</u>									
% Bromofluorobenzene	102	%	%	102	%	%	02/23/16	KCA	10

Client ID: SS-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

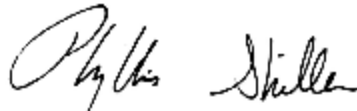
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 29, 2016

Reviewed and Released by: Jon Carlson, Project Manager



Environmental Laboratories, Inc.
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QA/QC Report

February 29, 2016

QA/QC Data

SDG I.D.: GBK67651

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits

QA/QC Batch 335625 (ppbv), QC Sample No: BK67659 (BK67653 (30X) , BK67659, BK67660 (10X, 30X) , BK67662 (10X, 30X) , BK67663 (10X, 30X) , BK67665, BK67668 (1X, 10X) , BK67671 (10X, 30X))

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	0.183	ND	1.00	112	8.34	7.96	1.53	1.46	4.7	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	0.183	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	0.247	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	0.252	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	105	14.1	13.8	2.86	2.81	1.8	70 - 130	20
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	0.166	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	0.247	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	0.216	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	95	4.05	3.78	0.825	0.770	6.9	70 - 130	20
1,3-Butadiene	ND	0.452	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	0.166	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	0.166	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	0.278	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	0.244	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	0.204	ND	1.00	96	2.37	2.32	0.483	0.472	2.3	70 - 130	20
4-Isopropyltoluene	ND	0.182	ND	1.00	94	1.01	1.04	0.185	0.189	2.1	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	110	1.05	0.85	0.256	0.208	20.7	70 - 130	20
Acetone	ND	0.421	ND	1.00	142	140	175	59.1	73.7	22.0	70 - 130	20
Acrylonitrile	ND	0.461	ND	1.00	86	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	0.313	ND	1.00	104	4.92	4.57	1.54	1.43	7.4	70 - 130	20
Benzyl chloride	ND	0.193	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	0.149	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	0.097	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	0.257	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	0.321	ND	1.00	103	5.10	4.79	1.64	1.54	6.3	70 - 130	20
Carbon Tetrachloride	ND	0.040	ND	0.25	113	0.46	0.41	0.073	0.066	10.1	70 - 130	20
Chlorobenzene	ND	0.217	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	0.379	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	0.205	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	0.484	ND	1.00	108	1.57	1.12	0.760	0.541	33.7	70 - 130	20
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	109	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	0.291	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	20
Dibromochloromethane	ND	0.117	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	0.202	ND	1.00	109	2.92	2.87	0.591	0.581	1.7	70 - 130	20

QA/QC Data

SDG I.D.: GBK67651

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethanol	ND	0.531	ND	1.00	115	29.2	27.3	15.5	14.5	6.7	70 - 130	20
Ethyl acetate	ND	0.278	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	0.230	ND	1.00	98	3.94	3.75	0.907	0.864	4.9	70 - 130	20
Heptane	ND	0.244	ND	1.00	105	6.59	6.02	1.61	1.47	9.1	70 - 130	20
Hexachlorobutadiene	ND	0.094	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	0.284	ND	1.00	109	9.09 S	8.63 S	2.58 S	2.45 S	5.2	70 - 130	20
Isopropylalcohol	ND	0.407	ND	1.00	95	2.85 S	2.70 S	1.16 S	1.10 S	5.3	70 - 130	20
Isopropylbenzene	ND	0.204	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	0.230	ND	1.00	102	14.1	13.7	3.25	3.15	3.1	70 - 130	20
Methyl Ethyl Ketone	ND	0.339	ND	1.00	109	9.8	9.11	3.34	3.09	7.8	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	0.288	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	20
n-Butylbenzene	ND	0.182	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	0.230	ND	1.00	96	6.73	6.16	1.55	1.42	8.8	70 - 130	20
Propylene	ND	0.581	ND	1.00	110	22.2	21.5	12.9	12.5	3.1	70 - 130	20
sec-Butylbenzene	ND	0.182	ND	1.00	79	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	0.235	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	0.037	ND	0.25	103	3.20	2.93	0.472	0.432	8.8	70 - 130	20
Tetrahydrofuran	ND	0.339	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	0.266	ND	1.00	102	14.6	14.2	3.87	3.76	2.9	70 - 130	20
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	0.047	ND	0.25	104	0.39	0.39	0.072	0.072	0.0	70 - 130	20
Trichlorofluoromethane	ND	0.178	ND	1.00	105	1.77	1.78	0.315	0.317	0.6	70 - 130	20
Trichlorotrifluoroethane	ND	0.131	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	0.098	ND	0.25	112	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	106	%	106	%	103	103	102	103	102	1.0	70 - 130	20

QA/QC Batch 335619 (ppbv), QC Sample No: BK67666 (BK67651, BK67652, BK67653 (10X) , BK67654, BK67655 (10X) , BK67656, BK67657, BK67658 (10X) , BK67661, BK67664, BK67666, BK67667, BK67669, BK67670)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	0.183	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	0.183	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	0.247	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	0.252	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	100	14.3	13.3	2.92	2.71	7.5	70 - 130	20
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	0.166	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	0.247	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	0.216	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	101	4.20	4.26	0.854	0.867	1.5	70 - 130	20
1,3-Butadiene	ND	0.452	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	0.166	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	0.166	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	0.278	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	0.244	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	0.204	ND	1.00	102	2.60	2.21	0.530	0.449	16.5	70 - 130	20
4-Isopropyltoluene	ND	0.182	ND	1.00	97	1.31	1.10	0.239	0.200	17.8	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20

QA/QC Data

SDG I.D.: GBK67651

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Acetone	ND	0.421	ND	1.00	89	22.1	26.1	9.32	11.0	16.5	70 - 130	20
Acrylonitrile	ND	0.461	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	0.313	ND	1.00	99	2.96	3.35	0.927	1.05	12.4	70 - 130	20
Benzyl chloride	ND	0.193	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	0.149	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	0.097	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	0.257	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	0.321	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	0.040	ND	0.25	104	0.43	0.41	0.068	0.066	3.0	70 - 130	20
Chlorobenzene	ND	0.217	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	0.379	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	0.205	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	0.484	ND	1.00	96	ND	1.69	ND	0.821	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	0.291	ND	1.00	97	3.96	4.13	1.15	1.20	4.3	70 - 130	20
Dibromochloromethane	ND	0.117	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	0.202	ND	1.00	104	2.47	2.55	0.500	0.516	3.1	70 - 130	20
Ethanol	ND	0.531	ND	1.00	104	13.8	13.4	7.31	7.12	2.6	70 - 130	20
Ethyl acetate	ND	0.278	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	0.230	ND	1.00	101	4.69	4.56	1.08	1.05	2.8	70 - 130	20
Heptane	ND	0.244	ND	1.00	102	5.73	6.06	1.40	1.48	5.6	70 - 130	20
Hexachlorobutadiene	ND	0.094	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	0.284	ND	1.00	104	6.76 S	6.90 S	1.92 S	1.96 S	2.1	70 - 130	20
Isopropylalcohol	ND	0.407	ND	1.00	95	1.28 S	1.35 S	0.522 S	0.551 S	5.4	70 - 130	20
Isopropylbenzene	ND	0.204	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	0.230	ND	1.00	106	15.4	15.1	3.54	3.48	1.7	70 - 130	20
Methyl Ethyl Ketone	ND	0.339	ND	1.00	101	1.06	1.11	0.358	0.377	5.2	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	0.288	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
n-Butylbenzene	ND	0.182	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	0.230	ND	1.00	100	7.33	7.29	1.69	1.68	0.6	70 - 130	20
Propylene	ND	0.581	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	20
sec-Butylbenzene	ND	0.182	ND	1.00	75	12.1	11.2	2.20	2.04	7.5	70 - 130	20
Styrene	ND	0.235	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	0.037	ND	0.25	105	0.39	0.41	0.058	0.060	3.4	70 - 130	20
Tetrahydrofuran	ND	0.339	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	0.266	ND	1.00	101	18.3	18.9	4.87	5.02	3.0	70 - 130	20
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	0.047	ND	0.25	103	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	0.178	ND	1.00	104	2.17	2.23	0.387	0.397	2.6	70 - 130	20
Trichlorotrifluoroethane	ND	0.131	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	0.098	ND	0.25	101	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	108	%	108	%	105	99	97	99	97	2.0	70 - 130	20

QA/QC Batch 335817 (ppbv), QC Sample No: BK68461 (BK67655 (150X) , BK67658 (75X) , BK67659 (5X))

Volatiles

Acetone	ND	0.421	ND	1.00	97	5.39 S	5.22 S	2.27 S	2.20 S	3.1	70 - 130	20
Tetrachloroethene	ND	0.037	ND	0.25	92	0.94	0.56	0.138	0.082	50.9	70 - 130	20

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

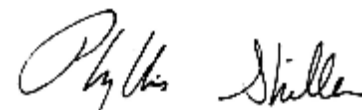
QA/QC Data

SDG I.D.: GBK67651

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
February 29, 2016

Sample Criteria Exceedences Report

Criteria: None

GBK67651 - WALDENE

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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CHAIN OF CUSTODY RECORD

AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # IMPL 0115.4 Page 1 of 3

Data Delivery:

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Report to: Nora Brew	Invoice to: same	Project Name: 218 Lakeville Rd.
Customer: Walden Associates		Requested Deliverable: RCP ☒ ASP CAT B ☒
Address: 16 Spring Street		MCP ☐ NJ Deliverables ☐
Oyster Bay, NY 11771	Sampled by: Jessica Bluth / Ashley Erdmann	State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (Psi)	Incoming Canister Pressure (Psi)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (Psi)	Canister Pressure at End (Psi)	Matrix	Soil Gas	Ambient/Indoor Air	Grab (C) Composite (C)	TO-14	TO-15
THIS SECTION FOR LAB USE ONLY																		
071051	IA-3	222	6.0	-30	-40	5706347		1434	16530	2/17/16	-30	-6.5	X	C	X			
071052	IA-8	12866	6.0	-30	-13	5647		1605	1627	2/17/16	-30	-15	X	C	X			
071053	SS-5	217	6.0	-30	-7	3055		1252	15534	2/17/16	-30	-7	X	C	X			
071054	AA-2	469	6.0	-30	-4	3051		1640	17333	2/17/16	-29.5	-6	X	C	X			
071055	SS-6	216	6.0	-30	-7	3050		1304	1607	2/17/16	-30	-8	X	C	X			
071056	IA-6	9767	6.0	-30	-8	5650		1303	1614	2/17/16	-29	-8	X	C	X			
		13610	6.0	-30		5946												
071057	IA-5	457	6.0	-30	-9	4986		1253	1557	2/17/16	-30	-10.5	X	C	X			
071058	SS-2	11257	6.0	-30	-5	5060	✓	1517	1716	2/17/16	-30	-5	X	C	X			
	6L 24hrs ①																	

Relinquished by: [Signature]	Accepted by: [Signature]	Date: 2-19-16	Time: 10:45
Data Format: ☐ Excel ☒ PDF		Equis ☒ Other: ☐	
Requested Criteria		GISKey ☐	

SPECIAL INSTRUCTIONS OR REQUIREMENTS, REGULATORY INFORMATION:

Ind. certified cans

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

Signature: _____ Date: _____



587 East Middle Turnpike, P.O. Box 170, Manchester, CT 06040
Telephone: 860/645-1102 • Fax: 860/645-0823

CHAIN OF CUSTODY RECORD

AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # IMPL 0115.4 Page 2 of 3

Data Delivery:

☐ Fax #:

☐ Email:

☐ Phone #:

Report to: Nora Brew	Invoice to: same	Project Name: 218 Lakeville Rd.
Customer: Walden Associates		Requested Deliverable: RCP ☐ ASP CAT B ☒
Address: 16 Spring Street		MCP ☐ NJ Deliverables ☐
Oyster Bay, NY 11771	Sampled by: Jessica Bluth/Ashley Erdmann	State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		12872	6.0	-30	-30	4498	347										
0710054	SS-8	223	6.0	-30	-8	4960		1606	1806	2/17/16	-30	-11		X	C		X
0710060	SS-9	221	6.0	-30	-6	4981		1531	1746	2/17/16	-30	-10		X	C		X
0710061	AA-1	367	6.0	-30	-5	4985		1649	1738	2/17/16	-30	-7	X		C		X
0710062	SS-1	368	6.0	-30	-1	5356		1629	1759	2/17/16	-30	-2.5		X	C		X
0710063	SS-4	12867	6.0	-30	-4	5350		1531	1745	2/17/16	-30	-6		X	C		X
0710064	IA-1	13650	6.0	-30	-3	4954		1629	1753	2/17/16	-30	-4.5	X		C		X
0710065	IA-7	12862	6.0	-30	-7	5709		1420	1646	2/17/16	-29	-8	X		C		X
0710066	AA-3	492	6.0	-30	-3	4490		1640	1733	2/17/16	-29.5	-3	X		C		X
	6.0 24hrs ②																

Relinquished by: Joe B. 2/18/16 19:00	Accepted by: [Signature]	Date: 2-19-16	Time: 10:45
SPECIAL INSTRUCTIONS, REQUIREMENTS, REGULATORY INFORMATION: Ind. certified cans		Requested Criteria: TCHNRM	Data Format: Excel ☐ PDF ☒
Equis ☒ Other: ☐		GISKey ☐	

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

Signature: _____ Date: _____



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CHAIN OF CUSTODY RECORD AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # IMPL 0115.4 Page 3 of 3

Data Delivery:

☐ Fax #:
☐ Email:
☐ Phone #:

Report to: Nora Brew	Invoice to: game	Project Name: 218 Lakeville Rd.
Customer: Walden Associates		Requested Deliverable: RCP ☐ ASP CAT B ☒
Address: 16 Spring Street		MCP ☐ NJ Deliverables ☐
Oyster Bay, NY 11771	Sampled by: Jessica Bluth/Ashley Erdmann	State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (H ₂ O)	Incoming Canister Pressure (H ₂ O)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (H ₂ O)	Canister Pressure at End (H ₂ O)	Matrix	Soil Gas	Grab (C) Composite (C)	TO-14	TO-15
THIS SECTION FOR LAB USE ONLY																	
07100071	IA-4	13651	6.0	-30	0	4990	3.47	15340	1744	2/17/16	-28	-2	X	C		X	
07100072	SS-7	489	6.0	-30	0	4989		1415	1643	2/17/16	-30	-10.5		X			
07100091	IA-9	172	6.0	-30	-7	5673		1629	1756	2/17/16	-30	-10		C		X	
07100101	IA-2	219	6.0	-30	-4	4993		1519	1716	2/17/16	-30	-5		C		X	
0710011	SS-3	488	6.0	-30	-3	4982		1439	1701	2/17/16	-30	-4.5		X		X	

Relinquished by: [Signature]	Accepted by: [Signature]	Date: 2-19-16	Time: 10:45	Data Format: Excel ☐ PDF ☒	Equis ☒ Other: ☐	GISKey ☐

SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION:

Ind. Certified cars

Requested Criteria

Quote Number: _____

Signature: _____

Date: _____

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.



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NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Walden Environmental Engineering PLLC

218 LAKEVILLE RD

Laboratory Project: GBK67651

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL):	Limit of Detection or Method Detection Limit The minimum reportable concentration that can be measured with confidence.
PQL(RL):	Practical Quantitation Level or Reporting Level This value is at or above the MDL and is supported by the lowest calibration standard.
Q Qualifiers:	U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors. J - The value is estimated. This flag is used a) on form 1 when the compound is reported above the MDL, but below the PQL, and b) on the Tentatively Identified Compound (TIC) form for all compounds identified X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause. JL- The value is estimated. This flag is used on the form 1 when a compound is evaluated to the requested criteria. This value may be below the MDL. N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified. S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level. B - This compound was also present in the method blank D - The reported concentration is the result of a diluted analysis. E - The reported value is estimated because the concentration exceeded the calibration range. A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GBK67651

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 218 LAKEVILLE RD, Walden Environmental Engineering PLLC

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: BK67666 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: BK67659 LCS
All LCS recoveries met criteria with the following exceptions: Acetone 142%

Sample: BK68461 LCS
All LCS recoveries met criteria with the following exceptions: cis-1,3-Dichloropropene 182%, 4-Methyl-2-pentanone(MIBK) 238%

Form 4 (Method Blank):

File: CHEM20 0222_06.D
All compounds were non-detect with the following exceptions: None.

File: CHEM20 0222_30.D
All compounds were non-detect with the following exceptions: None.

File: CHEM24 0223_41.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0219_01.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0222_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0222_26.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0223_05.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0223_38.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 02/19/16 - 02/20/16 Sim Scan
The following compounds did not meet maximum % deviations: None.

SDG: GBK67651

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 218 LAKEVILLE RD, Walden Environmental Engineering PLLC

Calibration: CHEM20 02/19/16 - 02/20/16 Full Scan

The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 02/23/16 - 02/23/16 Sim Scan

The following compounds did not meet maximum % deviations: cis-1,3-Dichloropropene 34.6% (30)

Calibration: CHEM24 02/23/16 - 02/23/16 Full Scan

The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 0222_02.D

The following compounds did not meet maximum % deviations: sec-Butylbenzene 31.4% (30)

File: CHEM20 0222_03.D

The following compounds did not meet maximum % deviations: None.

File: CHEM20 0222_26.D

The following compounds did not meet maximum % deviations: sec-Butylbenzene 31.1% (30)

File: CHEM20 0222_27.D

The following compounds did not meet maximum % deviations: Acetone 35.4% (30)

File: CHEM20 0222_58.D

The following compounds did not meet maximum % deviations: Styrene 35.9% (30) , sec-Butylbenzene 30.4% (30)

File: CHEM20 0222_59.D

The following compounds did not meet maximum % deviations: Acetone 75.4% (30) , Bromoform 60.9% (30)

File: CHEM24 0223_38.D

The following compounds did not meet maximum % deviations: cis-1,3-Dichloropropene 34.0% (30)

File: CHEM24 0223_39.D

The following compounds did not meet maximum % deviations: cis-1,3-Dichloropropene 71.4% (30) , 4-Methyl-2-pentanone(MIBK) 123.6% (30)

File: CHEM24 0223_56.D

The following compounds did not meet maximum % deviations: cis-1,3-Dichloropropene 33.4% (30) , Tetrachloroethene 30.4% (30)

File: CHEM24 0223_57.D

The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 0219_10.D Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 0219_10.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 0222_02.D Sim



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GBK67651

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 218 LAKEVILLE RD, Walden Environmental Engineering PLLC

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 0222_03.D Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 0222_26.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 0222_27.D Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 0223_11.D Full

All samples met internal standard area and retention time criteria with the following exceptions:

0223_07.D - ICAL 0.05: 1,4-Difluorobenzene; Area 559166 (222004 - 524227)

File: CHEM24 - 0223_11.D Sim

All samples met internal standard area and retention time criteria with the following exceptions:

0223_07.D - ICAL 0.05: 1,4-Difluorobenzene; Area 646909 (260635 - 615450)

File: CHEM24 - 0223_38.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 0223_39.D Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

02/26/16

Jon Carlson

Project Manager

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: SDG: GBK67651
 QC Batch Id: 335625 QC Sample Id: BK67659

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	BK67659 LCS	BK67659 LCS	103				0
02	BK67659 BLANK	BK67659 BLANK	106				0
03	SS-8	BK67659	103				0
04	SS-8 DUP	BK67659 DUP	102				0
05	IA-7	BK67665	94				0
06	SS-9	BK67660 10X	101				0
07	SS-1	BK67662 10X	104				0
08	SS-4	BK67663 10X	101				0
09	SS-7 DIL	BK67668 10X	109				0
10	SS-3	BK67671 10X	102				0
11	SS-7	BK67668	111				0
12	SS-5 DIL	BK67653 30X	103				0
13	SS-9 DIL	BK67660 30X	104				0
14	SS-1 DIL	BK67662 30X	102				0
15	SS-4 DIL	BK67663 30X	105				0
16	SS-3 DIL	BK67671 30X	104				0
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

SMC1	BFB	Bromofluorobenzene	QC LIMITS (70-130)

FORM II AIR

Lab Name:	Phoenix Environmental Labs	Client:	WALDENE
Lab Code:	Phoenix	Case No.:	SDG: GBK67651
QC Batch Id:	335619	QC Sample Id:	BK67666

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	BK67666 LCS	BK67666 LCS	105				0
02	BK67666 BLANK	BK67666 BLANK	108				0
03	IA-3	BK67651	97				0
04	AA-2	BK67654	99				0
05	IA-6	BK67656	99				0
06	IA-5	BK67657	97				0
07	AA-1	BK67661	99				0
08	IA-1	BK67664	94				0
09	AA-3	BK67666	99				0
10	AA-3 DUP	BK67666 DUP	97				0
11	IA-4	BK67667	96				0
12	IA-8	BK67652	100				0
13	IA-9	BK67669	94				0
14	IA-2	BK67670	95				0
15	SS-5	BK67653 10X	104				0
16	SS-6	BK67655 10X	102				0
17	SS-2	BK67658 10X	102				0
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

SMC1	BFB	Bromofluorobenzene	QC LIMITS (70-130)

FORM II AIR

Lab Name:	Phoenix Environmental Labs	Client:	WALDENE
Lab Code:	Phoenix	Case No.:	SDG: GBK67651
QC Batch Id:	335817	QC Sample Id:	BK68461

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	BK68461 LCS	BK68461 LCS	99				0
02	BK68461 BLANK	BK68461 BLANK	99				0
03	SS-6 DIL	BK67655 150X	102				0
04	SS-2 DIL	BK67658 75X	101				0
05	SS-8 DIL	BK67659 5X	100				0
06	BK68461 QC	BK68461	103				0
07	BK68461 DUP	BK68461 DUP	101				0
08							
09							
10							
11							
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13							
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29							
30							

SMC1	BFB	Bromofluorobenzene	QC LIMITS (70-130)

FORM II AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBK67651
 LCS - Client Id: BK67659 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		11.04	110	70	130
Dichlorodifluoromethane	10		10.91	109	70	130
Chloromethane	10		10.76	108	70	130
1,2-Dichlorotetrafluoroethane	10		11.66	117	70	130
Vinyl Chloride	10		11.22	112	70	130
1,3-Butadiene	10		11.47	115	70	130
Bromomethane	10		11.13	111	70	130
Chloroethane	10		10.82	108	70	130
Ethanol	10		11.54	115	70	130
Acetone	10		14.19	142 *	70	130
Trichlorofluoromethane	10		10.47	105	70	130
Isopropylalcohol	10		9.529	95	70	130
Acrylonitrile	10		8.649	86	70	130
1,1-Dichloroethene	10		10.45	105	70	130
Methylene Chloride	10		10.88	109	70	130
Carbon Disulfide	10		10.27	103	70	130
Trichlorotrifluoroethane	10		10.22	102	70	130
Trans-1,2-Dichloroethene	10		10.76	108	70	130
1,1-Dichloroethane	10		10.54	105	70	130
Methyl tert-butyl ether(MTBE)	10		10.26	103	70	130
Methyl Ethyl Ketone	10		10.90	109	70	130
Cis-1,2-Dichloroethene	10		10.87	109	70	130
Hexane	10		10.93	109	70	130
Chloroform	10		11.06	111	70	130
Ethyl acetate	10		11.16	112	70	130
Tetrahydrofuran	10		10.98	110	70	130
1,2-Dichloroethane	10		11.70	117	70	130
1,1,1-Trichloroethane	10		11.17	112	70	130
Benzene	10		10.40	104	70	130
Carbon Tetrachloride	10		11.31	113	70	130
Cyclohexane	10		10.85	109	70	130
1,2-dichloropropane	10		10.30	103	70	130
Bromodichloromethane	10		10.60	106	70	130
Trichloroethene	10		10.37	104	70	130
1,4-Dioxane	10		9.498	95	70	130
Heptane	10		10.54	105	70	130
cis-1,3-Dichloropropene	10		9.842	98	70	130
4-Methyl-2-pentanone(MIBK)	10		10.99	110	70	130
trans-1,3-Dichloropropene	10		10.80	108	70	130
1,1,2-Trichloroethane	10		10.47	105	70	130
Toluene	10		10.23	102	70	130
Dibromochloromethane	10		10.63	106	70	130
2-Hexanone(MBK)	10		10.79	108	70	130
1,2-Dibromoethane(EDB)	10		10.81	108	70	130
Tetrachloroethene	10		10.26	103	70	130

LCS - Client Id: BK67659 LCS

[illegible]

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBK67651
 LCS - Client Id: BK67666 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		10.48	105	70	130
Dichlorodifluoromethane	10		10.39	104	70	130
Chloromethane	10		9.604	96	70	130
1,2-Dichlorotetrafluoroethane	10		10.44	104	70	130
Vinyl Chloride	10		10.15	102	70	130
1,3-Butadiene	10		10.07	101	70	130
Bromomethane	10		10.26	103	70	130
Chloroethane	10		9.951	100	70	130
Ethanol	10		10.41	104	70	130
Acetone	10		8.908	89	70	130
Trichlorofluoromethane	10		10.36	104	70	130
Isopropylalcohol	10		9.532	95	70	130
Acrylonitrile	10		8.867	89	70	130
1,1-Dichloroethene	10		10.19	102	70	130
Methylene Chloride	10		10.40	104	70	130
Carbon Disulfide	10		10.21	102	70	130
Trichlorotrifluoroethane	10		10.26	103	70	130
Trans-1,2-Dichloroethene	10		10.23	102	70	130
1,1-Dichloroethane	10		10.11	101	70	130
Methyl tert-butyl ether(MTBE)	10		10.11	101	70	130
Methyl Ethyl Ketone	10		10.11	101	70	130
Cis-1,2-Dichloroethene	10		10.04	100	70	130
Hexane	10		10.43	104	70	130
Chloroform	10		10.35	104	70	130
Ethyl acetate	10		10.14	101	70	130
Tetrahydrofuran	10		9.936	99	70	130
1,2-Dichloroethane	10		10.35	104	70	130
1,1,1-Trichloroethane	10		10.37	104	70	130
Benzene	10		9.934	99	70	130
Carbon Tetrachloride	10		10.40	104	70	130
Cyclohexane	10		9.715	97	70	130
1,2-dichloropropane	10		10.06	101	70	130
Bromodichloromethane	10		10.61	106	70	130
Trichloroethene	10		10.29	103	70	130
1,4-Dioxane	10		9.890	99	70	130
Heptane	10		10.22	102	70	130
cis-1,3-Dichloropropene	10		11.24	112	70	130
4-Methyl-2-pentanone(MIBK)	10		10.16	102	70	130
trans-1,3-Dichloropropene	10		10.69	107	70	130
1,1,2-Trichloroethane	10		10.20	102	70	130
Toluene	10		10.15	102	70	130
Dibromochloromethane	10		10.84	108	70	130
2-Hexanone(MBK)	10		10.36	104	70	130
1,2-Dibromoethane(EDB)	10		10.62	106	70	130
Tetrachloroethene	10		10.50	105	70	130

Lab Code: Phoenix Case No: SAS No: SDG No: GBK67651

[illegible]

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBK67651
 LCS - Client Id: BK68461 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		10.15	102	70	130
Dichlorodifluoromethane	10		9.589	96	70	130
Chloromethane	10		10.55	106	70	130
1,2-Dichlorotetrafluoroethane	10		9.774	98	70	130
Vinyl Chloride	10		10.44	104	70	130
1,3-Butadiene	10		10.35	104	70	130
Bromomethane	10		10.25	103	70	130
Chloroethane	10		10.61	106	70	130
Ethanol	10		9.248	92	70	130
Acetone	10		9.730	97	70	130
Trichlorofluoromethane	10		10.98	110	70	130
Isopropylalcohol	10		10.15	102	70	130
Acrylonitrile	10		8.890	89	70	130
1,1-Dichloroethene	10		10.31	103	70	130
Methylene Chloride	10		10.06	101	70	130
Carbon Disulfide	10		10.55	106	70	130
Trichlorotrifluoroethane	10		10.75	108	70	130
Trans-1,2-Dichloroethene	10		10.36	104	70	130
1,1-Dichloroethane	10		10.14	101	70	130
Methyl tert-butyl ether(MTBE)	10		10.04	100	70	130
Methyl Ethyl Ketone	10		9.999	100	70	130
Cis-1,2-Dichloroethene	10		10.19	102	70	130
Hexane	10		9.897	99	70	130
Chloroform	10		10.33	103	70	130
Ethyl acetate	10		10.02	100	70	130
Tetrahydrofuran	10		10.00	100	70	130
1,2-Dichloroethane	10		10.40	104	70	130
1,1,1-Trichloroethane	10		10.47	105	70	130
Benzene	10		9.907	99	70	130
Carbon Tetrachloride	10		10.53	105	70	130
Cyclohexane	10		9.629	96	70	130
1,2-dichloropropane	10		10.15	102	70	130
Bromodichloromethane	10		10.73	107	70	130
Trichloroethene	10		10.54	105	70	130
1,4-Dioxane	10		10.82	108	70	130
Heptane	10		10.31	103	70	130
cis-1,3-Dichloropropene	10		18.23	182 *	70	130
4-Methyl-2-pentanone(MIBK)	10		23.76	238 *	70	130
trans-1,3-Dichloropropene	10		10.02	100	70	130
1,1,2-Trichloroethane	10		9.511	95	70	130
Toluene	10		9.510	95	70	130
Dibromochloromethane	10		9.793	98	70	130
2-Hexanone(MBK)	10		10.11	101	70	130
1,2-Dibromoethane(EDB)	10		9.407	94	70	130
Tetrachloroethene	10		9.210	92	70	130

LCS - Client Id: BK68461 LCS

[illegible]

4A
AIR METHOD BLANK SUMMARY

Client ID

BK67659 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBK67651

Lab File ID: 0222_30.D

Lab Sample ID: BK67659 BLK

Date Analyzed: 02/23/2016

Time Analyzed: 06:10

GC Column: zb-1ms

Lab Batch ID: 335625

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BK67659 LCS	BK67659 LCS	0222_28.D	05:03
02	SS-8	BK67659	0222_31.D	07:03
03	SS-8 DUP	BK67659 DUP	0222_32.D	07:43
04	IA-7	BK67665	0222_36.D	10:43
05	SS-9	BK67660 10X	0222_37.D	11:20
06	SS-1	BK67662 10X	0222_38.D	11:57
07	SS-4	BK67663 10X	0222_39.D	12:33
08	SS-7 DIL	BK67668 10X	0222_40.D	13:10
09	SS-3	BK67671 10X	0222_41.D	13:47
10	SS-7	BK67668	0222_42.D	14:58
11	SS-5 DIL	BK67653 30X	0222_46.D	17:30
12	SS-9 DIL	BK67660 30X	0222_49.D	19:17
13	SS-1 DIL	BK67662 30X	0222_50.D	19:53
14	SS-4 DIL	BK67663 30X	0222_51.D	20:29
15	SS-3 DIL	BK67671 30X	0222_52.D	21:06
16				
17				
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20				

COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

BK67666 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBK67651

Lab File ID: 0222_06.D

Lab Sample ID: BK67666 BLK

Date Analyzed: 02/22/2016

Time Analyzed: 10:03

GC Column: zb-1ms

Lab Batch ID: 335619

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BK67666 LCS	BK67666 LCS	0222_04.D	08:56
02	IA-3	BK67651	0222_07.D	11:13
03	AA-2	BK67654	0222_08.D	11:51
04	IA-6	BK67656	0222_09.D	12:30
05	IA-5	BK67657	0222_10.D	13:10
06	AA-1	BK67661	0222_11.D	13:49
07	IA-1	BK67664	0222_12.D	18:09
08	AA-3	BK67666	0222_14.D	20:22
09	AA-3 DUP	BK67666 DUP	0222_15.D	21:01
10	IA-4	BK67667	0222_16.D	21:39
11	IA-8	BK67652	0222_17.D	22:21
12	IA-9	BK67669	0222_18.D	23:01
13	IA-2	BK67670	0222_19.D	23:40
14	SS-5	BK67653 10X	0222_20.D	00:17
15	SS-6	BK67655 10X	0222_21.D	00:54
16	SS-2	BK67658 10X	0222_22.D	01:31
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

BK68461 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBK67651

Lab File ID: 0223_41.D

Lab Sample ID: BK68461 BLK

Date Analyzed: 02/24/2016

Time Analyzed: 06:57

GC Column: zb-1ms

Lab Batch ID: 335817

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BK68461 LCS	BK68461 LCS	0223_40.D	06:31
02	SS-6 DIL	BK67655 150X	0223_46.D	10:50
03	SS-2 DIL	BK67658 75X	0223_48.D	11:46
04	SS-8 DIL	BK67659 5X	0223_49.D	12:15
05	BK68461 QC	BK68461	0223_50.D	12:47
06	BK68461 DUP	BK68461 DUP	0223_51.D	13:19
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COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Lab File ID: 0219_01.D BFB Injection Date: 02/19/16

Instrument ID: CHEM20 BFB Injection Time: 16:50

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1041, 1042, 1043; Background Corrected with Scan 1036

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.8
75	30.0 - 66.0% of mass 95	44.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 120.0% of mass 95	101.0
175	4.0 - 9.0% of mass 174	7.5 (7.5)1
176	93.0 - 101.0% of mass 174	97.5 (98.5)1
177	5.0 - 9.0% of mass 176	6.6 (6.5)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.035	0.035ppb	0219_05.D	02/19/16	19:27	
02	ICAL 0.05	0.05ppb	0219_06.D	02/19/16	20:07	
03	ICAL 0.1	0.10ppb	0219_07.D	02/19/16	20:47	
04	ICAL 0.2	0.2ppb	0219_08.D	02/19/16	21:27	
05	ICAL 0.5	0.5ppb	0219_09.D	02/19/16	22:09	
06	ICAL 1	1.0ppb	0219_10.D	02/19/16	22:51	
07	ICAL 2.5	2.5ppb	0219_11.D	02/19/16	23:28	
08	ICAL 5	5.0ppb	0219_12.D	02/20/16	00:03	
09	ICAL 10	10ppb	0219_13.D	02/20/16	00:38	
10	ICAL 25	25ppb	0219_14.D	02/20/16	01:15	
11	ICAL 40	40ppb	0219_15.D	02/20/16	01:54	
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(*) Outside 24 hr clock

FORM V AIR

tuner0219_01.txt
CLPBFB

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_01.D
Acq On : 19 Feb 2016 04:50 pm
Operator : CORTEX\ms
Sample : 0/0
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2016\CHEM20\Methods\CTMANYNJ_0219.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Feb 23 08:34:06 2016

AutoFind: Scans 1041, 1042, 1043; Background Corrected with Scan 1036

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	40555	PASS
75	95	30	66	44.4	101027	PASS
95	95	100	100	100.0	227755	PASS
96	95	5	9	6.7	15287	PASS
173	174	0.00	2	0.5	1229	PASS
174	95	50	120	101.0	230059	PASS
175	174	4	9	7.4	17133	PASS
176	174	93	101	97.5	224235	PASS
177	176	5	9	6.6	14850	PASS

CTMANYNJ_0219.M Thu Feb 25 16:39:58 2016

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Lab File ID: 0222_02.D BFB Injection Date: 02/22/16

Instrument ID: CHEM20 BFB Injection Time: 07:43

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1049, 1050, 1051; Background Corrected with Scan 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.1
75	30.0 - 66.0% of mass 95	46.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	94.1
175	4.0 - 9.0% of mass 174	7.3 (6.8)1
176	93.0 - 101.0% of mass 174	96.5 (90.8)1
177	5.0 - 9.0% of mass 176	6.7 (6.1)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0ppb	0222_02.D	02/22/16	07:43	
02	CCAL 10	10ppb	0222_03.D	02/22/16	08:19	
03	BK67666 LCS	BK67666 LCS	0222_04.D	02/22/16	08:56	
04	BK67666 BLANK	BK67666 BLANK	0222_06.D	02/22/16	10:03	
05	IA-3	BK67651	0222_07.D	02/22/16	11:13	
06	AA-2	BK67654	0222_08.D	02/22/16	11:51	
07	IA-6	BK67656	0222_09.D	02/22/16	12:30	
08	IA-5	BK67657	0222_10.D	02/22/16	13:10	
09	AA-1	BK67661	0222_11.D	02/22/16	13:49	
10	IA-1	BK67664	0222_12.D	02/22/16	18:09	
11	AA-3	BK67666	0222_14.D	02/22/16	20:22	
12	AA-3 DUP	BK67666 DUP	0222_15.D	02/22/16	21:01	
13	IA-4	BK67667	0222_16.D	02/22/16	21:39	
14	IA-8	BK67652	0222_17.D	02/22/16	22:21	
15	IA-9	BK67669	0222_18.D	02/22/16	23:01	
16	IA-2	BK67670	0222_19.D	02/22/16	23:40	
17	SS-5	BK67653 10X	0222_20.D	02/23/16	00:17	
18	SS-6	BK67655 10X	0222_21.D	02/23/16	00:54	
19	SS-2	BK67658 10X	0222_22.D	02/23/16	01:31	
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(*) Outside 24 hr clock

FORM V AIR

tuner0222_02.txt
CLPBFB

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_02.D
Acq On : 22 Feb 2016 07:43 am
Operator : CORTEX\ms
Sample : 1.0ppb
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Feb 22 10:19:05 2016

AutoFind: Scans 1049, 1050, 1051; Background Corrected with Scan 1044

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.1	34389	PASS
75	95	30	66	46.1	83072	PASS
95	95	100	100	100.0	180171	PASS
96	95	5	9	7.0	12595	PASS
173	174	0.00	2	0.6	1042	PASS
174	95	50	120	94.1	169629	PASS
175	174	4	9	7.3	12326	PASS
176	174	93	101	96.5	163616	PASS
177	176	5	9	6.7	10929	PASS

CTMANYNJ_0219.M Tue Feb 23 07:58:38 2016

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Lab File ID: 0222_26.D BFB Injection Date: 02/23/16

Instrument ID: CHEM20 BFB Injection Time: 03:50

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1049, 1050, 1051; Background Corrected with Scan 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.3
75	30.0 - 66.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	50.0 - 120.0% of mass 95	87.4
175	4.0 - 9.0% of mass 174	7.2 (6.3)1
176	93.0 - 101.0% of mass 174	97.0 (84.7)1
177	5.0 - 9.0% of mass 176	6.5 (5.5)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0ppb	0222_26.D	02/23/16	03:50	
02	CCAL 10	10ppb	0222_27.D	02/23/16	04:26	
03	BK67659 LCS	BK67659 LCS	0222_28.D	02/23/16	05:03	
04	BK67659 BLANK	BK67659 BLANK	0222_30.D	02/23/16	06:10	
05	SS-8	BK67659	0222_31.D	02/23/16	07:03	
06	SS-8 DUP	BK67659 DUP	0222_32.D	02/23/16	07:43	
07	IA-7	BK67665	0222_36.D	02/23/16	10:43	
08	SS-9	BK67660 10X	0222_37.D	02/23/16	11:20	
09	SS-1	BK67662 10X	0222_38.D	02/23/16	11:57	
10	SS-4	BK67663 10X	0222_39.D	02/23/16	12:33	
11	SS-7 DIL	BK67668 10X	0222_40.D	02/23/16	13:10	
12	SS-3	BK67671 10X	0222_41.D	02/23/16	13:47	
13	SS-7	BK67668	0222_42.D	02/23/16	14:58	
14	SS-5 DIL	BK67653 30X	0222_46.D	02/23/16	17:30	
15	SS-9 DIL	BK67660 30X	0222_49.D	02/23/16	19:17	
16	SS-1 DIL	BK67662 30X	0222_50.D	02/23/16	19:53	
17	SS-4 DIL	BK67663 30X	0222_51.D	02/23/16	20:29	
18	SS-3 DIL	BK67671 30X	0222_52.D	02/23/16	21:06	
19	CCAL 1	1.0ppb	0222_58.D	02/24/16	00:44	
20	CCAL 10	10ppb	0222_59.D	02/24/16	01:19	
21						
22						
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25						

(*) Outside 24 hr clock

FORM V AIR

tuner0222_26.txt
CLPBFB

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_26.D
Acq On : 23 Feb 2016 03:50 am
Operator : CORTEX\ms
Sample : 1.0ppb
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Feb 23 08:34:06 2016

AutoFind: Scans 1049, 1050, 1051; Background Corrected with Scan 1044

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.3	30235	PASS
75	95	30	66	48.2	71672	PASS
95	95	100	100	100.0	148608	PASS
96	95	5	9	6.6	9775	PASS
173	174	0.00	2	0.1	192	PASS
174	95	50	120	87.4	129827	PASS
175	174	4	9	7.2	9401	PASS
176	174	93	101	97.0	125872	PASS
177	176	5	9	6.5	8167	PASS

CTMANYNJ_0219.M Tue Feb 23 08:36:34 2016

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Lab File ID: 0223_05.D BFB Injection Date: 02/23/16

Instrument ID: CHEM24 BFB Injection Time: 11:40

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1253, 1254, 1255; Background Corrected with Scan 1248

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.3
75	30.0 - 66.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.5)1
174	50.0 - 120.0% of mass 95	116.0
175	4.0 - 9.0% of mass 174	7.0 (8.1)1
176	93.0 - 101.0% of mass 174	96.7 (113.0)1
177	5.0 - 9.0% of mass 176	6.6 (7.5)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.035	0.035 ppb	0223_06.D	02/23/16	12:07	
02	ICAL 0.05	0.05 ppb	0223_07.D	02/23/16	12:35	
03	ICAL 0.1	0.1 ppb	0223_08.D	02/23/16	13:02	
04	ICAL 0.2	0.2 ppbv	0223_09.D	02/23/16	13:31	
05	ICAL 0.5	0.5 ppb	0223_10.D	02/23/16	14:03	
06	ICAL 1	1.0 ppb	0223_11.D	02/23/16	14:32	
07	ICAL 2.5	2.5 ppb	0223_12.D	02/23/16	15:05	
08	ICAL 5	5.0 ppb	0223_13.D	02/23/16	15:33	
09	ICAL 10	10ppb	0223_14.D	02/23/16	16:02	
10	ICAL 25	25ppb	0223_15.D	02/23/16	16:34	
11	ICAL 40	40ppb	0223_16.D	02/23/16	17:09	
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(*) Outside 24 hr clock

FORM V AIR

tuner0223_05.txt
CLPBFB

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_05.D
Acq On : 23 Feb 2016 11:40 am
Operator : Keith
Sample : 0/0
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Feb 24 09:11:11 2016

AutoFind: Scans 1253, 1254, 1255; Background Corrected with Scan 1248

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	49584	PASS
75	95	30	66	44.0	119323	PASS
95	95	100	100	100.0	271360	PASS
96	95	5	9	6.7	18233	PASS
173	174	0.00	2	0.5	1560	PASS
174	95	50	120	116.5	316075	PASS
175	174	4	9	7.0	22064	PASS
176	174	93	101	96.7	305664	PASS
177	176	5	9	6.6	20222	PASS

CTMANYNJ_0223.M Wed Feb 24 09:11:36 2016

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Lab File ID: 0223_38.D BFB Injection Date: 02/24/16

Instrument ID: CHEM24 BFB Injection Time: 05:29

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1254, 1255, 1256; Background Corrected with Scan 1249

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.1
75	30.0 - 66.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 120.0% of mass 95	104.0
175	4.0 - 9.0% of mass 174	7.3 (7.6)1
176	93.0 - 101.0% of mass 174	97.0 (101.0)1
177	5.0 - 9.0% of mass 176	6.6 (6.6)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1ppb cc	0223_38.D	02/24/16	05:29	
02	CCAL 10	10ppb cc	0223_39.D	02/24/16	05:58	
03	BK68461 LCS	BK68461 LCS	0223_40.D	02/24/16	06:31	
04	BK68461 BLANK	BK68461 BLANK	0223_41.D	02/24/16	06:57	
05	SS-6 DIL	BK67655 150X	0223_46.D	02/24/16	10:50	
06	SS-2 DIL	BK67658 75X	0223_48.D	02/24/16	11:46	
07	SS-8 DIL	BK67659 5X	0223_49.D	02/24/16	12:15	
08	BK68461 QC	BK68461	0223_50.D	02/24/16	12:47	
09	BK68461 DUP	BK68461 DUP	0223_51.D	02/24/16	13:19	
10	CCAL 1	1ppb cc	0223_56.D	02/24/16	15:58	
11	CCAL 10	10ppb cc	0223_57.D	02/24/16	16:27	
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(*) Outside 24 hr clock

FORM V AIR

tuner0223_38.txt
CLPBFB

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_38.D
Acq On : 24 Feb 2016 5:29 am
Operator : Keith
Sample : 1ppb cc (Sig #1); 10ppb cc (Sig #2)
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Feb 24 09:11:11 2016

AutoFind: Scans 1254, 1255, 1256; Background Corrected with Scan 1249

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.1	42614	PASS
75	95	30	66	47.2	95472	PASS
95	95	100	100	100.0	202379	PASS
96	95	5	9	6.8	13802	PASS
173	174	0.00	2	0.5	993	PASS
174	95	50	120	104.2	210813	PASS
175	174	4	9	7.2	15280	PASS
176	174	93	101	97.0	204443	PASS
177	176	5	9	6.6	13426	PASS

CTMANYNJ_0223.M Wed Feb 24 14:27:53 2016

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0219_10.D Date Analyzed: 02/19/16
 Instrument ID: CHEM20 Time Analyzed: 22:51
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			FILE
12 HOUR STD	183585	7.01	484083	7.93	216523	10.01			
UPPER LIMIT	257937	7.34	680136	8.26	304214	10.34			
LOWER LIMIT	109233	6.68	288029	7.60	128831	9.68			
CLIENT ID									
01 ICAL 0.035	208123	7.01	540854	7.93	202235	9.99			0219_05.D
02 ICAL 0.05	202837	7.01	534160	7.93	196669	9.99			0219_06.D
03 ICAL 0.1	198893	7.01	527386	7.93	198480	9.99			0219_07.D
04 ICAL 0.2	194779	7.01	516775	7.93	199292	9.99			0219_08.D
05 ICAL 0.5	190727	7.01	503948	7.93	198010	9.99			0219_09.D
06 ICAL 1	188412	7.01	496920	7.93	222966	10.02			0219_10.D
07 ICAL 2.5	183679	7.01	482354	7.93	223201	10.02			0219_11.D
08 ICAL 5	178577	7.01	475831	7.93	219189	10.02			0219_12.D
09 ICAL 10	175077	7.01	461474	7.93	220022	10.02			0219_13.D
10 ICAL 25	172316	7.01	450124	7.94	231678	10.02			0219_14.D
11 ICAL 40	169807	7.01	441933	7.94	235865	10.02			0219_15.D
12									
13									
14									
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18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0219_10.D Date Analyzed: 02/19/16
 Instrument ID: CHEM20 Time Analyzed: 22:51
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			FILE
12 HOUR STD	191234	7.01	592404	7.93	221978	10.01			
UPPER LIMIT	268683	7.34	832328	8.26	311880	10.34			
LOWER LIMIT	113784	6.68	352480	7.60	132077	9.68			
CLIENT ID									
01 ICAL 0.035	208123	7.01	632887	7.93	213104	9.99			0219_05.D
02 ICAL 0.05	202837	7.01	620762	7.93	208404	9.99			0219_06.D
03 ICAL 0.1	198893	7.01	615304	7.93	209316	9.99			0219_07.D
04 ICAL 0.2	194779	7.01	613436	7.93	211046	9.99			0219_08.D
05 ICAL 0.5	190727	7.01	593675	7.93	210874	9.99			0219_09.D
06 ICAL 1	188412	7.01	583907	7.93	239029	10.02			0219_10.D
07 ICAL 2.5	183679	7.01	570963	7.93	237066	10.02			0219_11.D
08 ICAL 5	178577	7.01	555549	7.93	231723	10.02			0219_12.D
09 ICAL 10	175077	7.01	545153	7.93	237244	10.02			0219_13.D
10 ICAL 25	172316	7.01	527345	7.93	248550	10.02			0219_14.D
11 ICAL 40	169807	7.01	516011	7.93	258129	10.02			0219_15.D
12									
13									
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17									
18									
19									
20									
21									
22									

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 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0222_02.D Date Analyzed: 02/22/16
 Instrument ID: CHEM20 Time Analyzed: 7:43
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	180685	7.01	553635	7.93	223429	10.02			
UPPER LIMIT	253862	7.34	777857	8.26	313918	10.35			
LOWER LIMIT	107508	6.68	329413	7.60	132940	9.69			
CLIENT ID									
01 BK67666 LCS	164526	7.01	512366	7.93	224519	10.02			0222_04.D
02 BK67666 BLANK	169871	7.01	529264	7.93	175367	10.00			0222_06.D
03 IA-3	157471	7.01	495097	7.93	201735	10.02			0222_07.D
04 AA-2	156238	7.01	492004	7.93	211856	10.03			0222_08.D
05 IA-6	151478	7.00	478233	7.92	195493	10.02			0222_09.D
06 IA-5	150087	7.01	457585	7.93	189257	10.02			0222_10.D
07 AA-1	148839	7.01	469847	7.93	179107	10.00			0222_11.D
08 IA-1	155555	7.01	487941	7.93	199421	10.02			0222_12.D
09 AA-3	156018	7.00	496308	7.93	209099	10.02			0222_14.D
10 AA-3 DUP	153393	7.01	486648	7.93	207010	10.02			0222_15.D
11 IA-4	157747	7.00	500853	7.92	200939	10.02			0222_16.D
12 IA-8	150437	7.01	486833	7.93	200608	10.02			0222_17.D
13 IA-9	143905	7.01	446720	7.93	187165	10.02			0222_18.D
14 IA-2	147435	7.00	471140	7.92	196257	10.02			0222_19.D
15 SS-5	141799	7.01	449179	7.93	175820	10.02			0222_20.D
16 SS-6	145598	7.01	465467	7.93	175875	10.03			0222_21.D
17 SS-2	146983	7.01	486946	7.93	182409	10.02			0222_22.D
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
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 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0222_03.D Date Analyzed: 02/22/16
 Instrument ID: CHEM20 Time Analyzed: 8:19
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	167624	7.01	442928	7.93	209362	10.02			
UPPER LIMIT	235512	7.34	622314	8.26	294154	10.35			
LOWER LIMIT	99736	6.68	263542	7.60	124570	9.69			
CLIENT ID									
01 BK67666 LCS	164526	7.01	430038	7.93	205787	10.02			0222_04.D
02 BK67666 BLANK	169871	7.01	442834	7.93	164091	9.99			0222_06.D
03 IA-3	157471	7.01	416879	7.93	188529	10.02			0222_07.D
04 AA-2	156238	7.01	415385	7.93	197819	10.02			0222_08.D
05 IA-6	151478	7.00	402972	7.93	182123	10.02			0222_09.D
06 IA-5	150087	7.01	383978	7.93	179133	10.02			0222_10.D
07 AA-1	148839	7.01	395605	7.93	169610	10.00			0222_11.D
08 IA-1	155555	7.01	408423	7.93	185919	10.02			0222_12.D
09 AA-3	156018	7.00	416273	7.93	195073	10.02			0222_14.D
10 AA-3 DUP	153393	7.01	409762	7.93	194509	10.02			0222_15.D
11 IA-4	157747	7.00	419570	7.93	186088	10.02			0222_16.D
12 IA-8	150437	7.01	406992	7.93	184909	10.02			0222_17.D
13 IA-9	143905	7.01	369791	7.93	174194	10.02			0222_18.D
14 IA-2	147435	7.00	396757	7.93	179979	10.02			0222_19.D
15 SS-5	141799	7.01	372464	7.93	160213	10.02			0222_20.D
16 SS-6	145598	7.01	388484	7.93	163155	10.02			0222_21.D
17 SS-2	146983	7.01	406393	7.93	170667	10.02			0222_22.D
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0222_26.D Date Analyzed: 02/23/16
 Instrument ID: CHEM20 Time Analyzed: 3:50
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	136349	7.00	441112	7.93	184863	10.02			
UPPER LIMIT	191570	7.33	619762	8.26	259733	10.35			
LOWER LIMIT	81128	6.67	262462	7.60	109993	9.69			
CLIENT ID									
01 BK67659 LCS	131411	7.01	434084	7.93	193040	10.02			0222_28.D
02 BK67659 BLANK	137537	7.00	446804	7.93	152739	10.00			0222_30.D
03 SS-8	147084	7.01	471859	7.93	209738	10.02			0222_31.D
04 SS-8 DUP	157063	7.01	503414	7.93	196144	9.99			0222_32.D
05 IA-7	157654	7.01	507731	7.93	218925	10.02			0222_36.D
06 SS-9	159042	7.00	516214	7.92	203583	10.02			0222_37.D
07 SS-1	162701	7.01	545209	7.93	207262	10.02			0222_38.D
08 SS-4	156916	7.00	531791	7.92	207132	10.02			0222_39.D
09 SS-7 DIL	149333	7.00	482857	7.92	189906	10.02			0222_40.D
10 SS-3	156785	7.01	517064	7.93	178472	9.99			0222_41.D
11 SS-7	141998	7.01	454273	7.93	193483	10.02			0222_42.D
12 SS-5 DIL	173545	7.01	555451	7.93	214890	10.02			0222_46.D
13 SS-9 DIL	158379	7.01	513754	7.93	198768	10.02			0222_49.D
14 SS-1 DIL	154608	7.00	503254	7.92	195947	10.02			0222_50.D
15 SS-4 DIL	155283	7.01	504718	7.93	196808	10.02			0222_51.D
16 SS-3 DIL	143166	7.00	478724	7.93	197071	10.02			0222_52.D
17 CCAL 1	139399	7.01	469381	7.93	201344	10.02			0222_58.D
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0222_27.D Date Analyzed: 02/23/16
 Instrument ID: CHEM20 Time Analyzed: 4:26
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	129405	7.01	351976	7.93	176551	10.02			
UPPER LIMIT	181814	7.34	494526	8.26	248054	10.35			
LOWER LIMIT	76996	6.68	209426	7.60	105048	9.69			
CLIENT ID									
01 BK67659 LCS	131411	7.01	358699	7.93	177025	10.02			0222_28.D
02 BK67659 BLANK	137537	7.00	370030	7.93	141319	9.99			0222_30.D
03 SS-8	147084	7.01	393430	7.93	196555	10.02			0222_31.D
04 SS-8 DUP	157063	7.01	422066	7.93	185070	9.99			0222_32.D
05 IA-7	157654	7.01	415507	7.93	202560	10.02			0222_36.D
06 SS-9	159042	7.00	424254	7.93	189596	10.02			0222_37.D
07 SS-1	162701	7.01	451794	7.93	190588	10.02			0222_38.D
08 SS-4	156916	7.00	440849	7.93	192551	10.02			0222_39.D
09 SS-7 DIL	149333	7.00	391325	7.93	174039	10.02			0222_40.D
10 SS-3	156785	7.01	422734	7.93	163704	9.99			0222_41.D
11 SS-7	141998	7.01	374475	7.93	178687	10.02			0222_42.D
12 SS-5 DIL	173545	7.01	460020	7.93	201215	10.02			0222_46.D
13 SS-9 DIL	158379	7.01	423042	7.93	184608	10.02			0222_49.D
14 SS-1 DIL	154608	7.00	410103	7.93	185577	10.02			0222_50.D
15 SS-4 DIL	155283	7.01	413676	7.93	184019	10.02			0222_51.D
16 SS-3 DIL	143166	7.00	386467	7.93	180478	10.02			0222_52.D
17 CCAL 10	148088	7.01	384109	7.93	199850	10.02			0222_59.D
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
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FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0223_11.D Date Analyzed: 02/23/16
 Instrument ID: CHEM24 Time Analyzed: 14:32
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			FILE
12 HOUR STD	111425	4.07	373115	6.05	271161	9.28			
UPPER LIMIT	156552	4.40	524227	6.38	380981	9.61			
LOWER LIMIT	66298	3.74	222004	5.72	161341	8.95			
CLIENT ID									
01 ICAL 0.035	115268	4.07	400088	6.05	297875	9.28			0223_06.D
02 ICAL 0.05	113576	4.07	559166 *	6.05	288369	9.28			0223_07.D
03 ICAL 0.1	113751	4.07	390486	6.05	286566	9.28			0223_08.D
04 ICAL 0.2	111754	4.07	376337	6.05	271149	9.28			0223_09.D
05 ICAL 0.5	112852	4.07	379169	6.05	268803	9.28			0223_10.D
06 ICAL 1	110501	4.07	372647	6.05	257453	9.28			0223_11.D
07 ICAL 2.5	110443	4.07	372338	6.05	260039	9.28			0223_12.D
08 ICAL 5	110699	4.07	369793	6.05	258528	9.28			0223_13.D
09 ICAL 10	108531	4.07	364351	6.05	262318	9.28			0223_14.D
10 ICAL 25	108369	4.08	359467	6.05	277425	9.28			0223_15.D
11 ICAL 40	115921	4.08	373449	6.05	298166	9.29			0223_16.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

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 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0223_11.D Date Analyzed: 02/23/16
 Instrument ID: CHEM24 Time Analyzed: 14:32
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			FILE
12 HOUR STD	111931	4.07	438043	6.05	305035	9.28			
UPPER LIMIT	157262	4.40	615450	6.38	428575	9.61			
LOWER LIMIT	66599	3.74	260635	5.72	181496	8.95			
CLIENT ID									
01 ICAL 0.035	115268	4.07	431565	6.05	332535	9.28			0223_06.D
02 ICAL 0.05	113576	4.07	646909 *	6.05	319413	9.28			0223_07.D
03 ICAL 0.1	113751	4.07	421495	6.05	320446	9.28			0223_08.D
04 ICAL 0.2	111754	4.07	407723	6.05	303836	9.28			0223_09.D
05 ICAL 0.5	112852	4.07	411552	6.05	300611	9.28			0223_10.D
06 ICAL 1	110501	4.07	408071	6.05	290399	9.28			0223_11.D
07 ICAL 2.5	110443	4.07	408441	6.05	293191	9.28			0223_12.D
08 ICAL 5	110699	4.07	404734	6.05	290861	9.28			0223_13.D
09 ICAL 10	108531	4.07	401894	6.05	294026	9.28			0223_14.D
10 ICAL 25	108369	4.08	395425	6.06	311467	9.29			0223_15.D
11 ICAL 40	115921	4.08	409372	6.06	333632	9.29			0223_16.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0223_38.D Date Analyzed: 02/24/16
 Instrument ID: CHEM24 Time Analyzed: 5:29
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	106066	4.08	396566	6.06	258879	9.29			
UPPER LIMIT	149023	4.41	557175	6.39	363725	9.62			
LOWER LIMIT	63109	3.75	235957	5.73	154033	8.96			
CLIENT ID									
01 BK68461 LCS	107144	4.08	392187	6.06	268023	9.29			0223_40.D
02 BK68461 BLANK	104190	4.08	499396	6.06	252310	9.29			0223_41.D
03 SS-6 DIL	104215	4.09	393554	6.07	250676	9.29			0223_46.D
04 SS-2 DIL	104102	4.09	386365	6.07	241426	9.29			0223_48.D
05 SS-8 DIL	103379	4.10	386568	6.07	242296	9.29			0223_49.D
06 BK68461 QC	105159	4.10	388266	6.08	241152	9.30			0223_50.D
07 BK68461 DUP	109040	4.10	399721	6.08	251611	9.30			0223_51.D
08 CCAL 1	105597	4.11	394491	6.08	242648	9.30			0223_56.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651
 Lab File Id: 0223_39.D Date Analyzed: 02/24/16
 Instrument ID: CHEM24 Time Analyzed: 5:58
 GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	106881	4.08	351551	6.06	235917	9.29			
UPPER LIMIT	150168	4.41	493929	6.39	331463	9.62			
LOWER LIMIT	63594	3.75	209173	5.73	140371	8.96			
CLIENT ID									
01 BK68461 LCS	107144	4.08	348647	6.06	236405	9.29			0223_40.D
02 BK68461 BLANK	104190	4.08	410941	6.06	220184	9.29			0223_41.D
03 SS-6 DIL	104215	4.09	350023	6.07	216371	9.29			0223_46.D
04 SS-2 DIL	104102	4.09	347666	6.07	210191	9.30			0223_48.D
05 SS-8 DIL	103379	4.10	345892	6.07	211454	9.30			0223_49.D
06 BK68461 QC	105159	4.10	346743	6.07	206004	9.30			0223_50.D
07 BK68461 DUP	109040	4.10	359564	6.07	215627	9.30			0223_51.D
08 CCAL 10	105886	4.11	344299	6.08	221214	9.31			0223_57.D
09									
10									
11									
12									
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17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67651</u>
Canister:	<u>222</u>	Lab File ID:	<u>0222_07.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.543		0.202	0.202	r
74-87-3	Chloromethane	0.730		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	4.90	S	0.531	0.531	r
67-64-1	Acetone	1.71	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.247		0.178	0.178	r
67-63-0	Isopropylalcohol	0.731	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.283		0.037	0.037	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.081		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67651
Canister:	222	Lab File ID:	0222_07.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
Matrix:	AIR	Date Analyzed:	02/22/16
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.050		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_07.D
 Acq On : 22 Feb 2016 11:13 am
 Operator : CORTEX\ms
 Client ID : IA-3
 Lab ID : BK67651
 ALS Vial : 1 Sample Multiplier: 1

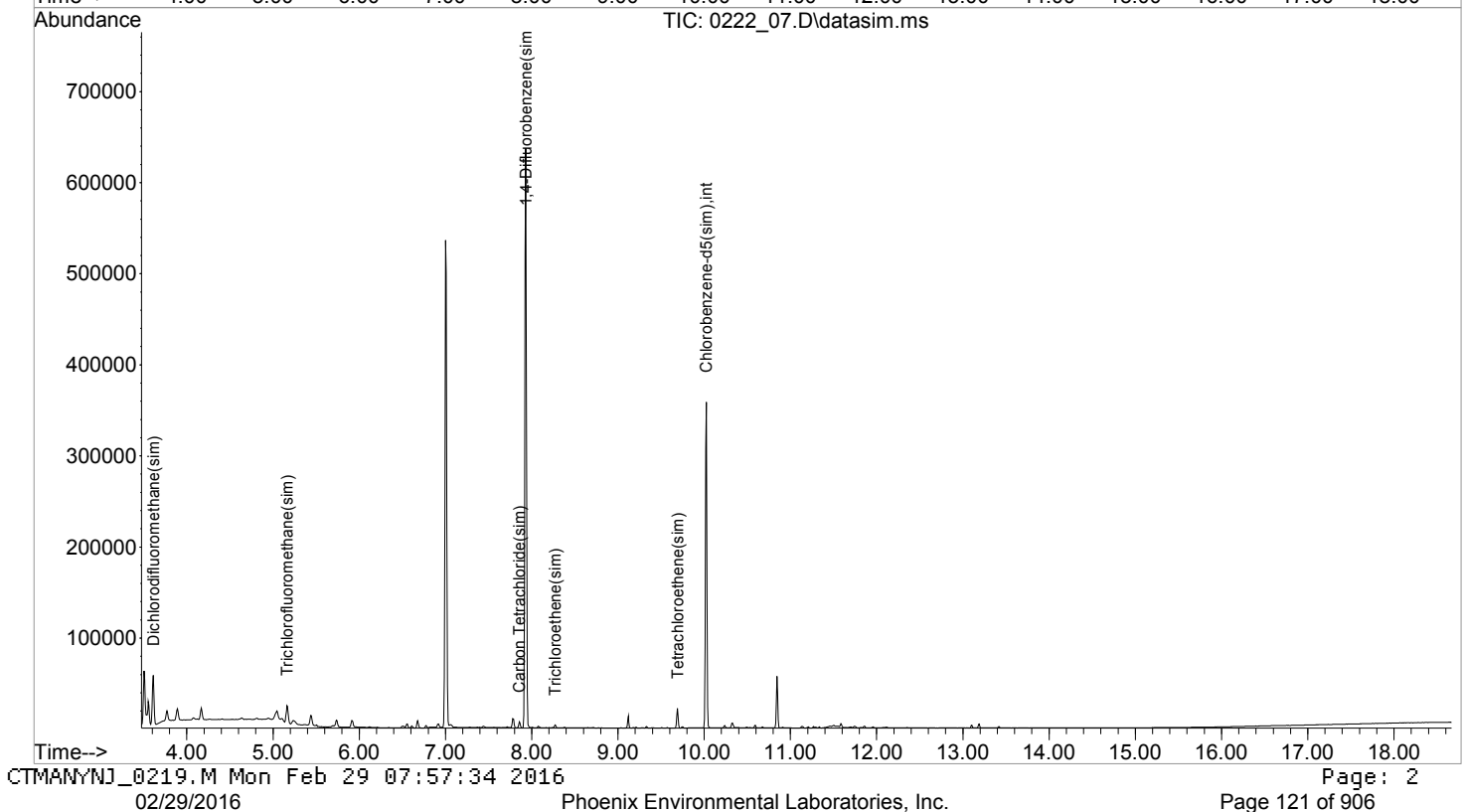
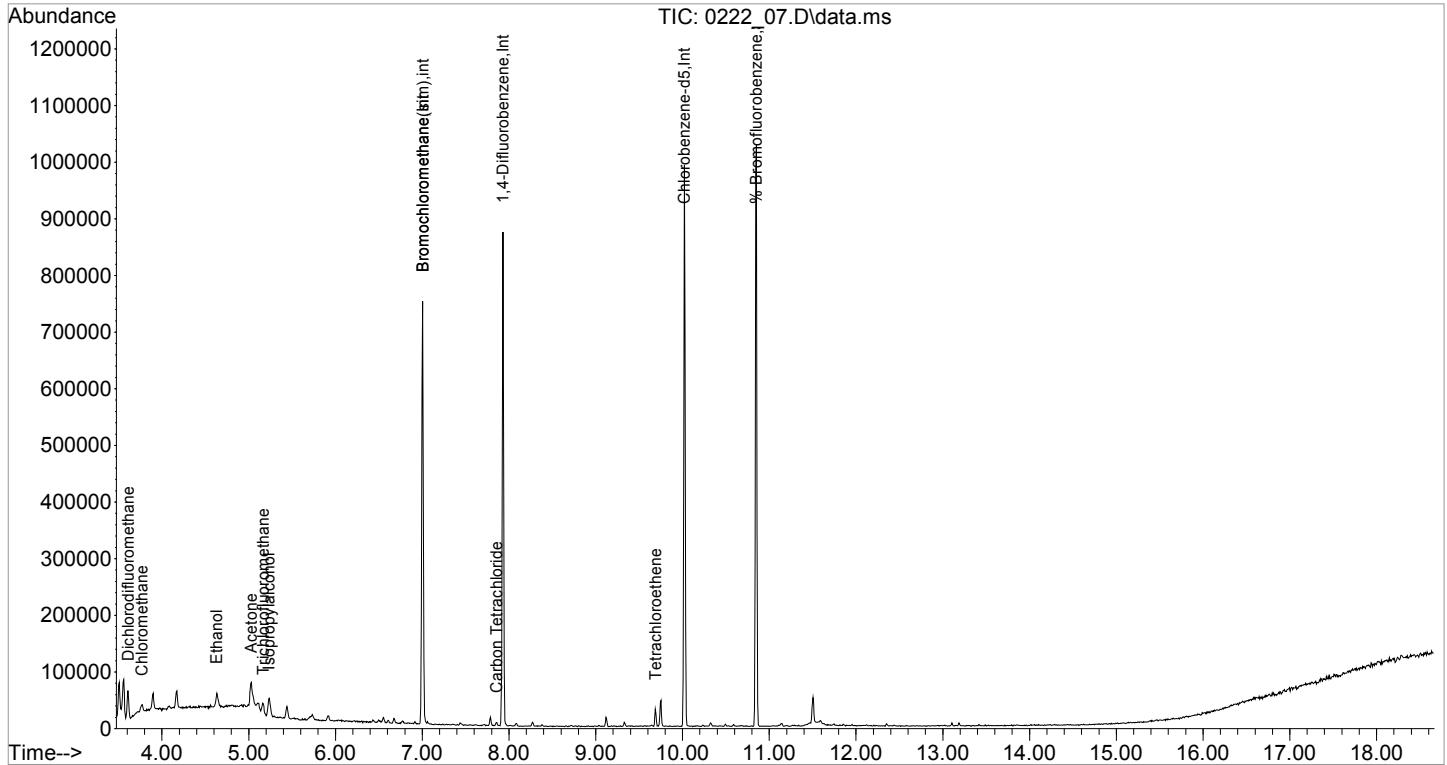
Quant Time: Feb 23 08:00:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

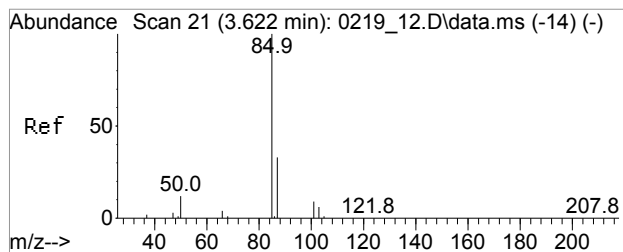
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	157471	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	416879	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	188529	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	157471	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	495097	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	201735	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.850	95	240292	9.652	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.50%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.608	85	36361	0.543	ppbv#	96
4) Chloromethane	3.767	52	3967	0.730	ppbv#	85
10) Ethanol	4.632	45	24475	4.904	ppbv	96
11) Acetone	5.029	43	47783	1.705	ppbv	99
12) Trichlorofluoromethane	5.166	101	14621	0.247	ppbv	96
13) Isopropylalcohol	5.231	45	37474	0.731	ppbv	94
33) Carbon Tetrachloride	7.853	117	2626	0.083	ppbv	86
51) Tetrachloroethene	9.687	166	5935	0.282	ppbv	96
80] Dichlorodifluoromethan...	3.611	85	44259	0.532	ppbv	99
84] Trichlorofluoromethane...	5.162	101	18815	0.249	ppbv	99
87] Carbon Tetrachloride(sim)	7.853	117	2626	0.081	ppbv	86
99] Trichloroethene(sim)	8.273	130	844m	0.050	ppbv	
105] Tetrachloroethene(sim)	9.687	166	5935	0.285	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_07.D
Acq On : 22 Feb 2016 11:13 am
Operator : CORTEX\jms
Client ID : IA-3
Lab ID : BK67651
ALS Vial : 1 Sample Multiplier: 1

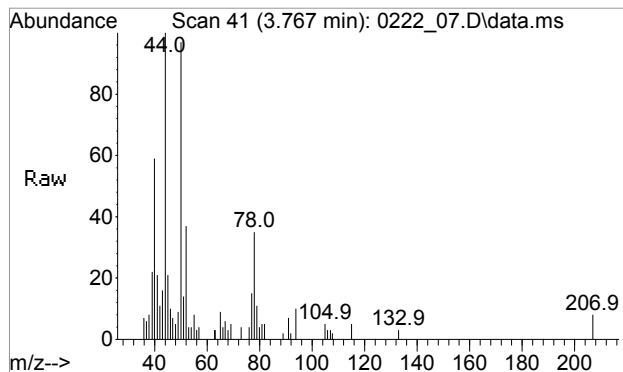
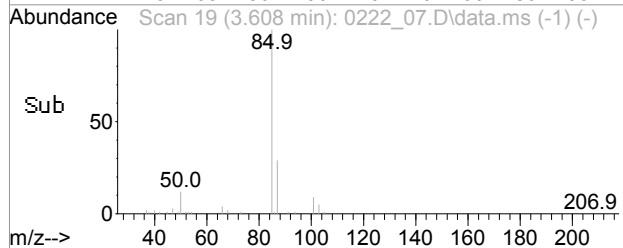
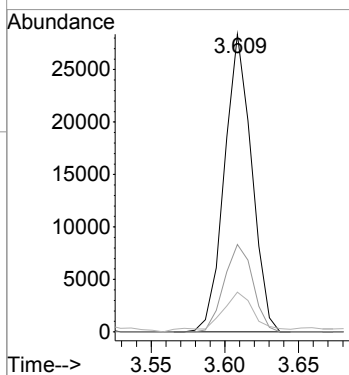
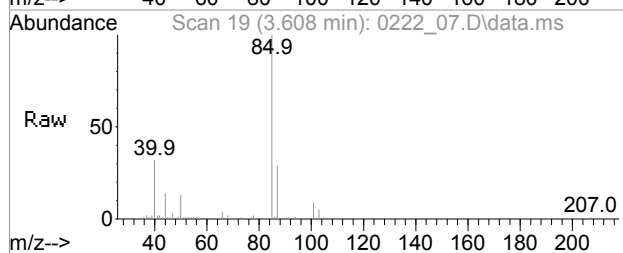
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Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





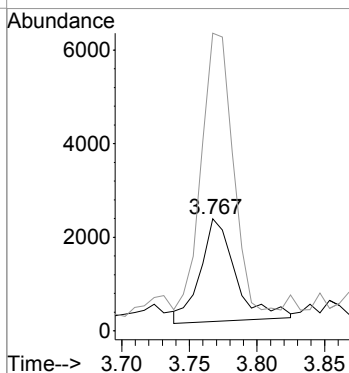
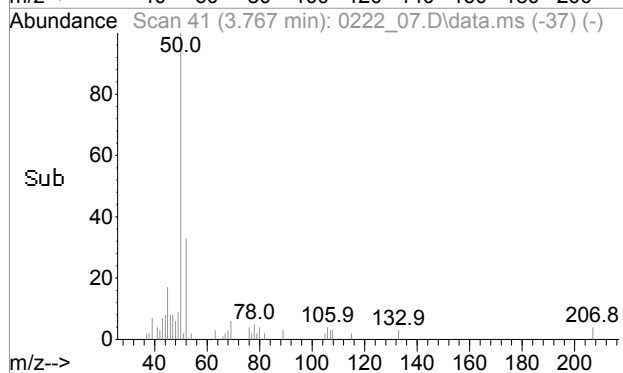
#3
Dichlorodifluoromethane
Concen: 0.54 ppbv
RT: 3.608 min Scan# 19
Delta R.T. -0.022 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

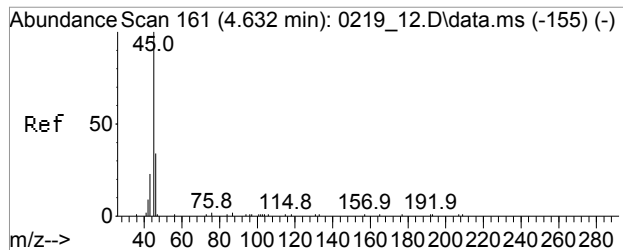
Tgt Ion: 85 Resp: 36361
Ion Ratio Lower Upper
85 100
87 30.9 26.1 39.1
50 16.4 10.5 15.7#



#4
Chloromethane
Concen: 0.73 ppbv
RT: 3.767 min Scan# 41
Delta R.T. -0.021 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

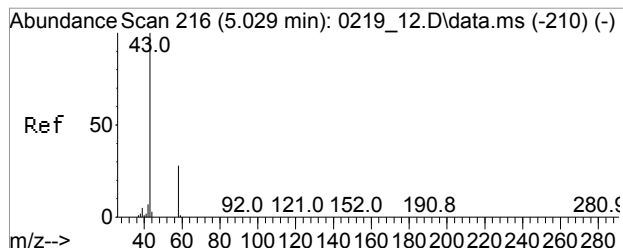
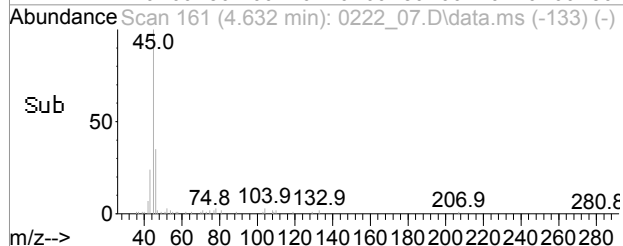
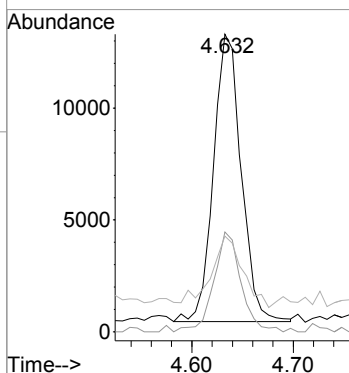
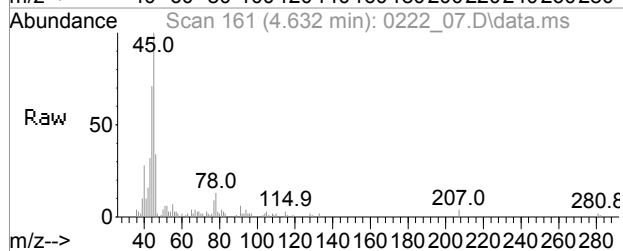
Tgt Ion: 52 Resp: 3967
Ion Ratio Lower Upper
52 100
50 274.9 284.4 324.4#





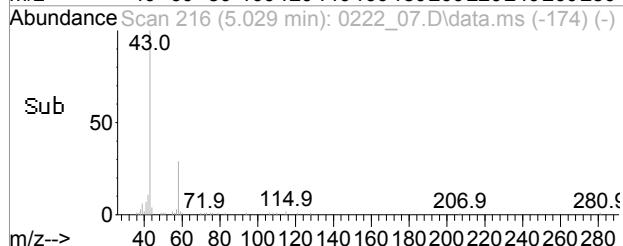
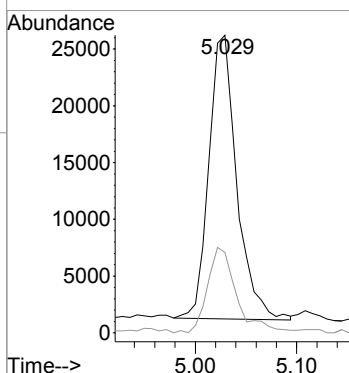
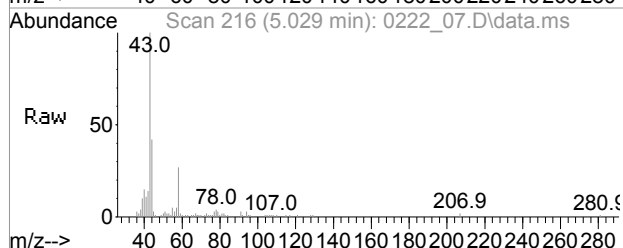
#10
Ethanol
Concen: 4.90 ppbv
RT: 4.632 min Scan# 161
Delta R.T. 0.000 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

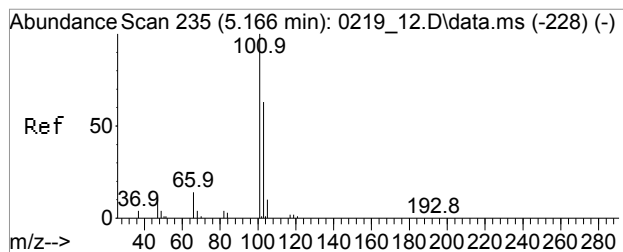
Tgt Ion: 45 Resp: 24475
Ion Ratio Lower Upper
45 100
46 34.3 28.5 42.7
43 28.3 19.7 29.5



#11
Acetone
Concen: 1.70 ppbv
RT: 5.029 min Scan# 216
Delta R.T. 0.000 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

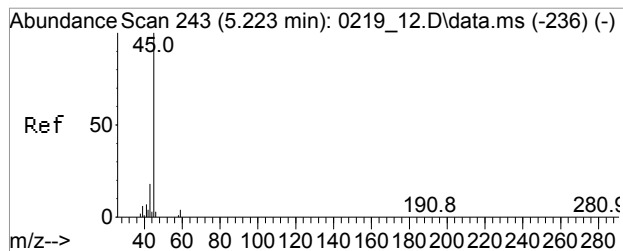
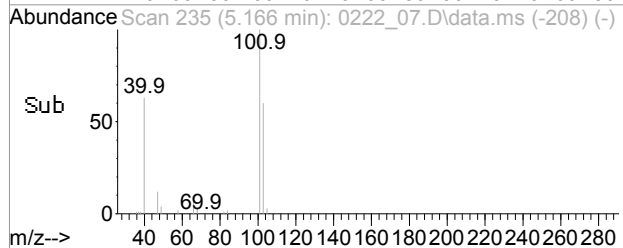
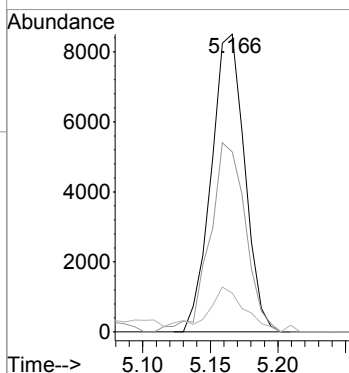
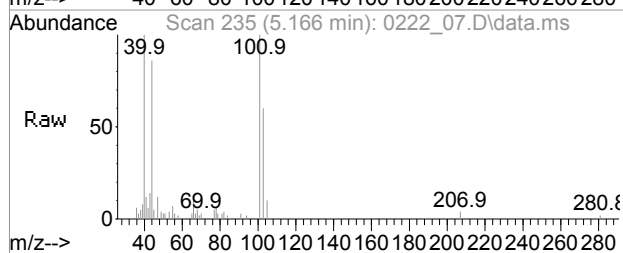
Tgt Ion: 43 Resp: 47783
Ion Ratio Lower Upper
43 100
58 31.3 24.8 37.2





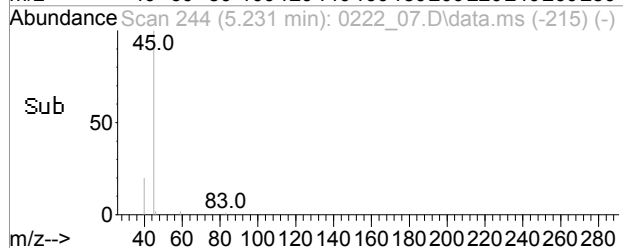
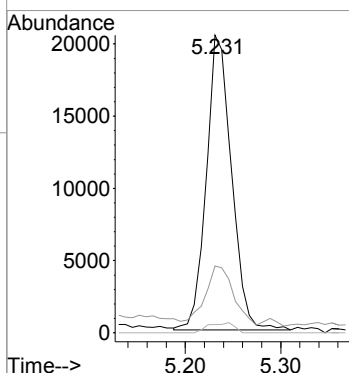
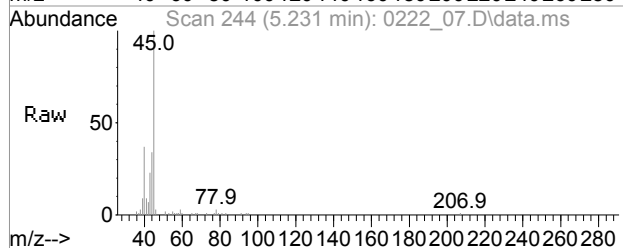
#12
Trichlorofluoromethane
Concen: 0.25 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

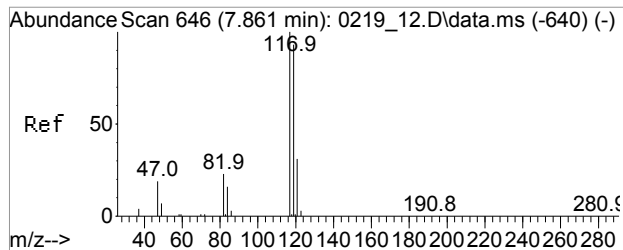
Tgt Ion: 101 Resp: 14621
Ion Ratio Lower Upper
101 100
103 67.7 51.8 77.8
66 16.7 11.1 16.7



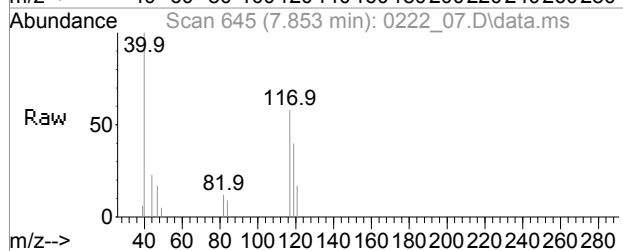
#13
Isopropylalcohol
Concen: 0.73 ppbv
RT: 5.231 min Scan# 244
Delta R.T. 0.008 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

Tgt Ion: 45 Resp: 37474
Ion Ratio Lower Upper
45 100
43 22.5 15.4 23.0
59 3.5 3.0 4.4

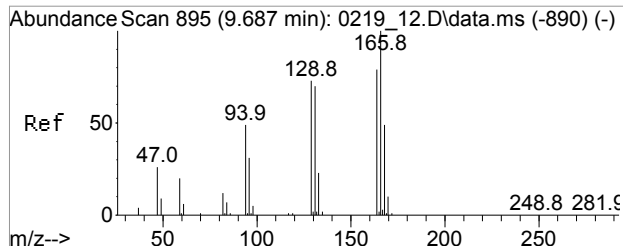
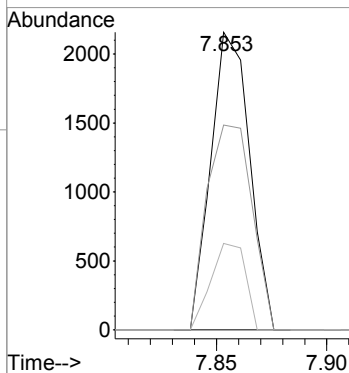
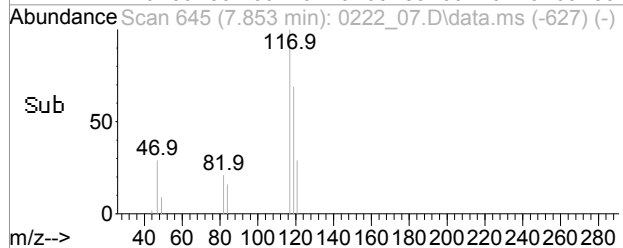




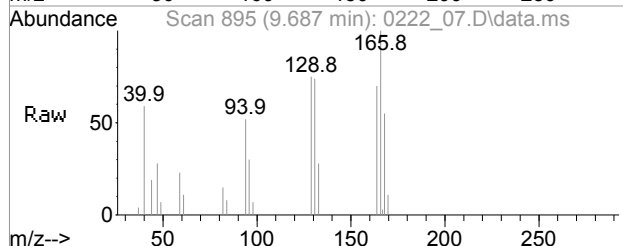
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.853 min Scan# 645
Delta R.T. -0.008 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am



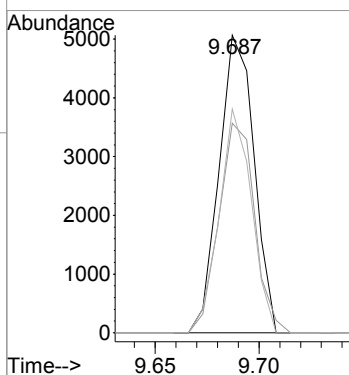
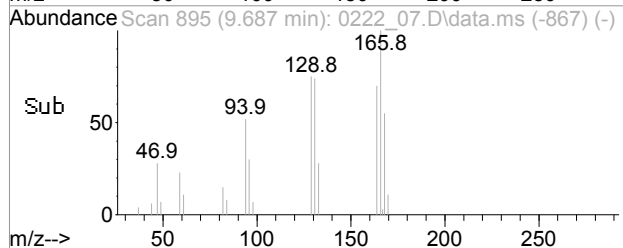
Tgt Ion: 117 Resp: 2626
Ion Ratio Lower Upper
117 100
119 80.1 75.9 115.9
121 25.9 10.8 50.8

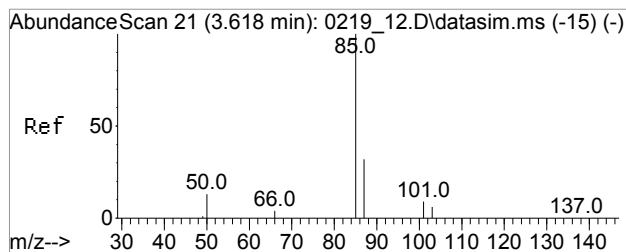


#51
Tetrachloroethene
Concen: 0.28 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am



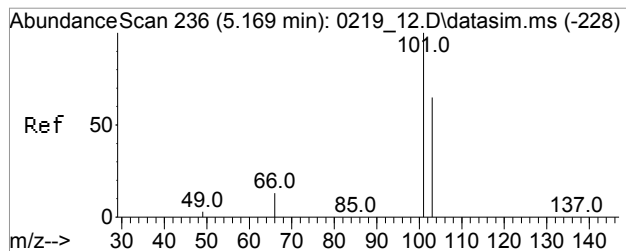
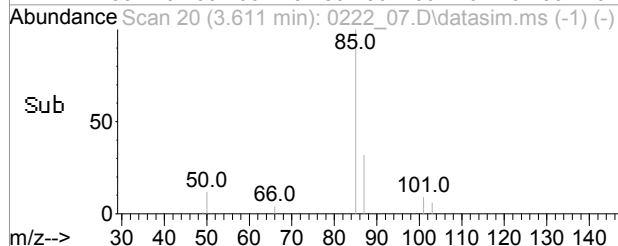
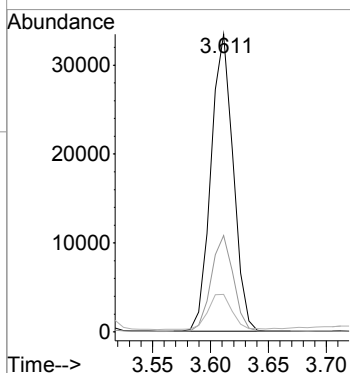
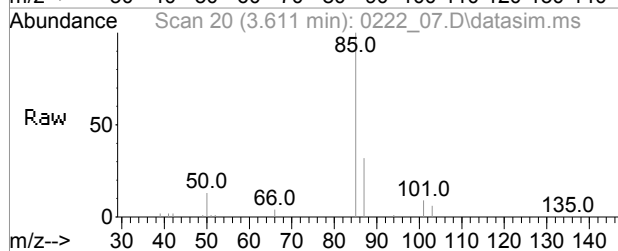
Tgt Ion: 166 Resp: 5935
Ion Ratio Lower Upper
166 100
164 72.1 62.2 93.4
129 69.9 56.6 84.8





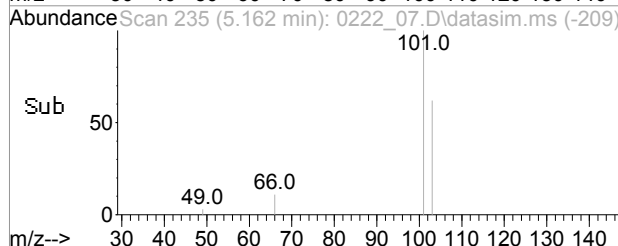
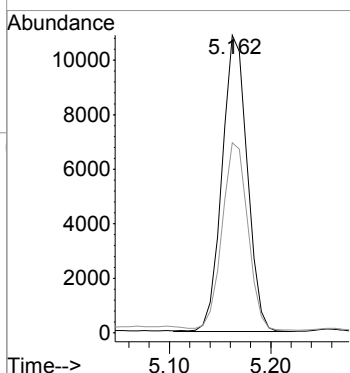
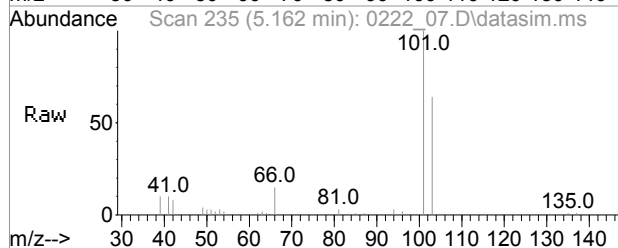
#80
Dichlorodifluoromethane(sim)
Concen: 0.53 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

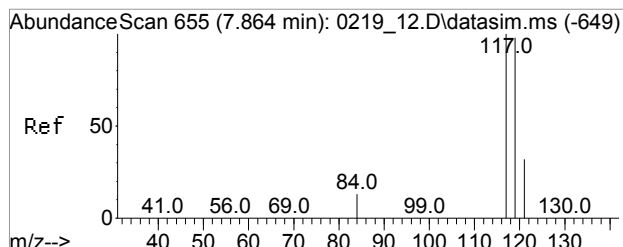
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	12.7	52.7
50	12.9	0.0	32.3



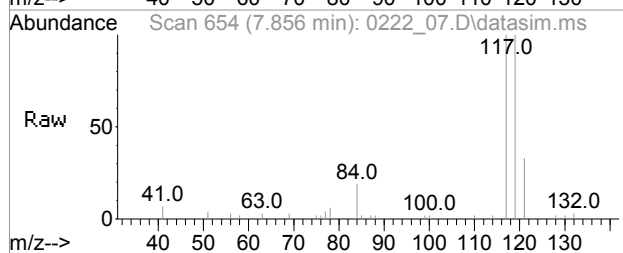
#84
Trichlorofluoromethane(sim)
Concen: 0.25 ppbv
RT: 5.162 min Scan# 235
Delta R.T. -0.014 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.0	78.0

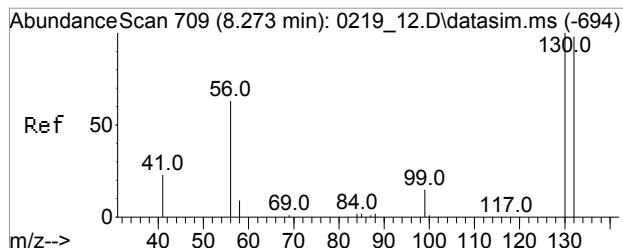
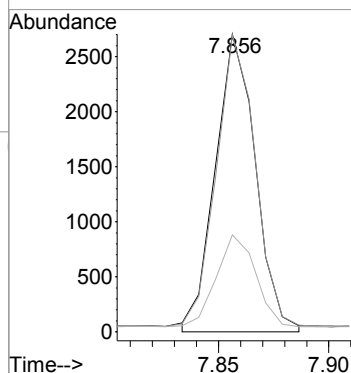




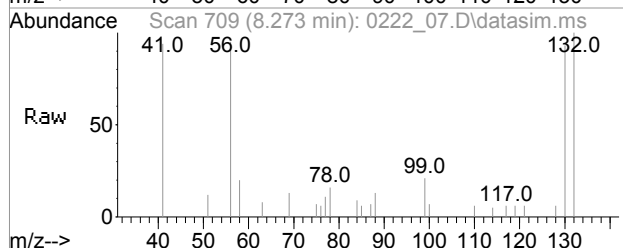
#87
Carbon Tetrachloride(sim)
Concen: 0.08 ppbv
RT: 7.853 min Scan# 654
Delta R.T. -0.008 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am



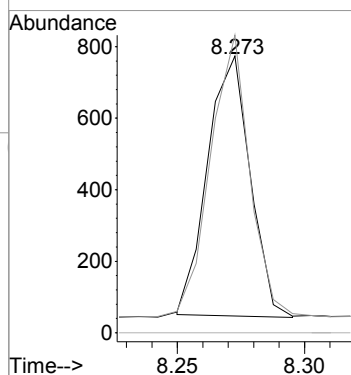
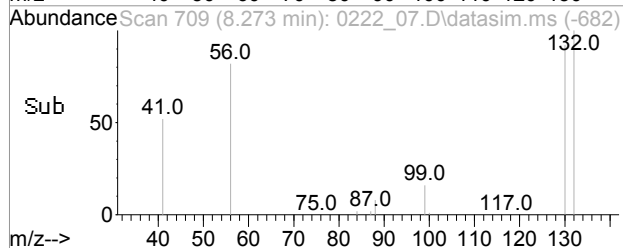
Tgt Ion:117 Resp: 2626
Ion Ratio Lower Upper
117 100
119 80.1 76.7 115.1
121 25.9 24.6 37.0

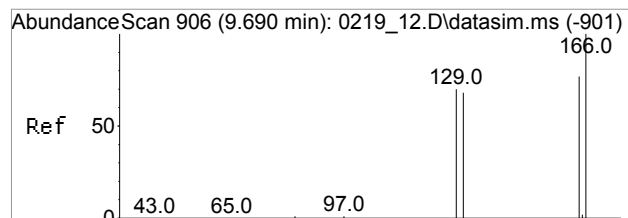


#99
Trichloroethene(sim)
Concen: 0.05 ppbv m
RT: 8.273 min Scan# 709
Delta R.T. 0.003 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am

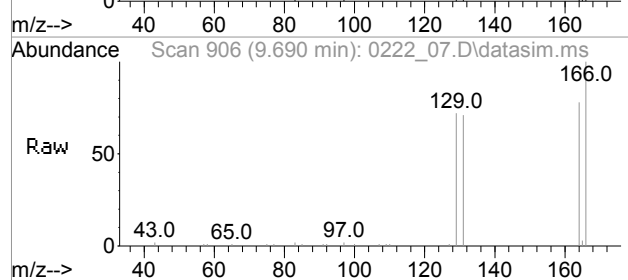


Tgt Ion:130 Resp: 844
Ion Ratio Lower Upper
130 100
132 78.1 77.2 115.8
97 50.5 53.5 80.3#

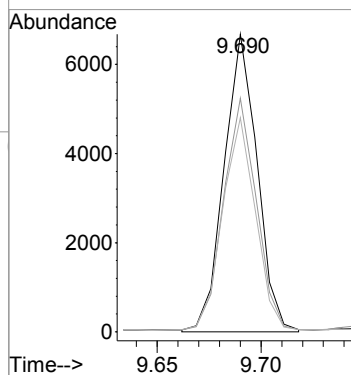
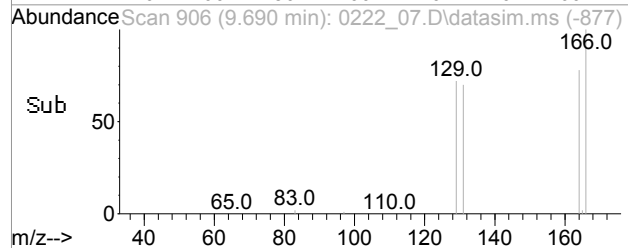




#105
Tetrachloroethene(sim)
Concen: 0.29 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_07.D
Acq: 22 Feb 2016 11:13 am



Tgt Ion:166 Resp: 5935
Ion Ratio Lower Upper
166 100
164 69.8 57.8 97.8
129 69.9 50.7 90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67652</u>
Canister:	<u>12866</u>	Lab File ID:	<u>0222_17.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
		Date Received:	<u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/22/16</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.503		0.202	0.202	r
74-87-3	Chloromethane	0.593		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	68.8	ES	0.531	0.531	r
67-64-1	Acetone	29.3	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.236		0.178	0.178	r
67-63-0	Isopropylalcohol	14.4	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.407		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.544		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.073		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67652</u>
Canister:	<u>12866</u>	Lab File ID:	<u>0222_17.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.116		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_17.D
 Acq On : 22 Feb 2016 10:21 pm
 Operator : CORTEX\ms
 Client ID : IA-8
 Lab ID : BK67652
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:20:24 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

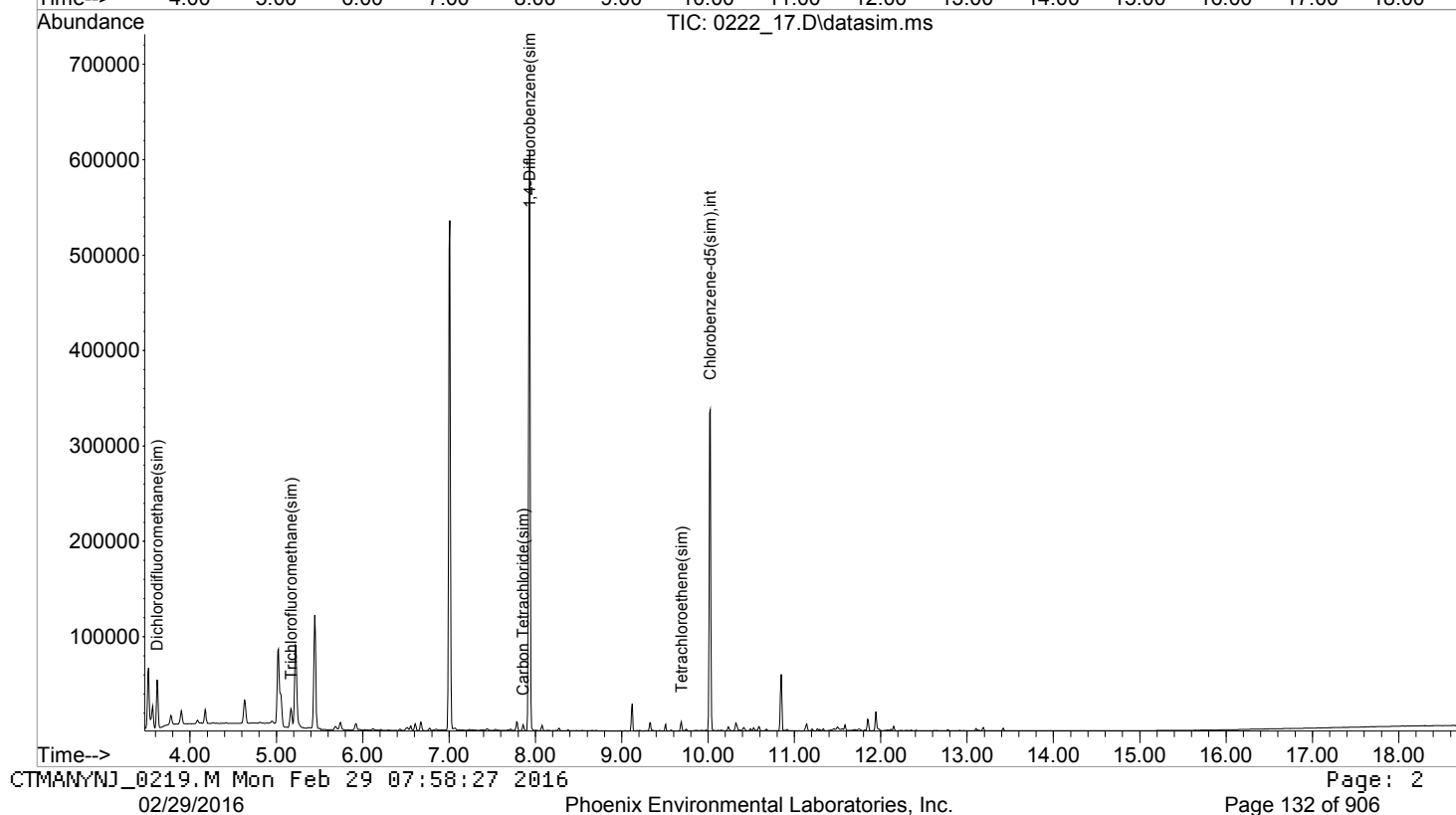
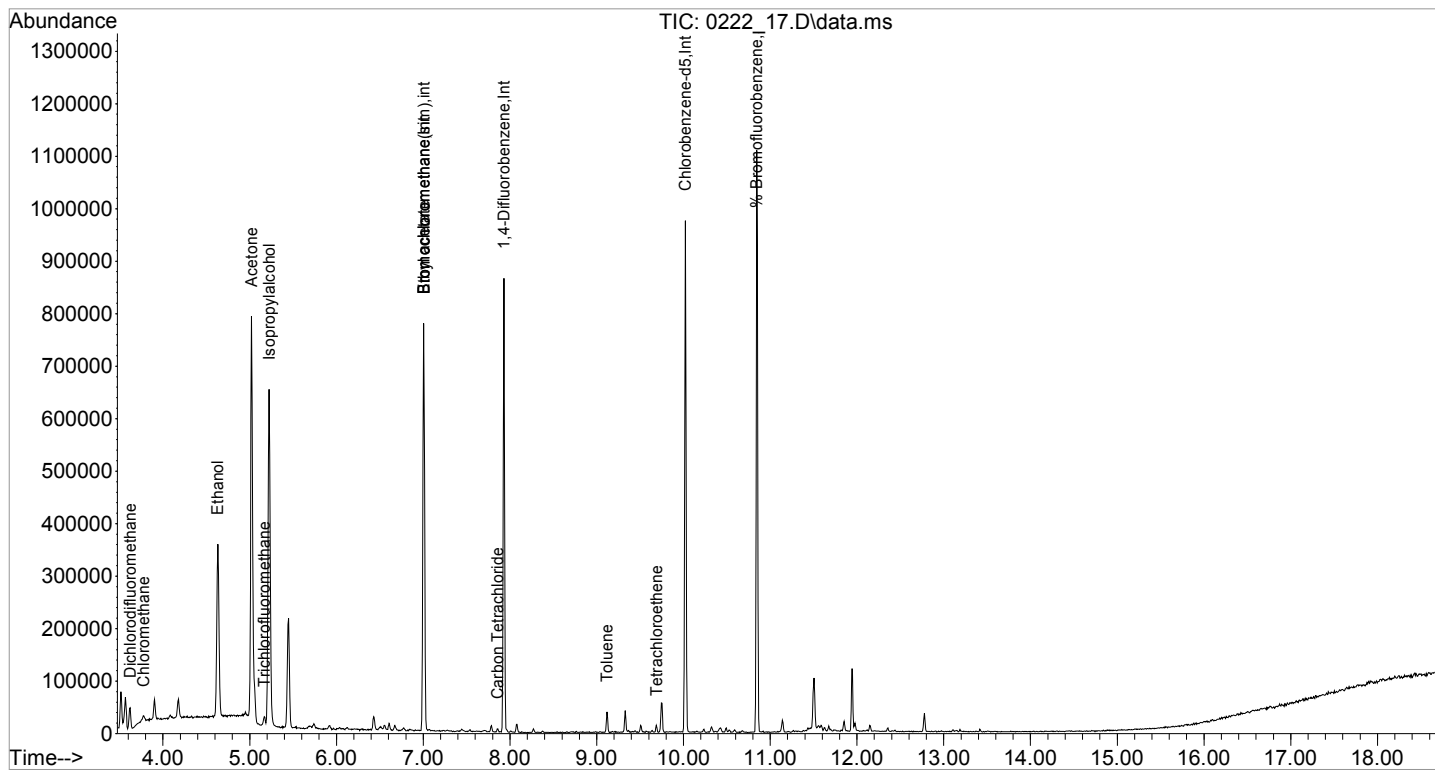
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

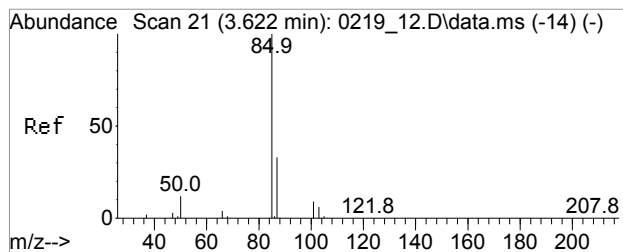
Internal Standards						
1) Bromochloromethane	7.006	130	150437	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	406992	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	184909	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	150437	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	486833	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.025	82	200608	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	244849	10.028	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.30%		
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.623	85	32215	0.503	ppbv	96
4) Chloromethane	3.774	52	3079m	0.593	ppbv	
10) Ethanol	4.632	45	328017	68.804	ppbv	97
11) Acetone	5.022	43	785382	29.327	ppbv	95
12) Trichlorofluoromethane	5.166	101	13352	0.236	ppbv#	95
13) Isopropylalcohol	5.224	45	702695	14.350	ppbv	99
28) Ethyl acetate	7.006	43	19657	0.407	ppbv	100
33) Carbon Tetrachloride	7.854	117	2253	0.075	ppbv	89
47) Toluene	9.117	91	16655	0.544	ppbv	99
51) Tetrachloroethene	9.688	166	2369	0.115	ppbv	96
80] Dichlorodifluoromethan...	3.619	85	40362	0.508	ppbv	99
84] Trichlorofluoromethane...	5.169	101	18351	0.255	ppbv	99
87] Carbon Tetrachloride(sim)	7.854	117	2253	0.073	ppbv	91
105] Tetrachloroethene(sim)	9.688	166	2369	0.116	ppbv	96

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_17.D
Acq On : 22 Feb 2016 10:21 pm
Operator : CORTEX\jms
Client ID : IA-8
Lab ID : BK67652
ALS Vial : 1 Sample Multiplier: 1

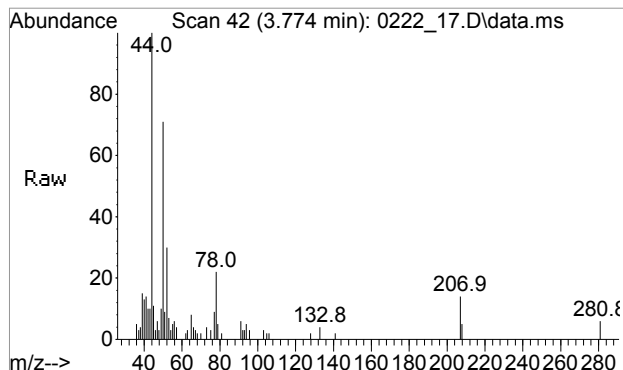
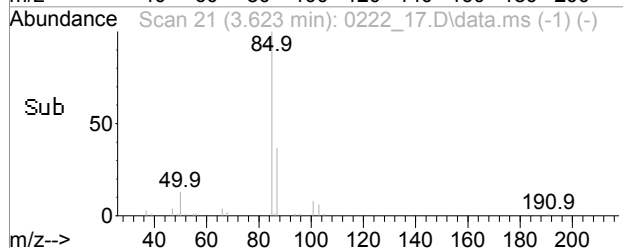
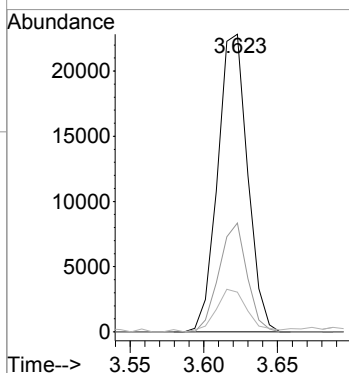
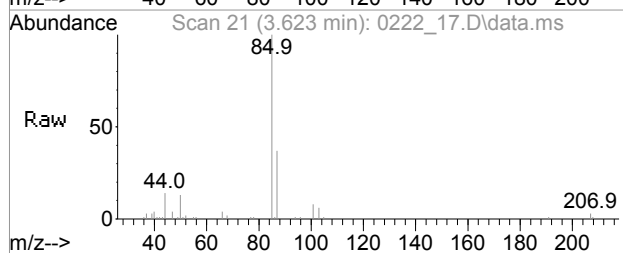
Quant Time: Feb 23 08:20:24 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





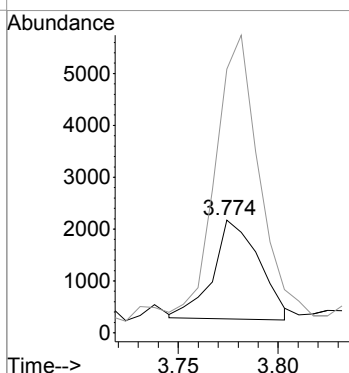
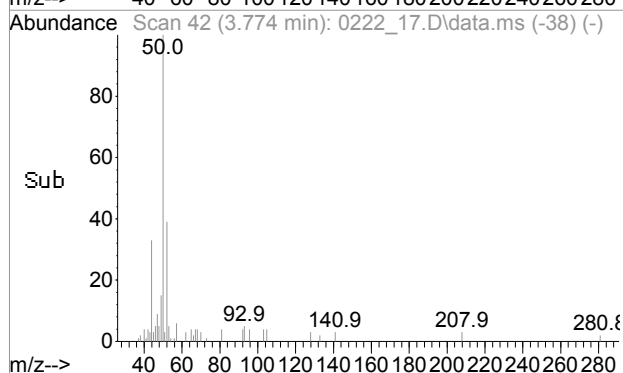
#3
Dichlorodifluoromethane
Concen: 0.50 ppbv
RT: 3.623 min Scan# 21
Delta R.T. -0.007 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

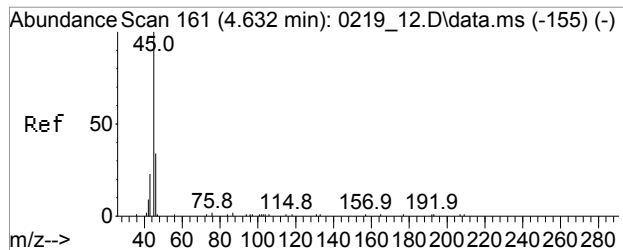
Tgt Ion: 85 Resp: 32215
Ion Ratio Lower Upper
85 100
87 34.3 26.1 39.1
50 15.2 10.5 15.7



#4
Chloromethane
Concen: 0.59 ppbv m
RT: 3.774 min Scan# 42
Delta R.T. -0.014 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

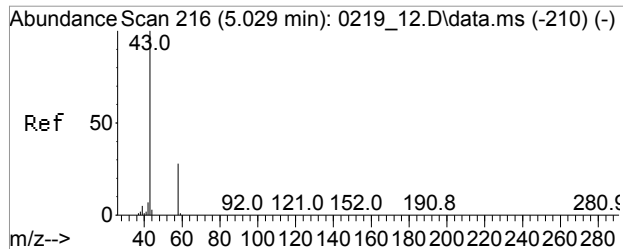
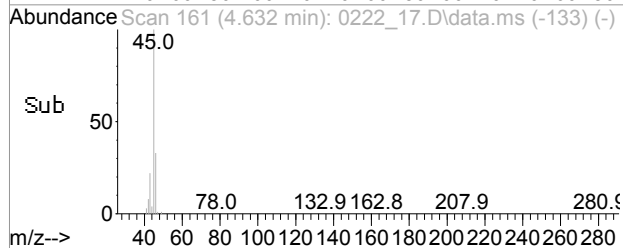
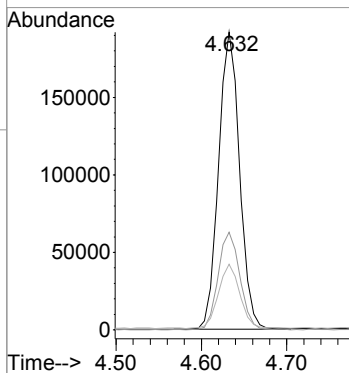
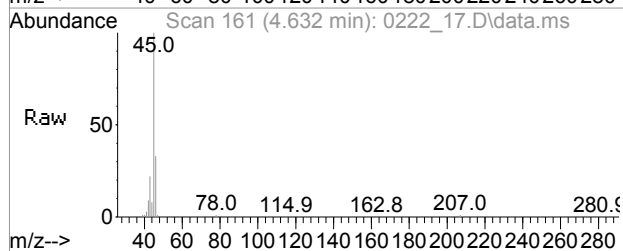
Tgt Ion: 52 Resp: 3079
Ion Ratio Lower Upper
52 100
50 292.3 284.4 324.4





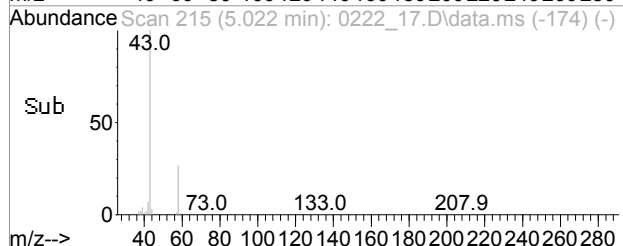
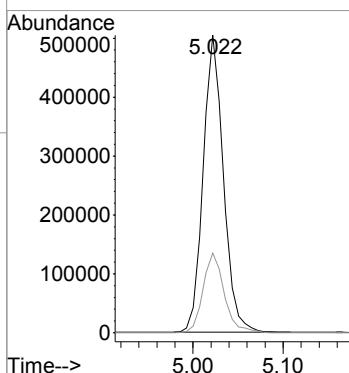
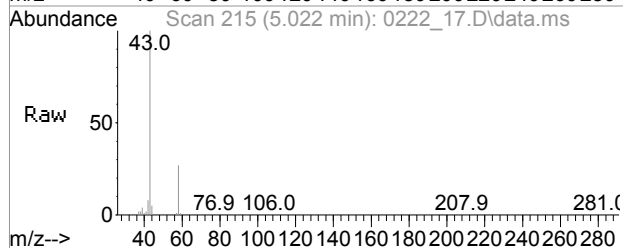
#10
Ethanol
Concen: 68.80 ppbv
RT: 4.632 min Scan# 161
Delta R.T. 0.000 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

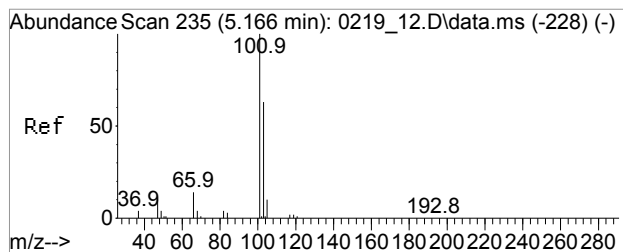
Tgt Ion: 45 Resp: 328017
Ion Ratio Lower Upper
45 100
46 34.2 28.5 42.7
43 22.1 19.7 29.5



#11
Acetone
Concen: 29.33 ppbv
RT: 5.022 min Scan# 215
Delta R.T. -0.007 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

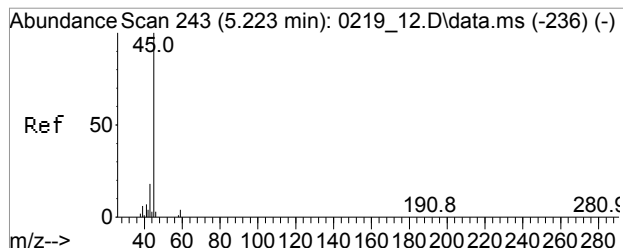
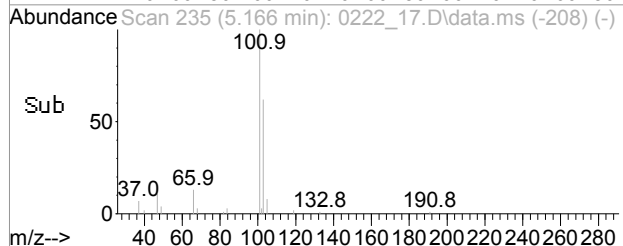
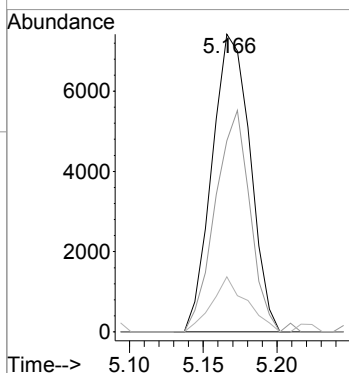
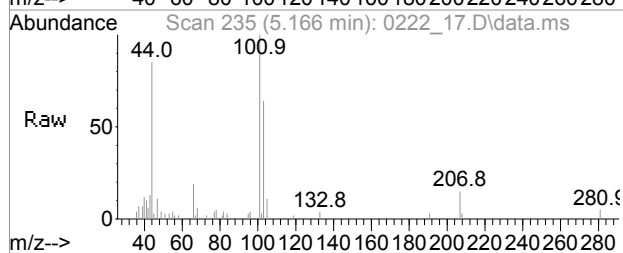
Tgt Ion: 43 Resp: 785382
Ion Ratio Lower Upper
43 100
58 28.2 24.8 37.2





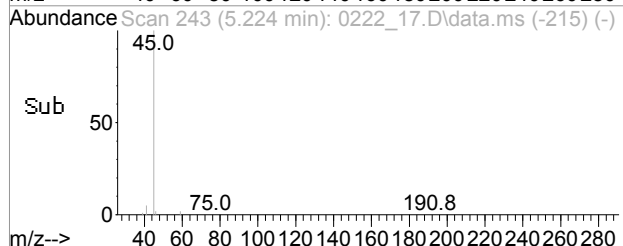
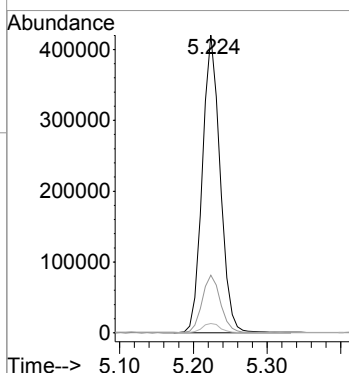
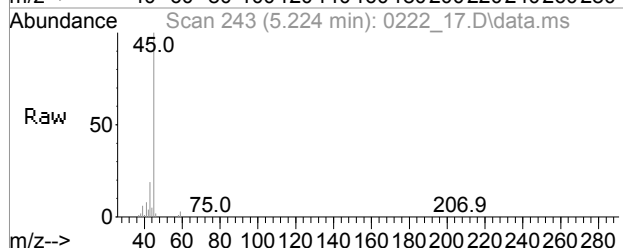
#12
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

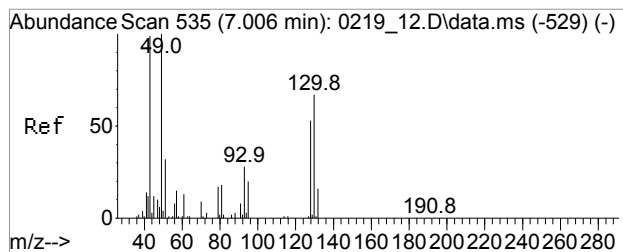
Tgt Ion: 101 Resp: 13352
Ion Ratio Lower Upper
101 100
103 68.6 51.8 77.8
66 17.1 11.1 16.7#



#13
Isopropylalcohol
Concen: 14.35 ppbv
RT: 5.224 min Scan# 243
Delta R.T. 0.001 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

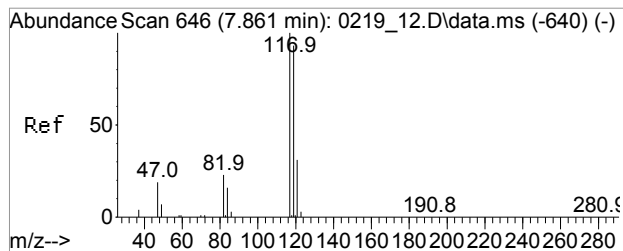
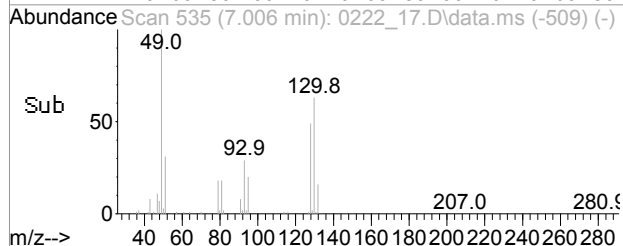
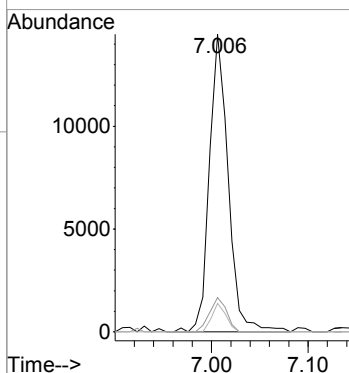
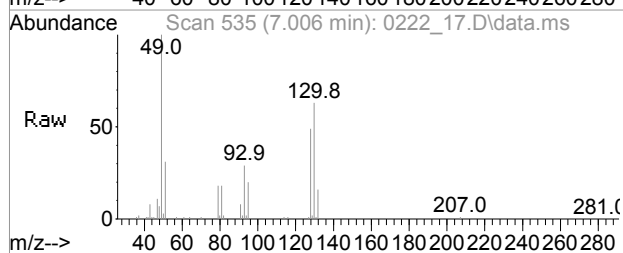
Tgt Ion: 45 Resp: 702695
Ion Ratio Lower Upper
45 100
43 19.8 15.4 23.0
59 3.3 3.0 4.4





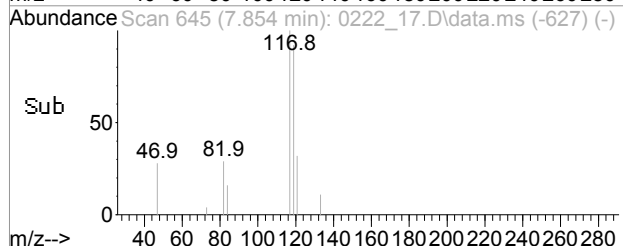
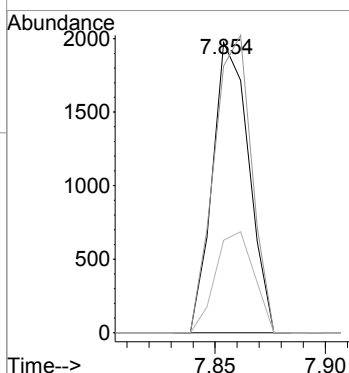
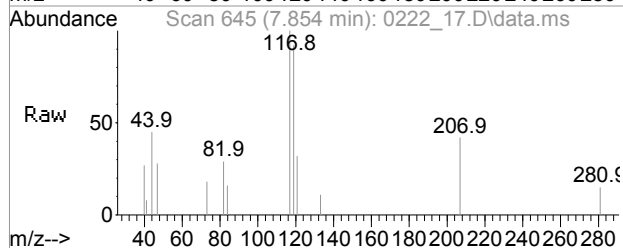
#28
Ethyl acetate
Concen: 0.41 ppbv
RT: 7.006 min Scan# 535
Delta R.T. 0.000 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

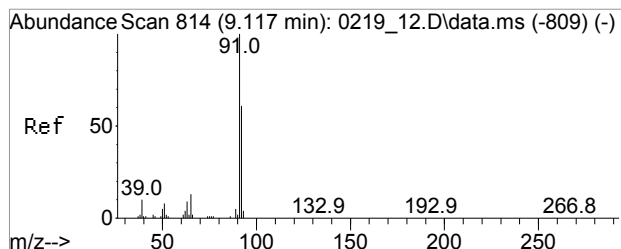
Tgt Ion: 43 Resp: 19657
Ion Ratio Lower Upper
43 100
61 10.5 8.3 12.5
70 7.3 5.8 8.6



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

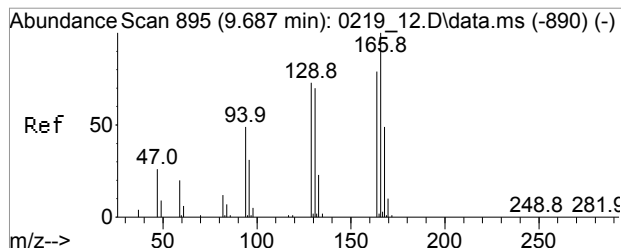
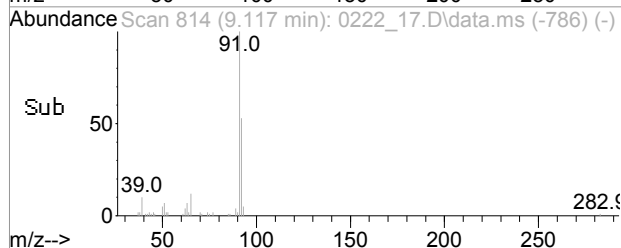
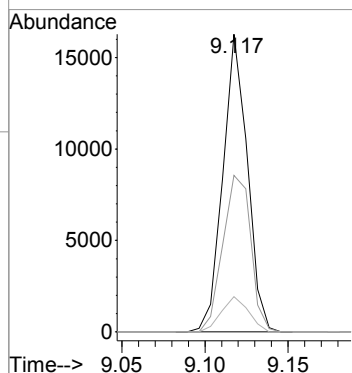
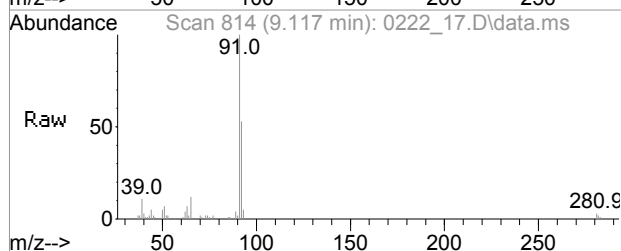
Tgt Ion: 117 Resp: 2253
Ion Ratio Lower Upper
117 100
119 106.0 75.9 115.9
121 36.9 10.8 50.8





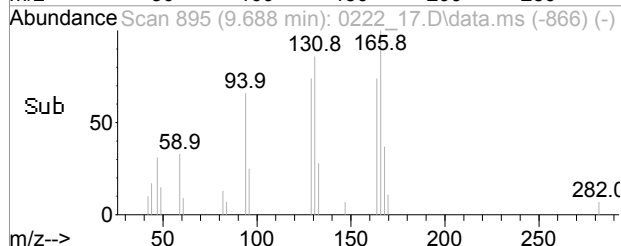
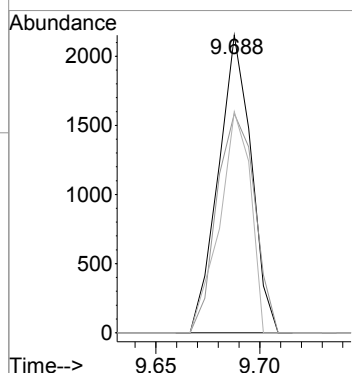
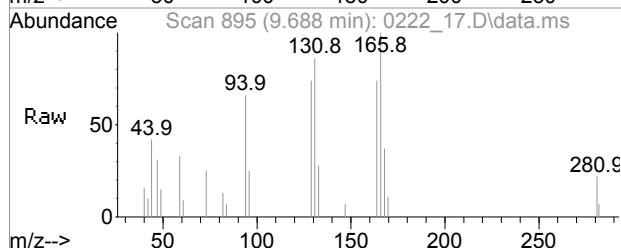
#47
Toluene
Concen: 0.54 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

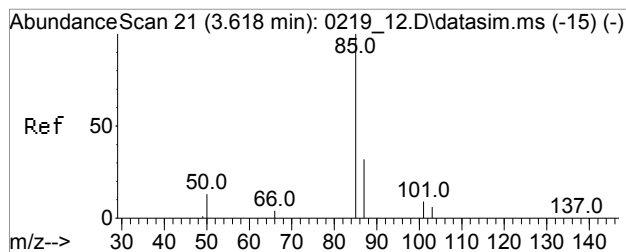
Tgt Ion: 91 Resp: 16655
Ion Ratio Lower Upper
91 100
92 59.8 47.7 71.5
65 13.1 9.5 14.3



#51
Tetrachloroethene
Concen: Below Cal
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

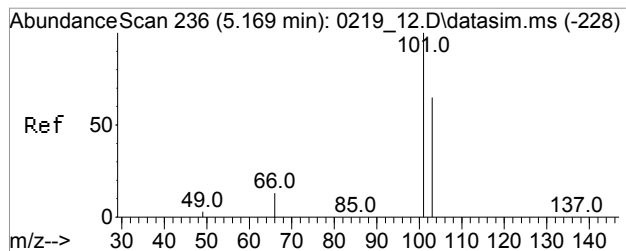
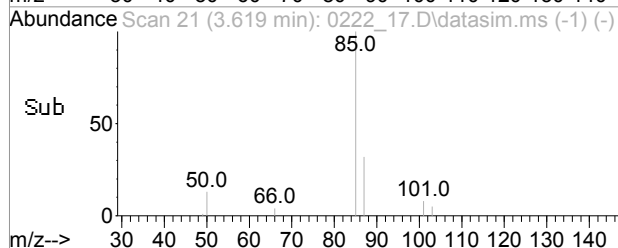
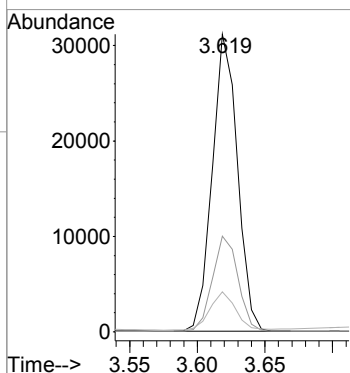
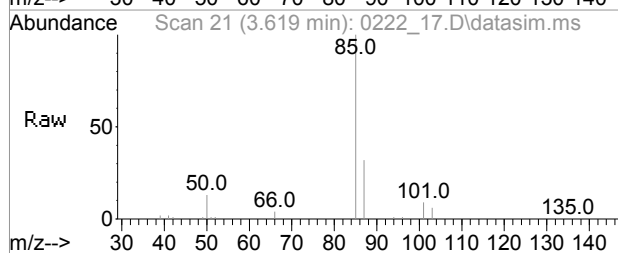
Tgt Ion: 166 Resp: 2369
Ion Ratio Lower Upper
166 100
164 84.6 62.2 93.4
129 70.5 56.6 84.8





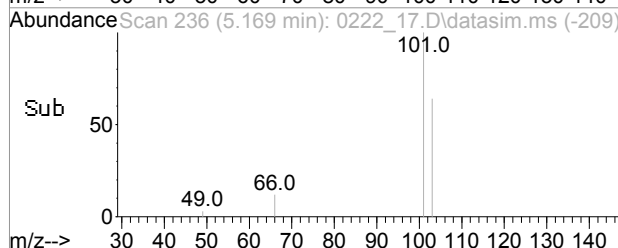
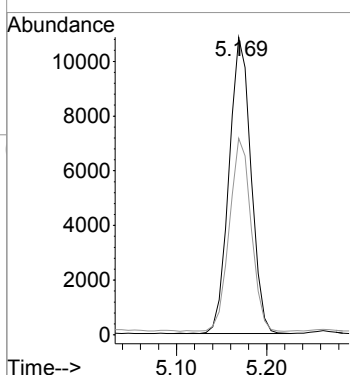
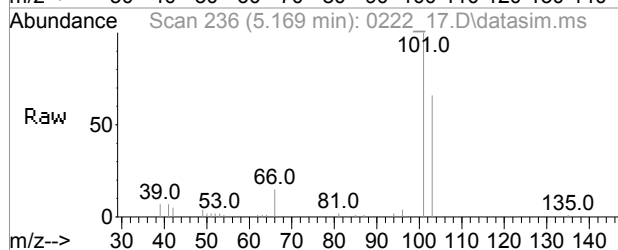
#80
Dichlorodifluoromethane(sim)
Concen: 0.51 ppbv
RT: 3.619 min Scan# 21
Delta R.T. -0.006 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

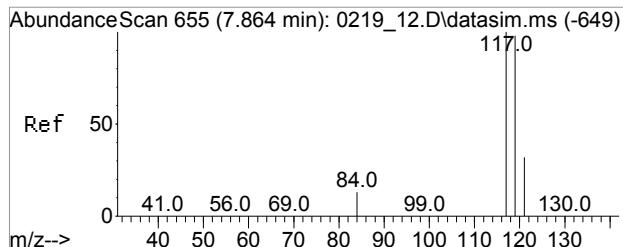
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.6	12.7	52.7
50	13.2	0.0	32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.25 ppbv
RT: 5.169 min Scan# 236
Delta R.T. -0.007 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

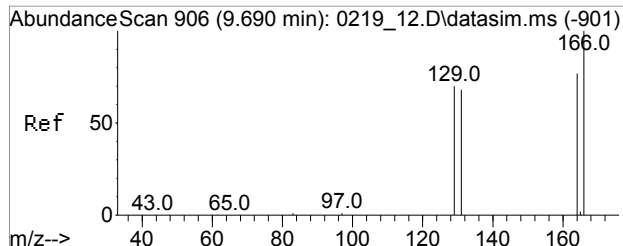
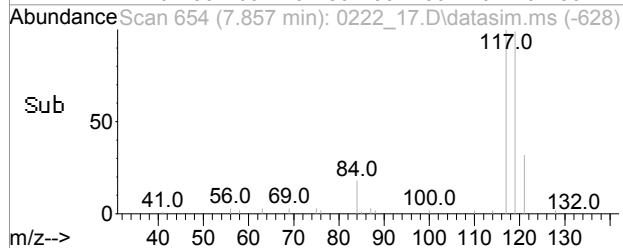
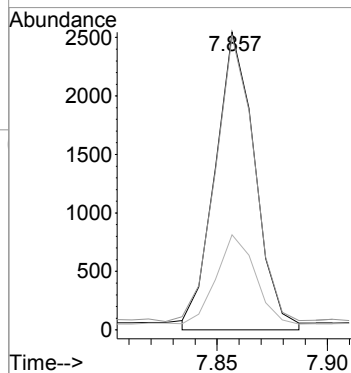
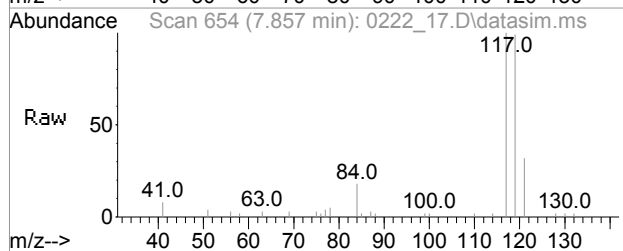
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.0	78.0





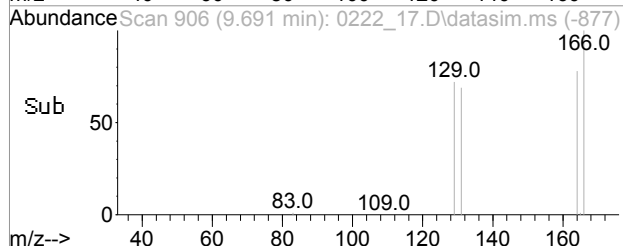
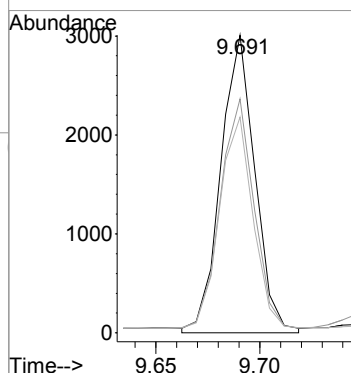
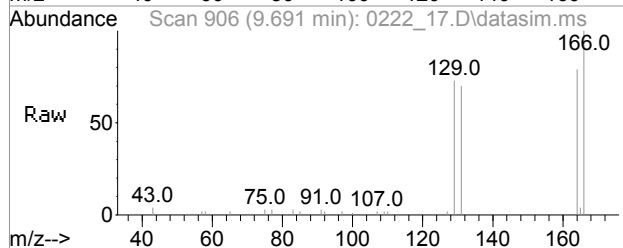
#87
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

Tgt Ion:	117	Resp:	2253
Ion	Ratio	Lower	Upper
117	100		
119	106.0	76.7	115.1
121	33.4	24.6	37.0



#105
Tetrachloroethene(sim)
Concen: 0.12 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_17.D
Acq: 22 Feb 2016 10:21 pm

Tgt Ion:	166	Resp:	2369
Ion	Ratio	Lower	Upper
166	100		
164	84.6	57.8	97.8
129	70.5	50.7	90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67653 10X</u>
Canister:	<u>217</u>	Lab File ID:	<u>0222_20.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	16.6		5.81	5.81	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	12.5	S	5.31	5.31	r
67-64-1	Acetone	34.8	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
75-15-0	Carbon Disulfide	4.46		3.21	3.21	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
110-54-3	Hexane	3.14	S	2.84	2.84	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	8.75		0.466	0.466	r
142-82-5	Heptane	3.17		2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	8.35		2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	620	E	0.369	0.369	
100-41-4	Ethylbenzene	3.35		2.30	2.30	r
179601-23-1	m,p-Xylene	13.3		2.30	2.30	r
95-47-6	o-Xylene	6.51		2.30	2.30	r
622-96-8	4-Ethyltoluene	2.58		2.04	2.04	r
108-67-8	1,3,5-Trimethylbenzene	4.62		2.04	2.04	r
95-63-6	1,2,4-Trimethylbenzene	15.6		2.04	2.04	r
135-98-8	sec-Butylbenzene	11.8		1.82	1.82	r
75-71-8	Dichlorodifluoromethane(sim)	2.02	U	2.02	2.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67653 10X</u>
Canister:	<u>217</u>	Lab File ID:	<u>0222_20.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r
156-60-5	Trans-1,2-Dichloroethene(sim)	2.52	U	2.52	2.52	r
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r
156-59-2	Cis-1,2-Dichloroethene(sim)	2.52	U	2.52	2.52	r
67-66-3	Chloroform(sim)	2.05	U	2.05	2.05	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_20.D
 Acq On : 23 Feb 2016 12:17 am
 Operator : CORTEX\ms
 Client ID : SS-5
 Lab ID : BK67653 10X
 ALS Vial : 1 Sample Multiplier: 1

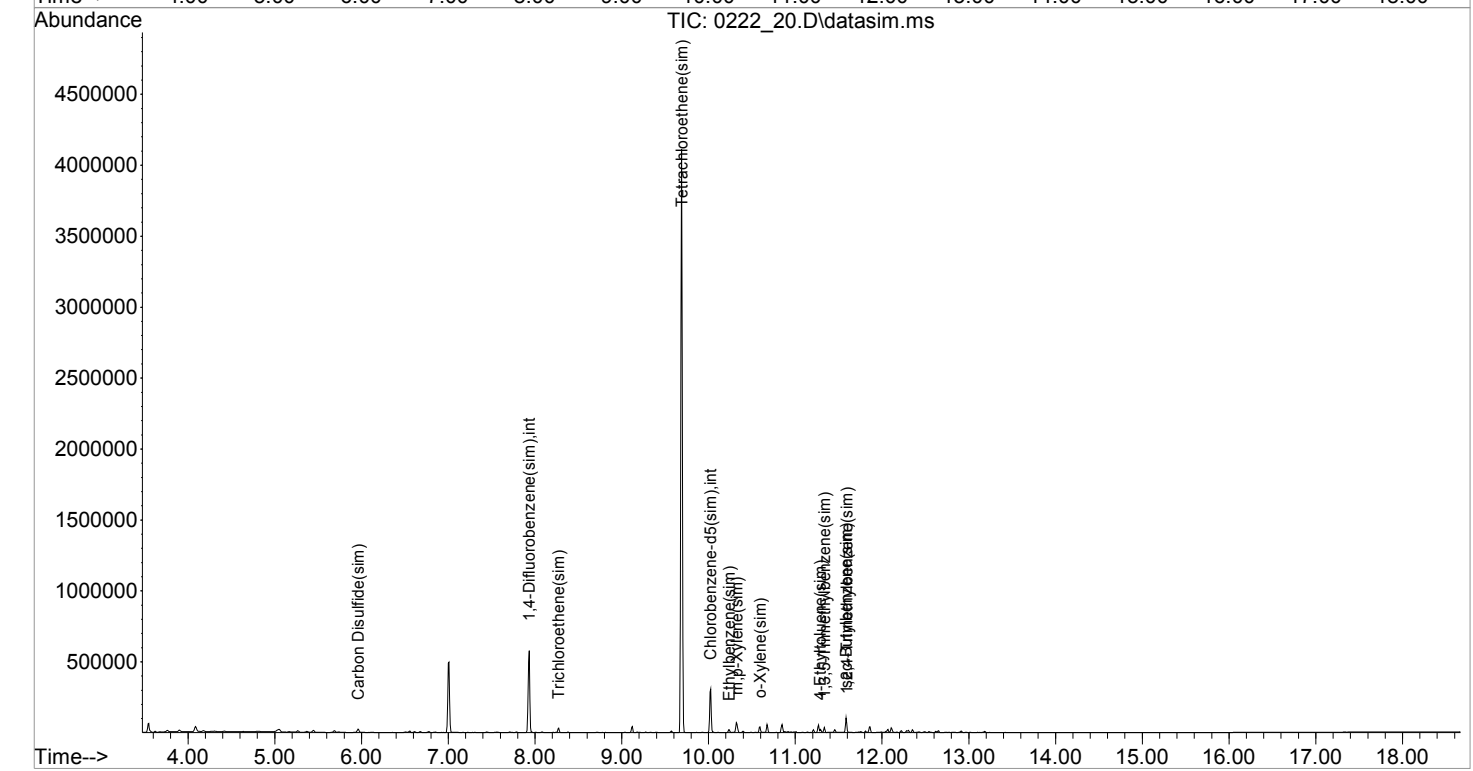
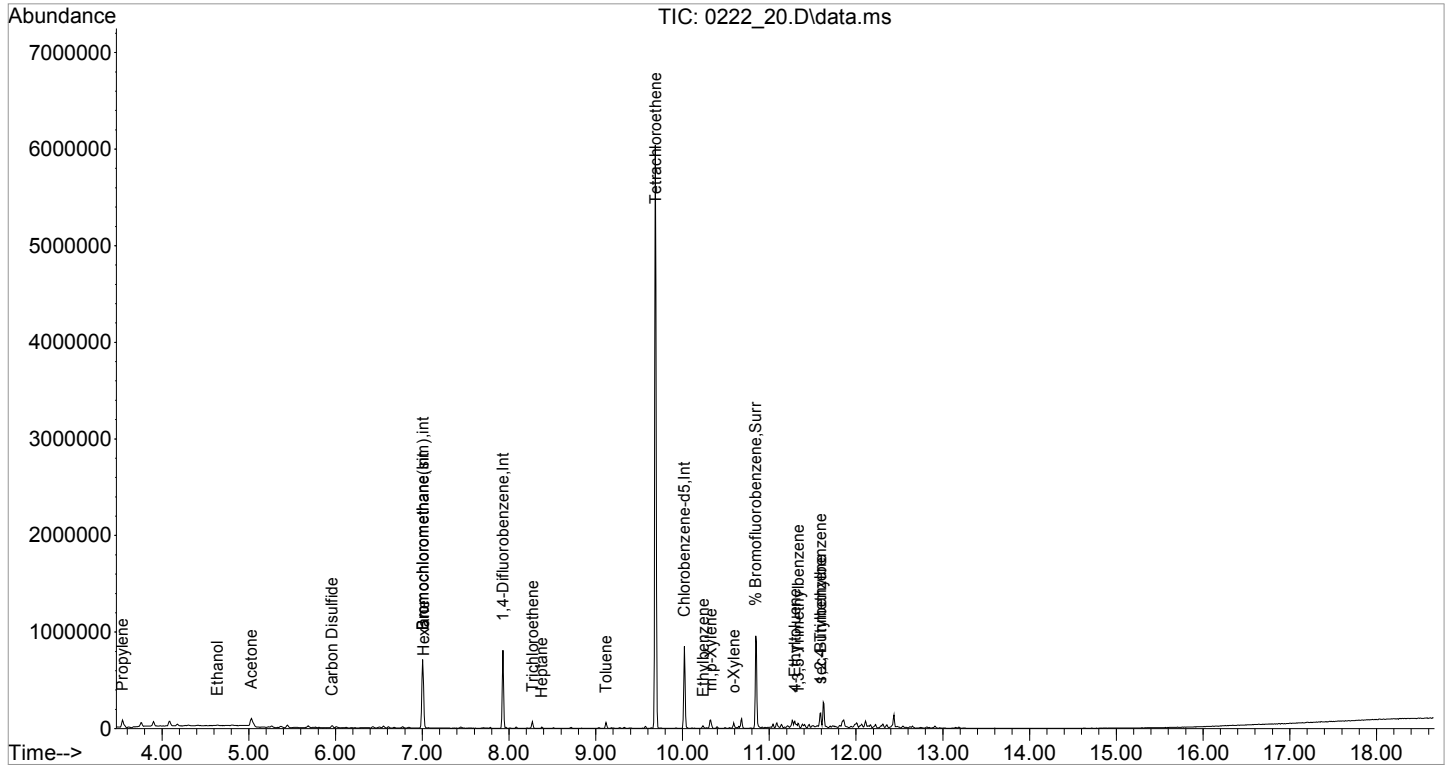
Quant Time: Feb 23 08:24:24 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

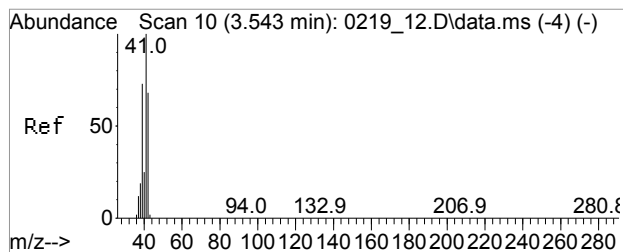
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	141799	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	372464	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	160213	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	141799	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	449179	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	175820	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	220748	10.434	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 104.30%		
Target Compounds						
2) Propylene	3.543	41	36630	1.663	ppbv	96
10) Ethanol	4.639	45	5635	1.254	ppbv#	79
11) Acetone	5.029	43	87932	3.483	ppbv	92
19) Carbon Disulfide	5.958	76	25505	0.446	ppbv#	91
26) Hexane	7.013	57	5697	0.314	ppbv#	67
38) Trichloroethene	8.270	130	11321	0.875	ppbv	97
42) Heptane	8.376	43	3828	0.316	ppbv	87
47) Toluene	9.117	91	23393	0.835	ppbv	96
51) Tetrachloroethene	9.687	166	1167766	62.210	ppbv	99
55) Ethylbenzene	10.236	91	13127	0.335	ppbv	94
56) m,p-Xylene	10.325	91	39067	1.330	ppbv	98
60) o-Xylene	10.591	91	20646	0.651	ppbv	97
65) 4-Ethyltoluene	11.295	105	11282m	0.258	ppbv	
66) 1,3,5-Trimethylbenzene	11.332	105	16816	0.462	ppbv	97
67) 1,2,4-Trimethylbenzene	11.592	105	52371	1.563	ppbv#	83
72) sec-Butylbenzene	11.592	105	52371	1.175	ppbv#	75
89] Carbon Disulfide(sim)	5.958	76	25505	0.443	ppbv#	91
99] Trichloroethene(sim)	8.270	130	11321	0.736	ppbv	97
105] Tetrachloroethene(sim)	9.687	166	1167878	61.829	ppbv	99
110] Ethylbenzene(sim)	10.239	91	14129	0.299	ppbv	98
111] m,p-Xylene(sim)	10.325	91	39067	1.136	ppbv	98
114] o-Xylene(sim)	10.594	91	22962	0.597	ppbv	98
117] 4-Ethyltoluene(sim)	11.291	105	10539m	0.213	ppbv	
118] 1,3,5-Trimethylbenzene...	11.335	105	18127	0.422	ppbv	97
119] 1,2,4-Trimethylbenzene...	11.592	105	52371	1.396	ppbv#	82
124] sec-Butylbenzene(sim)	11.587	105	53926	0.965	ppbv	80

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_20.D
Acq On : 23 Feb 2016 12:17 am
Operator : CORTEX\ms
Client ID : SS-5
Lab ID : BK67653 10X
ALS Vial : 1 Sample Multiplier: 1

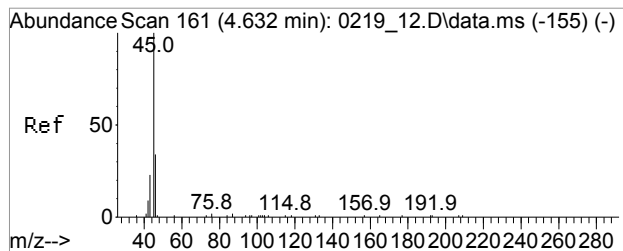
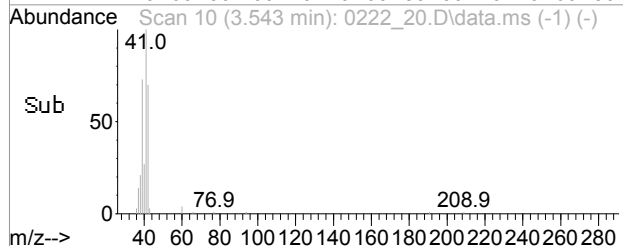
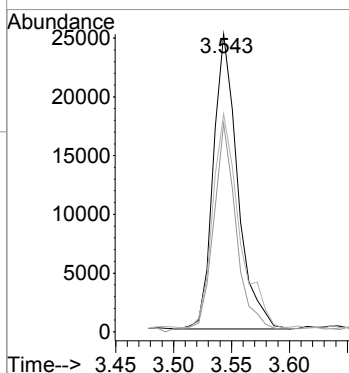
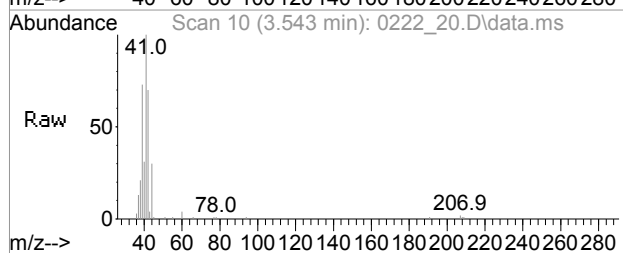
Quant Time: Feb 23 08:24:24 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





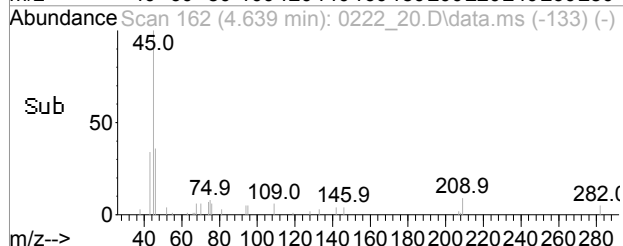
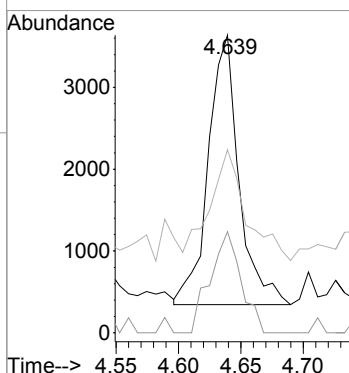
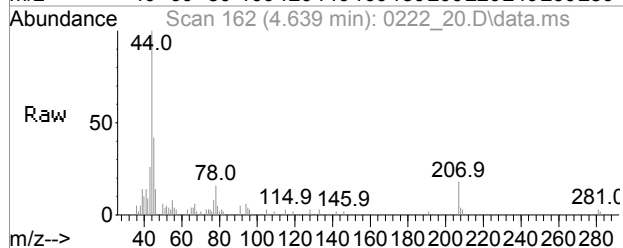
#2
Propylene
Concen: 1.66 ppbv
RT: 3.543 min Scan# 10
Delta R.T. -0.007 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

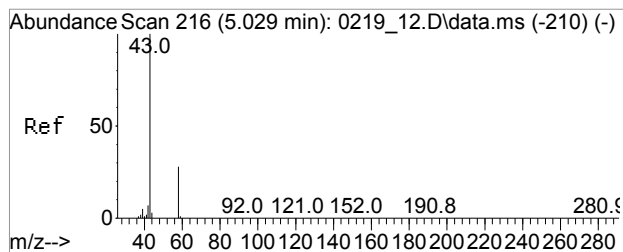
Tgt Ion: 41 Resp: 36630
Ion Ratio Lower Upper
41 100
42 66.7 52.7 79.1
39 78.8 59.1 88.7



#10
Ethanol
Concen: 1.25 ppbv
RT: 4.639 min Scan# 162
Delta R.T. 0.007 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

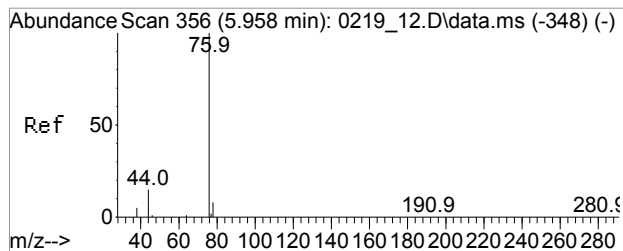
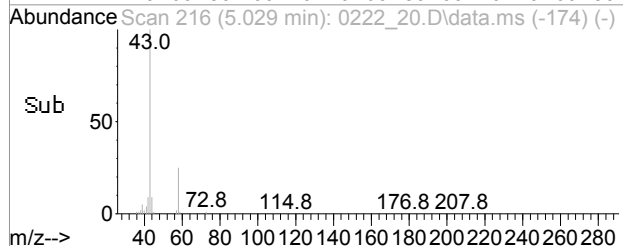
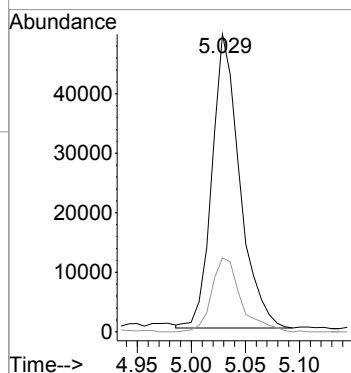
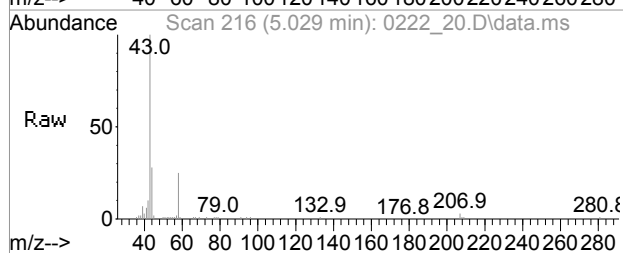
Tgt Ion: 45 Resp: 5635
Ion Ratio Lower Upper
45 100
46 37.6 28.5 42.7
43 48.2 19.7 29.5#





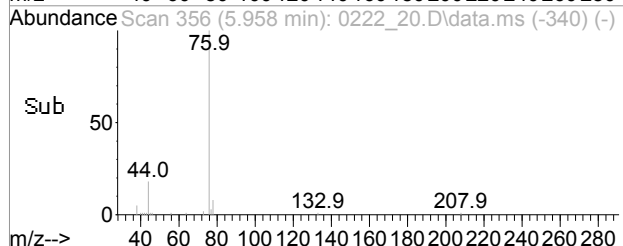
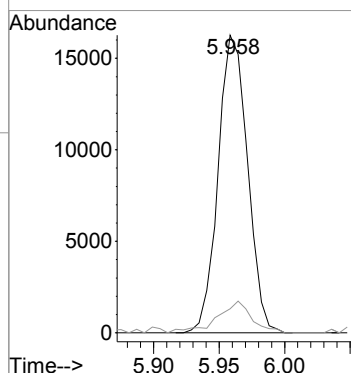
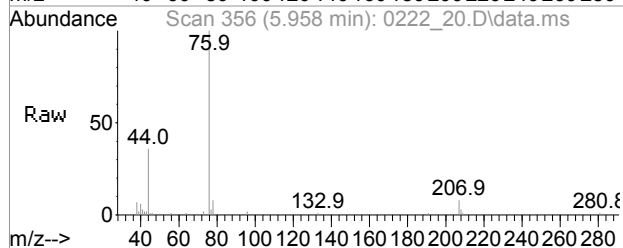
#11
Acetone
Concen: 3.48 ppbv
RT: 5.029 min Scan# 216
Delta R.T. -0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

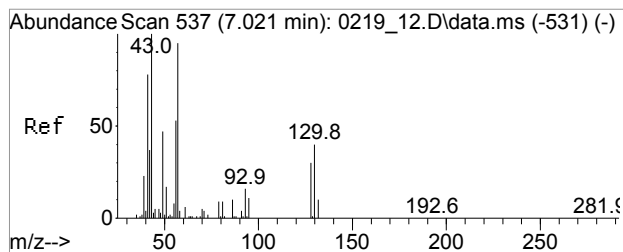
Tgt Ion: 43 Resp: 87932
Ion Ratio Lower Upper
43 100
58 26.6 24.8 37.2



#19
Carbon Disulfide
Concen: 0.45 ppbv
RT: 5.958 min Scan# 356
Delta R.T. -0.006 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

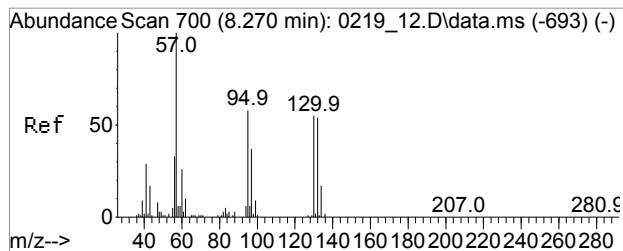
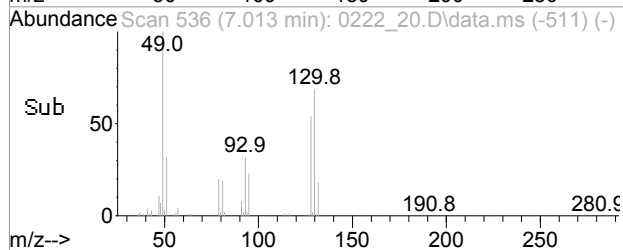
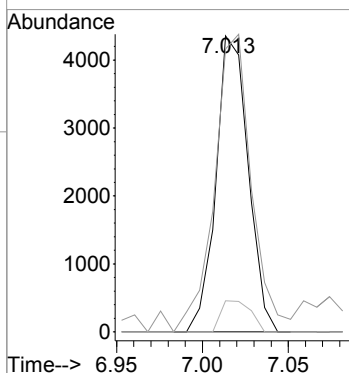
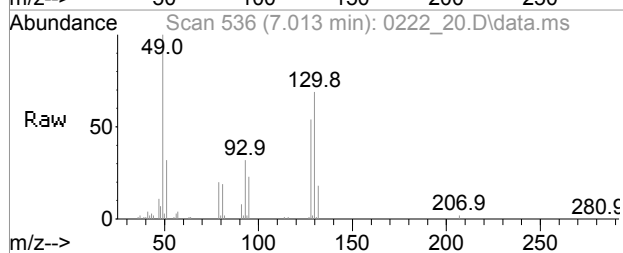
Tgt Ion: 76 Resp: 25505
Ion Ratio Lower Upper
76 100
78 12.4 7.3 10.9#





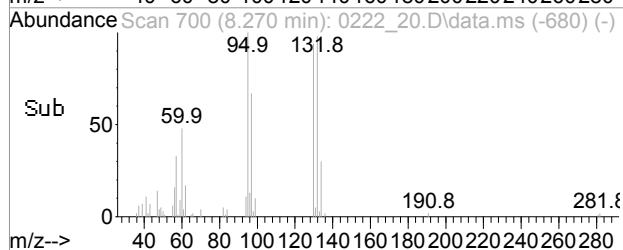
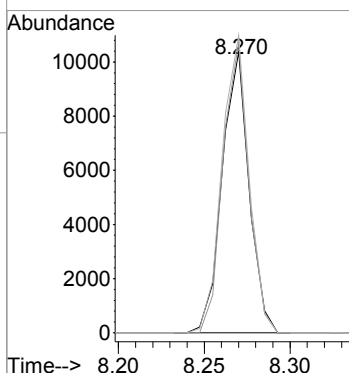
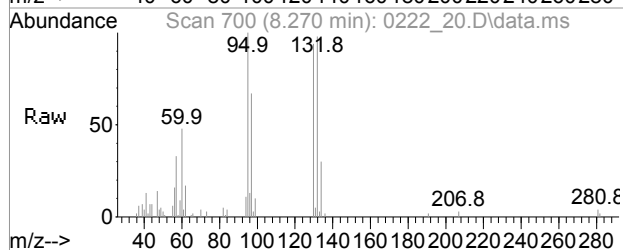
#26
Hexane
Concen: 0.31 ppbv
RT: 7.013 min Scan# 536
Delta R.T. -0.008 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

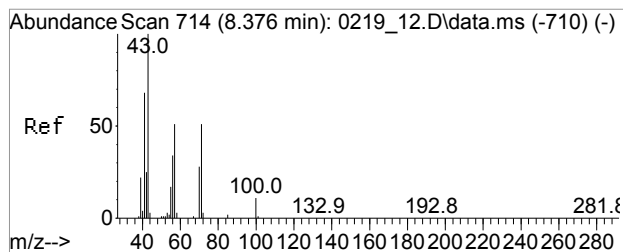
Tgt Ion: 57 Resp: 5697
Ion Ratio Lower Upper
57 100
41 117.8 67.4 101.2#
86 9.7 9.3 13.9



#38
Trichloroethene
Concen: 0.88 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

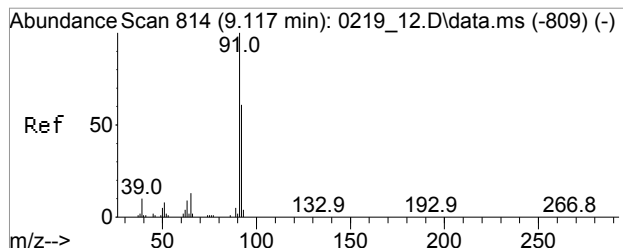
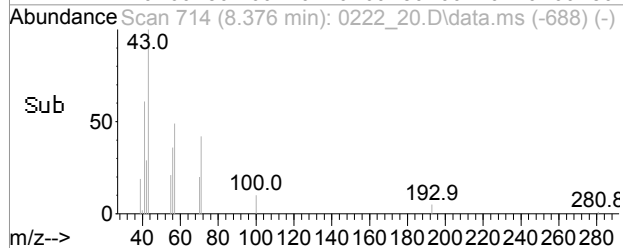
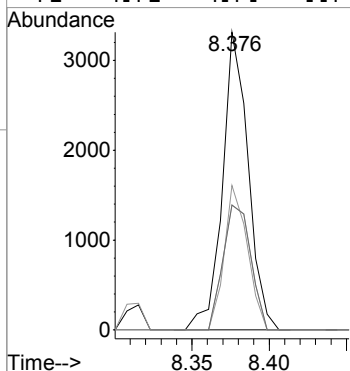
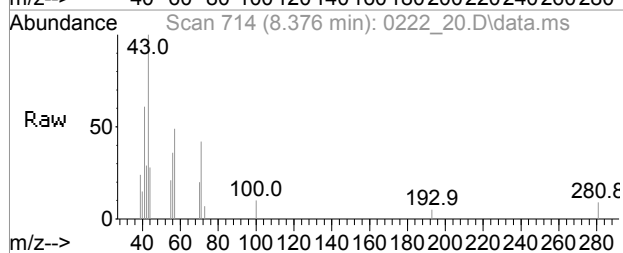
Tgt Ion: 130 Resp: 11321
Ion Ratio Lower Upper
130 100
132 99.0 77.2 115.8
95 106.4 82.7 124.1





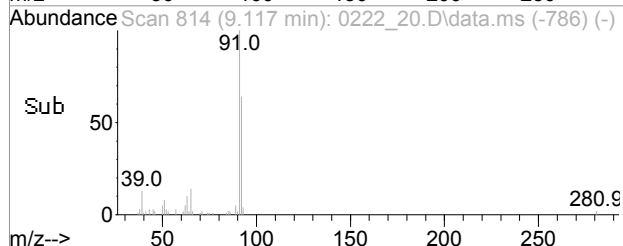
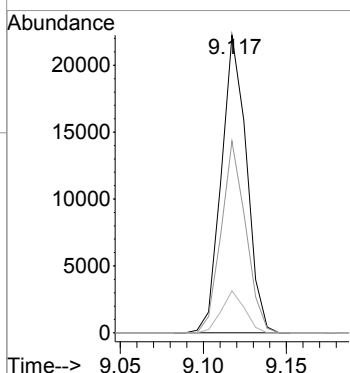
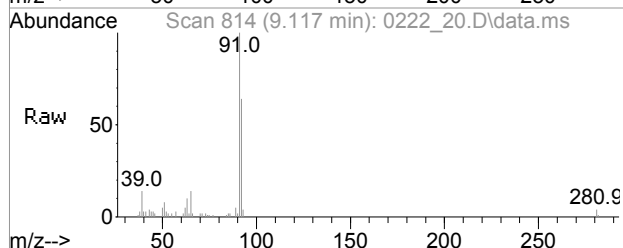
#42
Heptane
Concen: 0.32 ppbv
RT: 8.376 min Scan# 714
Delta R.T. -0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

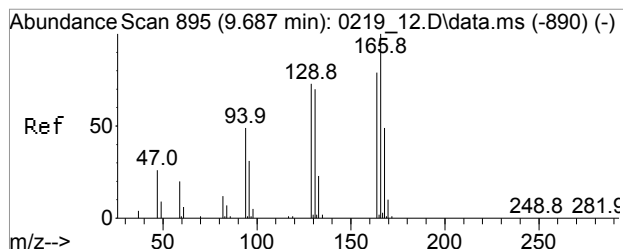
Tgt Ion: 43	Resp: 3828
Ion Ratio	Lower Upper
43 100	
57 43.5	43.0 64.4
71 45.1	43.6 65.4
71 45.1	43.6 65.4



#47
Toluene
Concen: 0.83 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

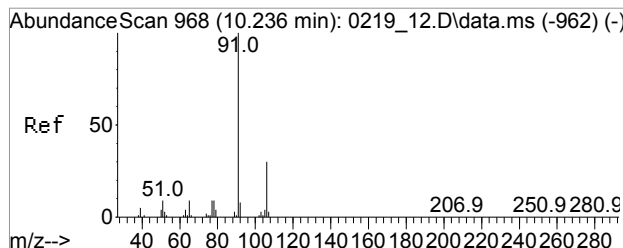
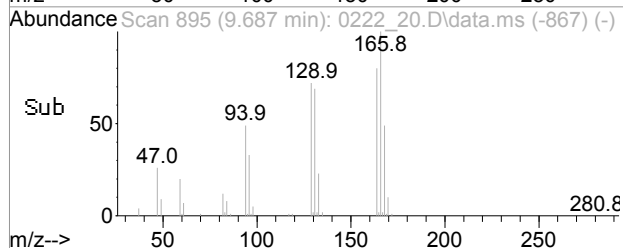
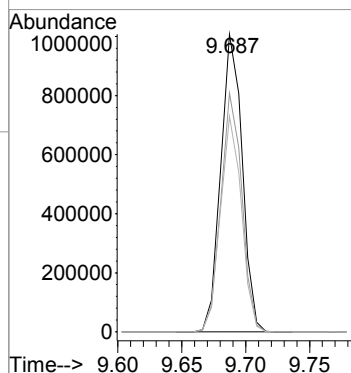
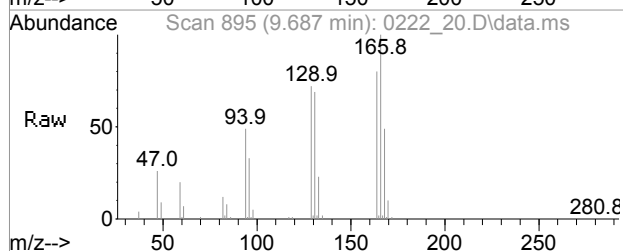
Tgt Ion: 91	Resp: 23393
Ion Ratio	Lower Upper
91 100	
92 62.7	47.7 71.5
65 13.1	9.5 14.3





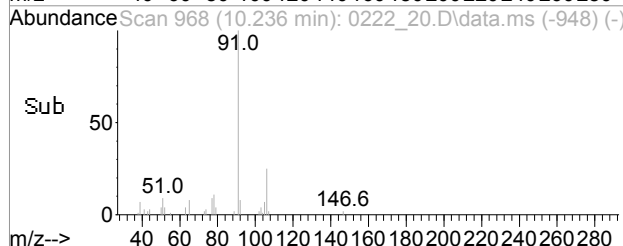
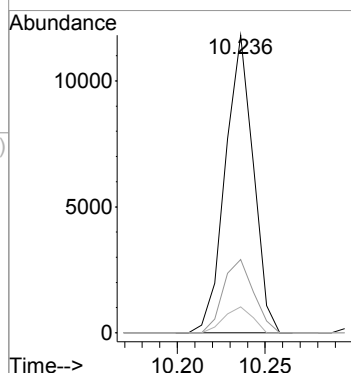
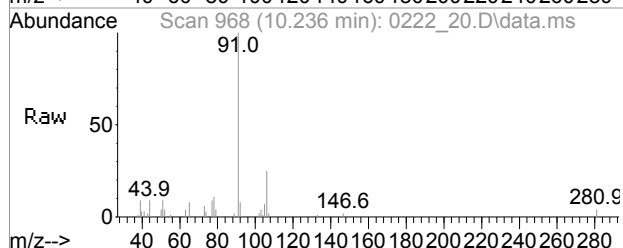
#51
Tetrachloroethene
Concen: 62.21 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

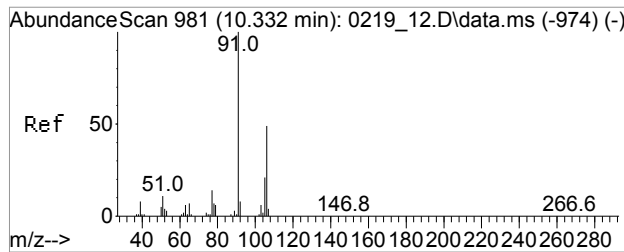
Tgt Ion: 166 Resp: 1167766
Ion Ratio Lower Upper
166 100
164 78.6 62.2 93.4
129 71.1 56.6 84.8



#55
Ethylbenzene
Concen: 0.33 ppbv
RT: 10.236 min Scan# 968
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

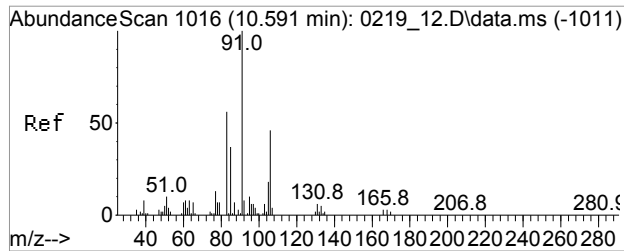
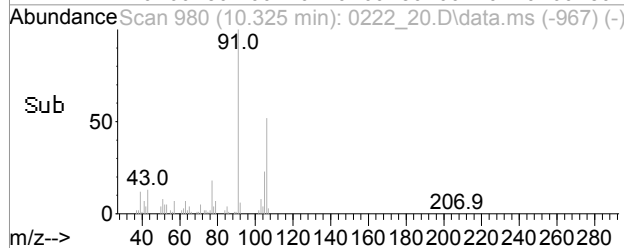
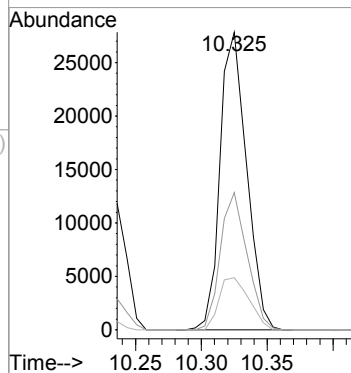
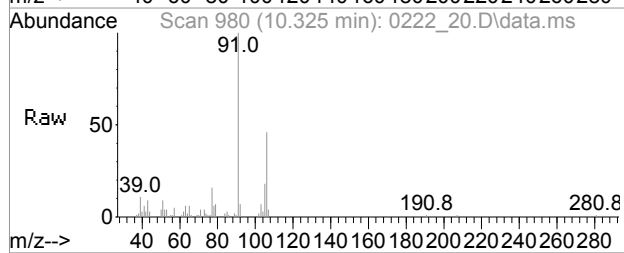
Tgt Ion: 91 Resp: 13127
Ion Ratio Lower Upper
91 100
106 26.8 10.8 50.8
77 8.9 0.0 28.9





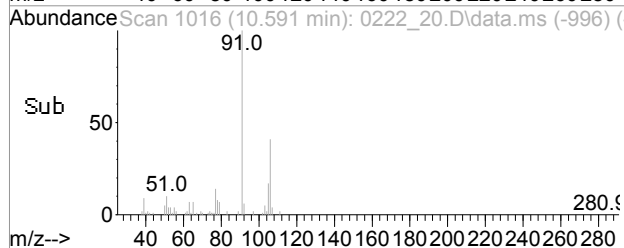
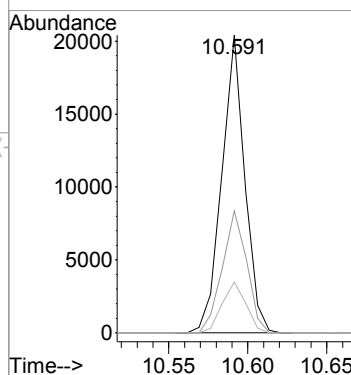
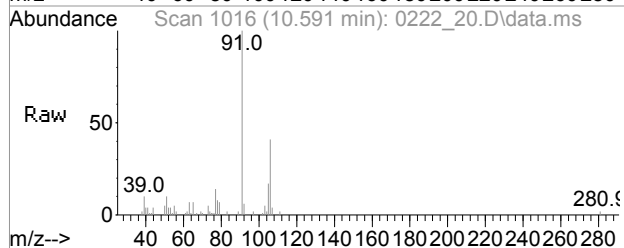
#56
m,p-Xylene
Concen: 1.33 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

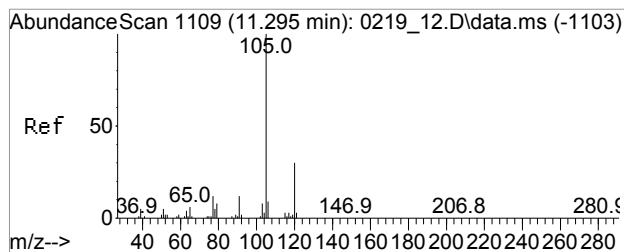
Tgt Ion: 91 Resp: 39067
Ion Ratio Lower Upper
91 100
106 46.8 38.7 58.1
105 19.9 16.6 25.0



#60
o-Xylene
Concen: 0.65 ppbv
RT: 10.591 min Scan# 1016
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

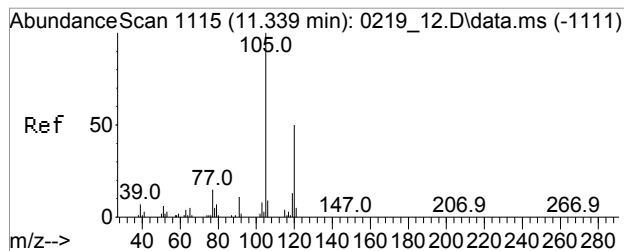
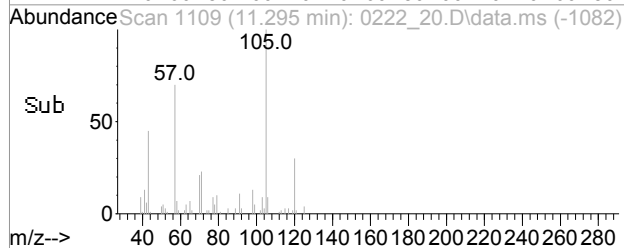
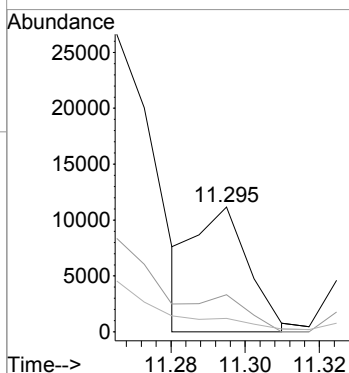
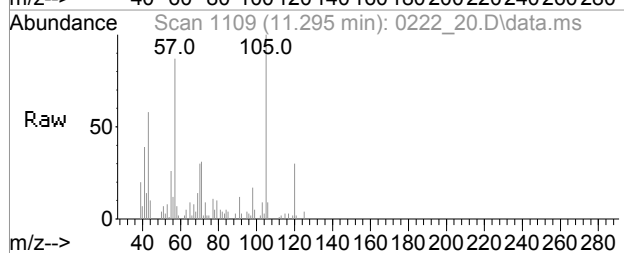
Tgt Ion: 91 Resp: 20646
Ion Ratio Lower Upper
91 100
106 43.7 37.4 56.2
105 17.6 14.1 21.1





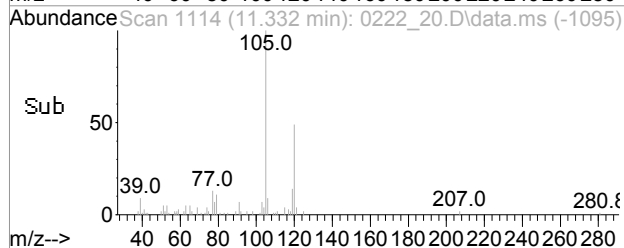
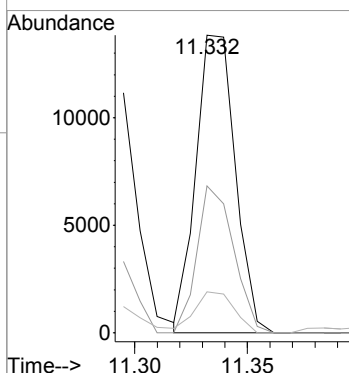
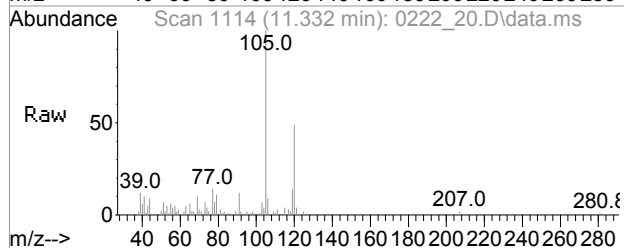
#65
4-Ethyltoluene
Concen: 0.26 ppbv m
RT: 11.295 min Scan# 1109
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

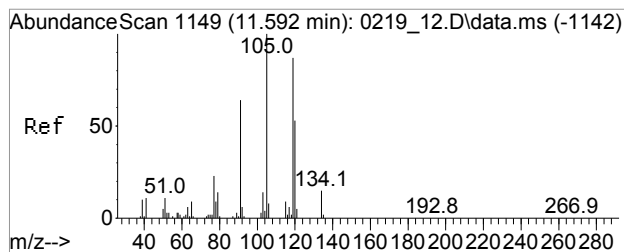
Tgt Ion:105 Resp: 11282
Ion Ratio Lower Upper
105 100
120 109.0 23.3 34.9#
77 56.5 10.0 15.0#



#66
1,3,5-Trimethylbenzene
Concen: 0.46 ppbv
RT: 11.332 min Scan# 1114
Delta R.T. -0.007 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

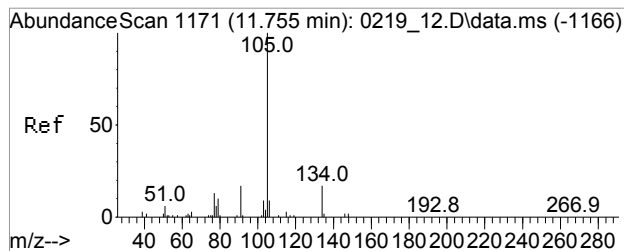
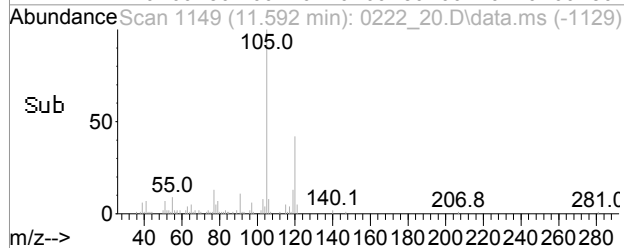
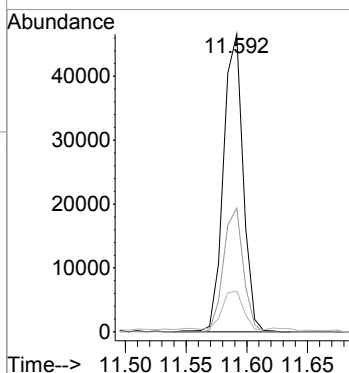
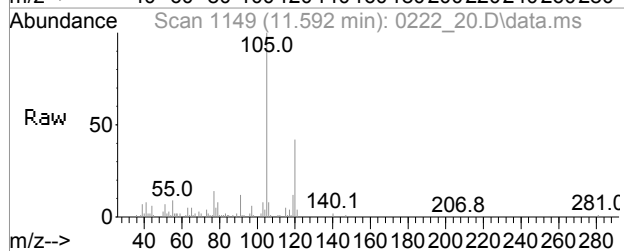
Tgt Ion:105 Resp: 16816
Ion Ratio Lower Upper
105 100
120 46.0 38.6 57.8
77 13.7 11.3 16.9





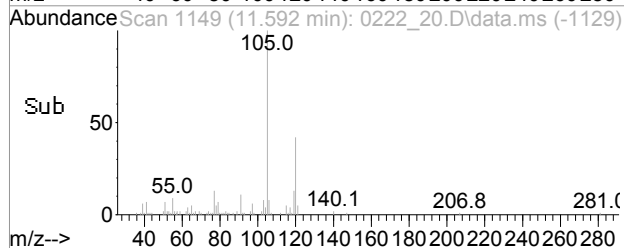
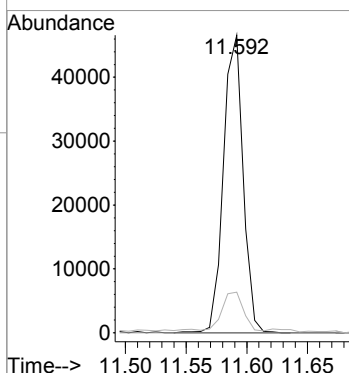
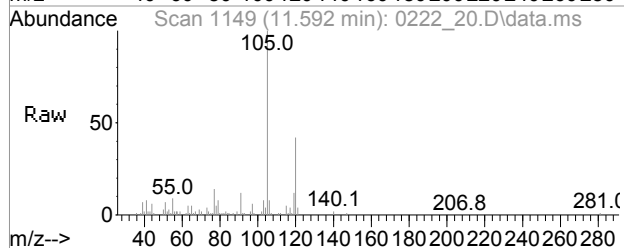
#67
1,2,4-Trimethylbenzene
Concen: 1.56 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

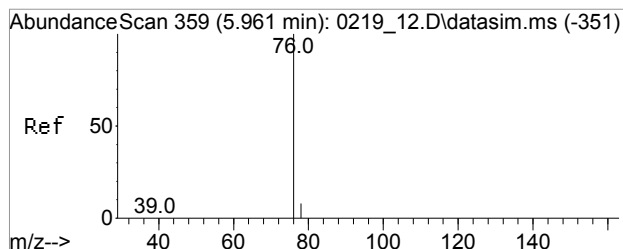
Tgt Ion:105 Resp: 52371
Ion Ratio Lower Upper
105 100
120 41.9 43.5 65.3#
77 16.7 20.2 30.4#



#72
sec-Butylbenzene
Concen: 1.18 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

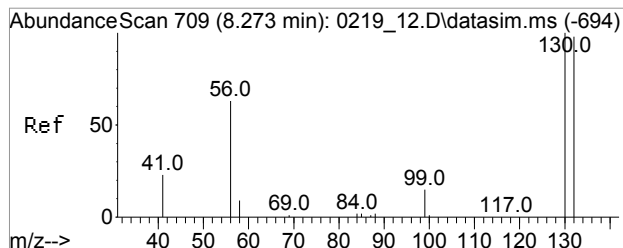
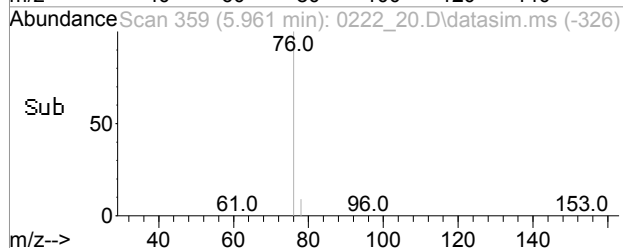
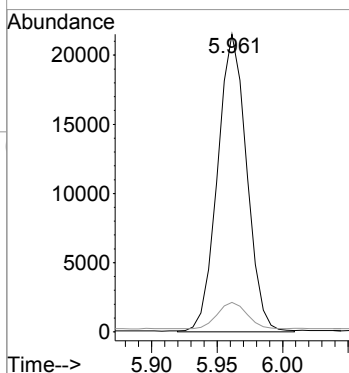
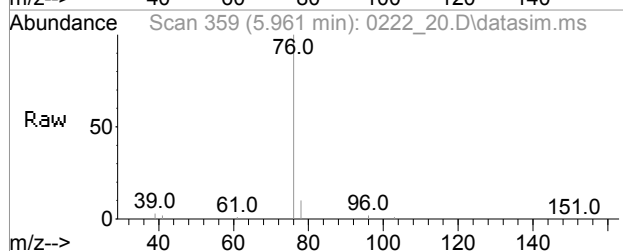
Tgt Ion:105 Resp: 52371
Ion Ratio Lower Upper
105 100
134 0.0 13.7 20.5#
77 16.7 11.0 16.4#





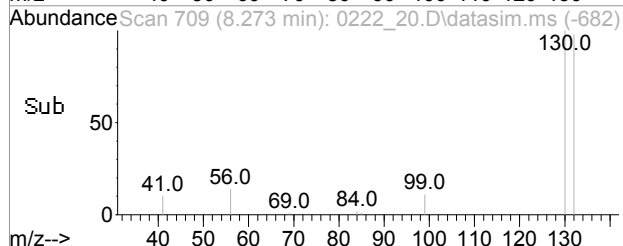
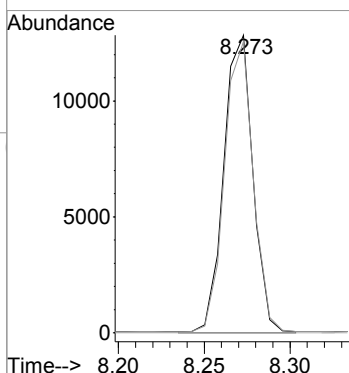
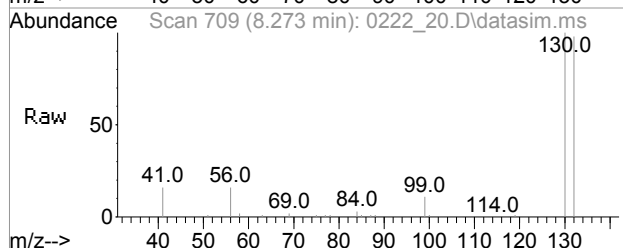
#89
Carbon Disulfide(sim)
Concen: 0.44 ppbv
RT: 5.958 min Scan# 359
Delta R.T. -0.006 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

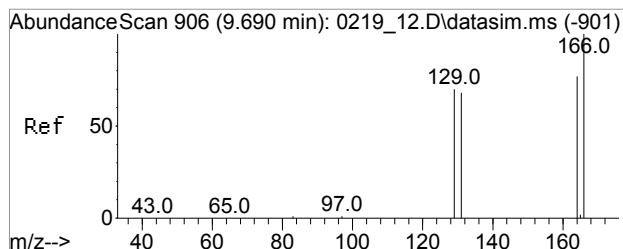
Tgt Ion: 76 Resp: 25505
Ion Ratio Lower Upper
76 100
78 12.4 7.3 10.9#



#99
Trichloroethene(sim)
Concen: 0.74 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

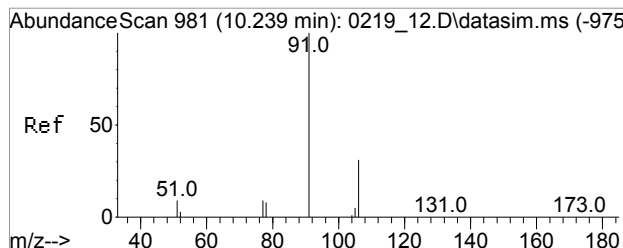
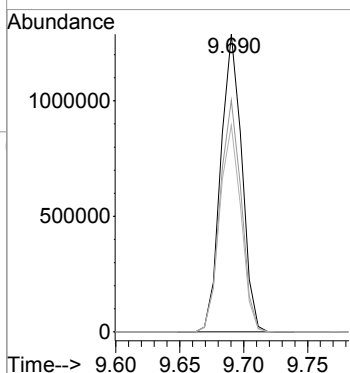
Tgt Ion:130 Resp: 11321
Ion Ratio Lower Upper
130 100
132 99.0 77.2 115.8
97 69.1 53.5 80.3





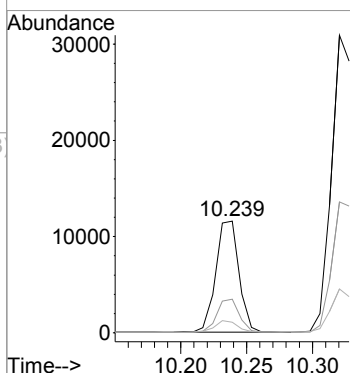
#105
Tetrachloroethene(sim)
Concen: 61.83 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

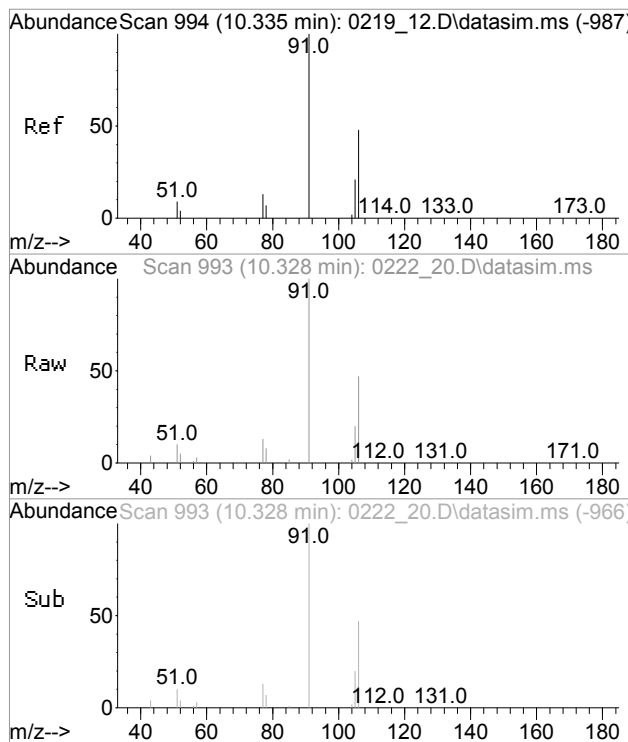
Tgt Ion:166 Resp: 1167878
Ion Ratio Lower Upper
166 100
164 78.6 57.8 97.8
129 71.1 50.7 90.7



#110
Ethylbenzene(sim)
Concen: 0.30 ppbv
RT: 10.239 min Scan# 981
Delta R.T. 0.008 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

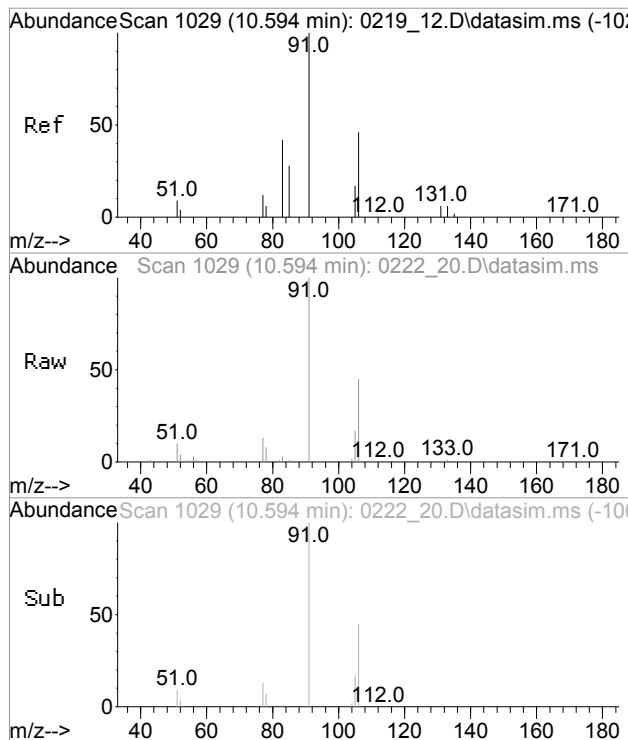
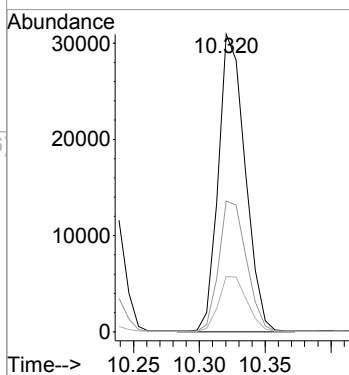
Tgt Ion: 91 Resp: 14129
Ion Ratio Lower Upper
91 100
106 29.1 24.0 36.0
77 9.8 7.3 10.9





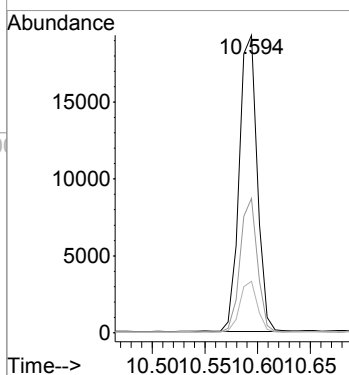
#111
m,p-Xylene(sim)
Concen: 1.14 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

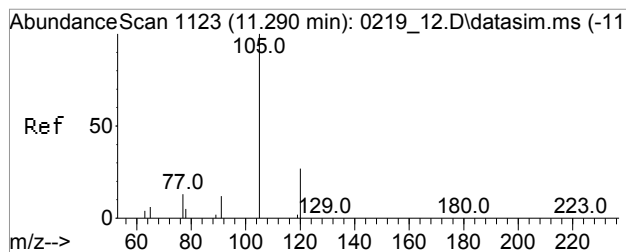
Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.8	43.6	53.2
105	19.9	16.6	25.0



#114
o-Xylene(sim)
Concen: 0.60 ppbv
RT: 10.594 min Scan# 1029
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

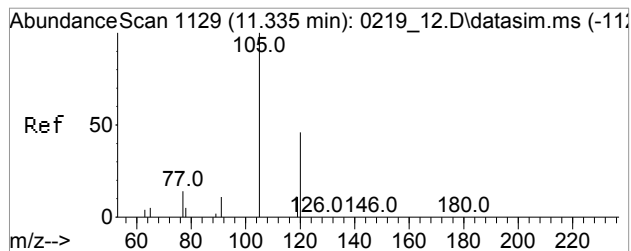
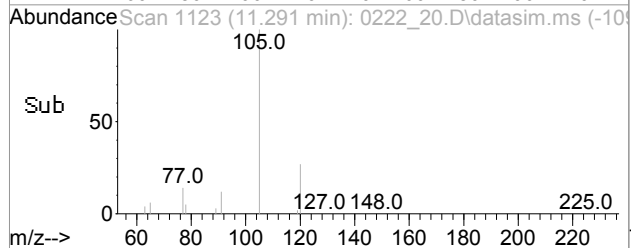
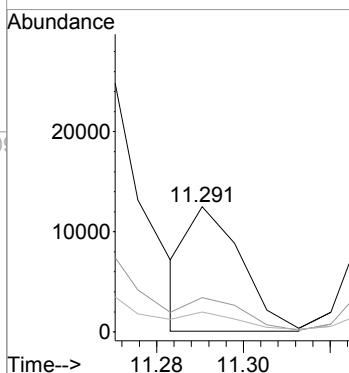
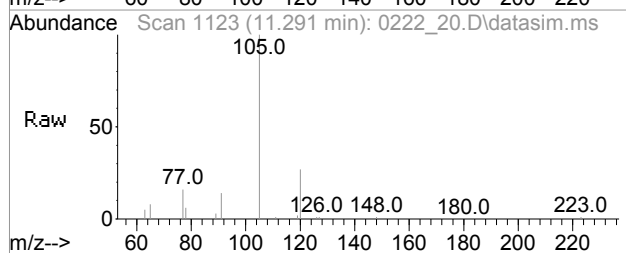
Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.3	36.0	54.0
105	16.5	13.8	20.8





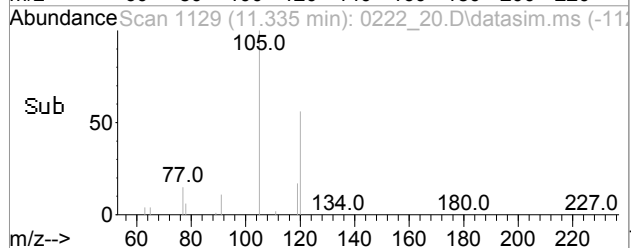
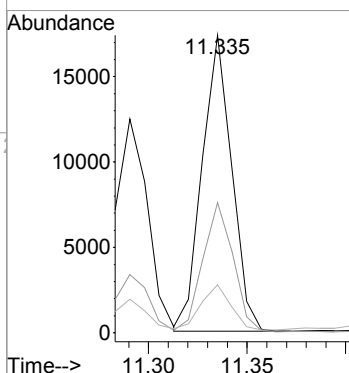
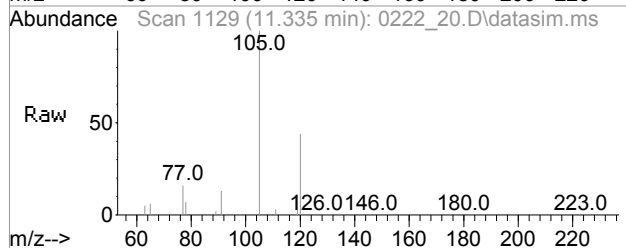
#117
4-Ethyltoluene(sim)
Concen: 0.21 ppbv m
RT: 11.291 min Scan# 1123
Delta R.T. -0.004 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

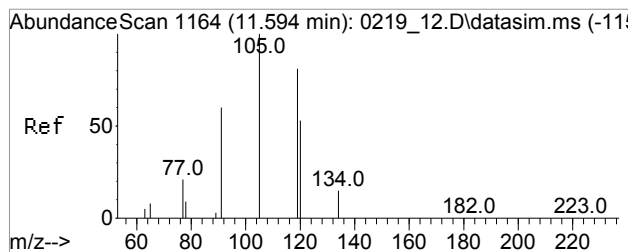
Tgt Ion:105 Resp: 10539
Ion Ratio Lower Upper
105 100
120 116.7 23.3 34.9#
77 60.4 10.0 15.0#



#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.42 ppbv
RT: 11.335 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

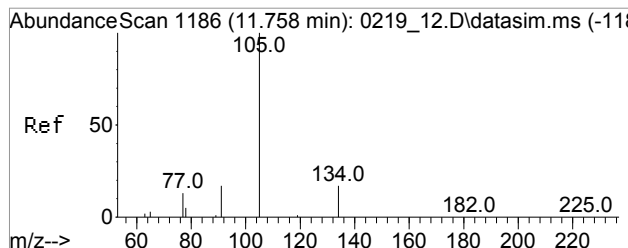
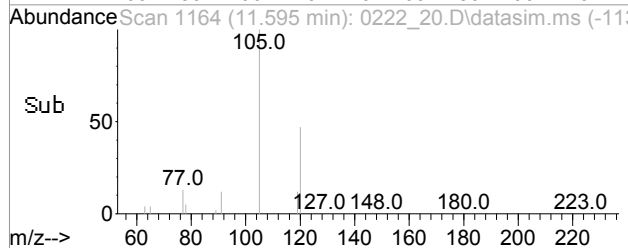
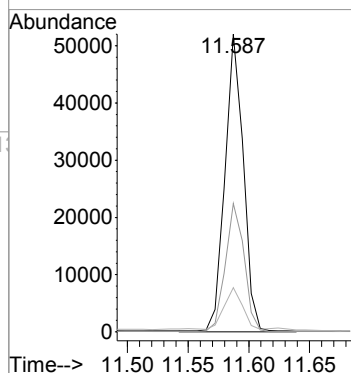
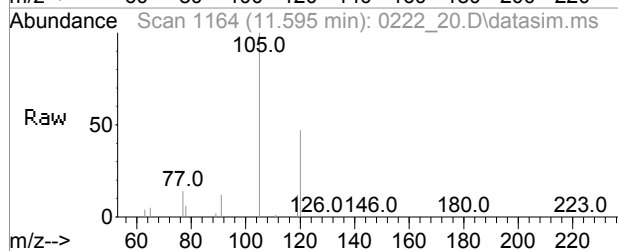
Tgt Ion:105 Resp: 18127
Ion Ratio Lower Upper
105 100
120 44.4 10.6 82.0
77 15.2 11.4 17.2





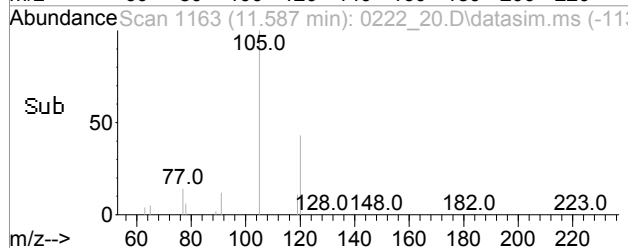
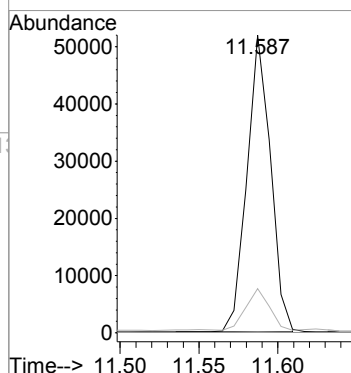
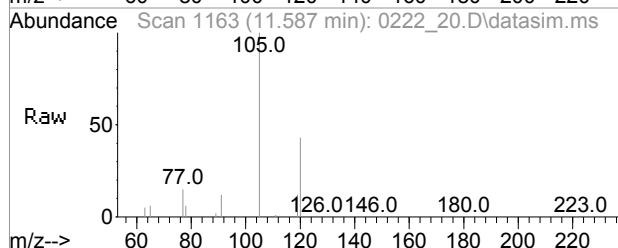
#119
1,2,4-Trimethylbenzene(sim)
Concen: 1.40 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

Tgt Ion:105 Resp: 52371
Ion Ratio Lower Upper
105 100
120 41.9 43.5 65.3#
77 15.9 20.2 30.4#



#124
sec-Butylbenzene(sim)
Concen: 0.97 ppbv
RT: 11.587 min Scan# 1163
Delta R.T. 0.000 min
Lab File: 0222_20.D
Acq: 23 Feb 2016 12:17 am

Tgt Ion:105 Resp: 53926
Ion Ratio Lower Upper
105 100
134 0.2 0.0 35.9
77 14.7 0.0 34.1



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67653 30X
Canister:	217	Lab File ID:	0222_46.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
		Date Analyzed:	02/23/16
Matrix:	AIR	Dilution Factor:	30

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent
This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_46.D
 Acq On : 23 Feb 2016 05:30 pm
 Operator : CORTEX\ms
 Client ID : SS-5 DIL
 Lab ID : BK67653 30X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:27:56 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

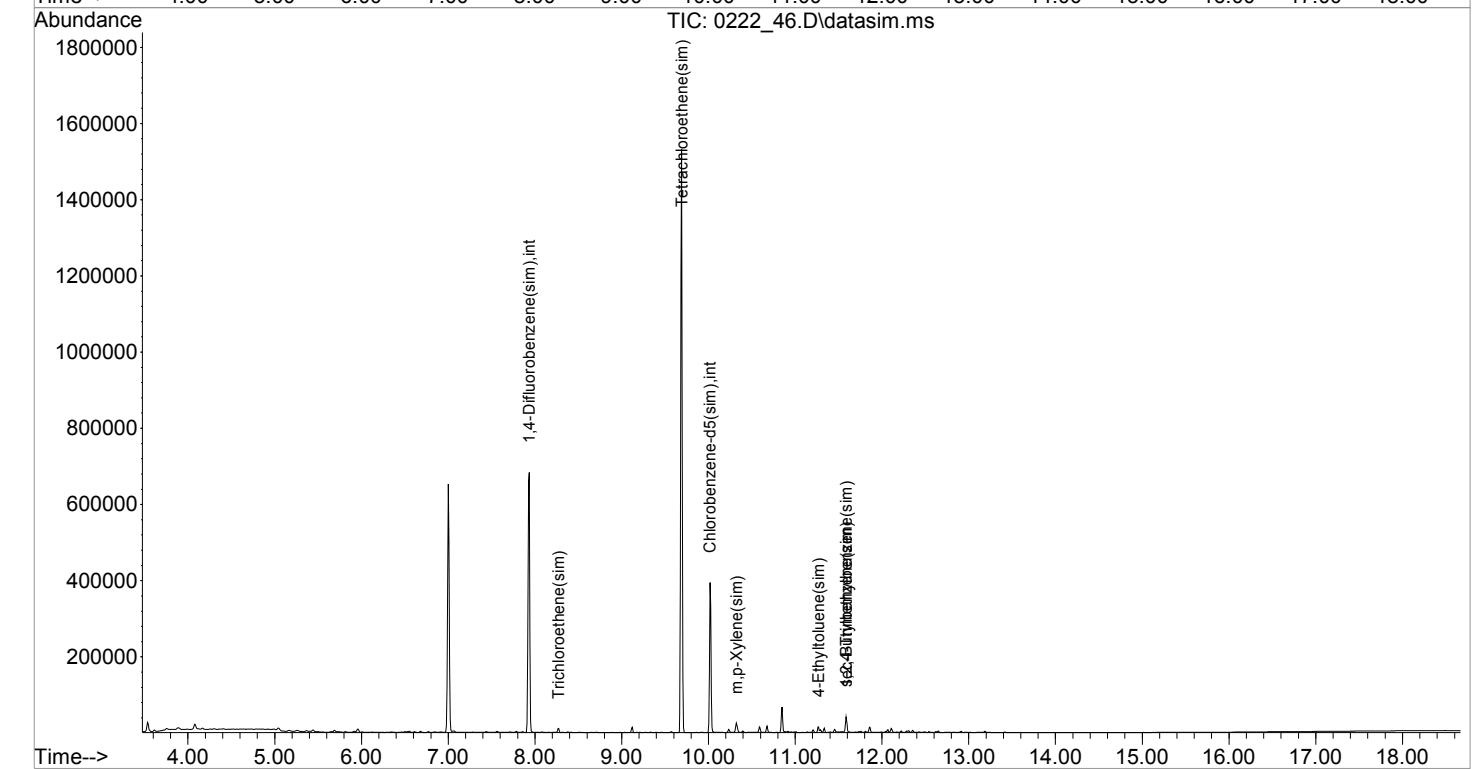
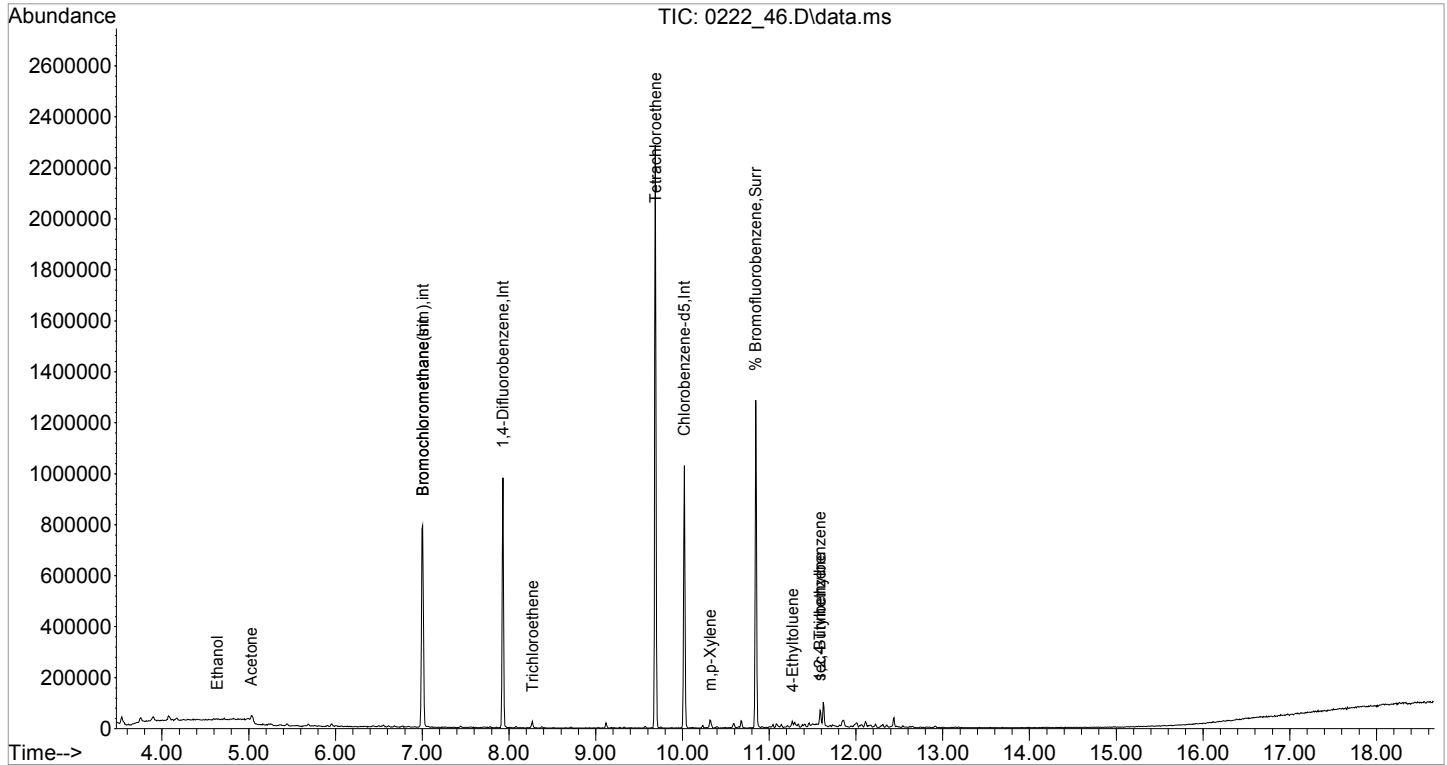
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

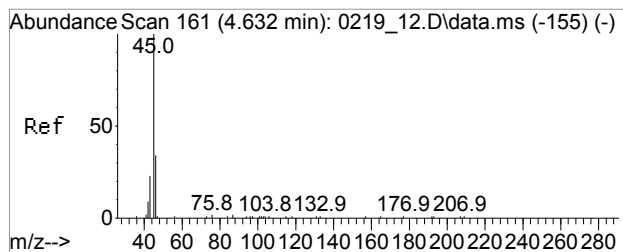
Internal Standards						
1) Bromochloromethane	7.006	130	173545	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	460020	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	201215	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	173545	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	555451	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.018	82	214890	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.844	95	273525	10.294	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.90%
Target Compounds						
					Qvalue	
10) Ethanol	4.640	45	3028	0.551	ppbv#	73
11) Acetone	5.029	43	38451	1.245	ppbv	89
38) Trichloroethene	8.270	130	4027	0.252	ppbv	93
51) Tetrachloroethene	9.688	166	409023	17.642	ppbv	99
56) m,p-Xylene	10.318	91	13823	0.375	ppbv	95
65) 4-Ethyltoluene	11.266	105	12933	0.235	ppbv#	96
67) 1,2,4-Trimethylbenzene	11.585	105	19160	0.455	ppbv#	88
72) sec-Butylbenzene	11.585	105	19160	0.342	ppbv#	72
99] Trichloroethene(sim)	8.270	130	4027	0.212	ppbv	98
105] Tetrachloroethene(sim)	9.688	166	409023	17.511	ppbv	99
111] m,p-Xylene(sim)	10.318	91	13823	0.329	ppbv	95
117] 4-Ethyltoluene(sim)	11.266	105	12933	0.214	ppbv#	96
119] 1,2,4-Trimethylbenzene...	11.585	105	19160	0.418	ppbv#	88
124] sec-Butylbenzene(sim)	11.588	105	20323	0.298	ppbv	81

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_46.D
Acq On : 23 Feb 2016 05:30 pm
Operator : CORTEX\ms
Client ID : SS-5 DIL
Lab ID : BK67653 30X
ALS Vial : 1 Sample Multiplier: 1

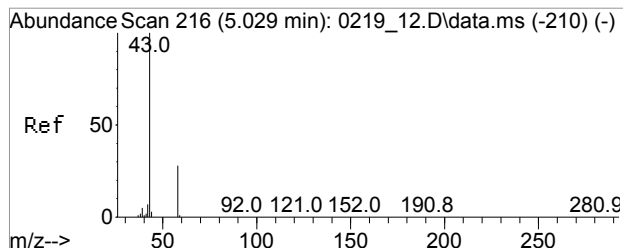
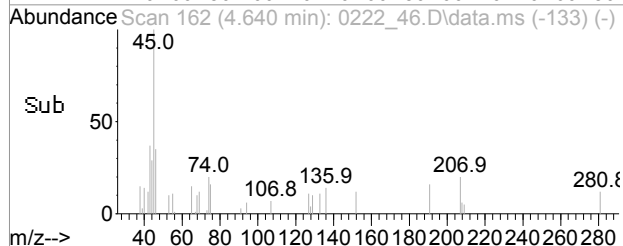
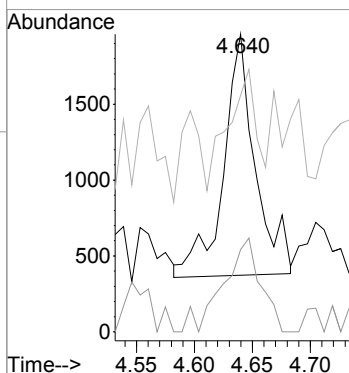
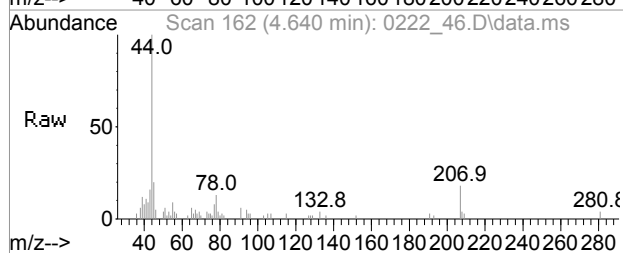
Quant Time: Feb 24 08:27:56 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





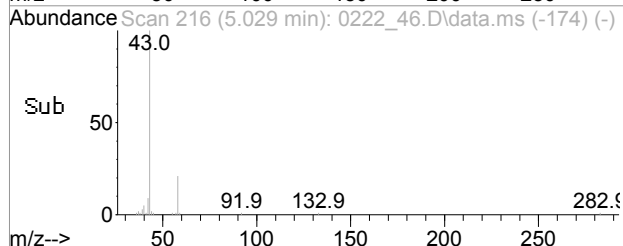
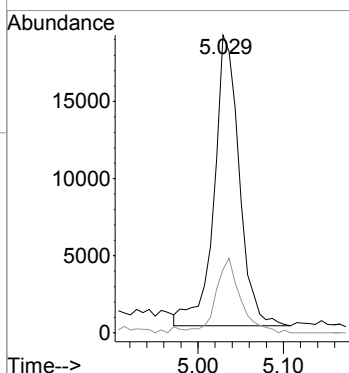
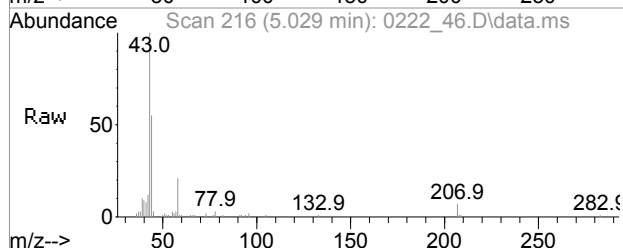
#10
Ethanol
Concen: 0.55 ppbv
RT: 4.640 min Scan# 162
Delta R.T. 0.008 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

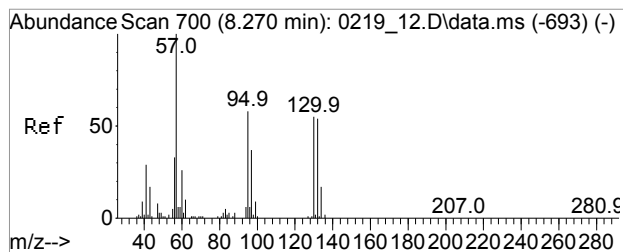
Tgt Ion: 45 Resp: 3028
Ion Ratio Lower Upper
45 100
46 45.9 28.5 42.7#
43 44.6 19.7 29.5#



#11
Acetone
Concen: 1.24 ppbv
RT: 5.029 min Scan# 216
Delta R.T. 0.000 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

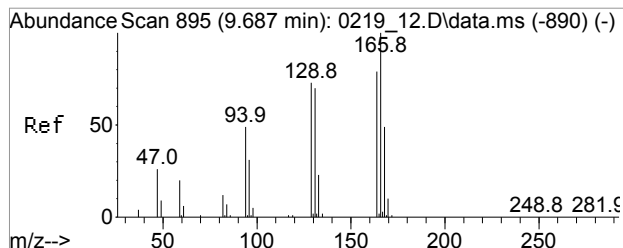
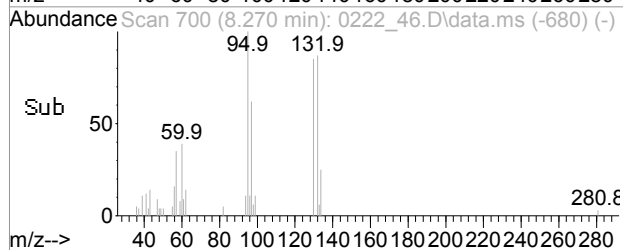
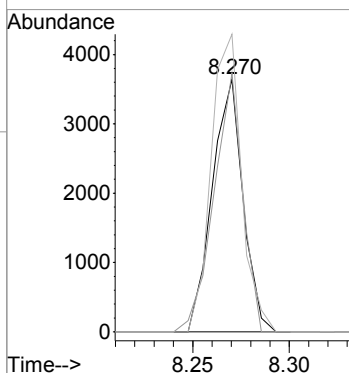
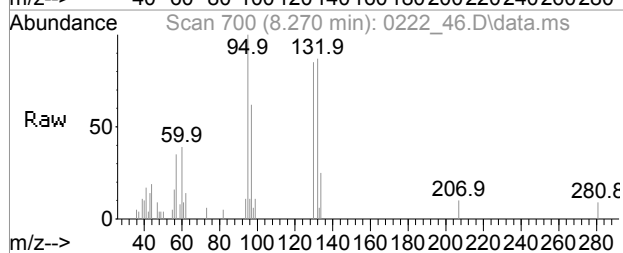
Tgt Ion: 43 Resp: 38451
Ion Ratio Lower Upper
43 100
58 25.0 24.8 37.2





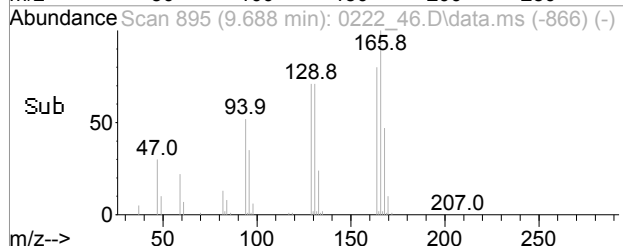
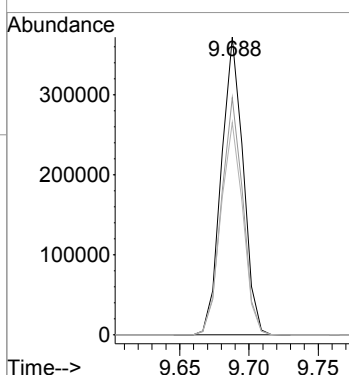
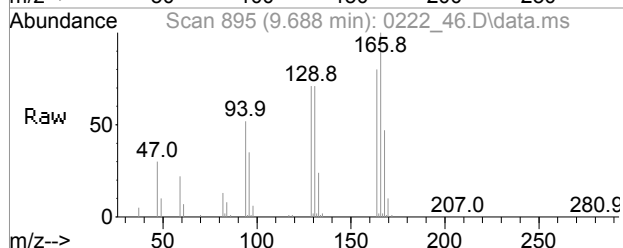
#38
Trichloroethene
Concen: 0.25 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

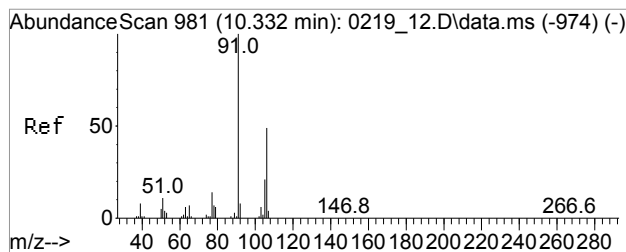
Tgt Ion	Ratio	Lower	Upper
130	100		
132	96.0	77.2	115.8
95	116.8	82.7	124.1



#51
Tetrachloroethene
Concen: 17.64 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

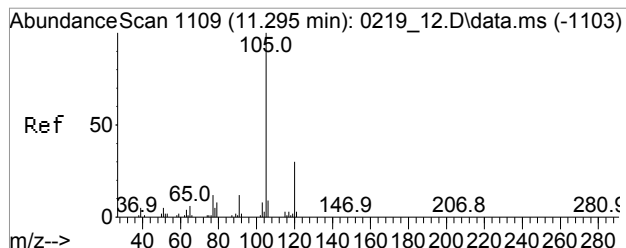
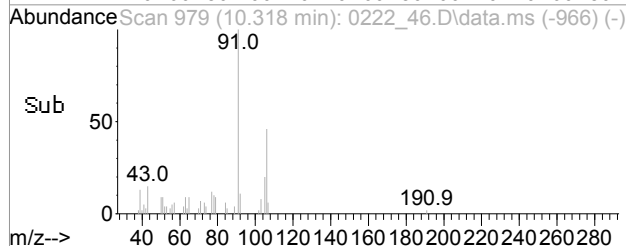
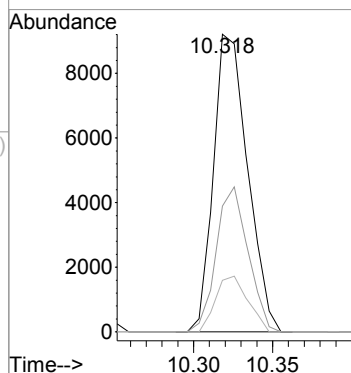
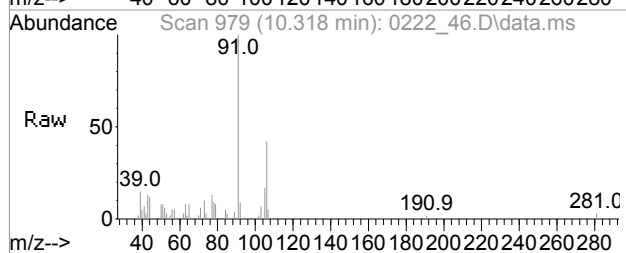
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.4	62.2	93.4
129	72.4	56.6	84.8





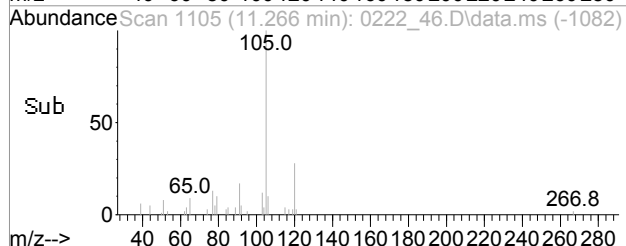
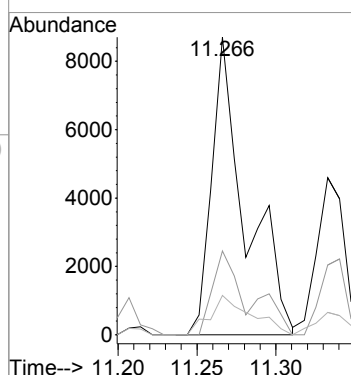
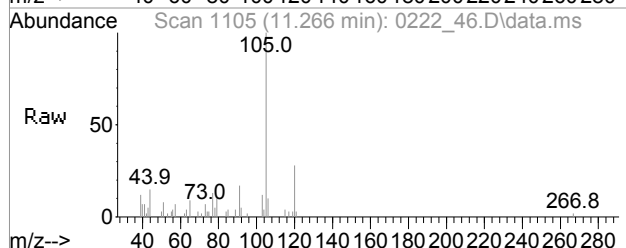
#56
m,p-Xylene
Concen: 0.37 ppbv
RT: 10.318 min Scan# 979
Delta R.T. -0.007 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

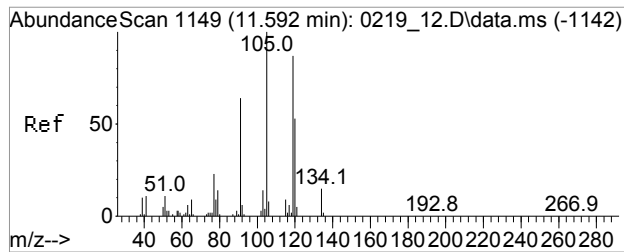
Tgt Ion: 91 Resp: 13823
Ion Ratio Lower Upper
91 100
106 45.4 38.7 58.1
105 17.7 16.6 25.0



#65
4-Ethyltoluene
Concen: 0.24 ppbv
RT: 11.266 min Scan# 1105
Delta R.T. -0.029 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

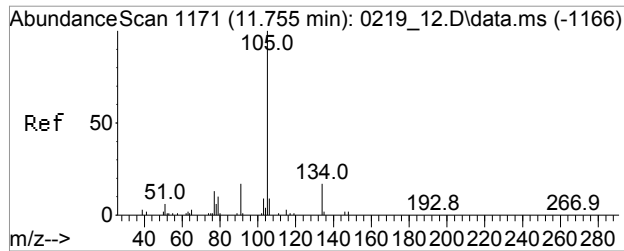
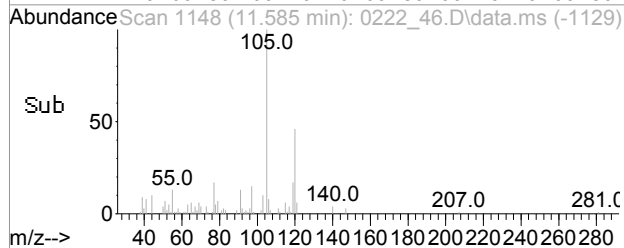
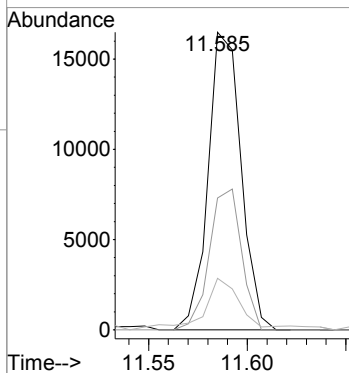
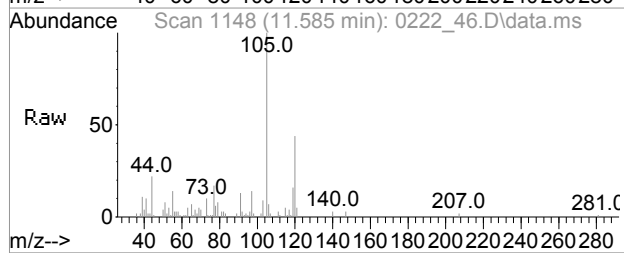
Tgt Ion: 105 Resp: 12933
Ion Ratio Lower Upper
105 100
120 30.3 23.3 34.9
77 16.2 10.0 15.0#





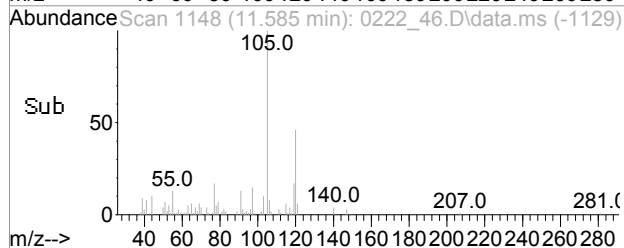
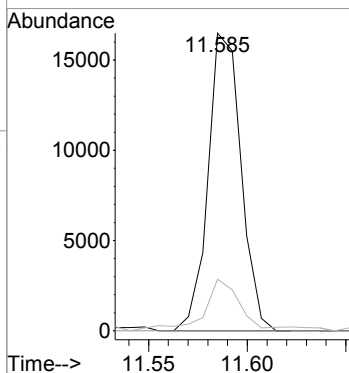
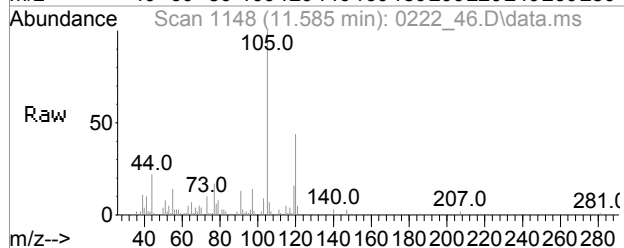
#67
1,2,4-Trimethylbenzene
Concen: 0.46 ppbv
RT: 11.585 min Scan# 1148
Delta R.T. -0.006 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

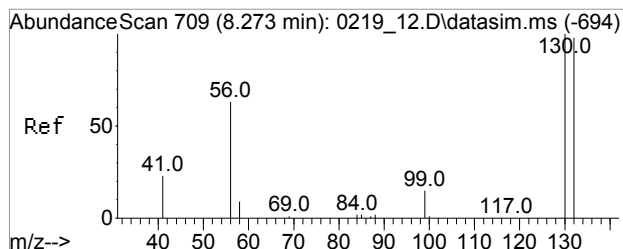
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	43.5	65.3
77	18.9	20.2	30.4#



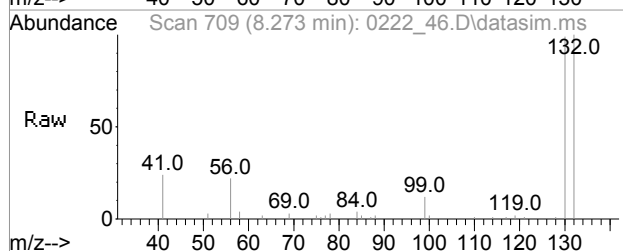
#72
sec-Butylbenzene
Concen: 0.34 ppbv
RT: 11.585 min Scan# 1148
Delta R.T. -0.006 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.7	20.5#
77	18.9	11.0	16.4#

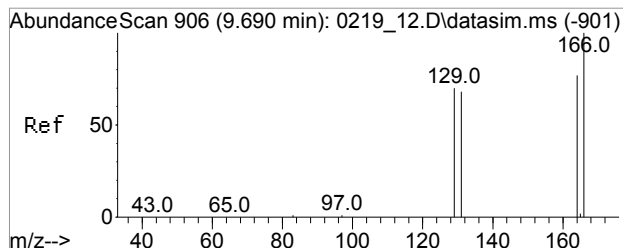
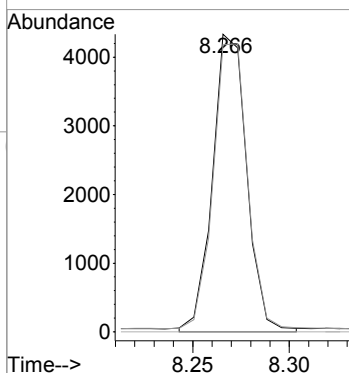
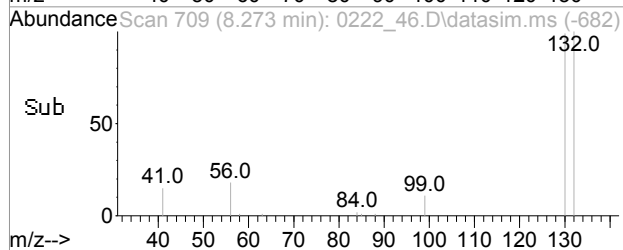




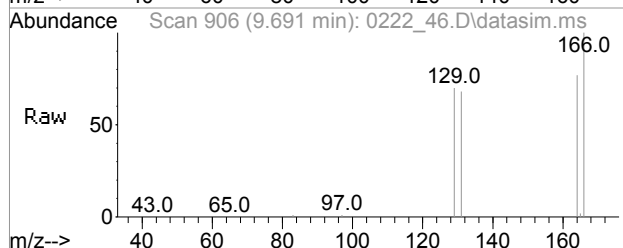
#99
Trichloroethene(sim)
Concen: 0.21 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm



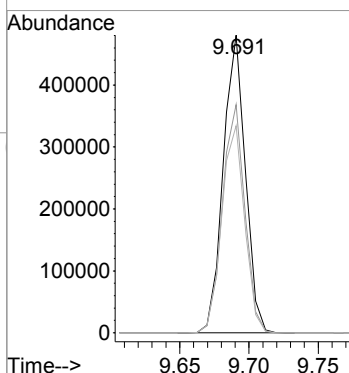
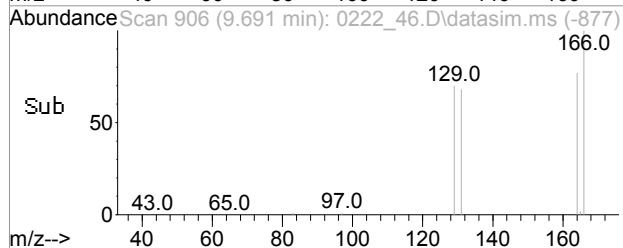
Tgt Ion:130 Resp: 4027
Ion Ratio Lower Upper
130 100
132 96.0 77.2 115.8
97 70.0 53.5 80.3

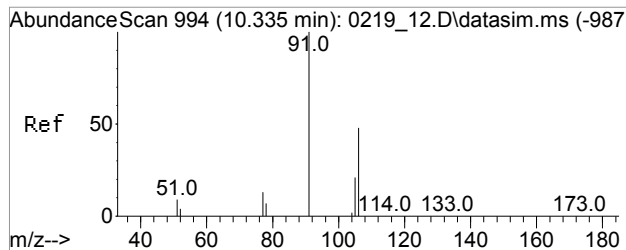


#105
Tetrachloroethene(sim)
Concen: 17.51 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm



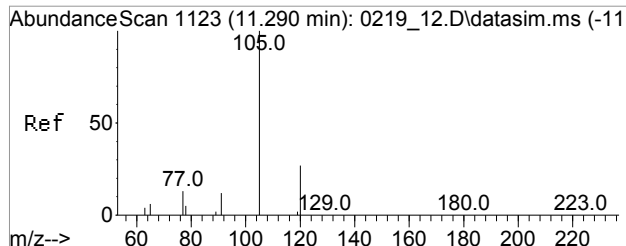
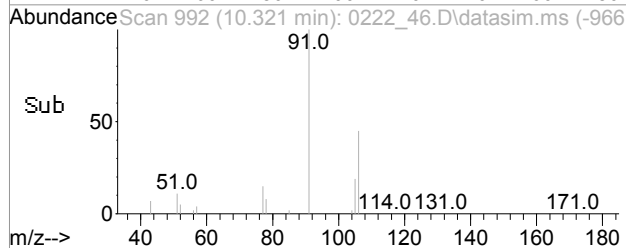
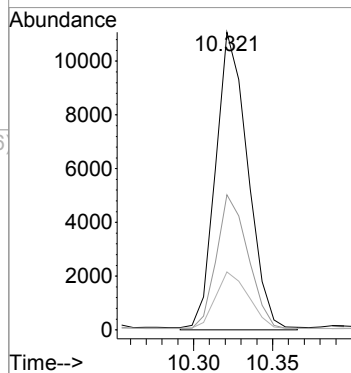
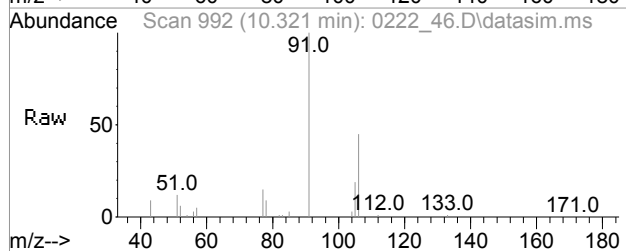
Tgt Ion:166 Resp: 409023
Ion Ratio Lower Upper
166 100
164 78.4 57.8 97.8
129 72.4 50.7 90.7





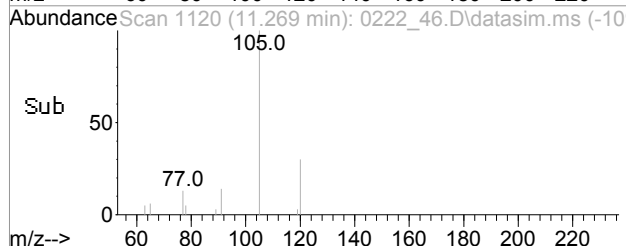
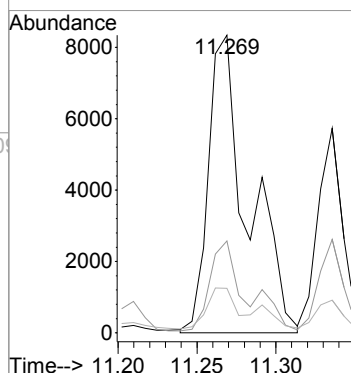
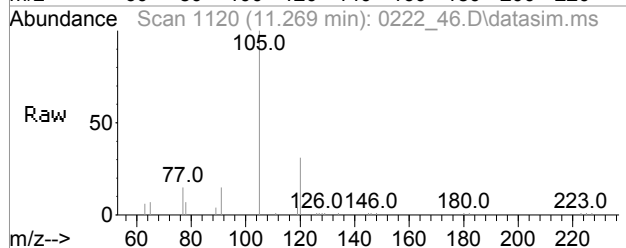
#111
m,p-Xylene(sim)
Concen: 0.33 ppbv
RT: 10.318 min Scan# 992
Delta R.T. -0.007 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

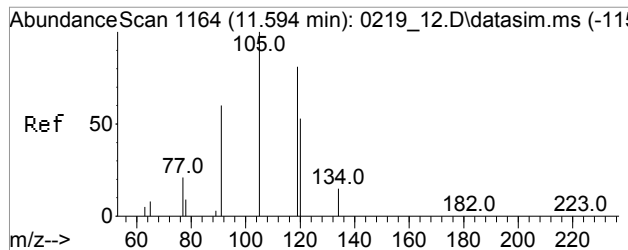
Tgt Ion: 91 Resp: 13823
Ion Ratio Lower Upper
91 100
106 45.4 43.6 53.2
105 17.7 16.6 25.0



#117
4-Ethyltoluene(sim)
Concen: 0.21 ppbv
RT: 11.266 min Scan# 1120
Delta R.T. -0.029 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

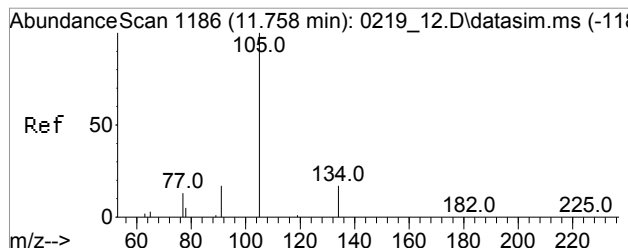
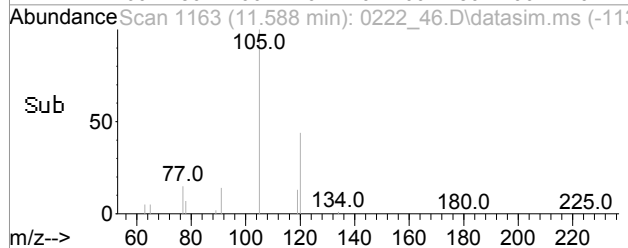
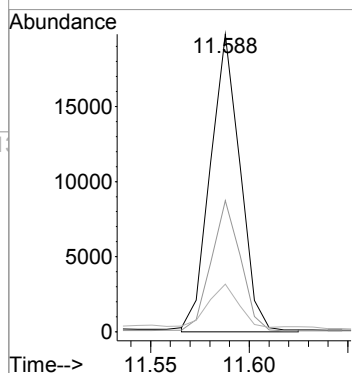
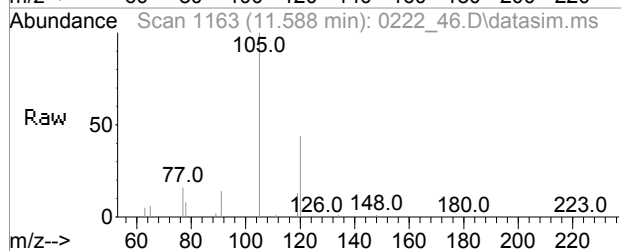
Tgt Ion: 105 Resp: 12933
Ion Ratio Lower Upper
105 100
120 30.3 23.3 34.9
77 16.2 10.0 15.0#





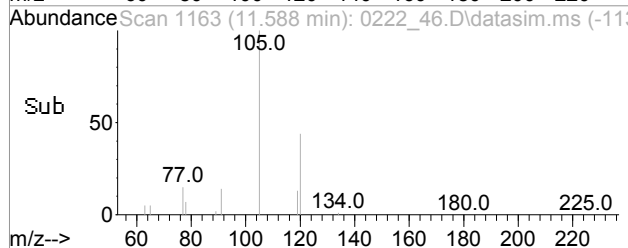
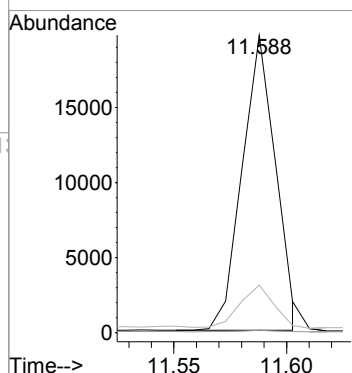
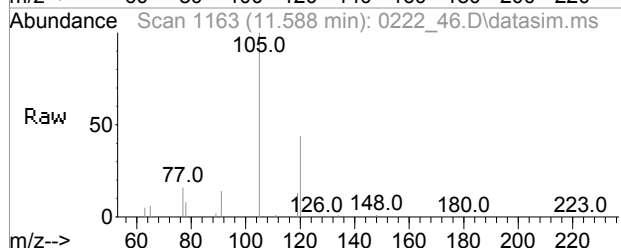
#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.42 ppbv
RT: 11.585 min Scan# 1163
Delta R.T. -0.006 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

Tgt Ion:105 Resp: 19160
Ion Ratio Lower Upper
105 100
120 46.2 43.5 65.3
77 18.9 20.2 30.4#



#124
sec-Butylbenzene(sim)
Concen: 0.30 ppbv
RT: 11.588 min Scan# 1163
Delta R.T. 0.001 min
Lab File: 0222_46.D
Acq: 23 Feb 2016 05:30 pm

Tgt Ion:105 Resp: 20323
Ion Ratio Lower Upper
105 100
134 0.4 0.0 35.9
77 14.2 0.0 34.1



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	AA-2
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67654</u>	
Canister:	<u>469</u>	Lab File ID:	<u>0222_08.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received:
				<u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/22/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.495		0.202	0.202	r
74-87-3	Chloromethane	0.791		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	7.20	S	0.531	0.531	r
67-64-1	Acetone	11.8	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.409		0.178	0.178	r
67-63-0	Isopropylalcohol	0.994	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.371		0.339	0.339	r
110-54-3	Hexane	2.22	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	1.00		0.313	0.313	r
110-82-7	Cyclohexane	1.32		0.291	0.291	r
142-82-5	Heptane	1.58		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	5.00		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
100-41-4	Ethylbenzene	1.06		0.230	0.230	r
179601-23-1	m,p-Xylene	3.53		0.230	0.230	r
95-47-6	o-Xylene	1.70		0.230	0.230	r
98-82-8	Isopropylbenzene	0.225		0.204	0.204	r
622-96-8	4-Ethyltoluene	0.579		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.880		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.57		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.066		0.040	0.040	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67654</u>
Canister:	<u>469</u>	Lab File ID:	<u>0222_08.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.069		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.196		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_08.D
 Acq On : 22 Feb 2016 11:51 am
 Operator : CORTEX\ms
 Client ID : AA-2
 Lab ID : BK67654
 ALS Vial : 1 Sample Multiplier: 1

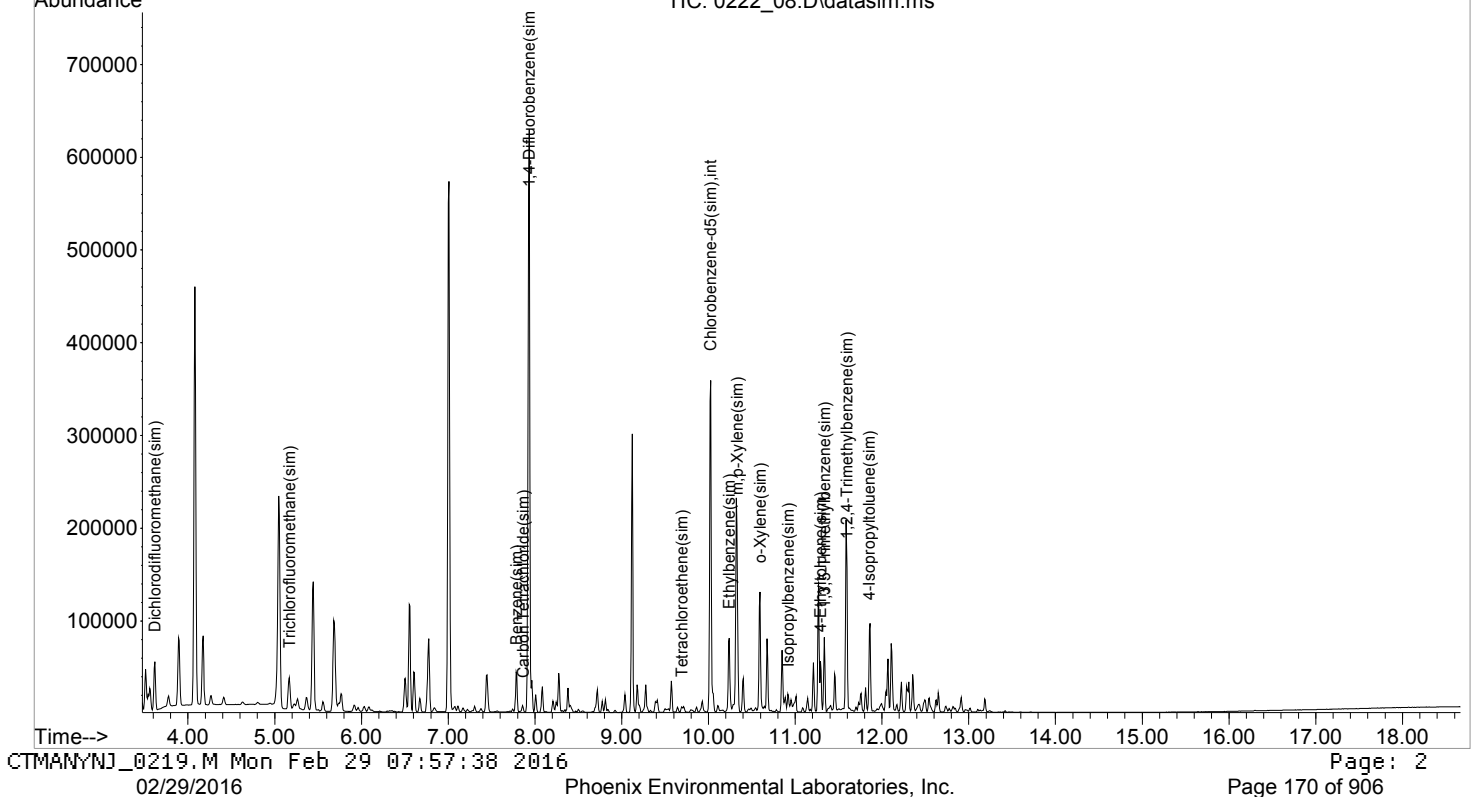
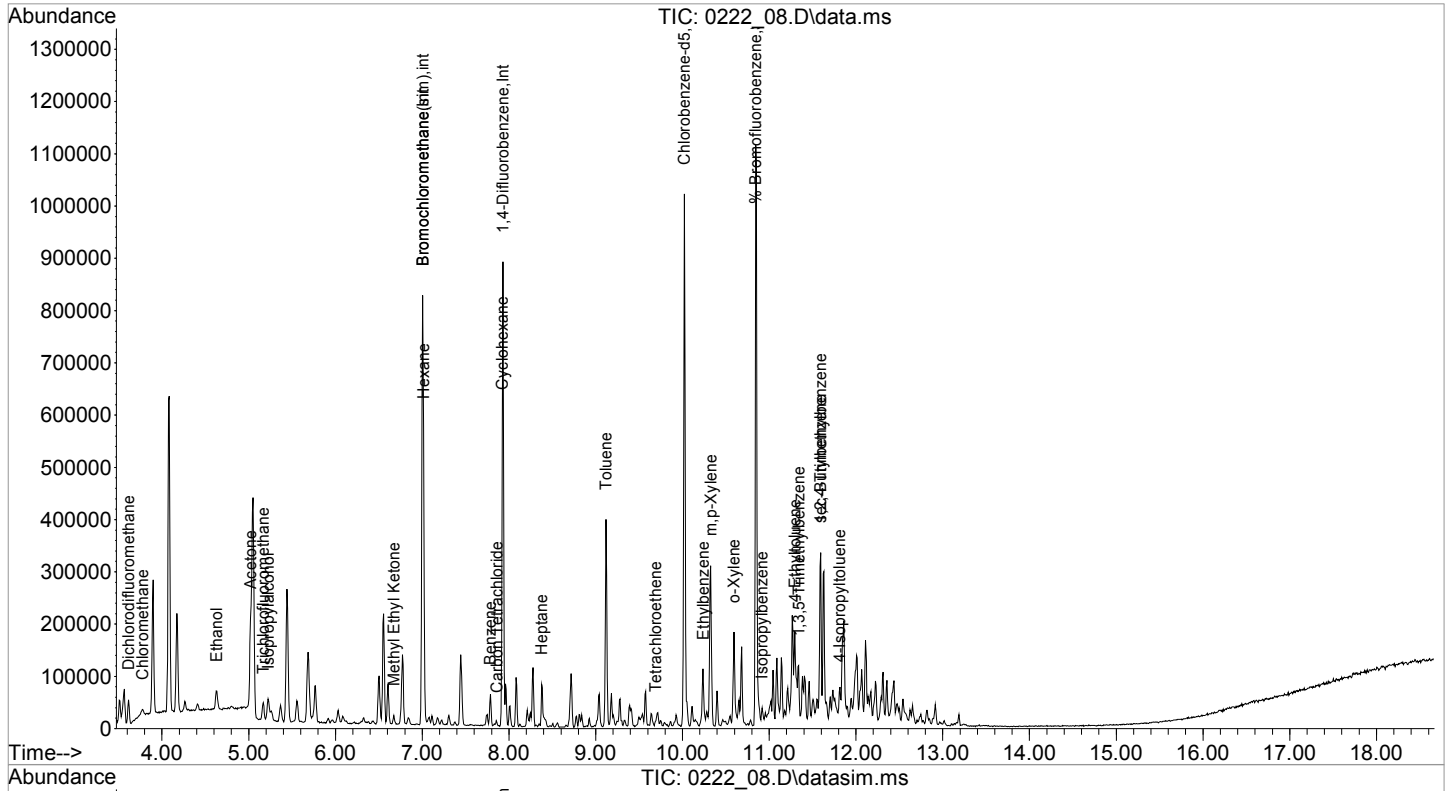
Quant Time: Feb 23 08:03:23 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

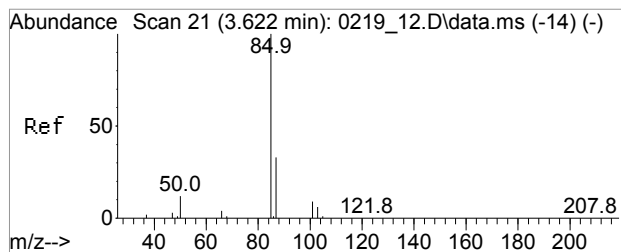
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	156238	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	415385	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	197819	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	156238	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	492004	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.025	82	211856	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.844	95	259630	9.939	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.40%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.616	85	32932	0.495	ppbv#	97
4) Chloromethane	3.774	52	4267	0.791	ppbv#	58
10) Ethanol	4.633	45	35650	7.200	ppbv	97
11) Acetone	5.022	43	328217	11.801	ppbv#	80
12) Trichlorofluoromethane	5.166	101	24046	0.409	ppbv	99
13) Isopropylalcohol	5.224	45	50562	0.994	ppbv	94
24) Methyl Ethyl Ketone	6.674	43	14114	0.371	ppbv#	92
26) Hexane	7.014	57	44338	2.218	ppbv	95
32) Benzene	7.786	78	33380	1.002	ppbv#	93
33) Carbon Tetrachloride	7.862	117	2125	0.068	ppbv	88
34) Cyclohexane	7.922	41	11436	1.318	ppbv#	48
42) Heptane	8.376	43	21291	1.578	ppbv	95
47) Toluene	9.118	91	156156	4.998	ppbv	99
51) Tetrachloroethene	9.688	166	1425	0.068	ppbv#	88
55) Ethylbenzene	10.237	91	51166	1.057	ppbv	99
56) m, p-Xylene	10.326	91	128107	3.533	ppbv	99
60) o-Xylene	10.592	91	66451	1.697	ppbv	97
63) Isopropylbenzene	10.918	105	11181	0.225	ppbv	94
65) 4-Ethyltoluene	11.296	105	31308m	0.579	ppbv	
66) 1,3,5-Trimethylbenzene	11.340	105	39572	0.880	ppbv	97
67) 1,2,4-Trimethylbenzene	11.592	105	106487	2.574	ppbv#	86
72) sec-Butylbenzene	11.592	105	106487	1.936	ppbv#	75
73) 4-Isopropyltoluene	11.807	119	12414m	0.228	ppbv	
80] Dichlorodifluoromethan...	3.619	85	42365	0.513	ppbv	99
84] Trichlorofluoromethane...	5.169	101	31885	0.426	ppbv	99
87] Carbon Tetrachloride(sim)	7.862	117	2125	0.066	ppbv	88
95] Benzene(sim)	7.786	78	33380	0.904	ppbv#	93
105] Tetrachloroethene(sim)	9.688	166	1425	0.069	ppbv	88
110] Ethylbenzene(sim)	10.240	91	57000	1.001	ppbv	99
111] m, p-Xylene(sim)	10.326	91	128107	3.092	ppbv	99
114] o-Xylene(sim)	10.595	91	73548	1.586	ppbv	99
115] Isopropylbenzene(sim)	10.918	105	11181	0.204	ppbv	94
117] 4-Ethyltoluene(sim)	11.291	105	28406m	0.476	ppbv	
118] 1,3,5-Trimethylbenzene...	11.336	105	42142	0.814	ppbv	99
119] 1,2,4-Trimethylbenzene...	11.592	105	106487	2.355	ppbv#	86
125] 4-Isopropyltoluene(sim)	11.852	119	12369	0.196	ppbv#	55

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_08.D
Acq On : 22 Feb 2016 11:51 am
Operator : CORTEX\ms
Client ID : AA-2
Lab ID : BK67654
ALS Vial : 1 Sample Multiplier: 1

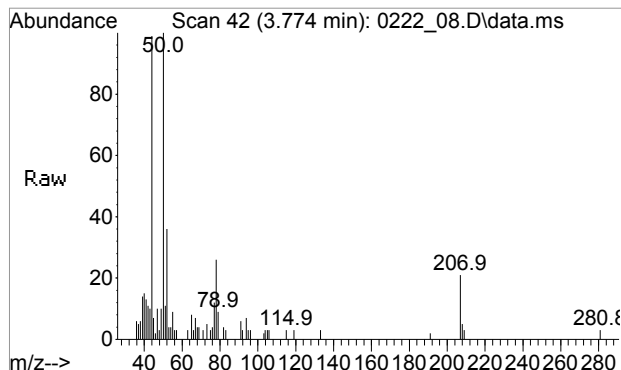
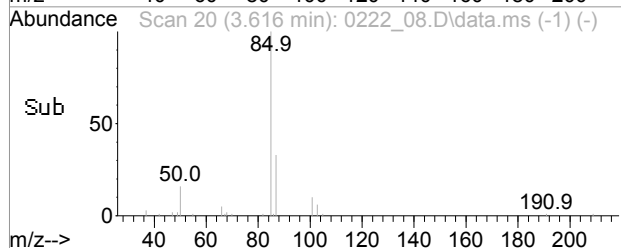
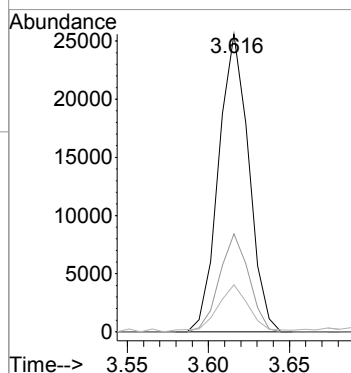
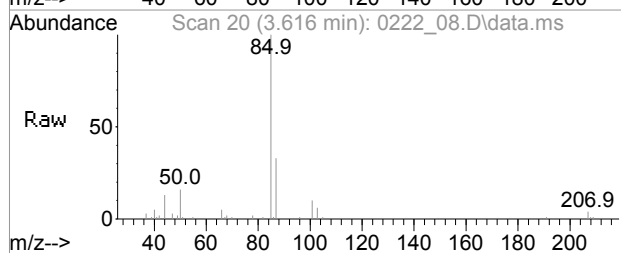
Quant Time: Feb 23 08:03:23 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





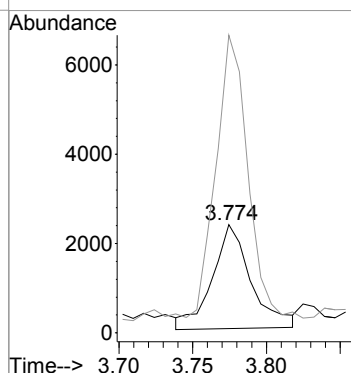
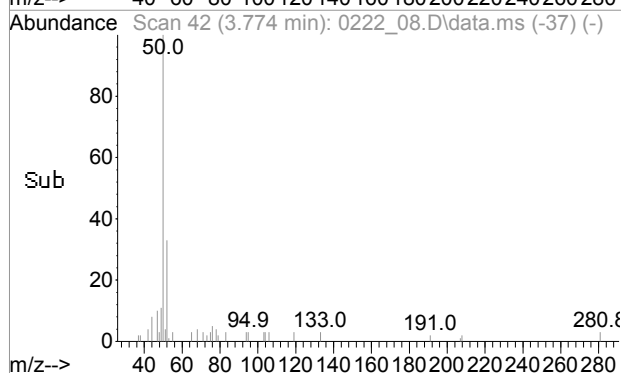
#3
Dichlorodifluoromethane
Concen: 0.50 ppbv
RT: 3.616 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

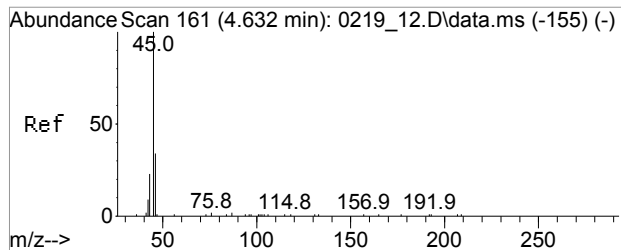
Tgt Ion: 85 Resp: 32932
Ion Ratio Lower Upper
85 100
87 32.2 26.1 39.1
50 16.8 10.5 15.7#



#4
Chloromethane
Concen: 0.79 ppbv
RT: 3.774 min Scan# 42
Delta R.T. -0.014 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

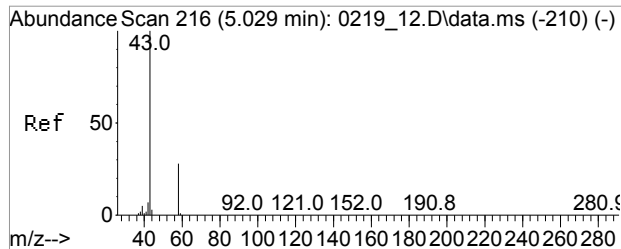
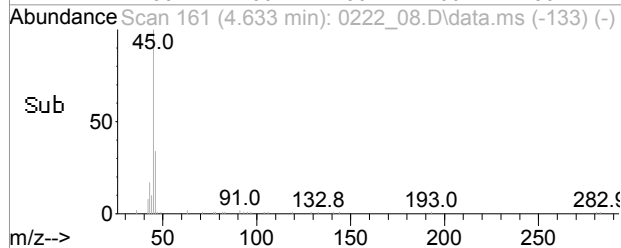
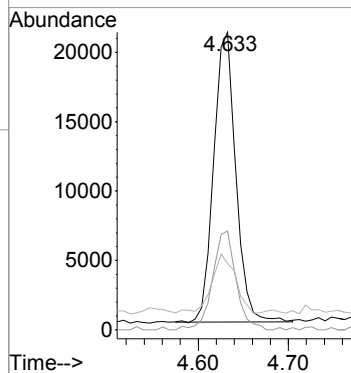
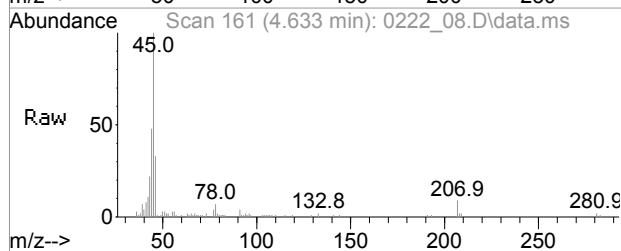
Tgt Ion: 52 Resp: 4267
Ion Ratio Lower Upper
52 100
50 222.1 284.4 324.4#





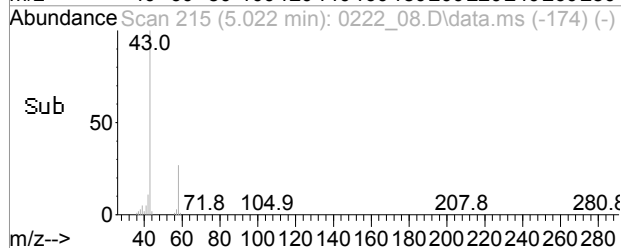
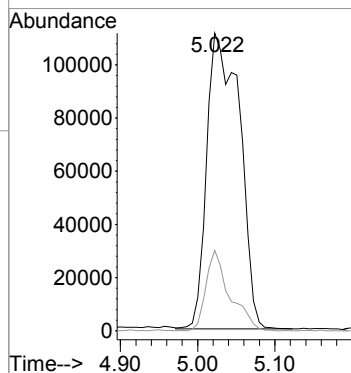
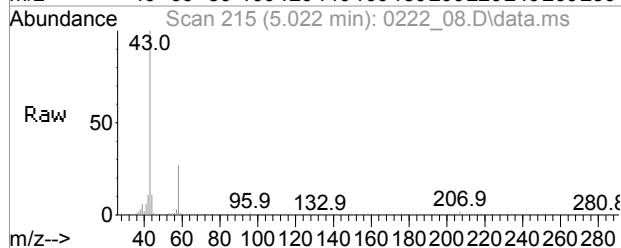
#10
Ethanol
Concen: 7.20 ppbv
RT: 4.633 min Scan# 161
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

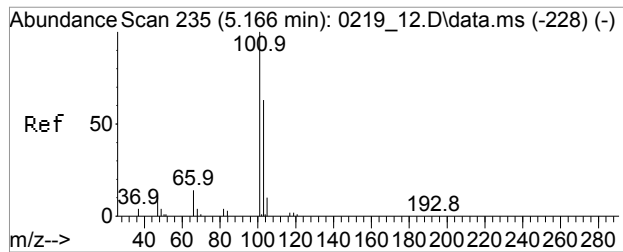
Tgt Ion: 45 Resp: 35650
Ion Ratio Lower Upper
45 100
46 36.2 28.5 42.7
43 22.2 19.7 29.5



#11
Acetone
Concen: 11.80 ppbv
RT: 5.022 min Scan# 215
Delta R.T. -0.007 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

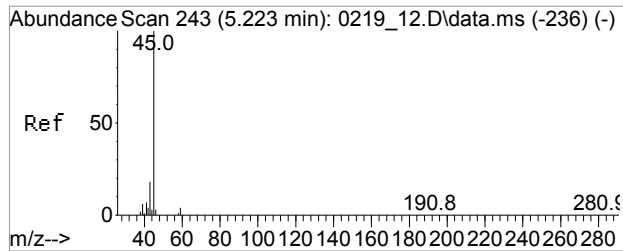
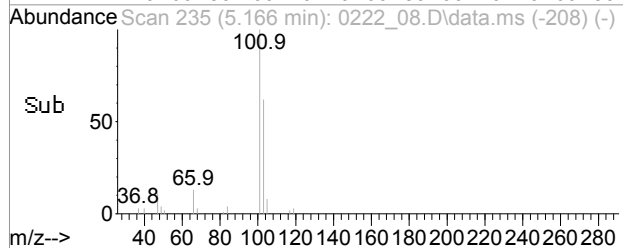
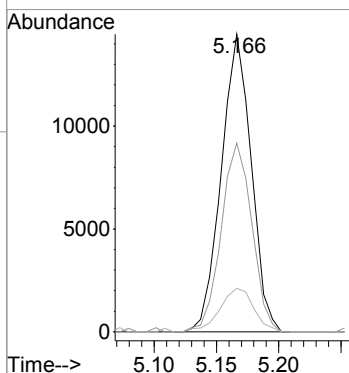
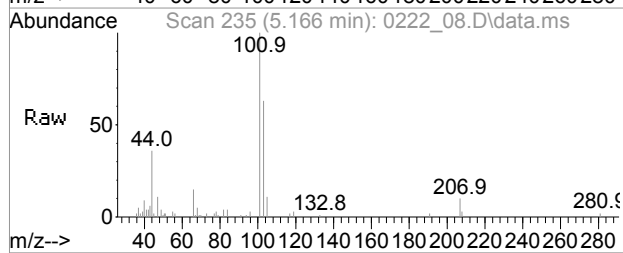
Tgt Ion: 43 Resp: 328217
Ion Ratio Lower Upper
43 100
58 19.7 24.8 37.2#





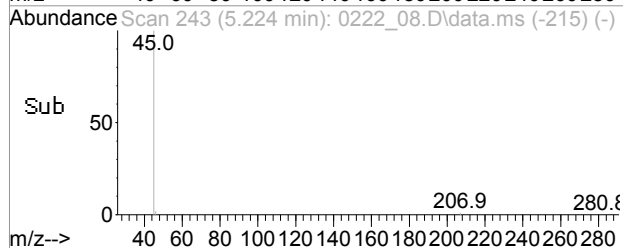
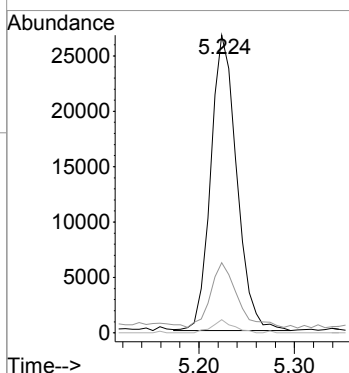
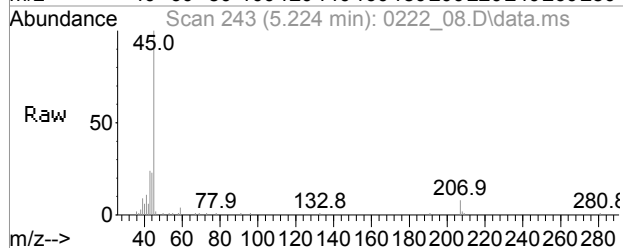
#12
Trichlorofluoromethane
Concen: 0.41 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

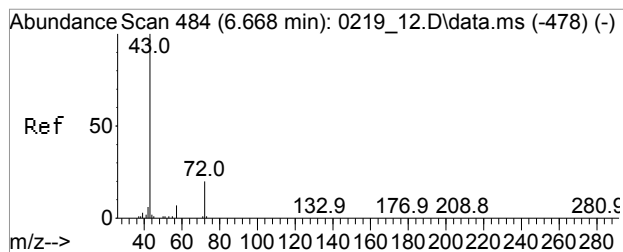
Tgt Ion: 101 Resp: 24046
Ion Ratio Lower Upper
101 100
103 64.9 51.8 77.8
66 16.6 11.1 16.7



#13
Isopropylalcohol
Concen: 0.99 ppbv
RT: 5.224 min Scan# 243
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

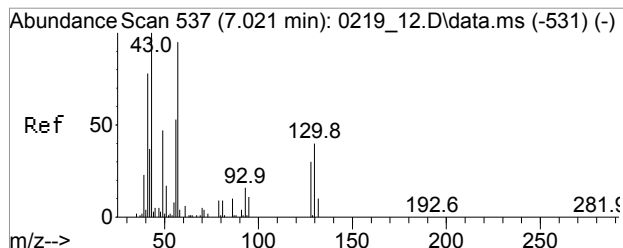
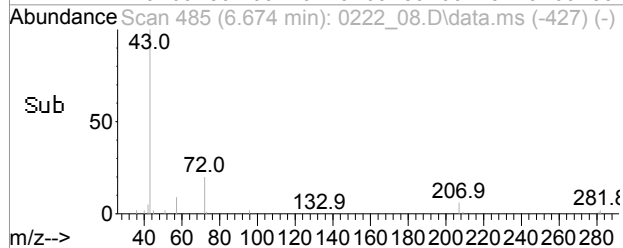
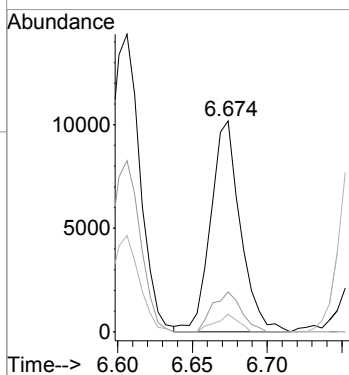
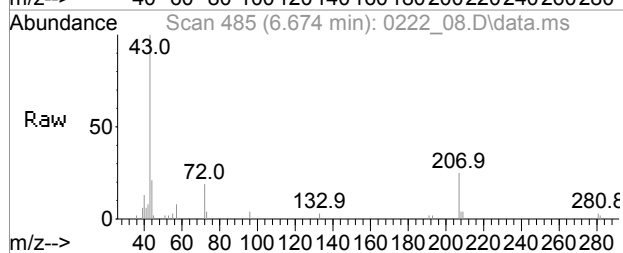
Tgt Ion: 45 Resp: 50562
Ion Ratio Lower Upper
45 100
43 22.2 15.4 23.0
59 3.6 3.0 4.4





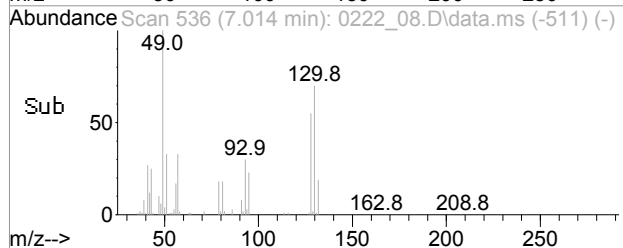
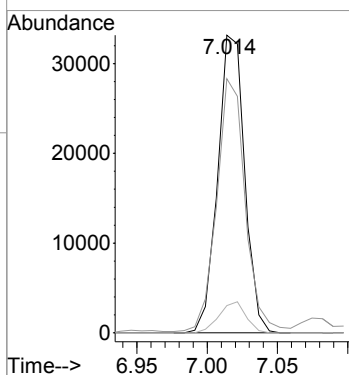
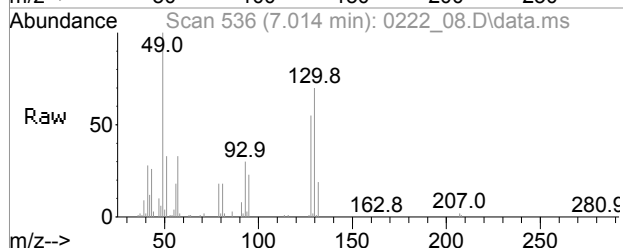
#24
Methyl Ethyl Ketone
Concen: 0.37 ppbv
RT: 6.674 min Scan# 485
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

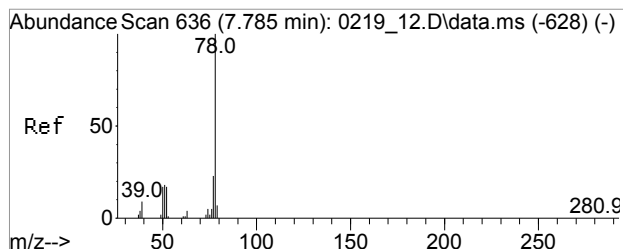
Tgt Ion: 43 Resp: 14114
Ion Ratio Lower Upper
43 100
72 18.4 15.9 23.9
57 0.0 5.6 8.4#



#26
Hexane
Concen: 2.22 ppbv
RT: 7.014 min Scan# 536
Delta R.T. -0.007 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

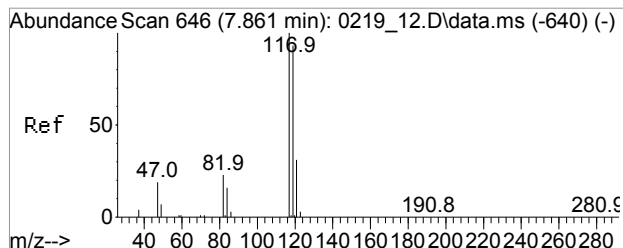
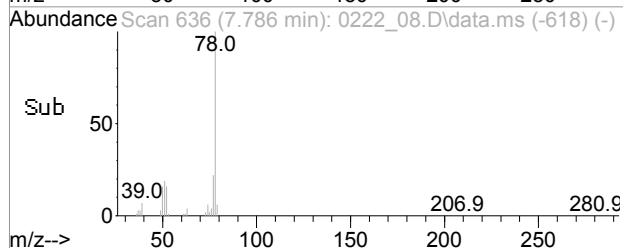
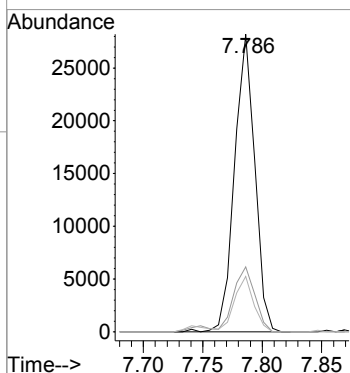
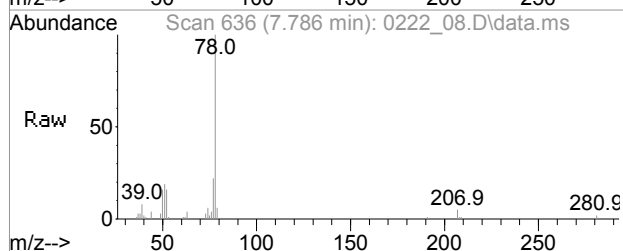
Tgt Ion: 57 Resp: 44338
Ion Ratio Lower Upper
57 100
41 89.3 67.4 101.2
86 10.4 9.3 13.9





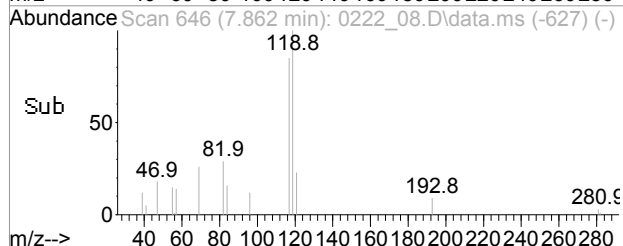
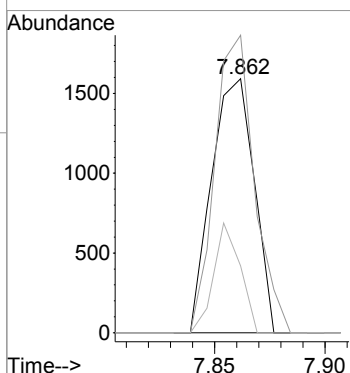
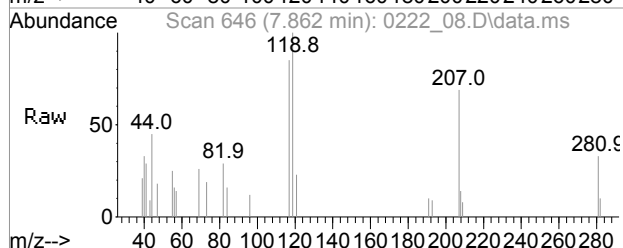
#32
Benzene
Concen: 1.00 ppbv
RT: 7.786 min Scan# 636
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

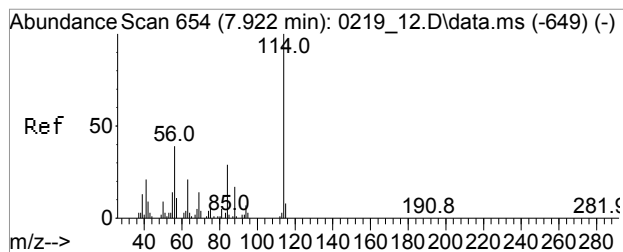
Tgt Ion: 78 Resp: 33380
Ion Ratio Lower Upper
78 100
77 28.8 18.6 27.8#
51 17.5 14.9 22.3



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.862 min Scan# 646
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

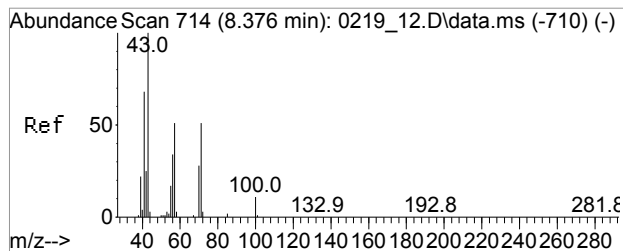
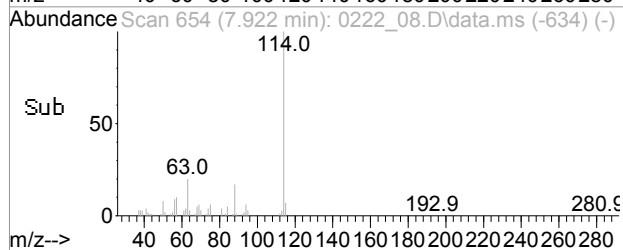
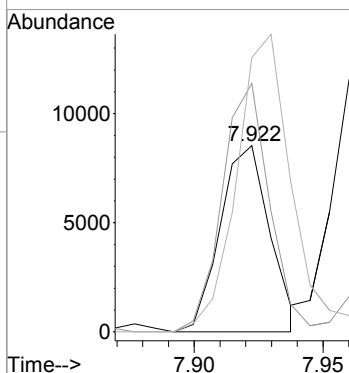
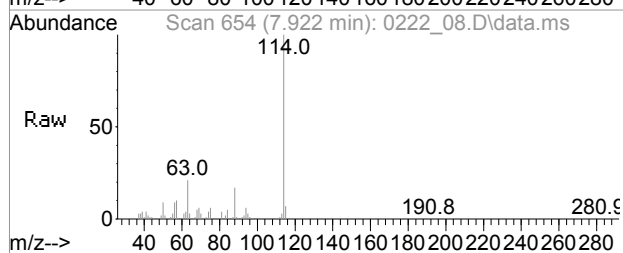
Tgt Ion: 117 Resp: 2125
Ion Ratio Lower Upper
117 100
119 108.8 75.9 115.9
121 27.0 10.8 50.8





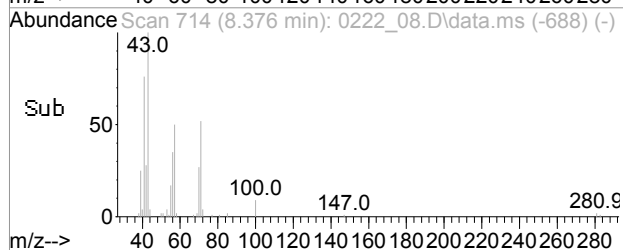
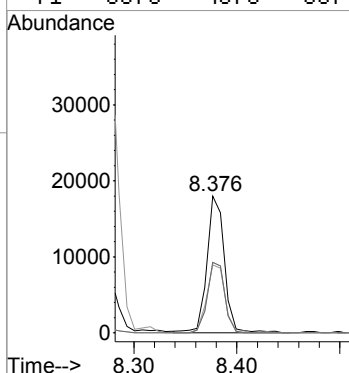
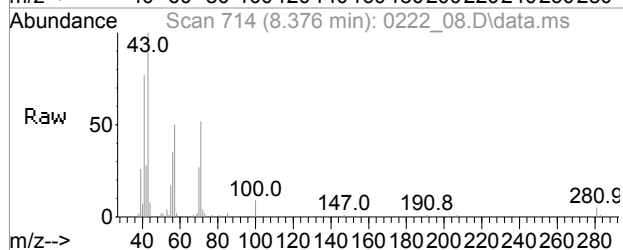
#34
Cyclohexane
Concen: 1.32 ppbv
RT: 7.922 min Scan# 654
Delta R.T. 0.000 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

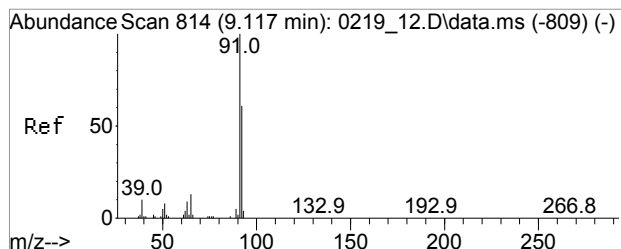
Tgt Ion: 41 Resp: 11436
Ion Ratio Lower Upper
41 100
84 127.3 111.0 166.6
69 179.3 52.8 79.2#



#42
Heptane
Concen: 1.58 ppbv
RT: 8.376 min Scan# 714
Delta R.T. 0.000 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

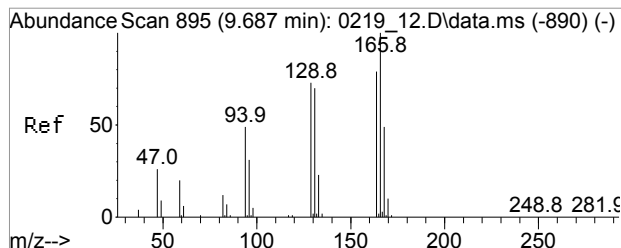
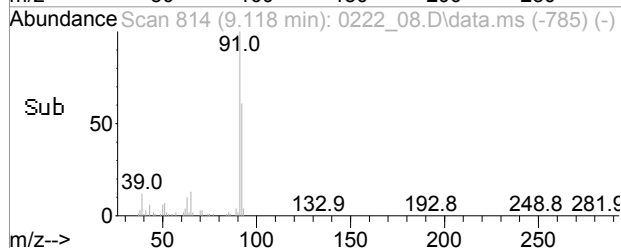
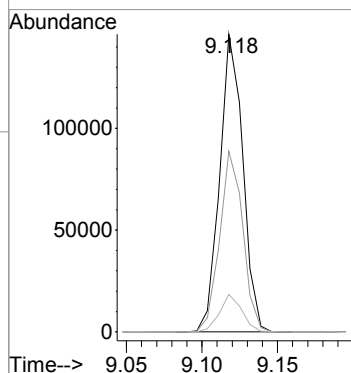
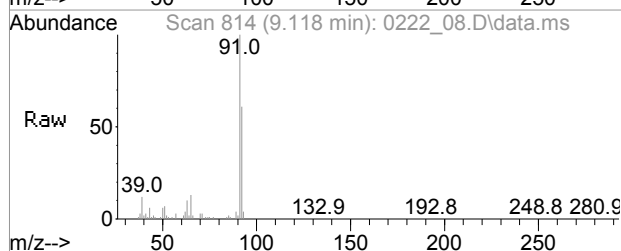
Tgt Ion: 43 Resp: 21291
Ion Ratio Lower Upper
43 100
57 51.4 43.0 64.4
71 50.6 43.6 65.4
71 50.6 43.6 65.4





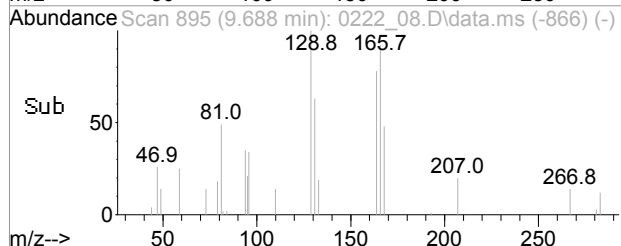
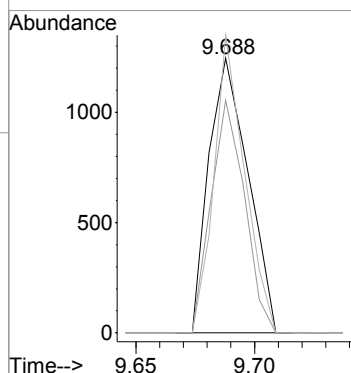
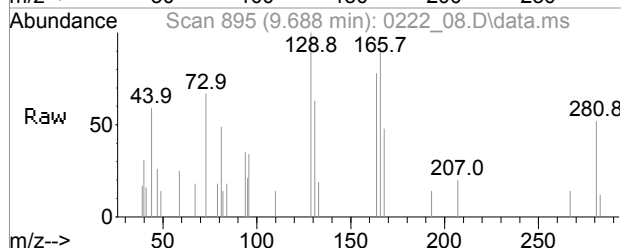
#47
Toluene
Concen: 5.00 ppbv
RT: 9.118 min Scan# 814
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

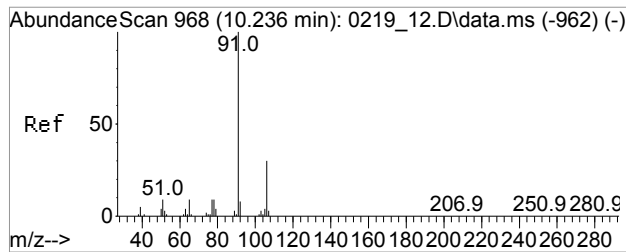
Tgt Ion: 91 Resp: 156156
Ion Ratio Lower Upper
91 100
92 60.7 47.7 71.5
65 12.2 9.5 14.3



#51
Tetrachloroethene
Concen: Below Cal
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

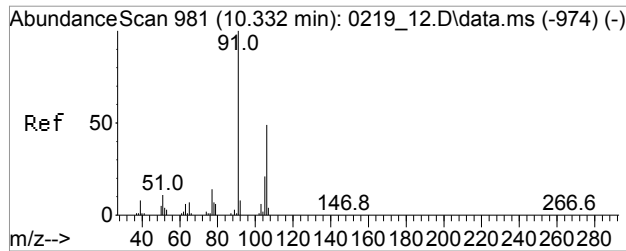
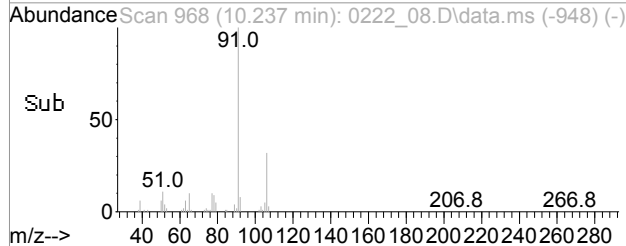
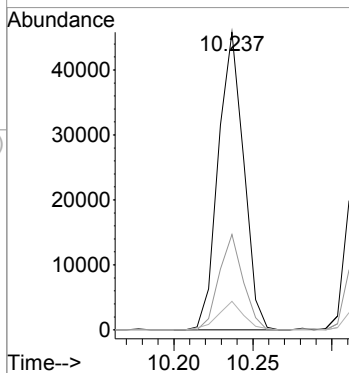
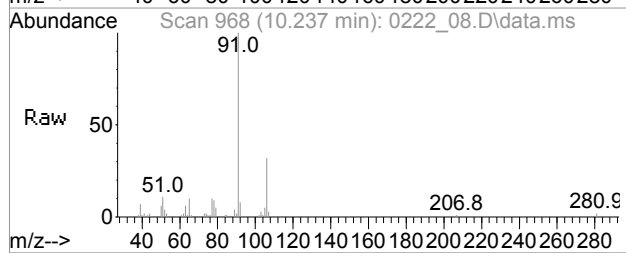
Tgt Ion: 166 Resp: 1425
Ion Ratio Lower Upper
166 100
164 72.3 62.2 93.4
129 85.0 56.6 84.8#





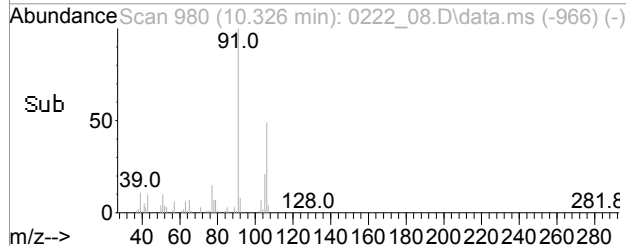
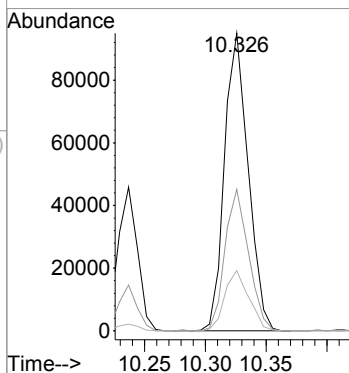
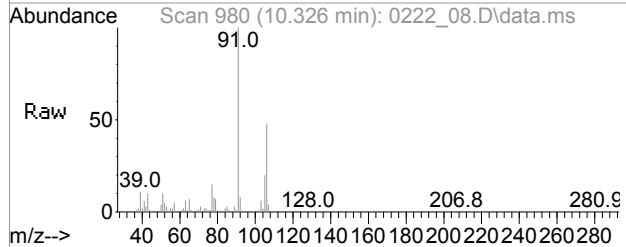
#55
Ethylbenzene
Concen: 1.06 ppbv
RT: 10.237 min Scan# 968
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

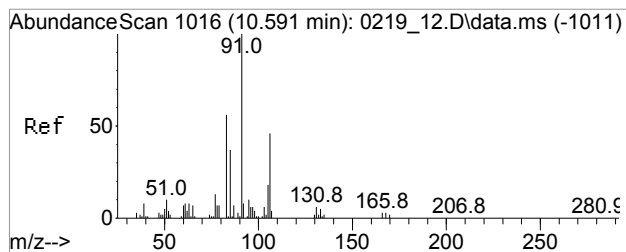
Tgt Ion: 91 Resp: 51166
Ion Ratio Lower Upper
91 100
106 30.3 10.8 50.8
77 9.7 0.0 28.9



#56
m,p-Xylene
Concen: 3.53 ppbv
RT: 10.326 min Scan# 980
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

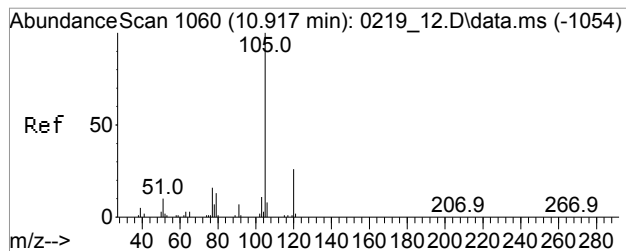
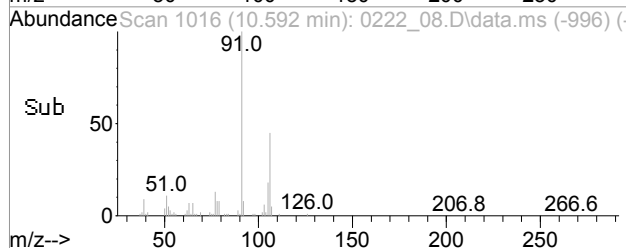
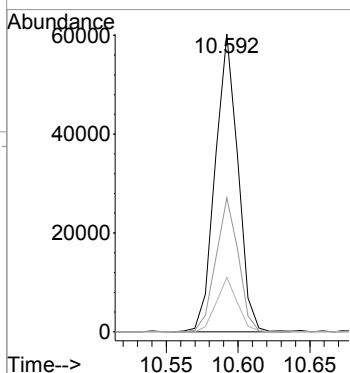
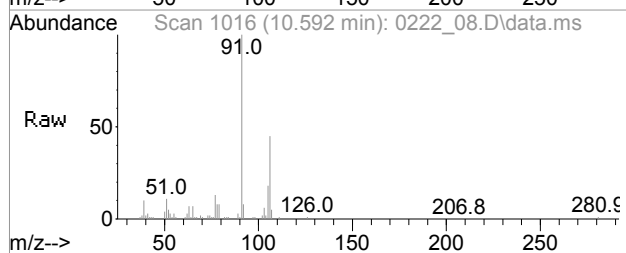
Tgt Ion: 91 Resp: 128107
Ion Ratio Lower Upper
91 100
106 47.5 38.7 58.1
105 20.7 16.6 25.0





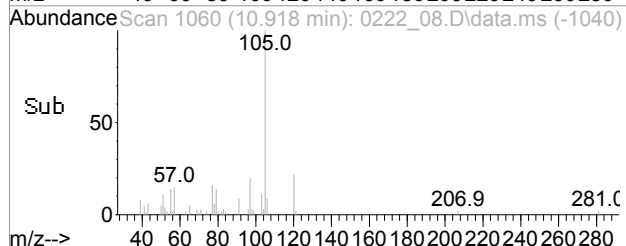
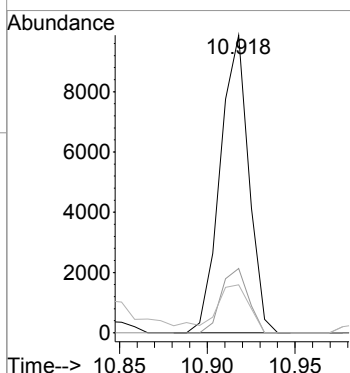
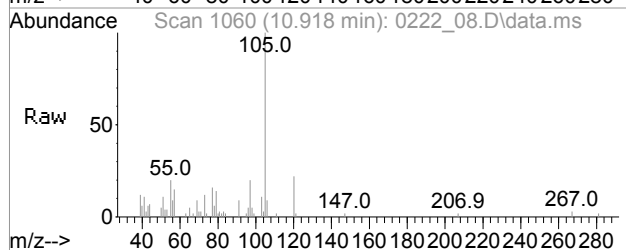
#60
o-Xylene
Concen: 1.70 ppbv
RT: 10.592 min Scan# 1016
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

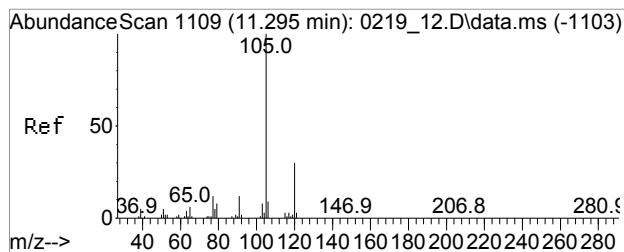
Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.5	37.4	56.2
105	17.0	14.1	21.1



#63
Isopropylbenzene
Concen: 0.22 ppbv
RT: 10.918 min Scan# 1060
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

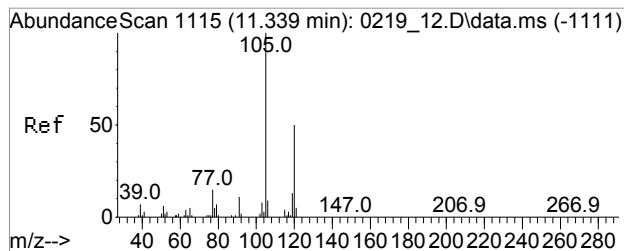
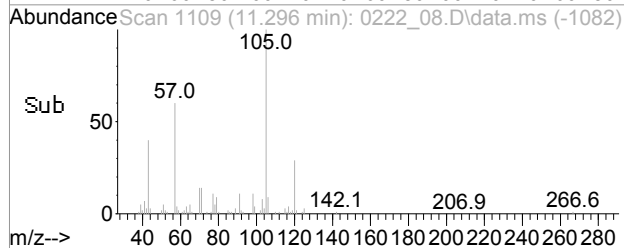
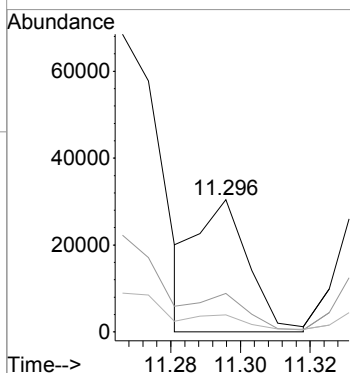
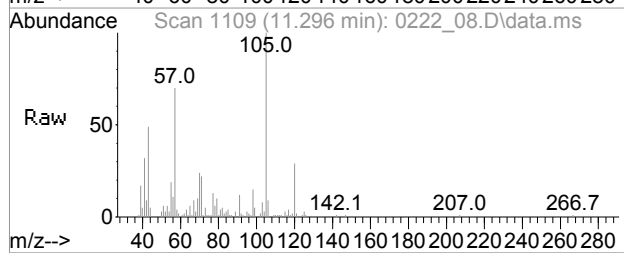
Tgt Ion	Ratio	Lower	Upper
105	100		
120	20.5	19.4	29.2
77	17.6	13.2	19.8





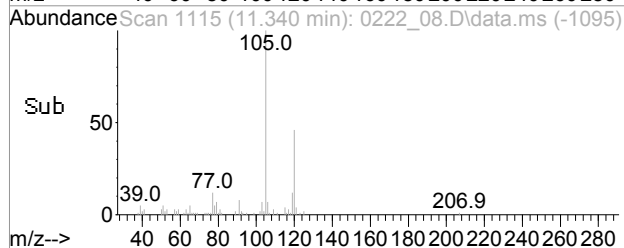
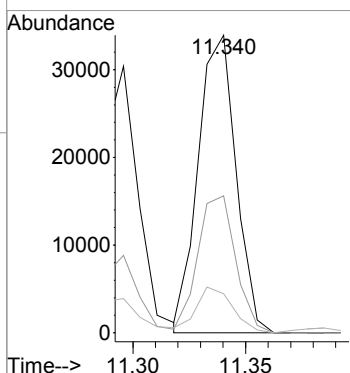
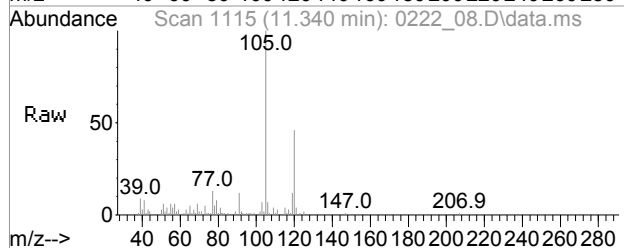
#65
4-Ethyltoluene
Concen: 0.58 ppbv m
RT: 11.296 min Scan# 1109
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

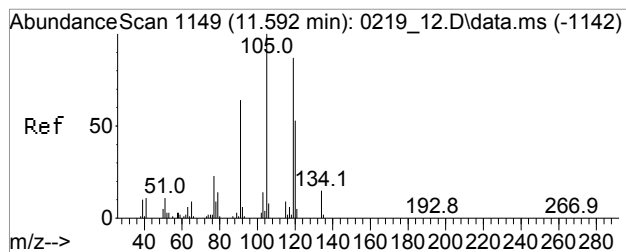
Tgt Ion:105 Resp: 31308
Ion Ratio Lower Upper
105 100
120 106.6 23.3 34.9#
77 45.4 10.0 15.0#



#66
1,3,5-Trimethylbenzene
Concen: 0.88 ppbv
RT: 11.340 min Scan# 1115
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

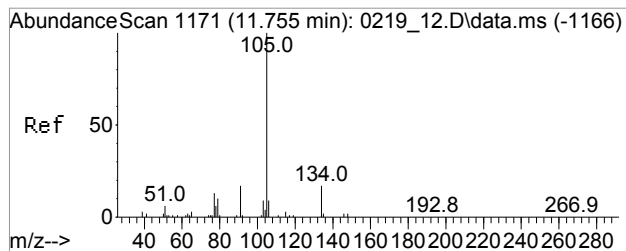
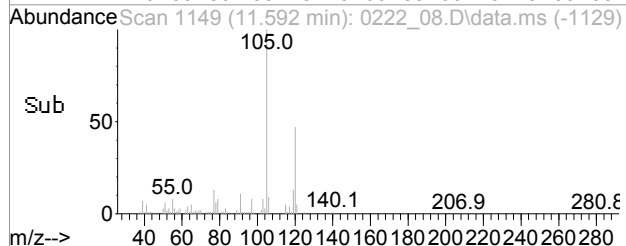
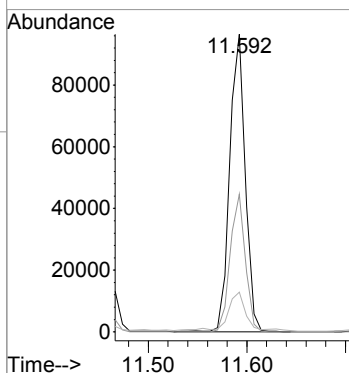
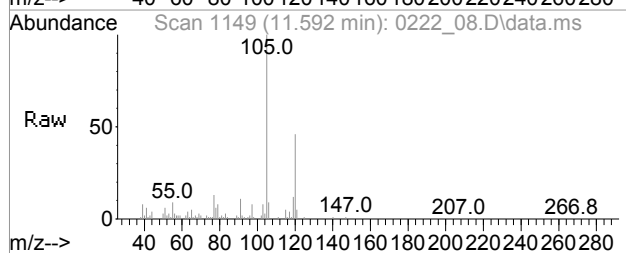
Tgt Ion:105 Resp: 39572
Ion Ratio Lower Upper
105 100
120 46.3 38.6 57.8
77 14.8 11.3 16.9





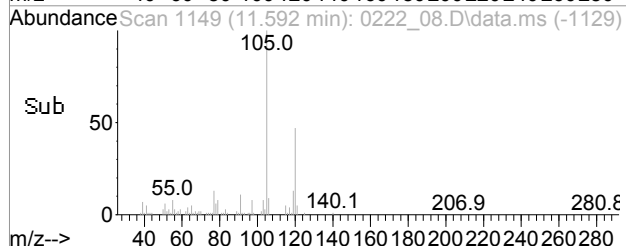
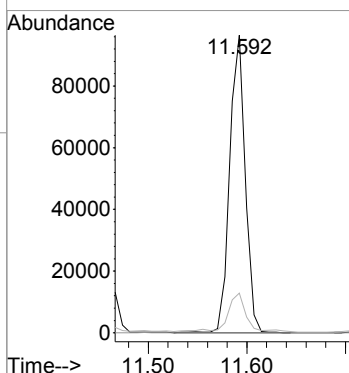
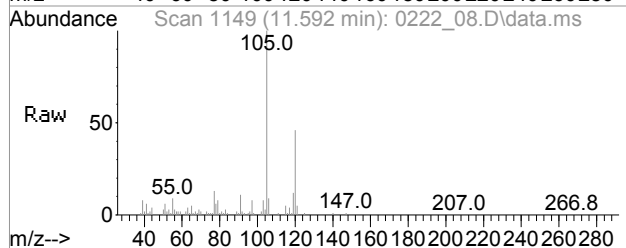
#67
1,2,4-Trimethylbenzene
Concen: 2.57 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

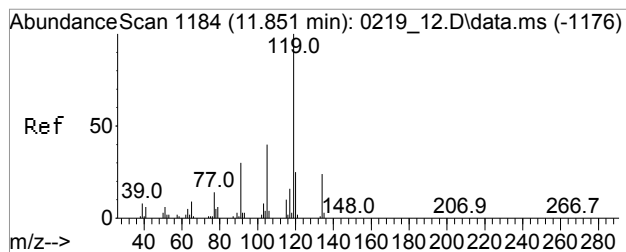
Tgt Ion:105 Resp: 106487
Ion Ratio Lower Upper
105 100
120 45.1 43.5 65.3
77 16.4 20.2 30.4#



#72
sec-Butylbenzene
Concen: 1.94 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

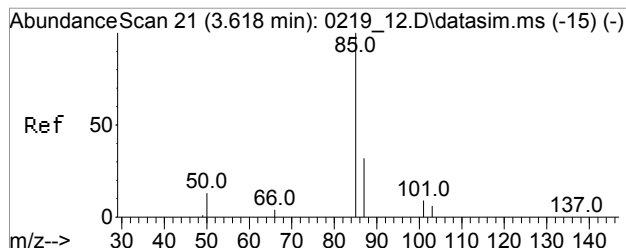
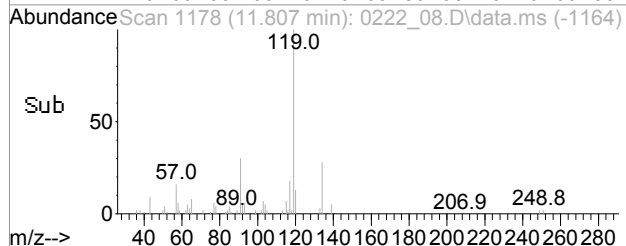
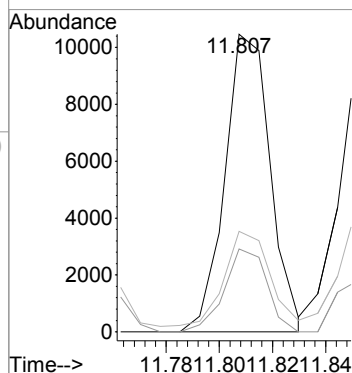
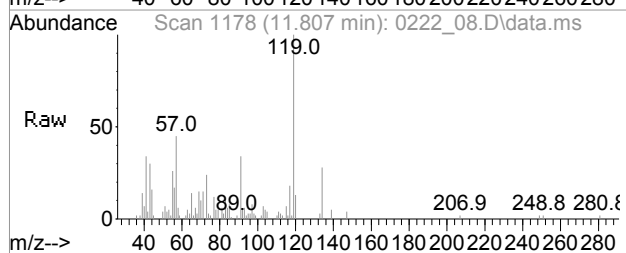
Tgt Ion:105 Resp: 106487
Ion Ratio Lower Upper
105 100
134 0.0 13.7 20.5#
77 16.4 11.0 16.4#





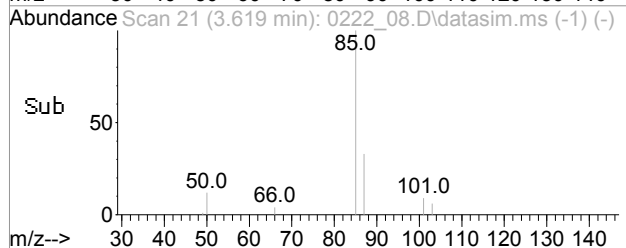
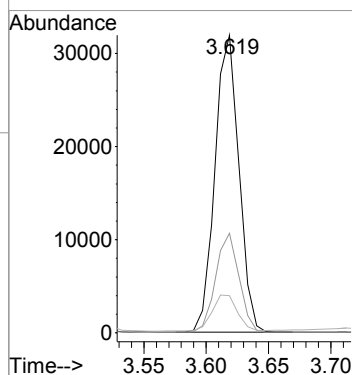
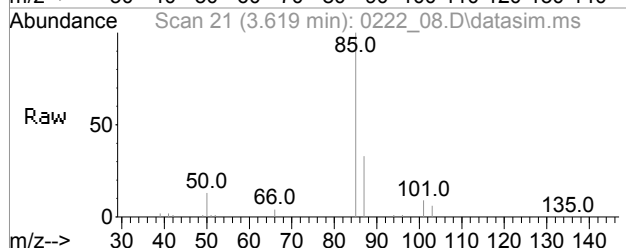
#73
4-Isopropyltoluene
Concen: 0.23 ppbv m
RT: 11.807 min Scan# 1178
Delta R.T. -0.044 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

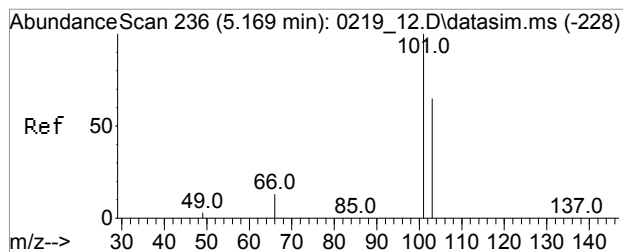
Tgt Ion: 119 Resp: 12414
Ion Ratio Lower Upper
119 100
134 26.1 18.2 27.4
91 31.9 25.8 38.8



#80
Dichlorodifluoromethane(sim)
Concen: 0.51 ppbv
RT: 3.619 min Scan# 21
Delta R.T. -0.006 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

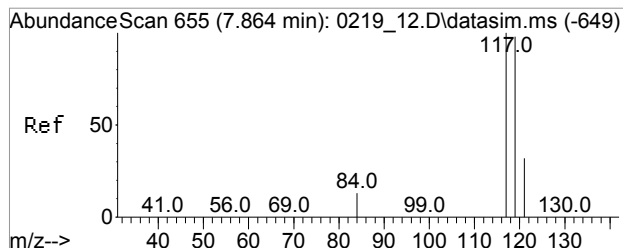
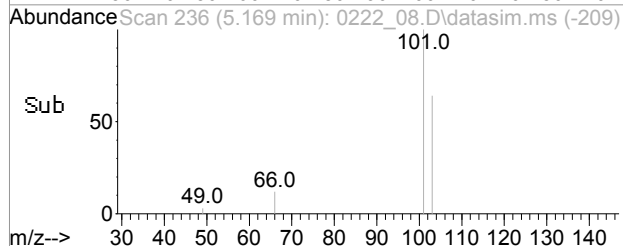
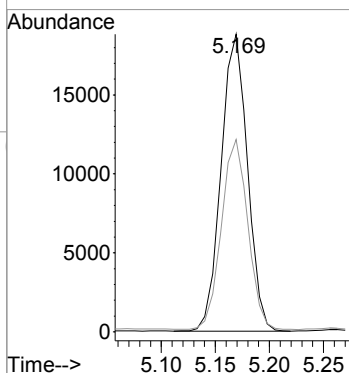
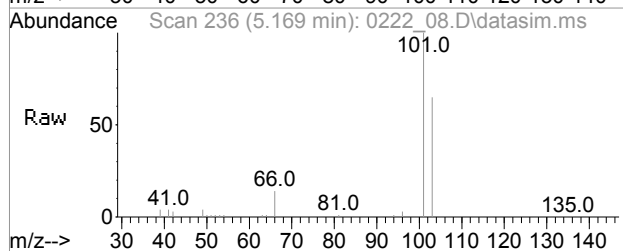
Tgt Ion: 85 Resp: 42365
Ion Ratio Lower Upper
85 100
87 32.5 12.7 52.7
50 12.9 0.0 32.3





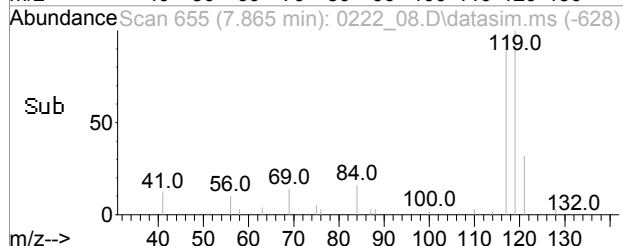
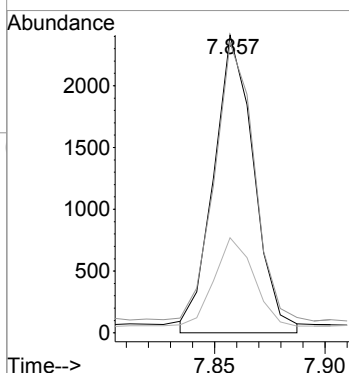
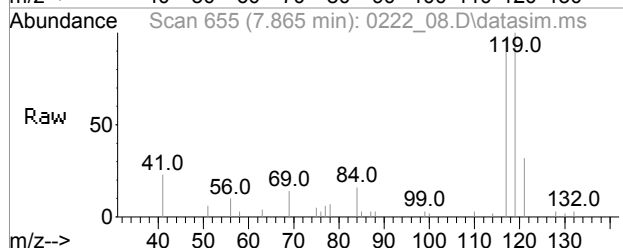
#84
Trichlorofluoromethane(sim)
Concen: 0.43 ppbv
RT: 5.169 min Scan# 236
Delta R.T. -0.007 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

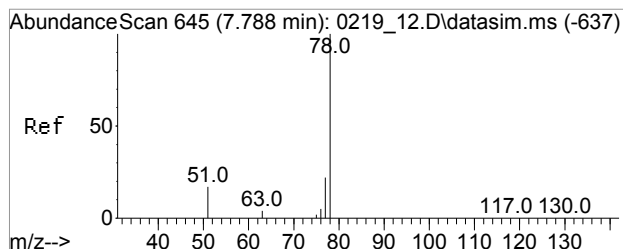
Tgt Ion:101 Resp: 31885
Ion Ratio Lower Upper
101 100
103 64.2 52.0 78.0



#87
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 7.862 min Scan# 655
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

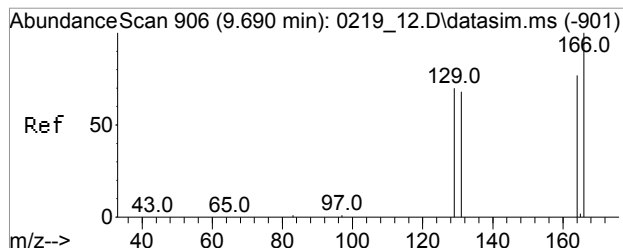
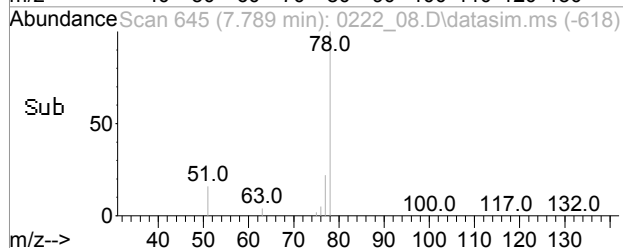
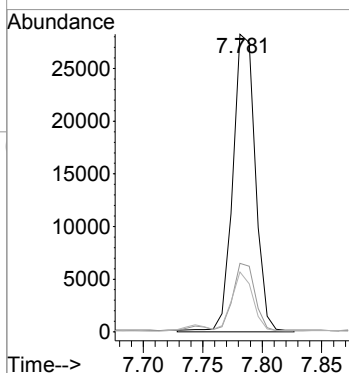
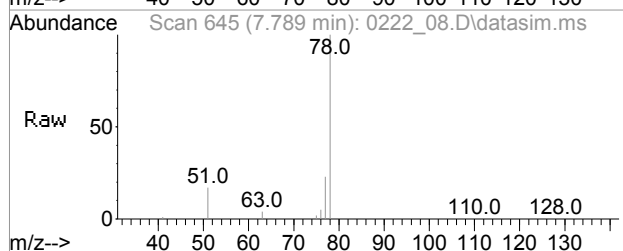
Tgt Ion:117 Resp: 2125
Ion Ratio Lower Upper
117 100
119 108.8 76.7 115.1
121 27.0 24.6 37.0





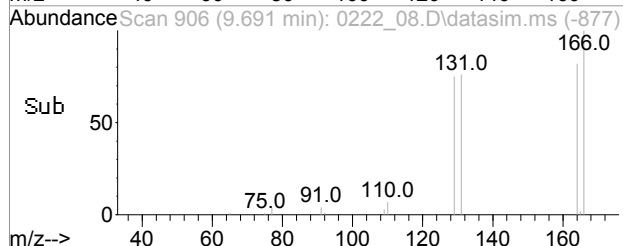
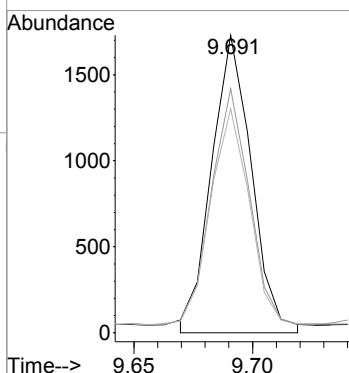
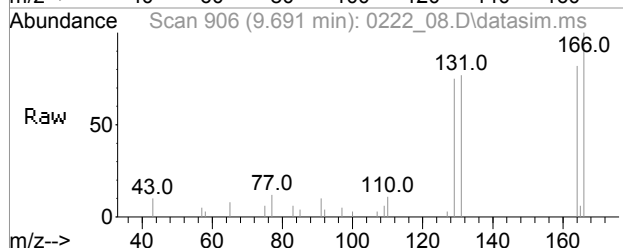
#95
Benzene(sim)
Concen: 0.90 ppbv
RT: 7.786 min Scan# 645
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

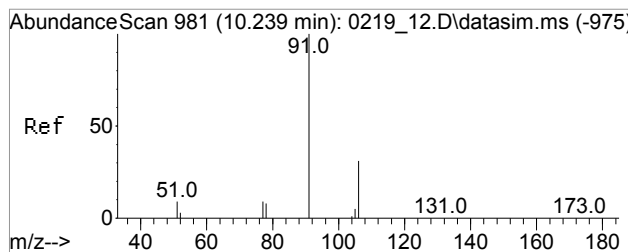
Tgt Ion: 78 Resp: 33380
Ion Ratio Lower Upper
78 100
77 28.8 22.0 24.4#
51 17.5 14.9 22.3



#105
Tetrachloroethene(sim)
Concen: 0.07 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

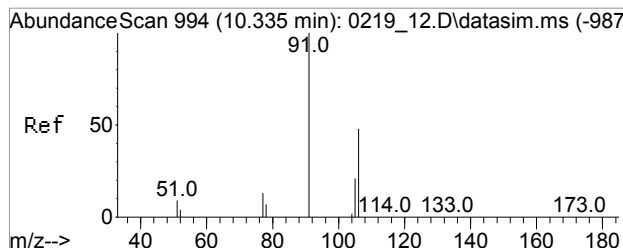
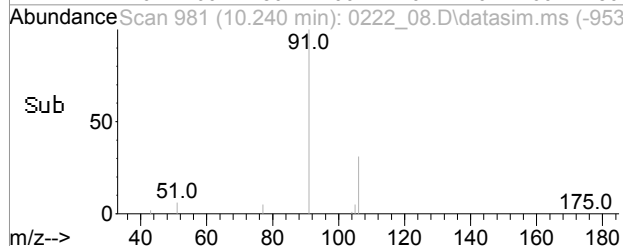
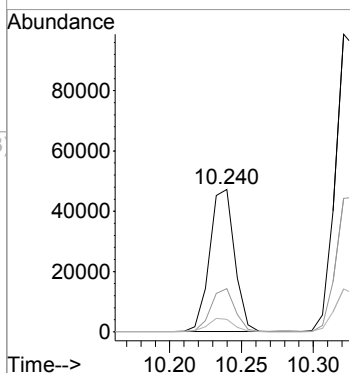
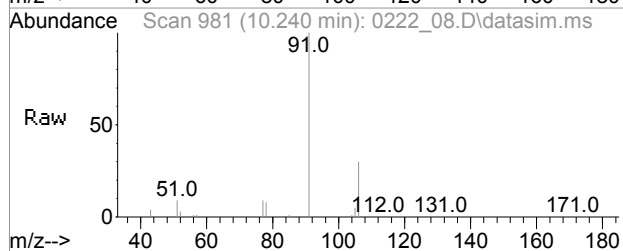
Tgt Ion: 166 Resp: 1425
Ion Ratio Lower Upper
166 100
164 72.3 57.8 97.8
129 85.0 50.7 90.7





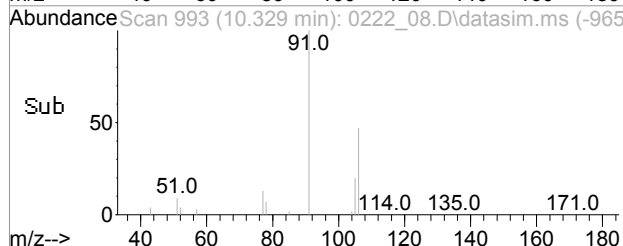
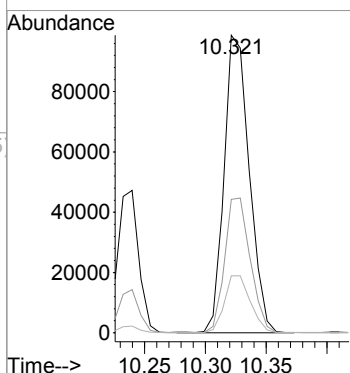
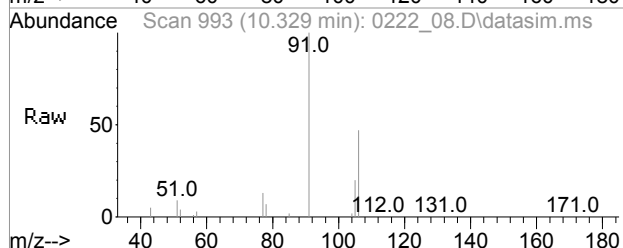
#110
Ethylbenzene(sim)
Concen: 1.00 ppbv
RT: 10.240 min Scan# 981
Delta R.T. 0.009 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

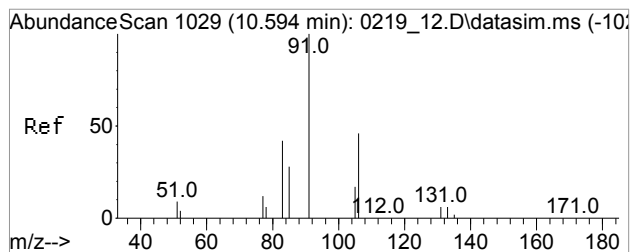
Tgt Ion: 91 Resp: 57000
Ion Ratio Lower Upper
91 100
106 29.4 24.0 36.0
77 9.4 7.3 10.9



#111
m,p-Xylene(sim)
Concen: 3.09 ppbv
RT: 10.326 min Scan# 993
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

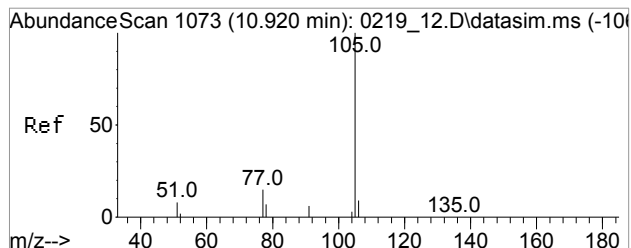
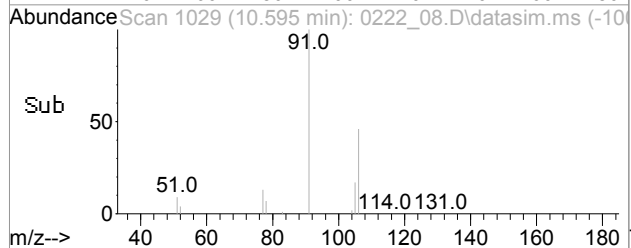
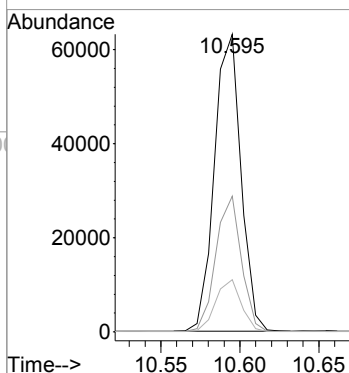
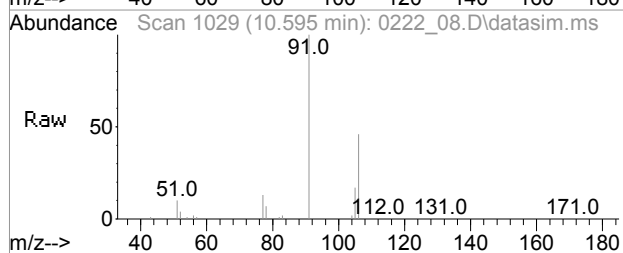
Tgt Ion: 91 Resp: 128107
Ion Ratio Lower Upper
91 100
106 47.5 43.6 53.2
105 20.7 16.6 25.0





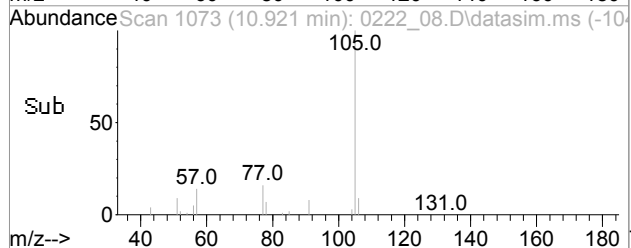
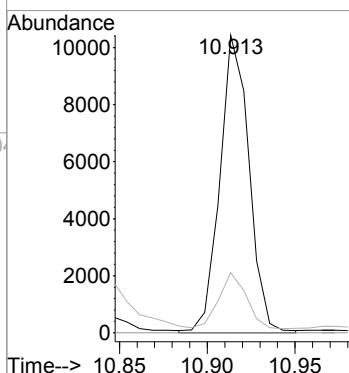
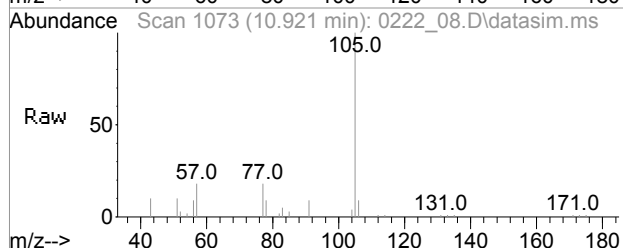
#114
o-Xylene(sim)
Concen: 1.59 ppbv
RT: 10.595 min Scan# 1029
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

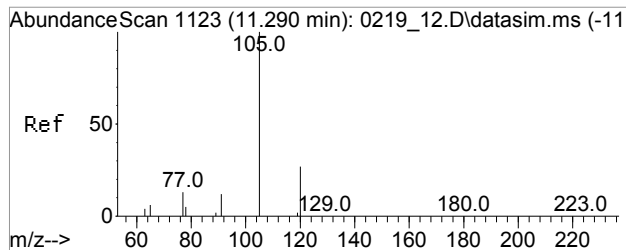
Tgt Ion: 91 Resp: 73548
Ion Ratio Lower Upper
91 100
106 44.0 36.0 54.0
105 16.9 13.8 20.8



#115
Isopropylbenzene(sim)
Concen: 0.20 ppbv
RT: 10.918 min Scan# 1073
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

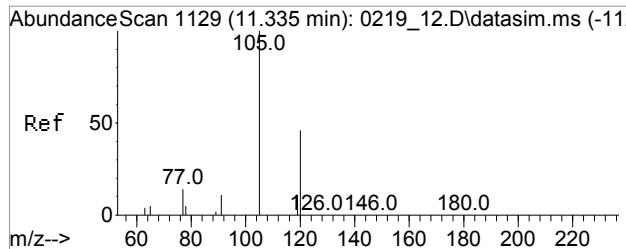
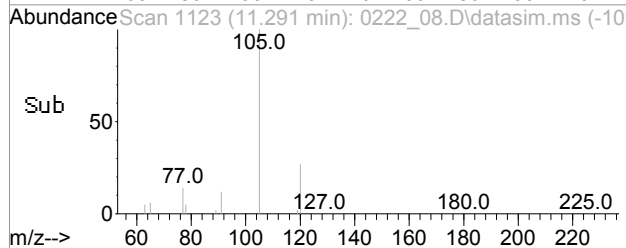
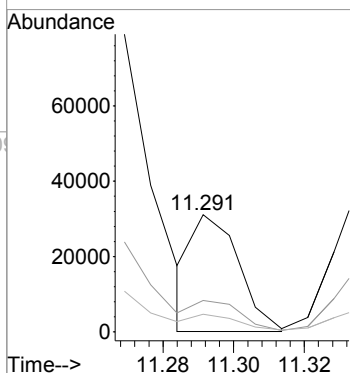
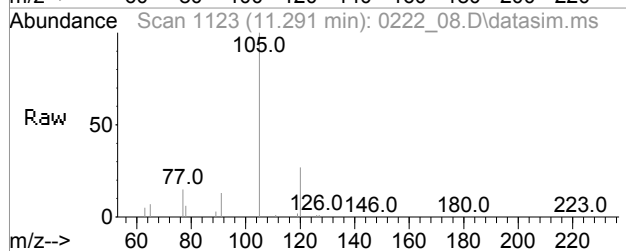
Tgt Ion: 105 Resp: 11181
Ion Ratio Lower Upper
105 100
120 20.5 19.4 29.2
77 17.6 13.2 19.8





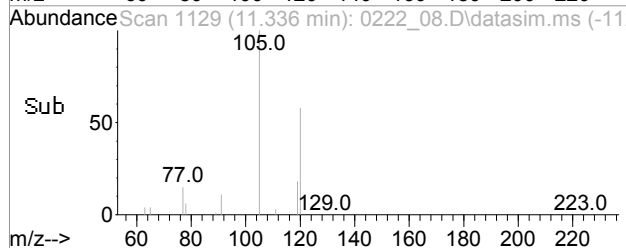
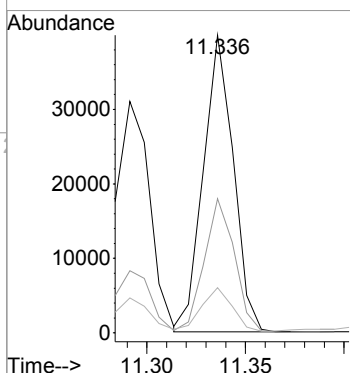
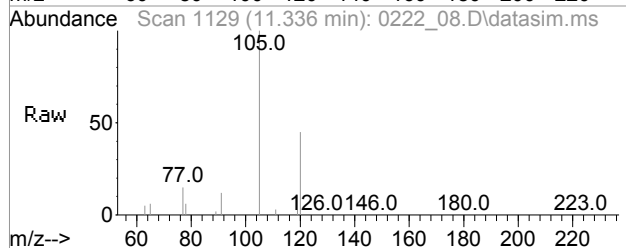
#117
4-Ethyltoluene(sim)
Concen: 0.48 ppbv m
RT: 11.291 min Scan# 1123
Delta R.T. -0.004 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

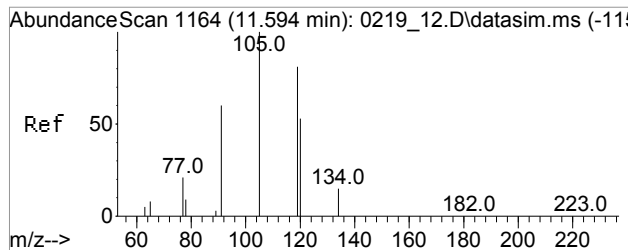
Tgt Ion:105 Resp: 28406
Ion Ratio Lower Upper
105 100
120 117.5 23.3 34.9#
77 50.0 10.0 15.0#



#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.81 ppbv
RT: 11.336 min Scan# 1129
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

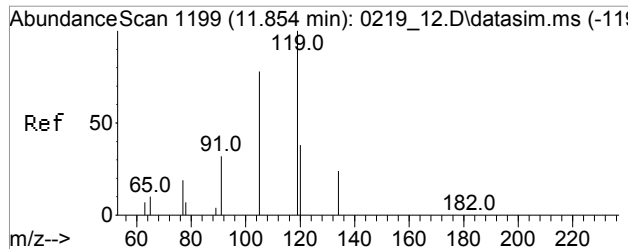
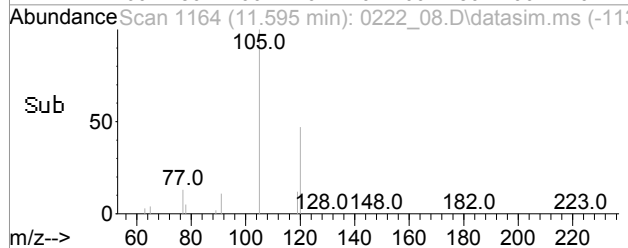
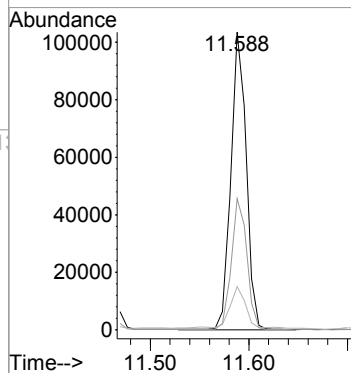
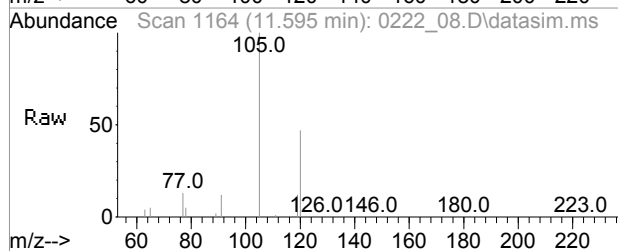
Tgt Ion:105 Resp: 42142
Ion Ratio Lower Upper
105 100
120 45.5 10.6 82.0
77 14.7 11.4 17.2





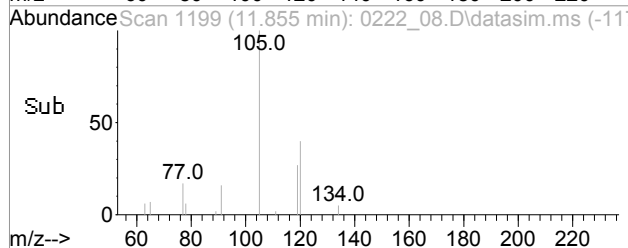
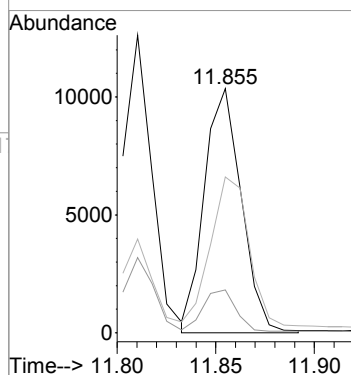
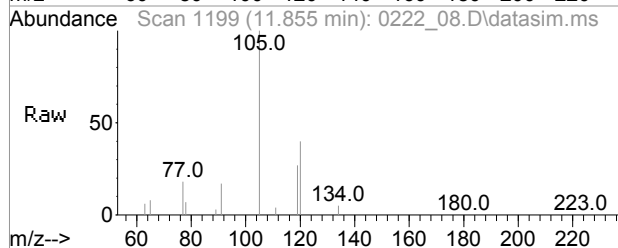
#119
1,2,4-Trimethylbenzene(sim)
Concen: 2.36 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

Tgt Ion:105 Resp: 106487
Ion Ratio Lower Upper
105 100
120 45.1 43.5 65.3
77 16.4 20.2 30.4#



#125
4-Isopropyltoluene(sim)
Concen: 0.20 ppbv
RT: 11.852 min Scan# 1199
Delta R.T. 0.001 min
Lab File: 0222_08.D
Acq: 22 Feb 2016 11:51 am

Tgt Ion:119 Resp: 12369
Ion Ratio Lower Upper
119 100
134 15.8 18.2 27.4#
91 69.7 25.8 38.8#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67655 10X</u>
Canister:	<u>216</u>	Lab File ID:	<u>0222_21.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.81	U	5.81	5.81	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	7.20	S	5.31	5.31	r
67-64-1	Acetone	15.7	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
156-59-2	Cis-1,2-Dichloroethene	33.8		2.52	2.52	r
110-54-3	Hexane	2.84	U	2.84	2.84	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	122		0.466	0.466	r
142-82-5	Heptane	2.44	U	2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	5.42		2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	2300	E	0.369	0.369	
179601-23-1	m,p-Xylene	8.22		2.30	2.30	r
95-47-6	o-Xylene	3.98		2.30	2.30	r
108-67-8	1,3,5-Trimethylbenzene	2.81		2.04	2.04	r
95-63-6	1,2,4-Trimethylbenzene	10.9		2.04	2.04	r
135-98-8	sec-Butylbenzene	8.18		1.82	1.82	r
75-71-8	Dichlorodifluoromethane(sim)	2.02	U	2.02	2.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67655 10X</u>
Canister:	<u>216</u>	Lab File ID:	<u>0222_21.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r
75-15-0	Carbon Disulfide(sim)	3.21	U	3.21	3.21	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r
156-60-5	Trans-1,2-Dichloroethene(sim)	2.52	U	2.52	2.52	r
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r
67-66-3	Chloroform(sim)	2.05	U	2.05	2.05	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-41-4	Ethylbenzene(sim)	2.30	U	2.30	2.30	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
622-96-8	4-Ethyltoluene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_21.D
 Acq On : 23 Feb 2016 12:54 am
 Operator : CORTEX\ms
 Client ID : SS-6
 Lab ID : BK67655 10X
 ALS Vial : 1 Sample Multiplier: 1

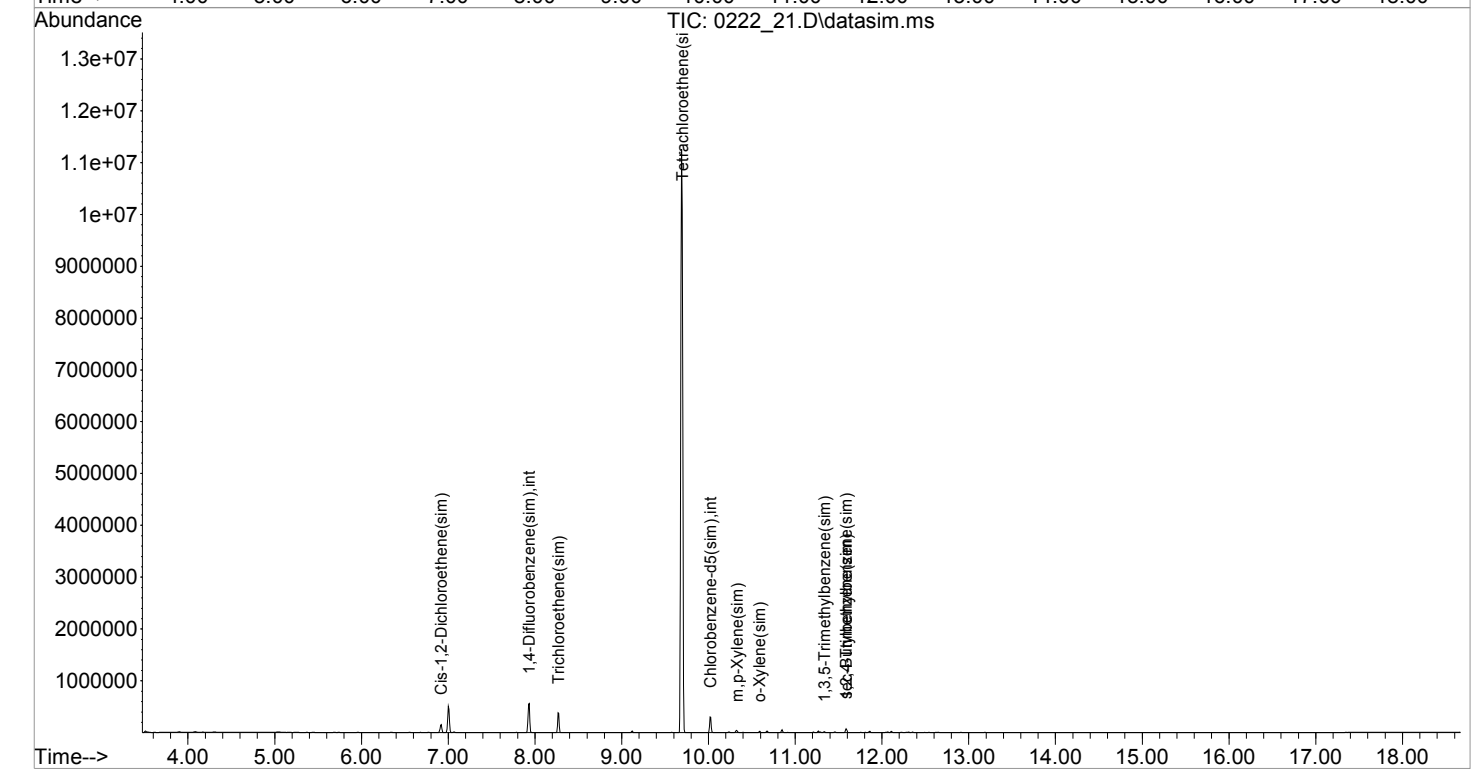
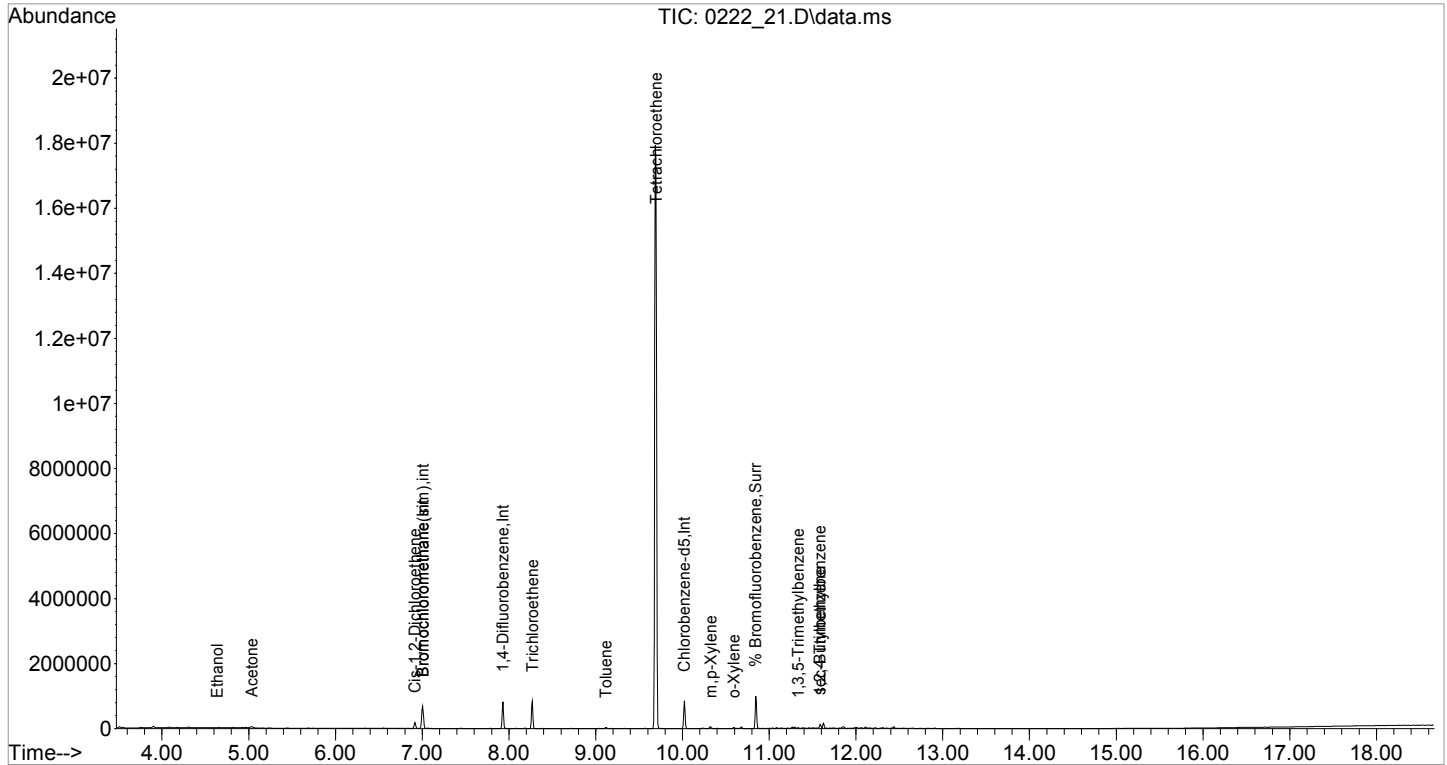
Quant Time: Feb 23 08:26:40 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

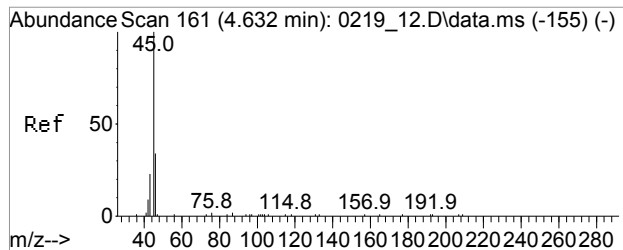
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	145598	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	388484	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	163155	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	145598	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	465467	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.025	82	175875	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.844	95	220793	10.248	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.50%
Target Compounds						
					Qvalue	
10) Ethanol	4.640	45	3323	0.720	ppbv#	86
11) Acetone	5.036	43	40579	1.566	ppbv	97
25) Cis-1,2-Dichloroethene	6.915	61	76379	3.384	ppbv	94
38) Trichloroethene	8.270	130	165014	12.231	ppbv	98
47) Toluene	9.118	91	15847	0.542	ppbv	96
51) Tetrachloroethene	9.695	166	4556083	232.705	ppbv	99
56) m, p-Xylene	10.326	91	24584	0.822	ppbv	96
60) o-Xylene	10.592	91	12858	0.398	ppbv	94
66) 1,3,5-Trimethylbenzene	11.333	105	10411	0.281	ppbv	97
67) 1,2,4-Trimethylbenzene	11.585	105	37096	1.087	ppbv#	82
72) sec-Butylbenzene	11.585	105	37096	0.818	ppbv#	76
93] Cis-1,2-Dichloroethene...	6.915	61	76379	3.214	ppbv	94
99] Trichloroethene(sim)	8.270	130	165014	10.348	ppbv	98
105] Tetrachloroethene(sim)	9.695	166	4556083	232.764	ppbv	99
111] m, p-Xylene(sim)	10.326	91	24584	0.715	ppbv	96
114] o-Xylene(sim)	10.588	91	14036	0.365	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.336	105	11350	0.264	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.585	105	37096	0.988	ppbv#	82
124] sec-Butylbenzene(sim)	11.588	105	38513	0.689	ppbv	80

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_21.D
Acq On : 23 Feb 2016 12:54 am
Operator : CORTEX\ms
Client ID : SS-6
Lab ID : BK67655 10X
ALS Vial : 1 Sample Multiplier: 1

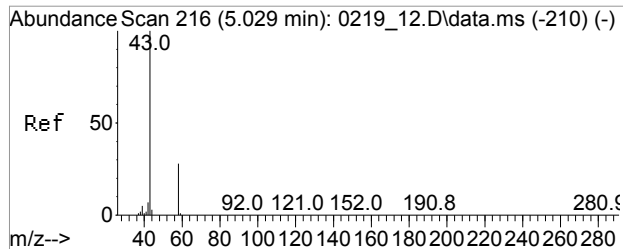
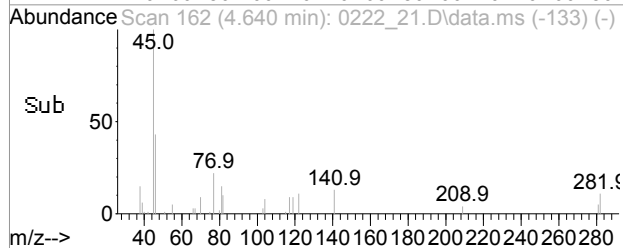
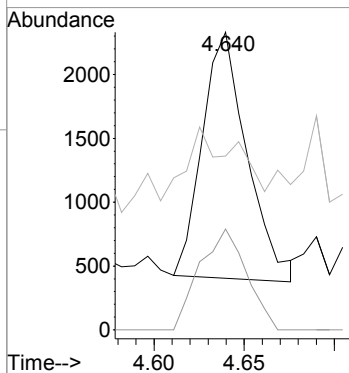
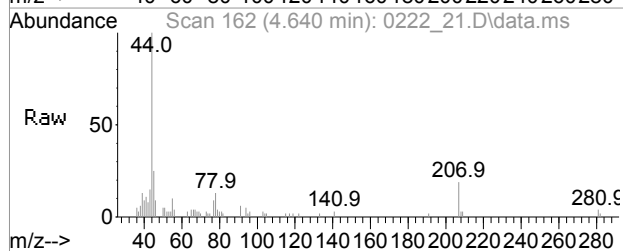
Quant Time: Feb 23 08:26:40 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





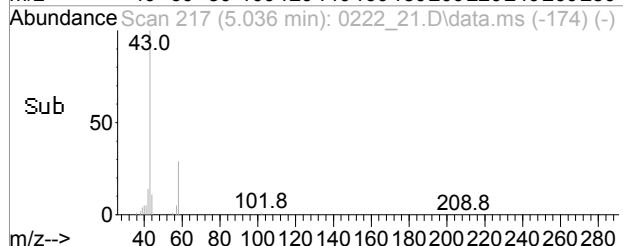
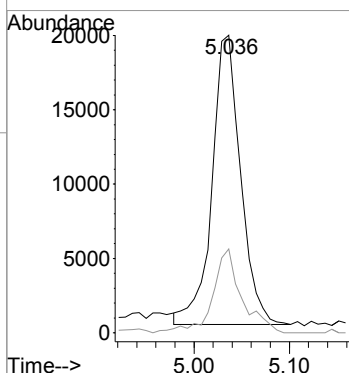
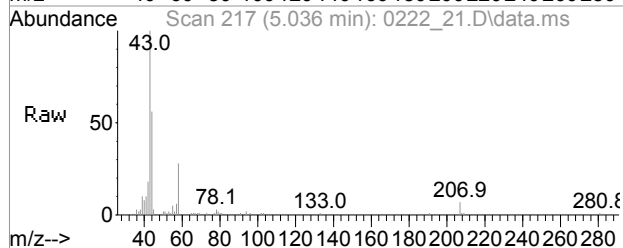
#10
Ethanol
Concen: 0.72 ppbv
RT: 4.640 min Scan# 162
Delta R.T. 0.008 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

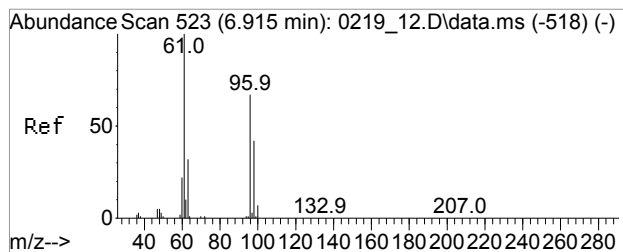
Tgt Ion: 45 Resp: 3323
Ion Ratio Lower Upper
45 100
46 42.9 28.5 42.7#
43 32.4 19.7 29.5#



#11
Acetone
Concen: 1.57 ppbv
RT: 5.036 min Scan# 217
Delta R.T. 0.007 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

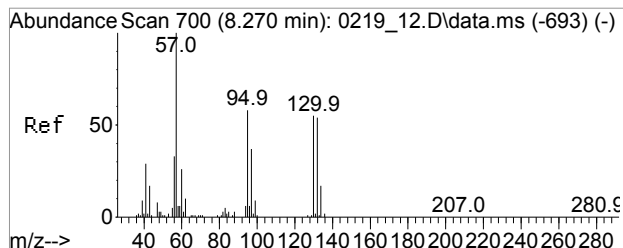
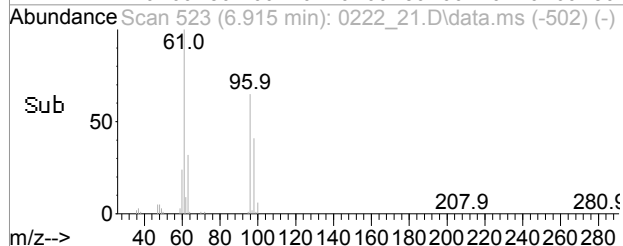
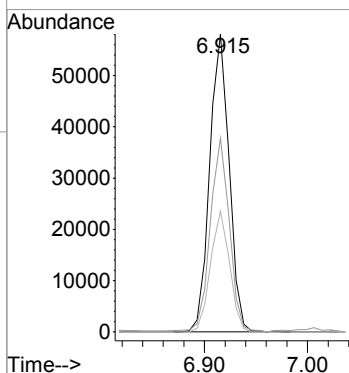
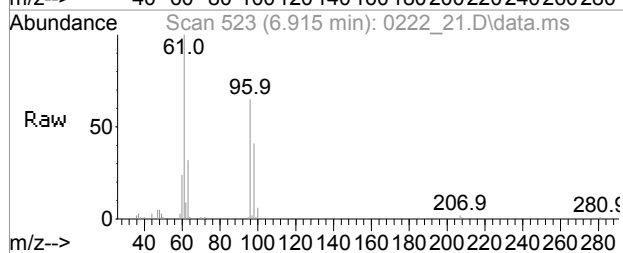
Tgt Ion: 43 Resp: 40579
Ion Ratio Lower Upper
43 100
58 29.3 24.8 37.2





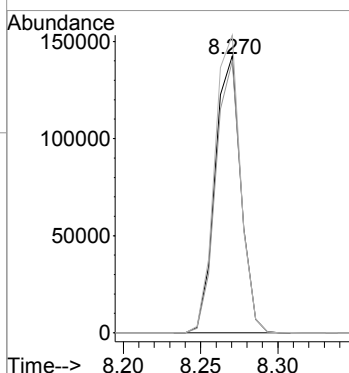
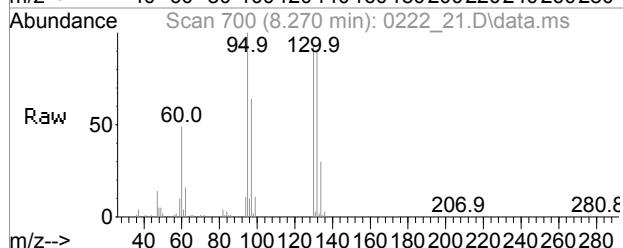
#25
Cis-1,2-Dichloroethene
Concen: 3.38 ppbv
RT: 6.915 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

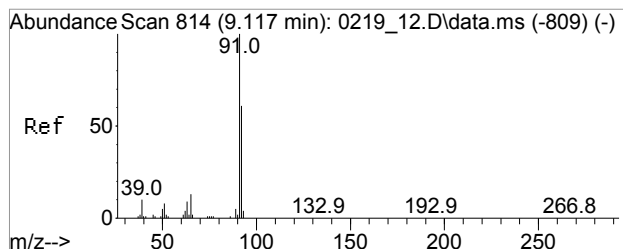
Tgt Ion: 61 Resp: 76379
Ion Ratio Lower Upper
61 100
96 64.2 55.1 82.7
98 39.7 35.7 53.5



#38
Trichloroethene
Concen: 12.23 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

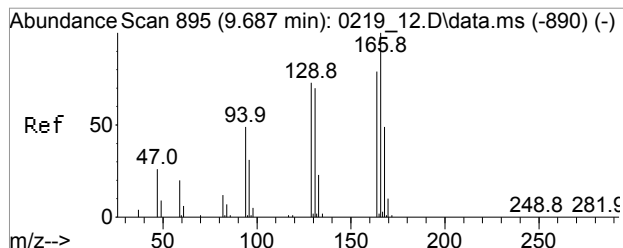
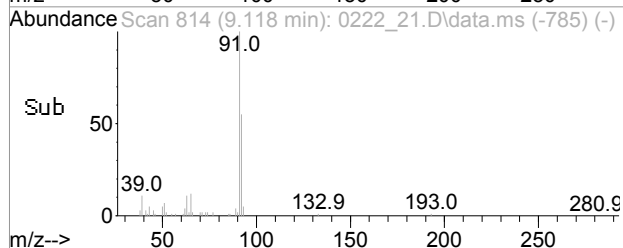
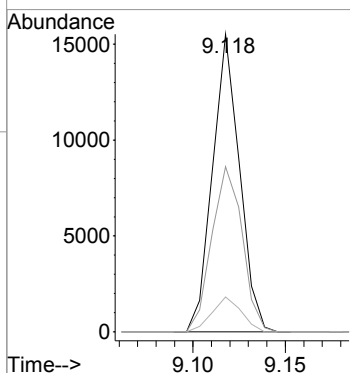
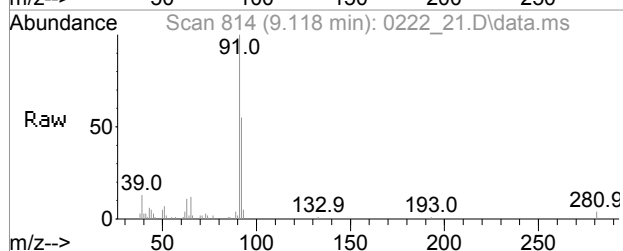
Tgt Ion: 130 Resp: 165014
Ion Ratio Lower Upper
130 100
132 96.1 77.2 115.8
95 107.6 82.7 124.1





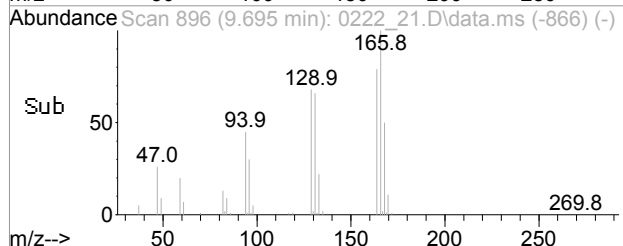
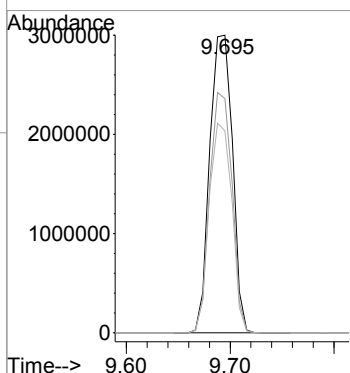
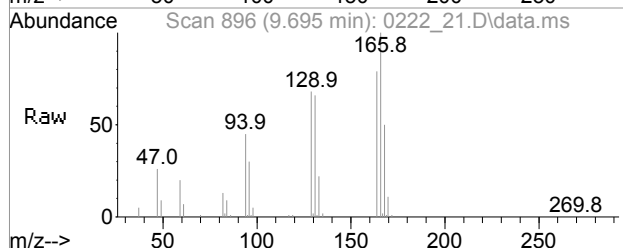
#47
Toluene
Concen: 0.54 ppbv
RT: 9.118 min Scan# 814
Delta R.T. 0.001 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

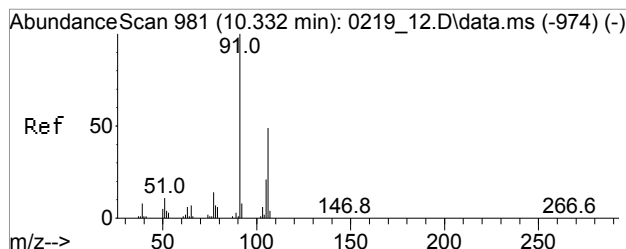
Tgt Ion: 91 Resp: 15847
Ion Ratio Lower Upper
91 100
92 62.6 47.7 71.5
65 12.7 9.5 14.3



#51
Tetrachloroethene
Concen: 232.70 ppbv
RT: 9.695 min Scan# 896
Delta R.T. 0.008 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

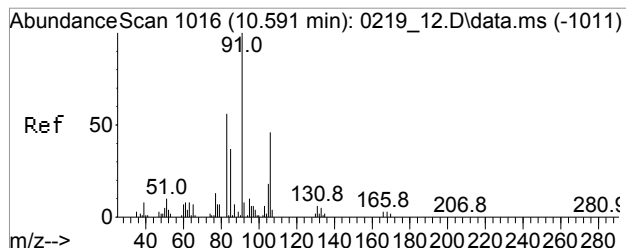
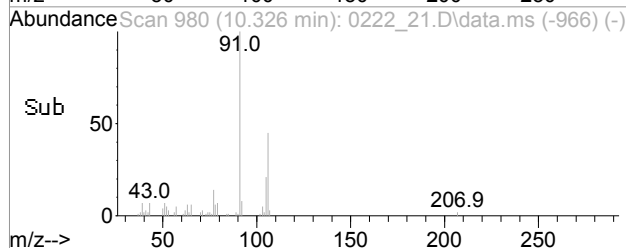
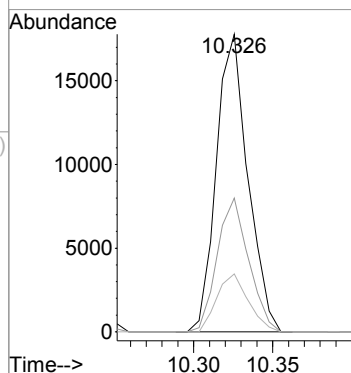
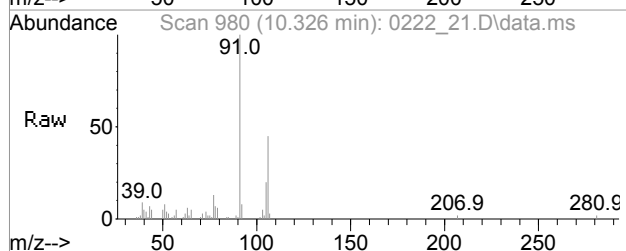
Tgt Ion: 166 Resp: 4556083
Ion Ratio Lower Upper
166 100
164 79.2 62.2 93.4
129 70.2 56.6 84.8





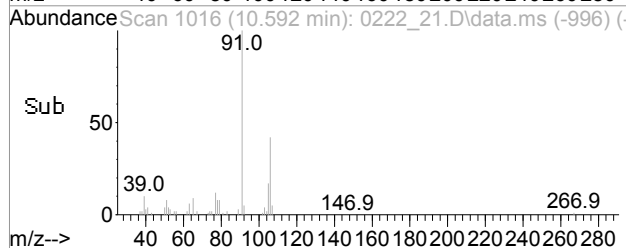
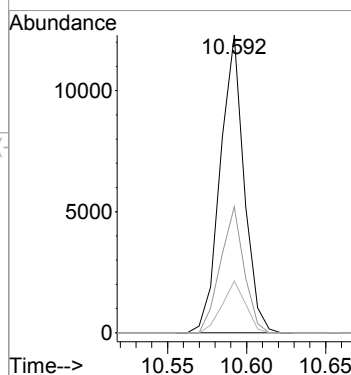
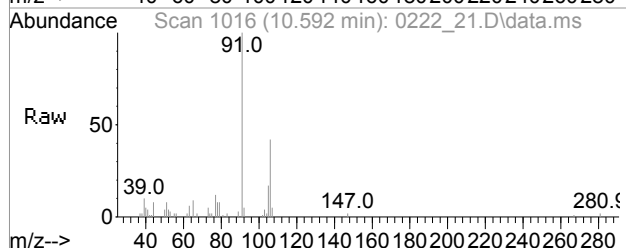
#56
m,p-Xylene
Concen: 0.82 ppbv
RT: 10.326 min Scan# 980
Delta R.T. 0.001 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

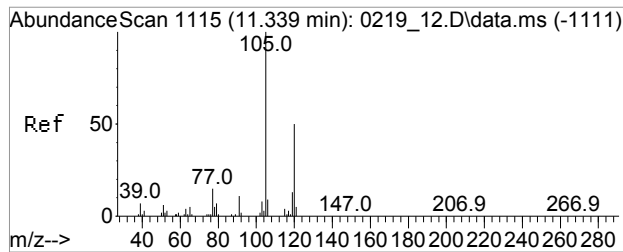
Tgt Ion: 91 Resp: 24584
Ion Ratio Lower Upper
91 100
106 44.9 38.7 58.1
105 19.5 16.6 25.0



#60
o-Xylene
Concen: 0.40 ppbv
RT: 10.592 min Scan# 1016
Delta R.T. 0.001 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

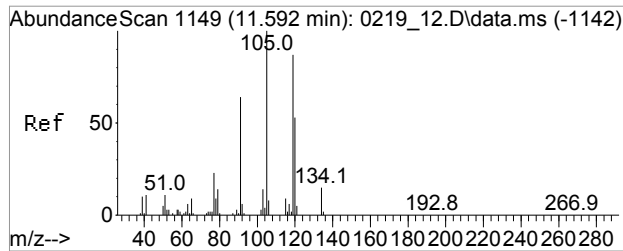
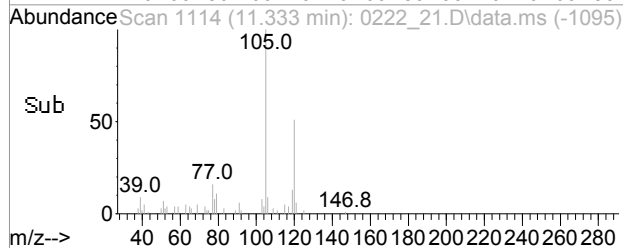
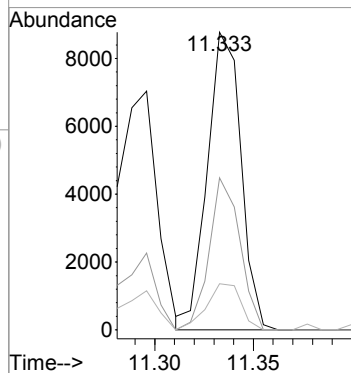
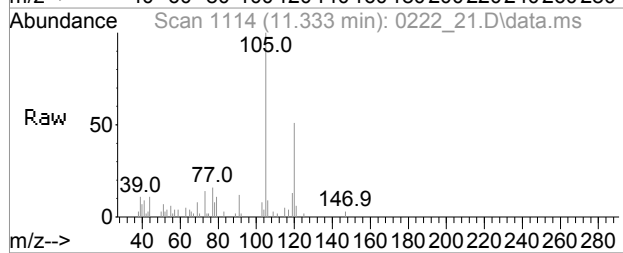
Tgt Ion: 91 Resp: 12858
Ion Ratio Lower Upper
91 100
106 42.0 37.4 56.2
105 17.1 14.1 21.1





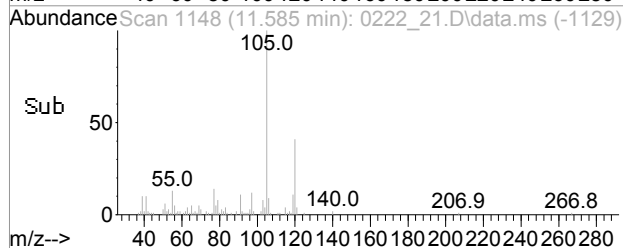
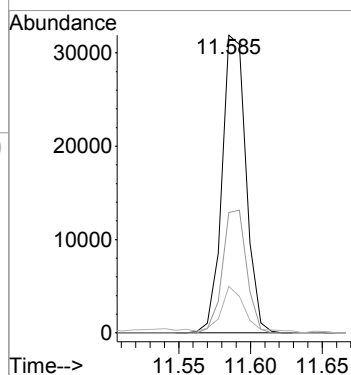
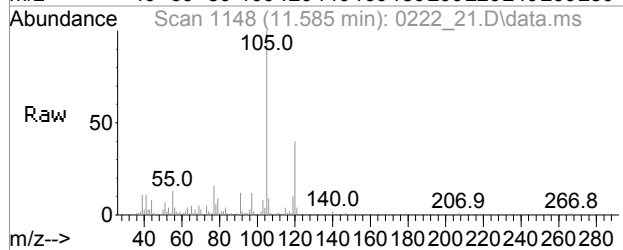
#66
1,3,5-Trimethylbenzene
Concen: 0.28 ppbv
RT: 11.333 min Scan# 1114
Delta R.T. -0.006 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

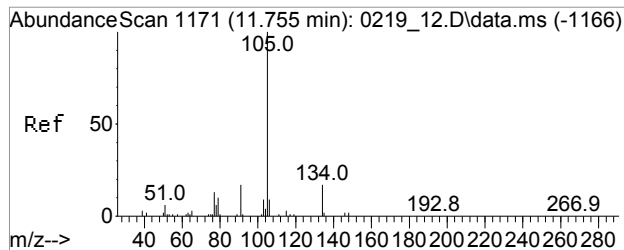
Tgt Ion:105 Resp: 10411
Ion Ratio Lower Upper
105 100
120 46.6 38.6 57.8
77 16.0 11.3 16.9



#67
1,2,4-Trimethylbenzene
Concen: 1.09 ppbv
RT: 11.585 min Scan# 1148
Delta R.T. -0.006 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

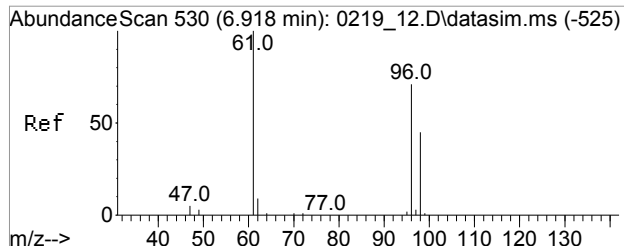
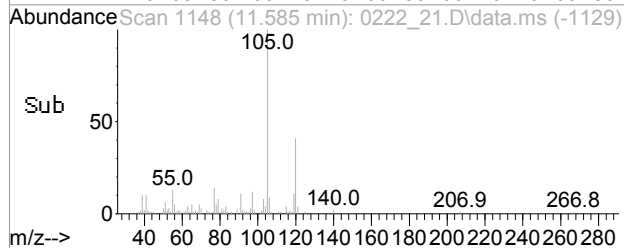
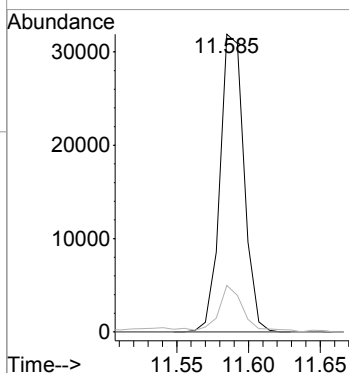
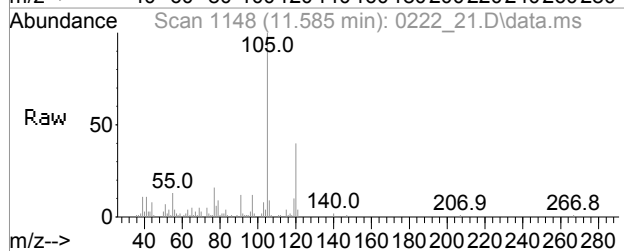
Tgt Ion:105 Resp: 37096
Ion Ratio Lower Upper
105 100
120 41.5 43.5 65.3#
77 16.0 20.2 30.4#





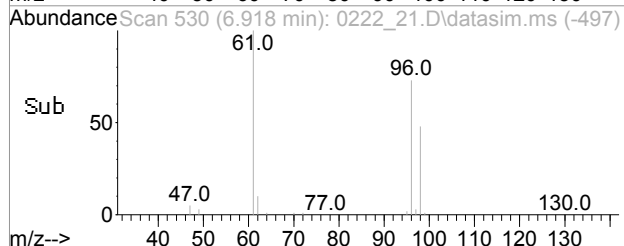
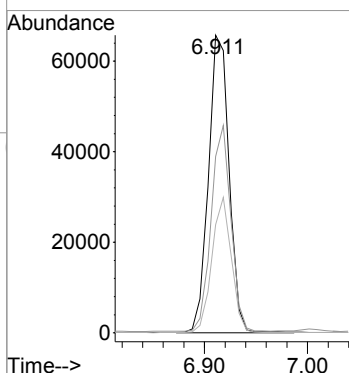
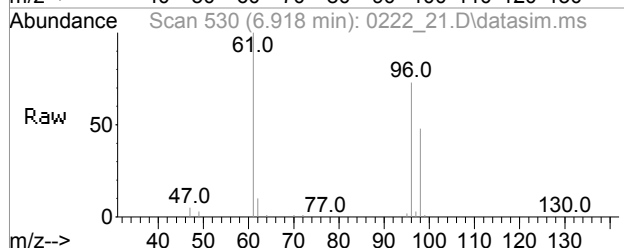
#72
 sec-Butylbenzene
 Concen: 0.82 ppbv
 RT: 11.585 min Scan# 1148
 Delta R.T. -0.006 min
 Lab File: 0222_21.D
 Acq: 23 Feb 2016 12:54 am

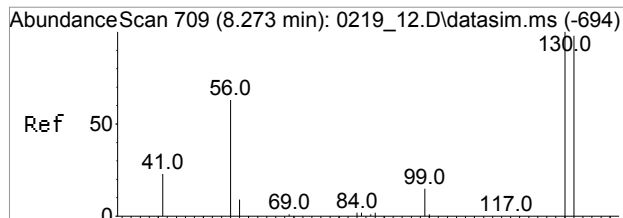
Tgt Ion: 105 Resp: 37096
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.7 20.5#
 77 16.0 11.0 16.4



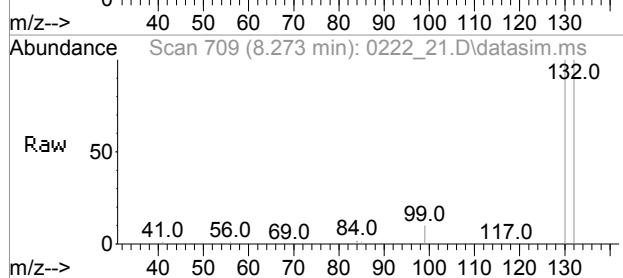
#93
 Cis-1,2-Dichloroethene(sim)
 Concen: 3.21 ppbv
 RT: 6.915 min Scan# 530
 Delta R.T. 0.000 min
 Lab File: 0222_21.D
 Acq: 23 Feb 2016 12:54 am

Tgt Ion: 61 Resp: 76379
 Ion Ratio Lower Upper
 61 100
 96 64.2 55.1 82.7
 98 39.7 35.7 53.5

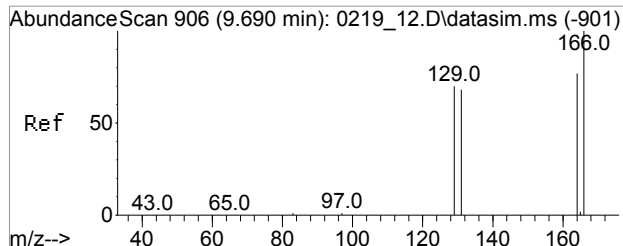
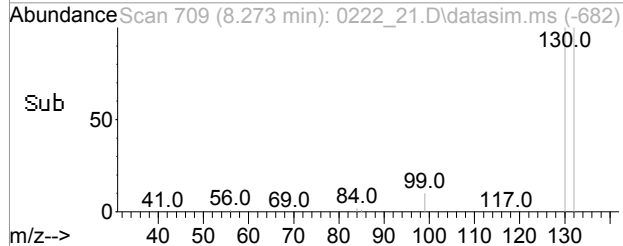
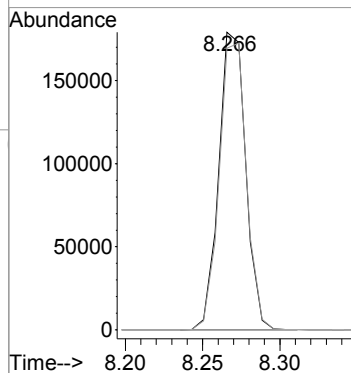




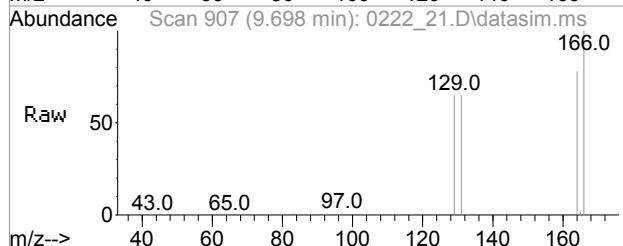
#99
Trichloroethene(sim)
Concen: 10.35 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am



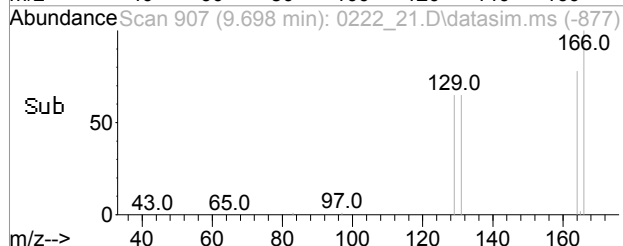
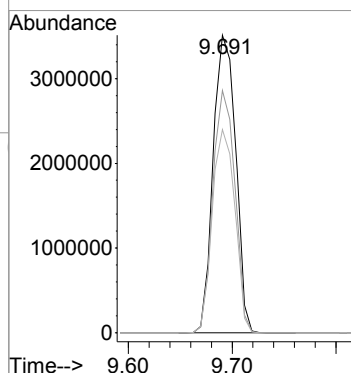
Tgt Ion:130 Resp: 165014
Ion Ratio Lower Upper
130 100
132 96.1 77.2 115.8
97 69.6 53.5 80.3

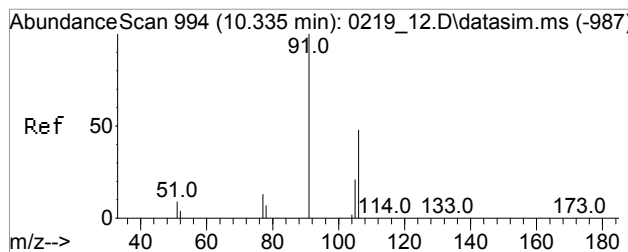


#105
Tetrachloroethene(sim)
Concen: 232.76 ppbv
RT: 9.695 min Scan# 907
Delta R.T. 0.008 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am



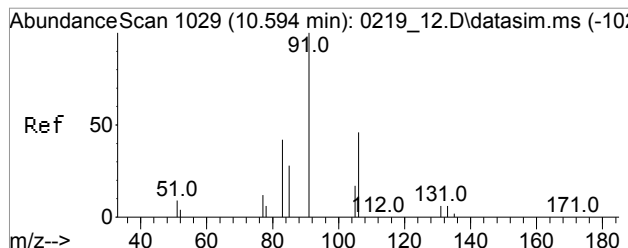
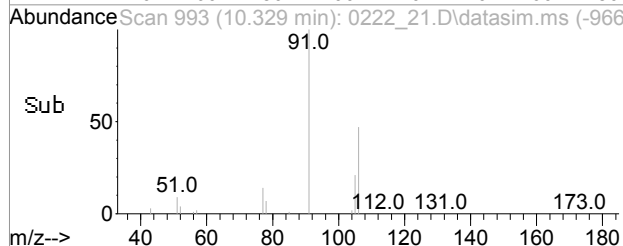
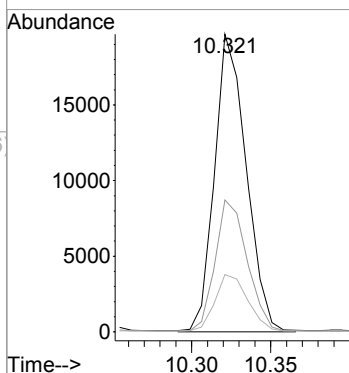
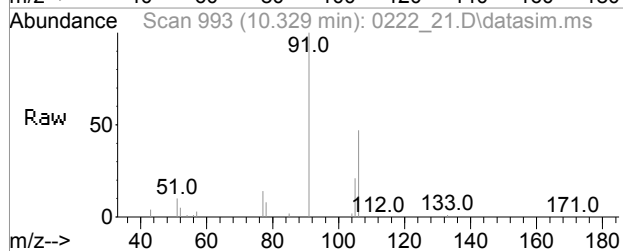
Tgt Ion:166 Resp: 4556083
Ion Ratio Lower Upper
166 100
164 79.2 57.8 97.8
129 70.2 50.7 90.7





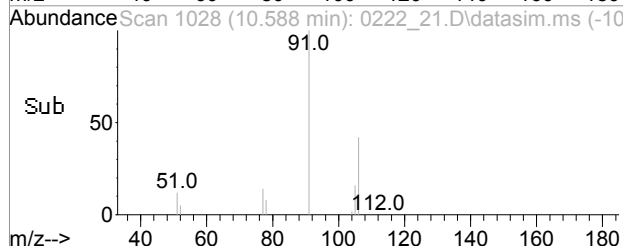
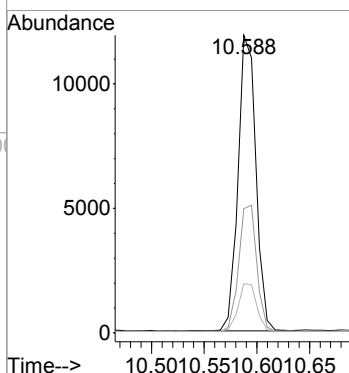
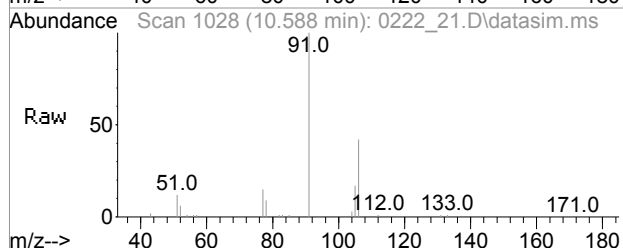
#111
m,p-Xylene(sim)
Concen: 0.71 ppbv
RT: 10.326 min Scan# 993
Delta R.T. 0.001 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

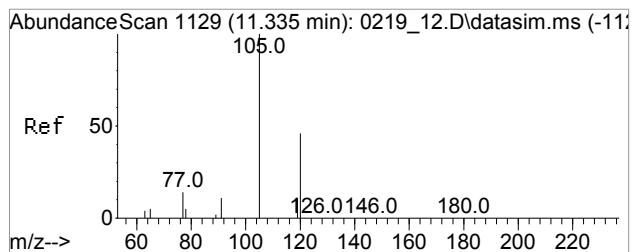
Tgt Ion: 91 Resp: 24584
Ion Ratio Lower Upper
91 100
106 44.9 43.6 53.2
105 19.5 16.6 25.0



#114
o-Xylene(sim)
Concen: 0.36 ppbv
RT: 10.588 min Scan# 1028
Delta R.T. -0.006 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

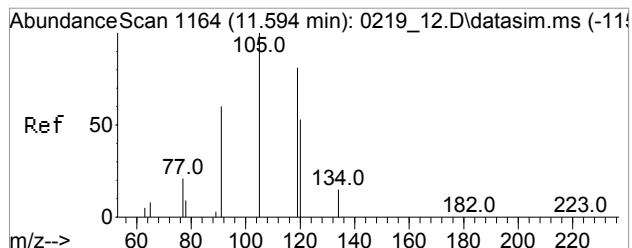
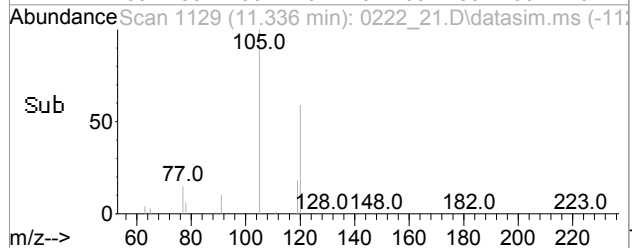
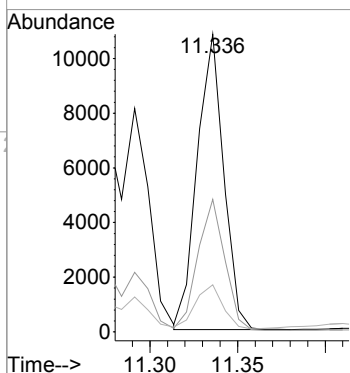
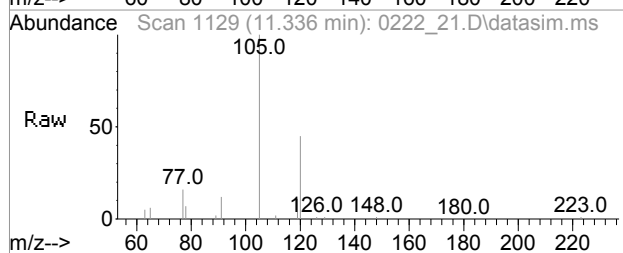
Tgt Ion: 91 Resp: 14036
Ion Ratio Lower Upper
91 100
106 43.2 36.0 54.0
105 16.7 13.8 20.8





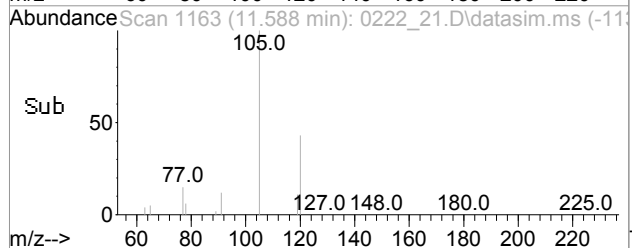
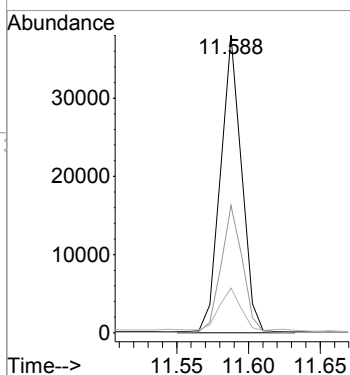
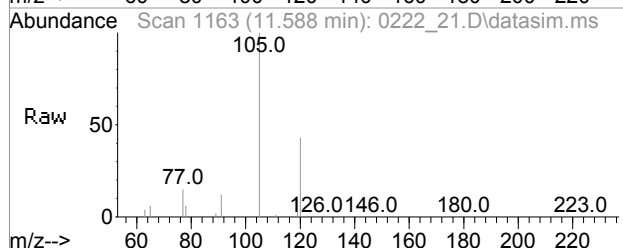
#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.26 ppbv
RT: 11.336 min Scan# 1129
Delta R.T. 0.001 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

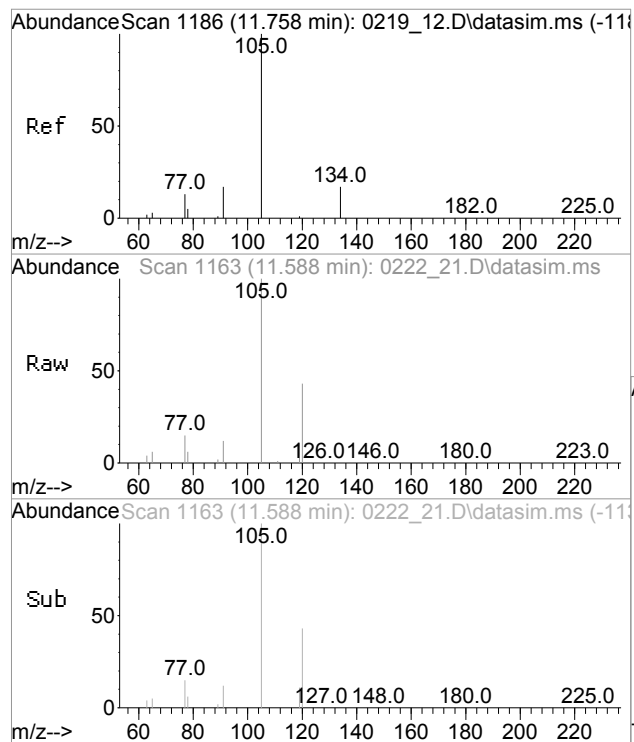
Tgt Ion:105 Resp: 11350
Ion Ratio Lower Upper
105 100
120 45.0 10.6 82.0
77 15.3 11.4 17.2



#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.99 ppbv
RT: 11.585 min Scan# 1163
Delta R.T. -0.006 min
Lab File: 0222_21.D
Acq: 23 Feb 2016 12:54 am

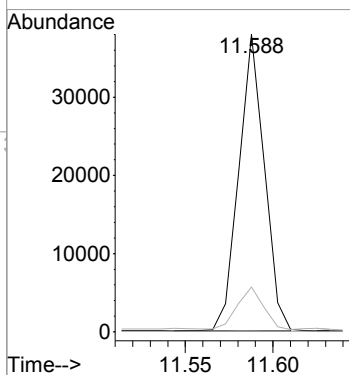
Tgt Ion:105 Resp: 37096
Ion Ratio Lower Upper
105 100
120 41.5 43.5 65.3#
77 16.0 20.2 30.4#





#124
 sec-Butylbenzene(sim)
 Concen: 0.69 ppbv
 RT: 11.588 min Scan# 1163
 Delta R.T. 0.001 min
 Lab File: 0222_21.D
 Acq: 23 Feb 2016 12:54 am

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.2	0.0	35.9
77	14.6	0.0	34.1



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67655 150X
Canister:	216	Lab File ID:	0223_46.D
Instrument:	CHEM24	Column:	zb-1ms
Purge Volume	200	Date Received:	02/19/16
	(cc)	Date Analyzed:	02/24/16
Matrix:	AIR	Dilution Factor:	150

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_46.D
 Acq On : 24 Feb 2016 10:50 am
 Operator : Keith
 Client ID : SS-6 DIL
 Lab ID : BK67655 150X
 ALS Vial : 34 Sample Multiplier: 1

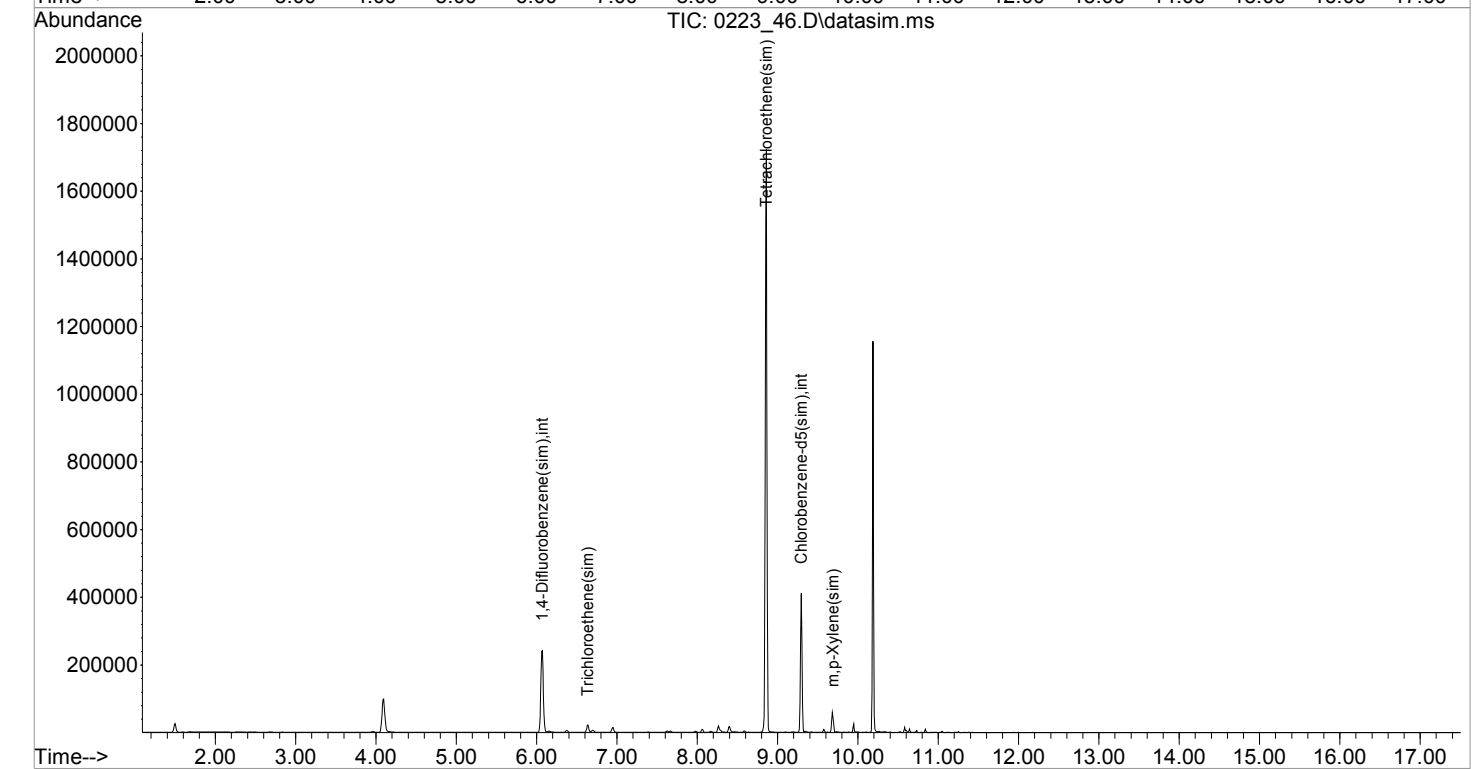
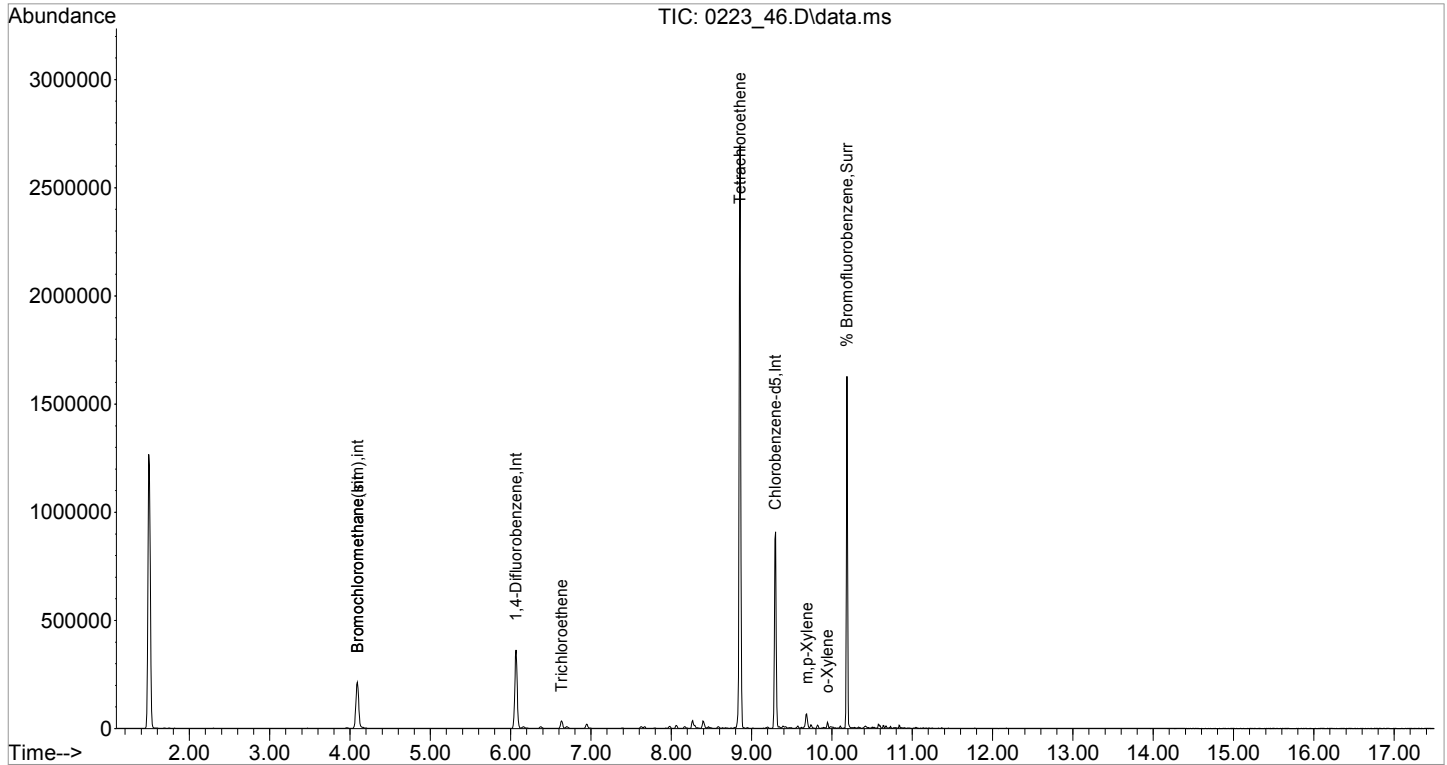
Quant Time: Feb 24 11:35:15 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

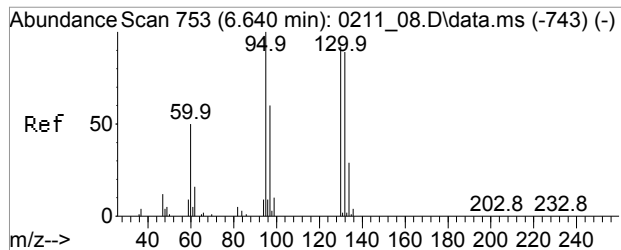
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.091	130	104215	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.067	114	350023	10.000	ng	0.01
53) Chlorobenzene-d5	9.290	82	216371	10.000	ng	0.00
80) Bromochloromethane(sim)	4.091	130	104215	10.000	ng	0.01
93) 1,4-Difluorobenzene(sim)	6.070	114	393554	10.000	ng	# 0.01
103) Chlorobenzene-d5(sim)	9.293	82	250676	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	293872	10.236	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
						Qvalue
39) Trichloroethene	6.633	130	10674	0.730	ppbv	98
52) Tetrachloroethene	8.855	166	635326	19.716	ppbv	92
57) m,p-Xylene	9.685	91	33747	0.754	ppbv	90
61) o-Xylene	9.942	91	10407	0.231	ppbv	93
96] Trichloroethene(sim)	6.633	130	10674	0.655	ppbv	99
102] Tetrachloroethene(sim)	8.855	166	635243	20.093	ppbv	92
106] m,p-Xylene(sim)	9.685	91	33747	0.681	ppbv#	90

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_46.D
Acq On : 24 Feb 2016 10:50 am
Operator : Keith
Client ID : SS-6 DIL
Lab ID : BK67655 150X
ALS Vial : 34 Sample Multiplier: 1

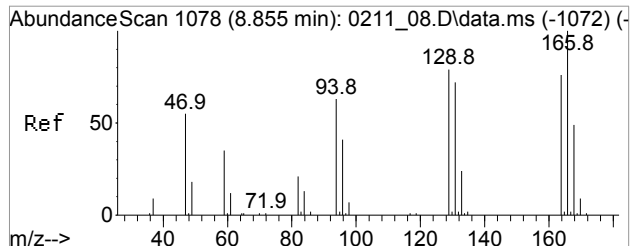
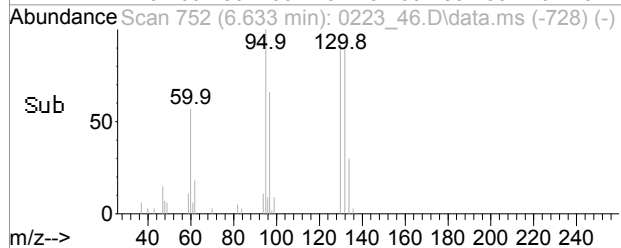
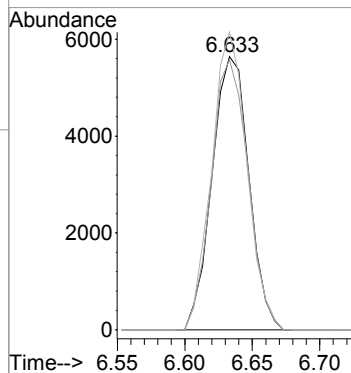
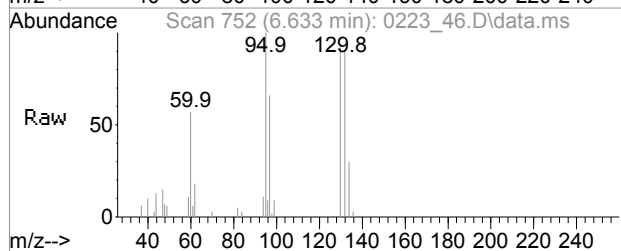
Quant Time: Feb 24 11:35:15 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration





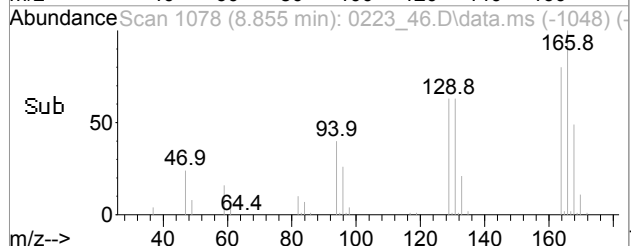
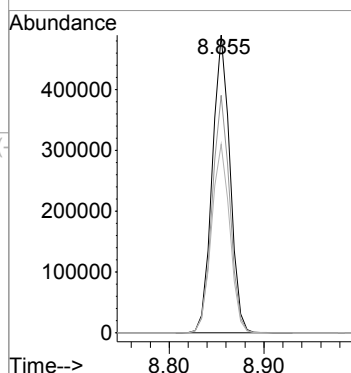
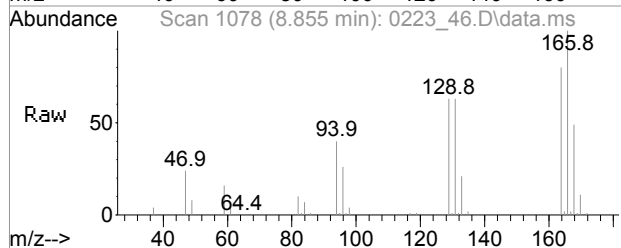
#39
Trichloroethene
Concen: 0.73 ppbv
RT: 6.633 min Scan# 752
Delta R.T. 0.013 min
Lab File: 0223_46.D
Acq: 24 Feb 2016 10:50 am

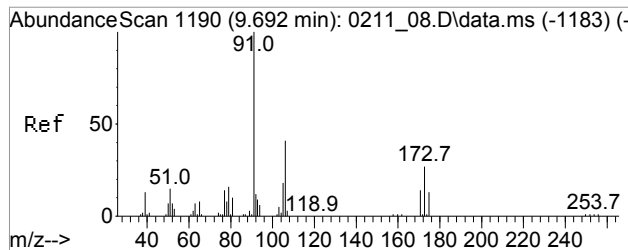
Tgt Ion:130 Resp: 10674
Ion Ratio Lower Upper
130 100
132 98.4 77.0 115.6
95 104.6 81.7 122.5



#52
Tetrachloroethene
Concen: 19.72 ppbv
RT: 8.855 min Scan# 1078
Delta R.T. 0.007 min
Lab File: 0223_46.D
Acq: 24 Feb 2016 10:50 am

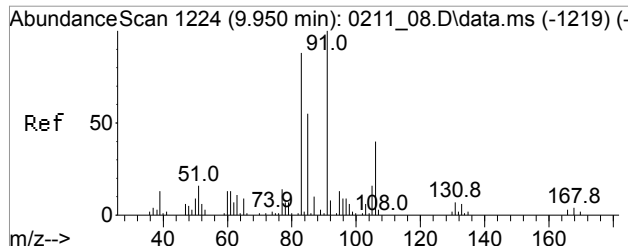
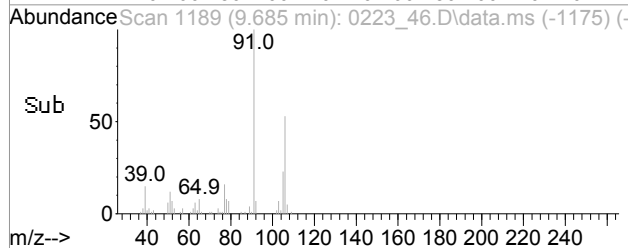
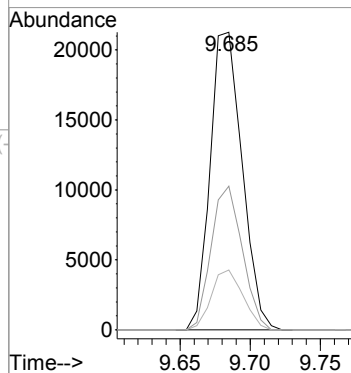
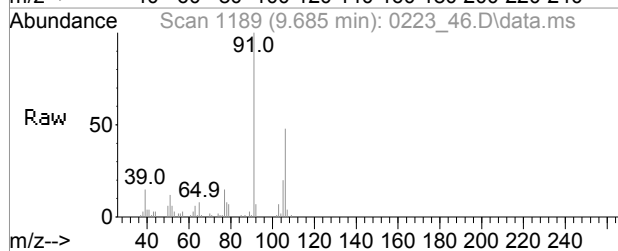
Tgt Ion:166 Resp: 635326
Ion Ratio Lower Upper
166 100
164 79.1 61.0 91.4
129 65.5 61.1 91.7





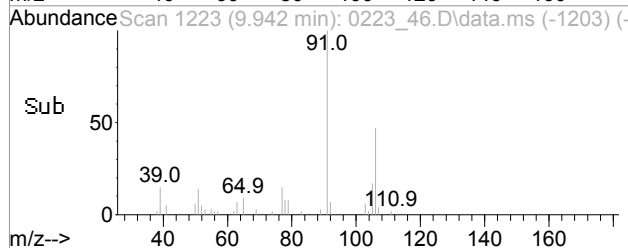
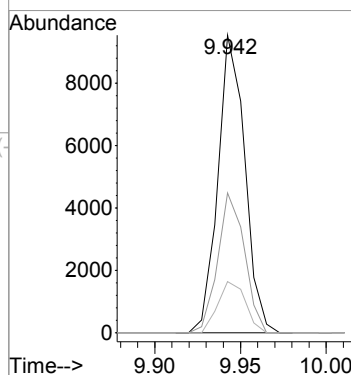
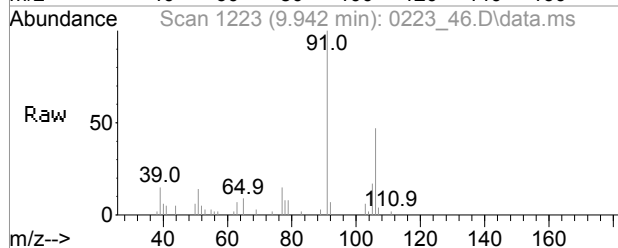
#57
m,p-Xylene
Concen: 0.75 ppbv
RT: 9.685 min Scan# 1189
Delta R.T. 0.008 min
Lab File: 0223_46.D
Acq: 24 Feb 2016 10:50 am

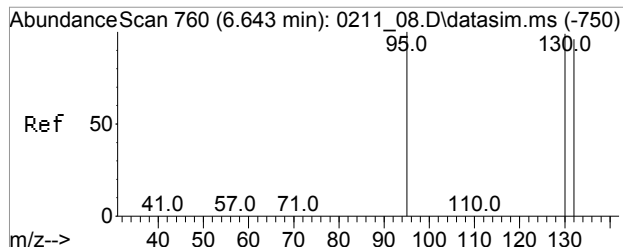
Tgt Ion: 91	Resp: 33747
Ion Ratio	Lower Upper
91 100	
106 46.9	31.9 47.9
105 20.0	14.1 21.1



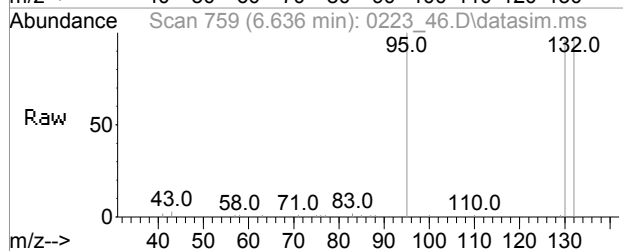
#61
o-Xylene
Concen: 0.23 ppbv
RT: 9.942 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 0223_46.D
Acq: 24 Feb 2016 10:50 am

Tgt Ion: 91	Resp: 10407
Ion Ratio	Lower Upper
91 100	
106 46.6	33.1 49.7
105 17.7	13.0 19.6

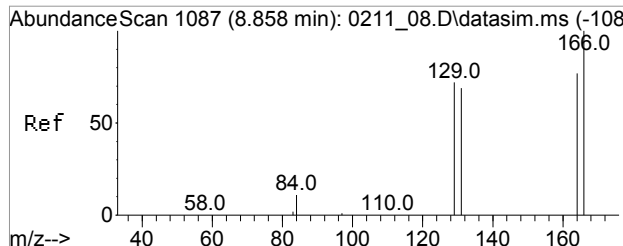
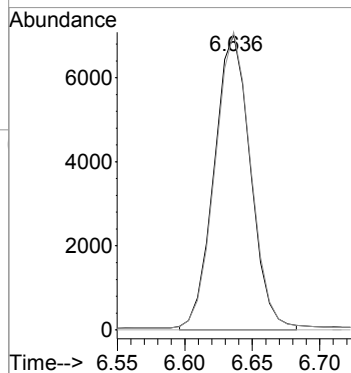
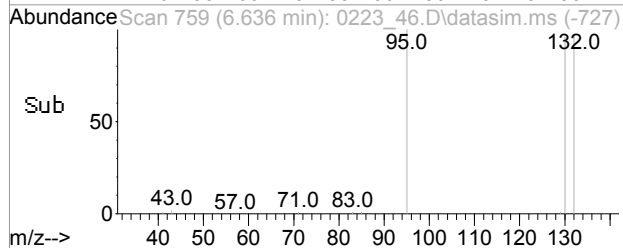




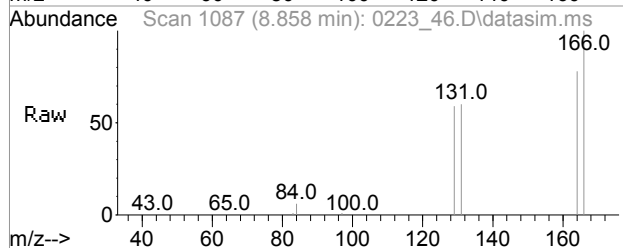
#96
Trichloroethene(sim)
Concen: 0.66 ppbv
RT: 6.633 min Scan# 759
Delta R.T. 0.013 min
Lab File: 0223_46.D
Acq: 24 Feb 2016 10:50 am



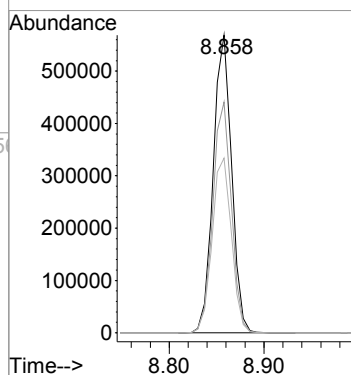
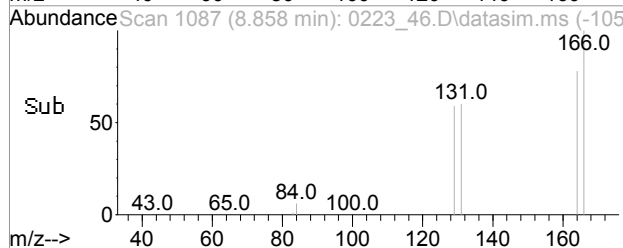
Tgt Ion:130 Resp: 10674
Ion Ratio Lower Upper
130 100
132 98.4 77.0 115.6
97 66.3 53.2 79.8

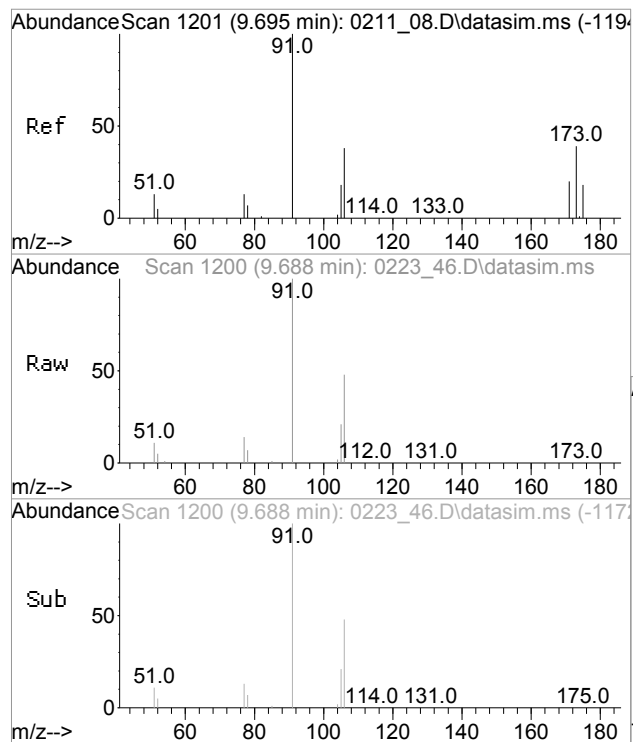


#102
Tetrachloroethene(sim)
Concen: 20.09 ppbv
RT: 8.855 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 0223_46.D
Acq: 24 Feb 2016 10:50 am



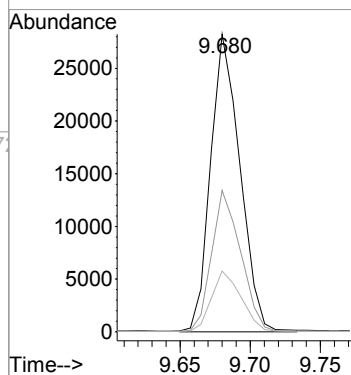
Tgt Ion:166 Resp: 635243
Ion Ratio Lower Upper
166 100
164 79.1 56.3 96.3
129 65.5 56.4 96.4





#106
 m,p-Xylene(sim)
 Concen: 0.68 ppbv
 RT: 9.685 min Scan# 1200
 Delta R.T. 0.008 min
 Lab File: 0223_46.D
 Acq: 24 Feb 2016 10:50 am

Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.9	35.9	43.9#
105	20.0	14.1	21.1



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67656</u>
Canister:	<u>9767</u>	Lab File ID:	<u>0222_09.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.529		0.202	0.202	r
74-87-3	Chloromethane	0.729		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	30.6	S	0.531	0.531	r
67-64-1	Acetone	20.3	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.237		0.178	0.178	r
67-63-0	Isopropylalcohol	2.52	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.436		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.843		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	5.34		0.037	0.037	r
179601-23-1	m,p-Xylene	0.508		0.230	0.230	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.087		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67656</u>
Canister:	<u>9767</u>	Lab File ID:	<u>0222_09.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.112		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_09.D
 Acq On : 22 Feb 2016 12:30 pm
 Operator : CORTEX\ms
 Client ID : IA-6
 Lab ID : BK67656
 ALS Vial : 1 Sample Multiplier: 1

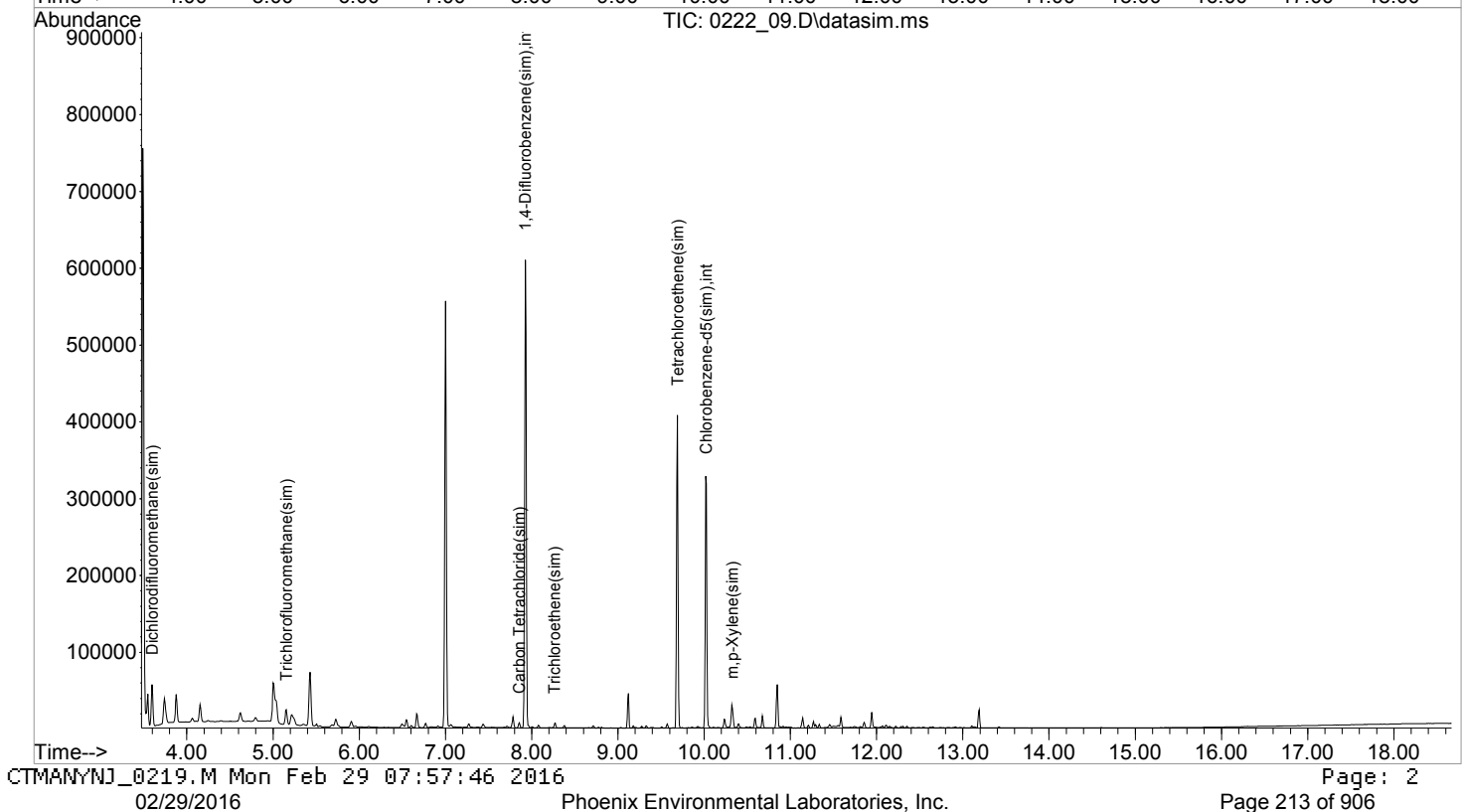
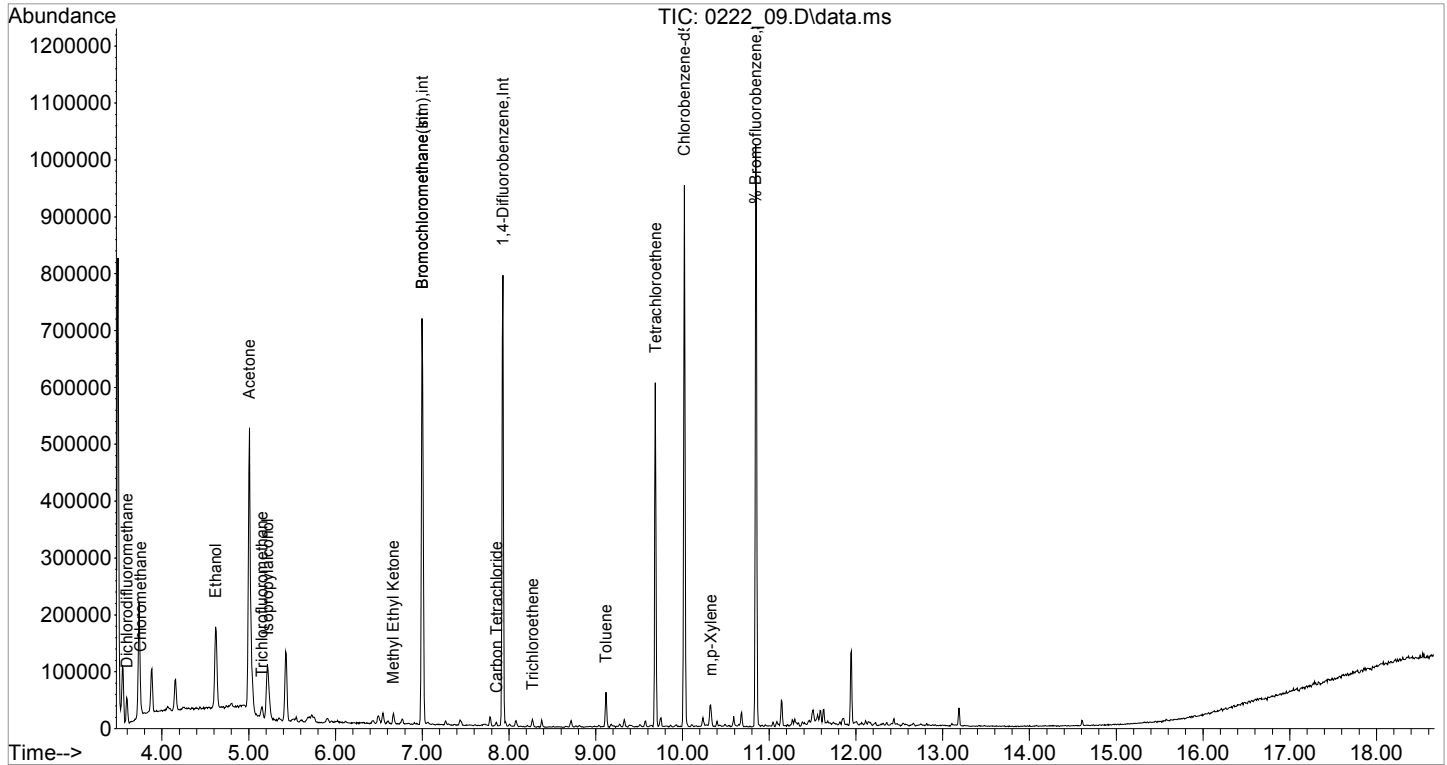
Quant Time: Feb 23 08:05:41 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

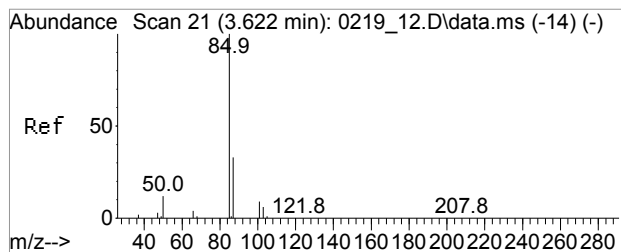
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.998	130	151478	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	402972	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	182123	10.000	ng	0.00
79) Bromochloromethane(sim)	6.998	130	151478	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	478233	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	195493	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	237109	9.859	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.60%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.594	85	34091	0.529	ppbv	98
4) Chloromethane	3.752	52	3813	0.729	ppbv	93
10) Ethanol	4.618	45	146801	30.581	ppbv	98
11) Acetone	5.007	43	547806	20.315	ppbv	96
12) Trichlorofluoromethane	5.151	101	13521	0.237	ppbv#	88
13) Isopropylalcohol	5.216	45	124095	2.517	ppbv	97
24) Methyl Ethyl Ketone	6.668	43	16066	0.436	ppbv	98
33) Carbon Tetrachloride	7.854	117	2700	0.089	ppbv	96
38) Trichloroethene	8.270	130	1182	0.084	ppbv	86
47) Toluene	9.117	91	25557	0.843	ppbv	98
51) Tetrachloroethene	9.688	166	108516	5.343	ppbv	97
56) m,p-Xylene	10.325	91	16951	0.508	ppbv	98
80] Dichlorodifluoromethane...	3.597	85	42388	0.530	ppbv	99
84] Trichlorofluoromethane...	5.154	101	18740	0.258	ppbv	99
87] Carbon Tetrachloride(sim)	7.854	117	2700	0.087	ppbv	96
99] Trichloroethene(sim)	8.265	130	1833m	0.112	ppbv	
105] Tetrachloroethene(sim)	9.688	166	108516	5.396	ppbv	97
111] m,p-Xylene(sim)	10.325	91	16951	0.443	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_09.D
Acq On : 22 Feb 2016 12:30 pm
Operator : CORTEX\jms
Client ID : IA-6
Lab ID : BK67656
ALS Vial : 1 Sample Multiplier: 1

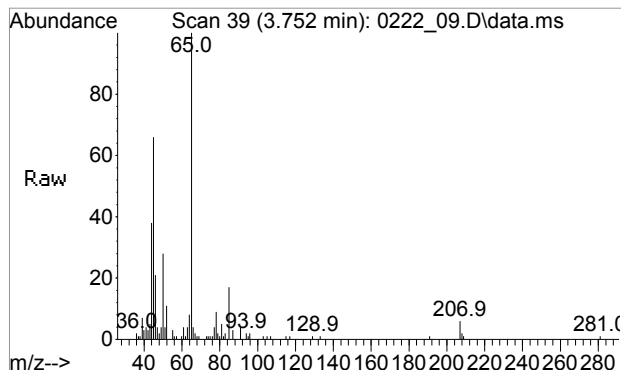
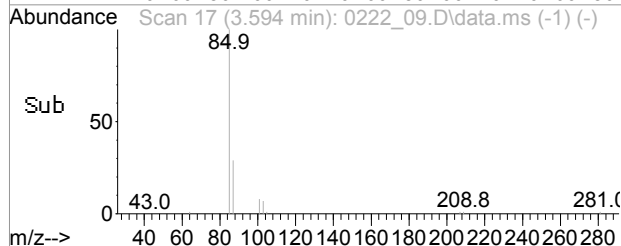
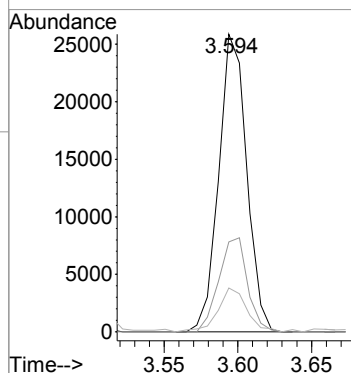
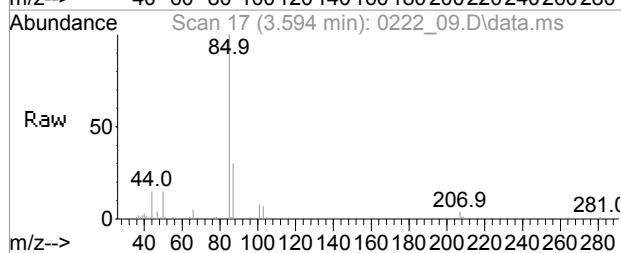
Quant Time: Feb 23 08:05:41 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





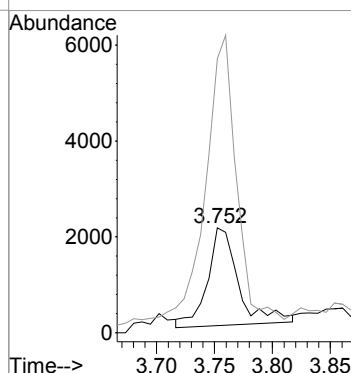
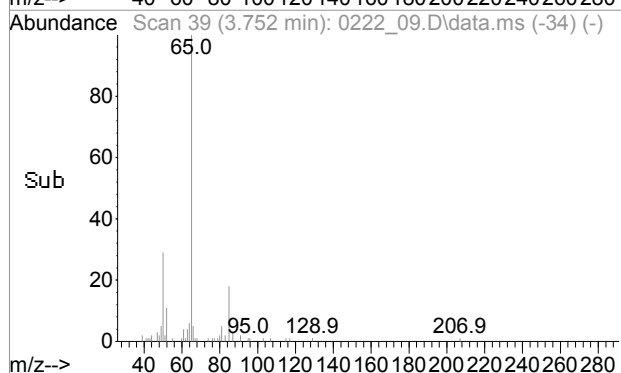
#3
Dichlorodifluoromethane
Concen: 0.53 ppbv
RT: 3.594 min Scan# 17
Delta R.T. -0.036 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

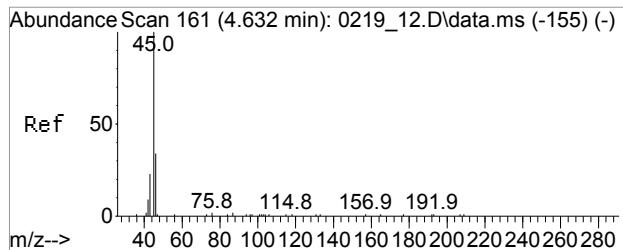
Tgt Ion: 85 Resp: 34091
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1
50 15.2 10.5 15.7



#4
Chloromethane
Concen: 0.73 ppbv
RT: 3.752 min Scan# 39
Delta R.T. -0.036 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

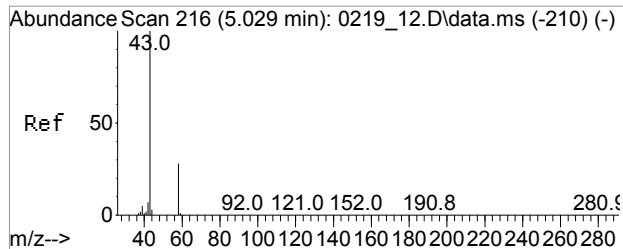
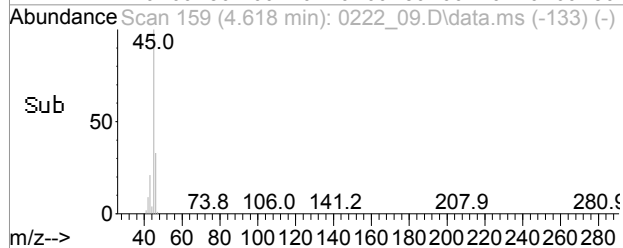
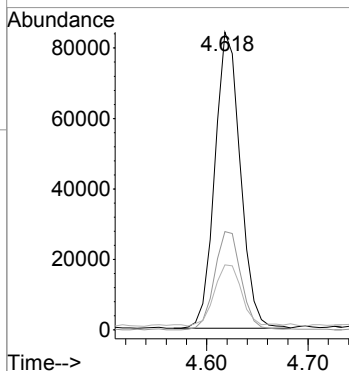
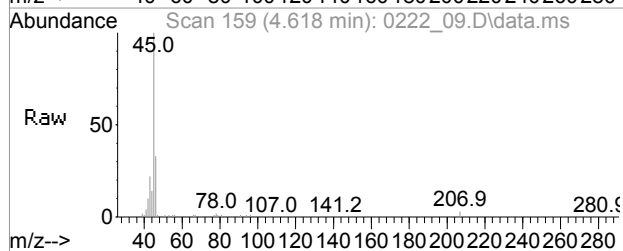
Tgt Ion: 52 Resp: 3813
Ion Ratio Lower Upper
52 100
50 319.0 284.4 324.4





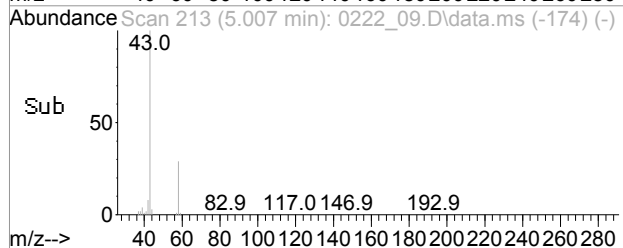
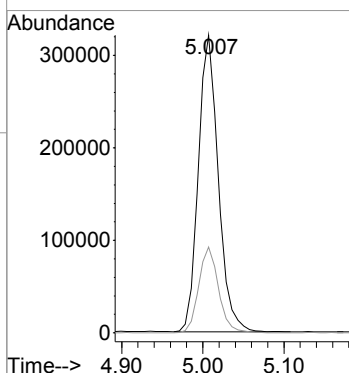
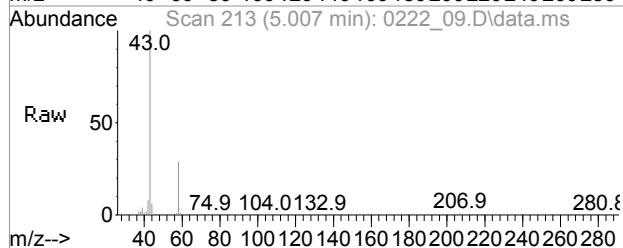
#10
Ethanol
Concen: 30.58 ppbv
RT: 4.618 min Scan# 159
Delta R.T. -0.014 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

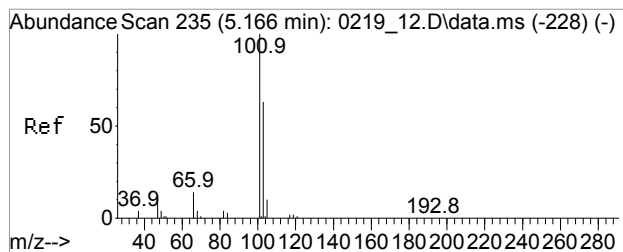
Tgt Ion: 45 Resp: 146801
Ion Ratio Lower Upper
45 100
46 34.8 28.5 42.7
43 22.8 19.7 29.5



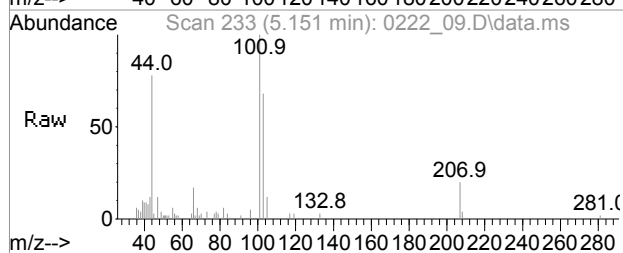
#11
Acetone
Concen: 20.32 ppbv
RT: 5.007 min Scan# 213
Delta R.T. -0.022 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

Tgt Ion: 43 Resp: 547806
Ion Ratio Lower Upper
43 100
58 28.7 24.8 37.2

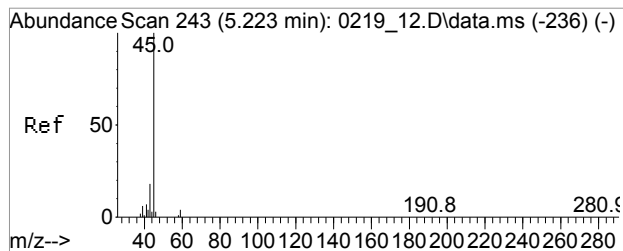
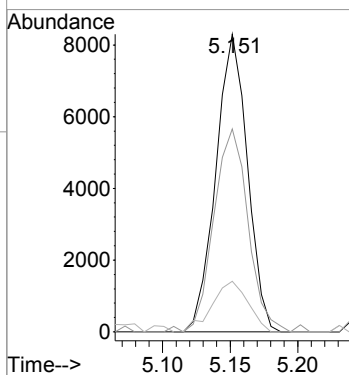
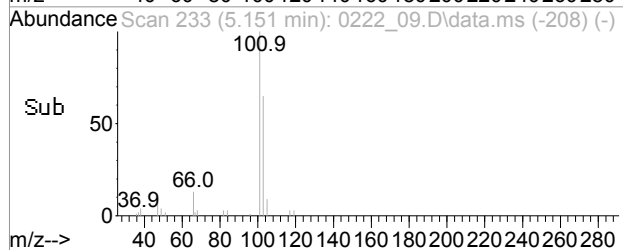




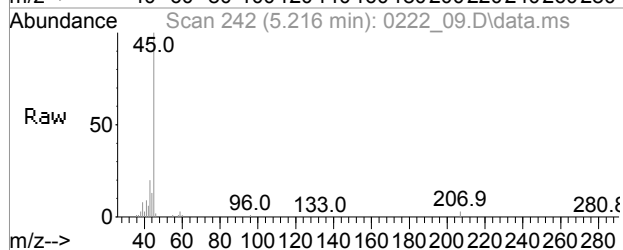
#12
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 5.151 min Scan# 233
Delta R.T. -0.022 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm



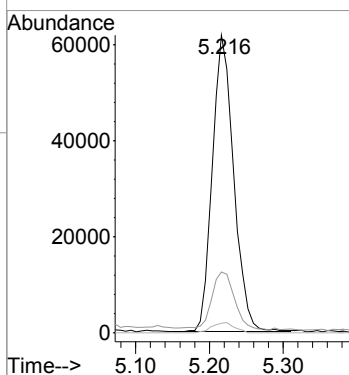
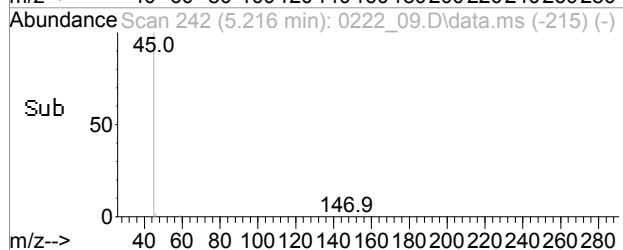
Tgt Ion: 101 Resp: 13521
Ion Ratio Lower Upper
101 100
103 74.0 51.8 77.8
66 19.3 11.1 16.7#

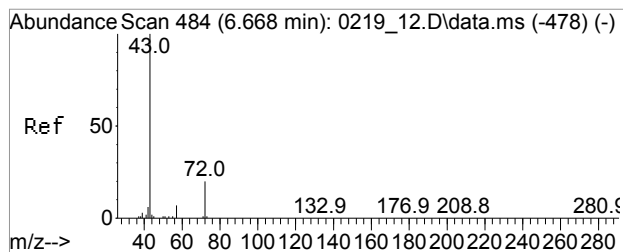


#13
Isopropylalcohol
Concen: 2.52 ppbv
RT: 5.216 min Scan# 242
Delta R.T. -0.007 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm



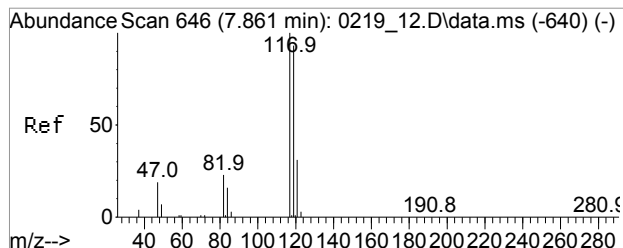
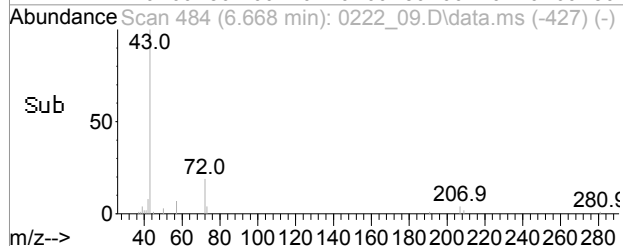
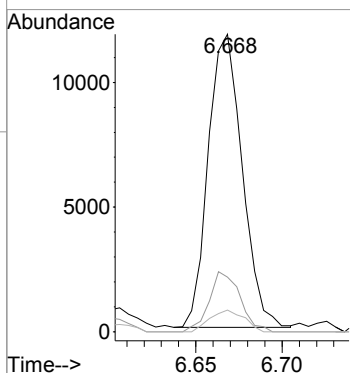
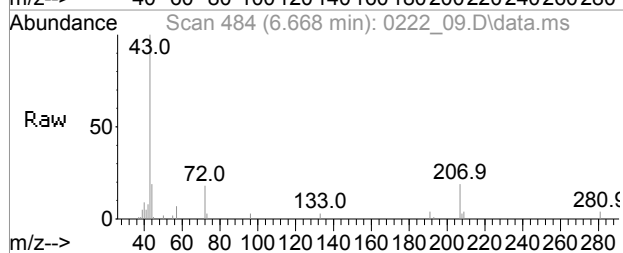
Tgt Ion: 45 Resp: 124095
Ion Ratio Lower Upper
45 100
43 21.0 15.4 23.0
59 3.6 3.0 4.4





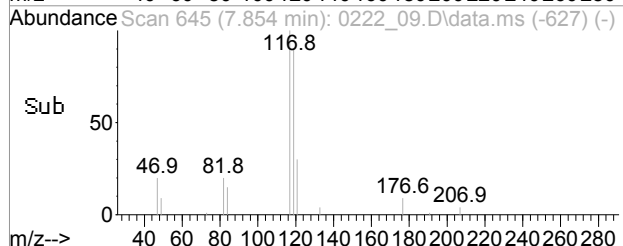
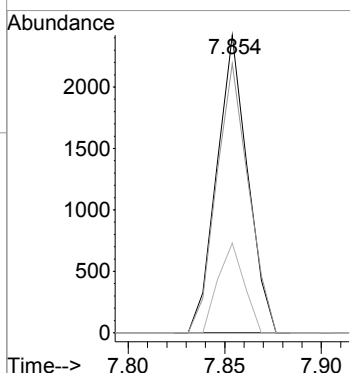
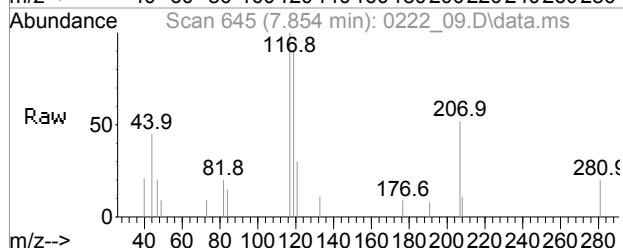
#24
Methyl Ethyl Ketone
Concen: 0.44 ppbv
RT: 6.668 min Scan# 484
Delta R.T. -0.005 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

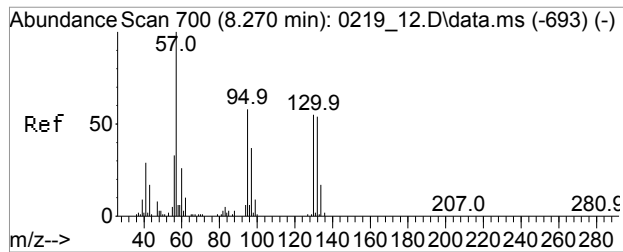
Tgt Ion: 43 Resp: 16066
Ion Ratio Lower Upper
43 100
72 18.7 15.9 23.9
57 7.5 5.6 8.4



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

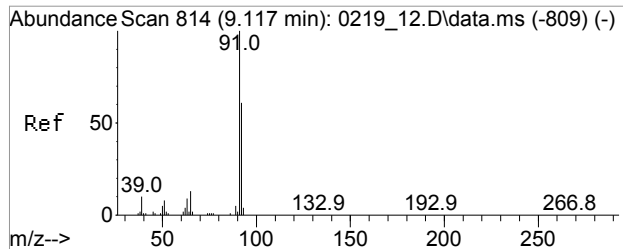
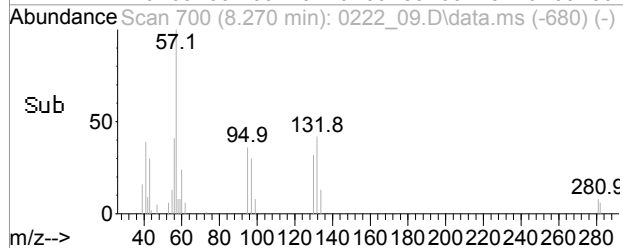
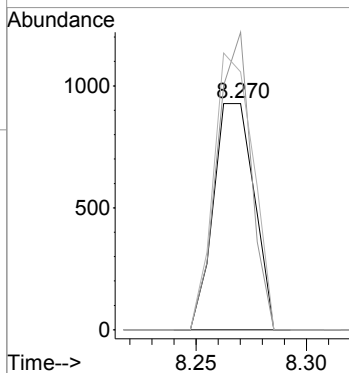
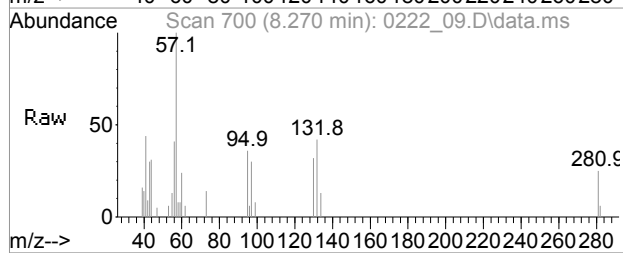
Tgt Ion: 117 Resp: 2700
Ion Ratio Lower Upper
117 100
119 93.7 75.9 115.9
121 25.3 10.8 50.8





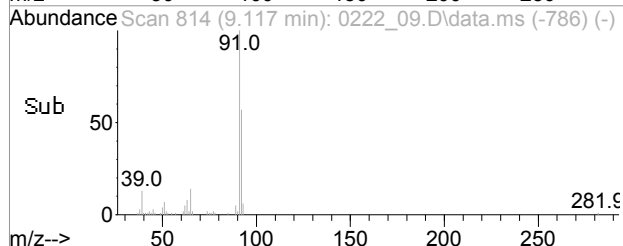
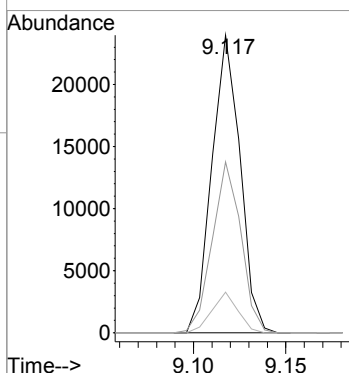
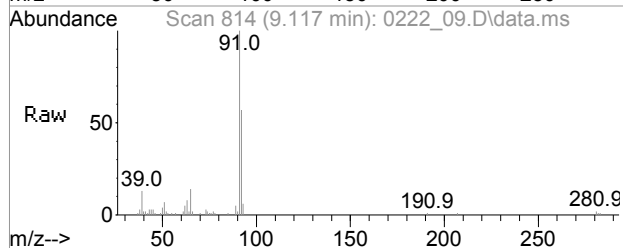
#38
Trichloroethene
Concen: Below Cal
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

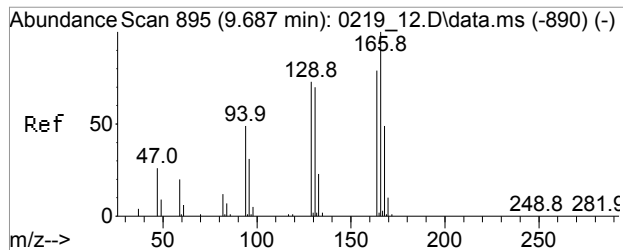
Tgt Ion	Ratio	Lower	Upper
130	100		
132	109.8	77.2	115.8
95	119.0	82.7	124.1



#47
Toluene
Concen: 0.84 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

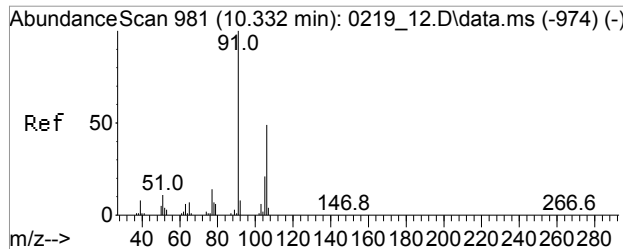
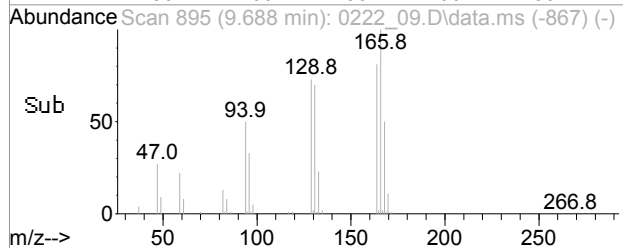
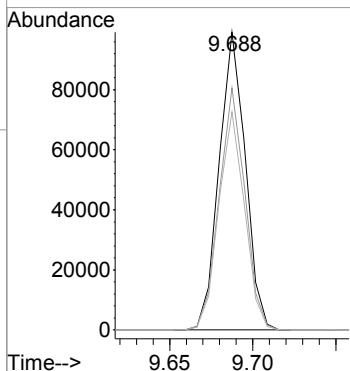
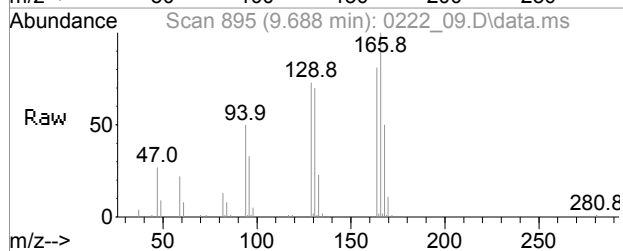
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.7	71.5
65	12.6	9.5	14.3





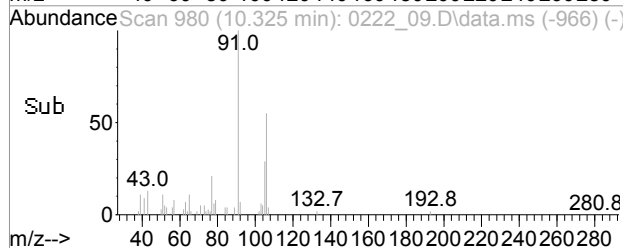
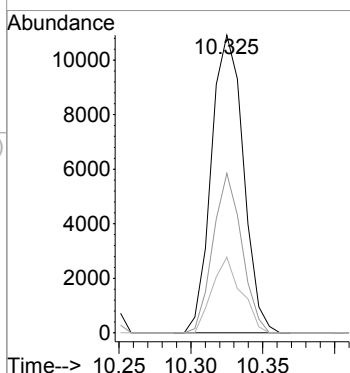
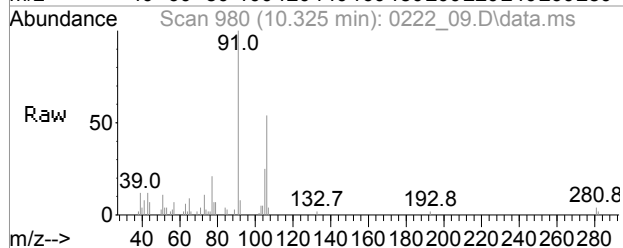
#51
Tetrachloroethene
Concen: 5.34 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

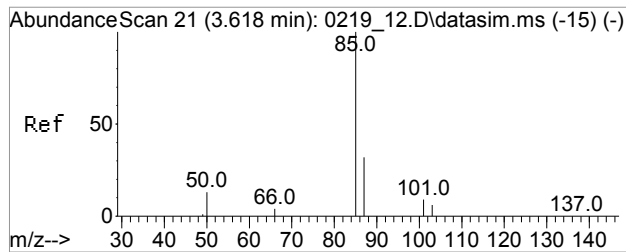
Tgt Ion	Ratio	Lower	Upper
166	100		
164	80.4	62.2	93.4
129	72.4	56.6	84.8



#56
m,p-Xylene
Concen: 0.51 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

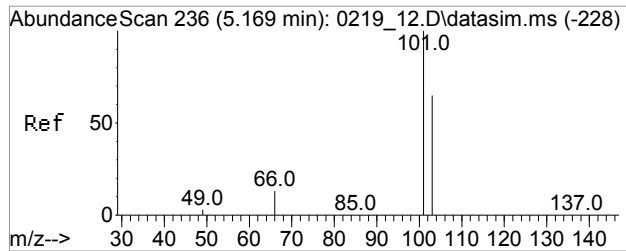
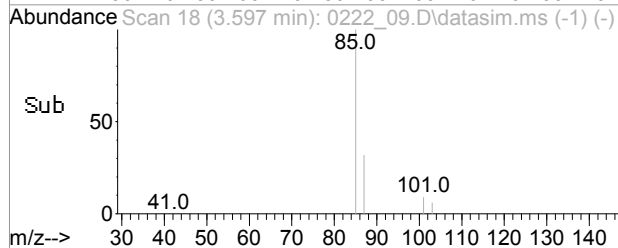
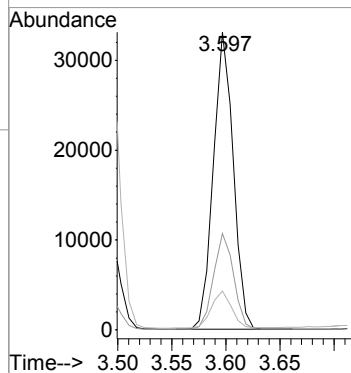
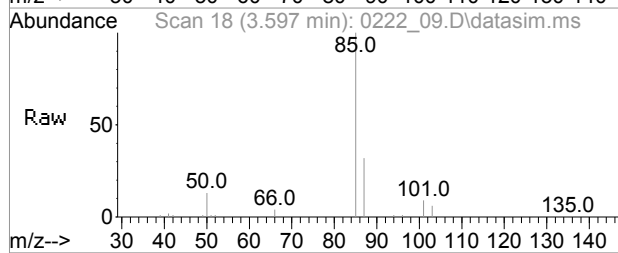
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.0	38.7	58.1
105	23.1	16.6	25.0





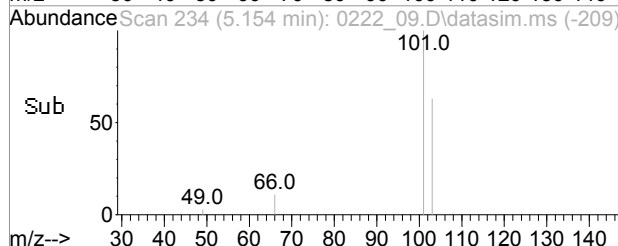
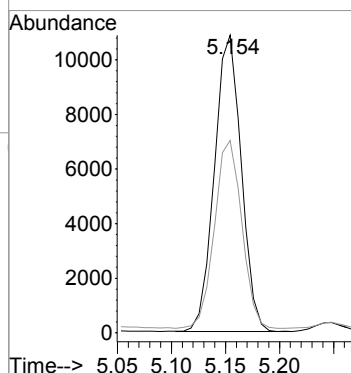
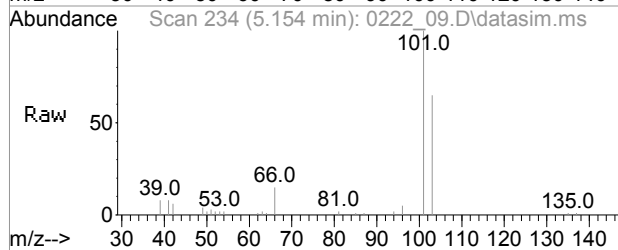
#80
Dichlorodifluoromethane(sim)
Concen: 0.53 ppbv
RT: 3.597 min Scan# 18
Delta R.T. -0.028 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

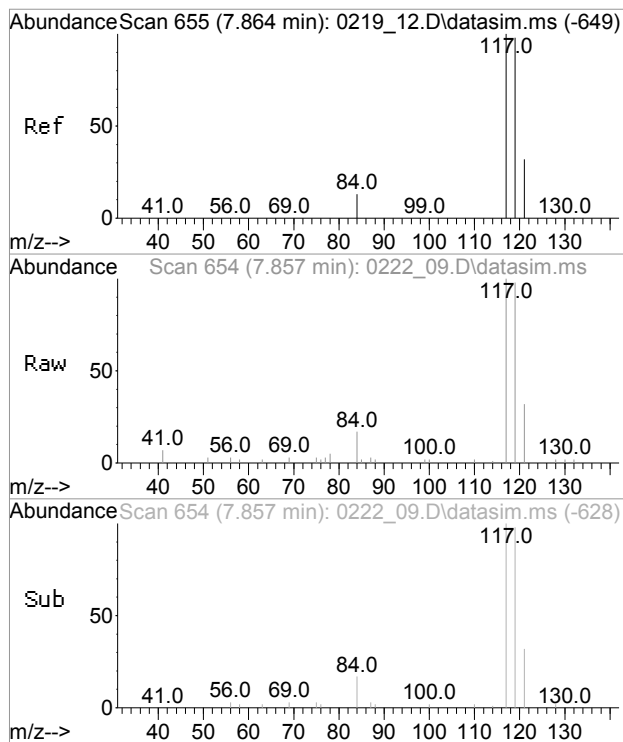
Tgt Ion: 85 Resp: 42388
Ion Ratio Lower Upper
85 100
87 32.6 12.7 52.7
50 12.8 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.26 ppbv
RT: 5.154 min Scan# 234
Delta R.T. -0.022 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

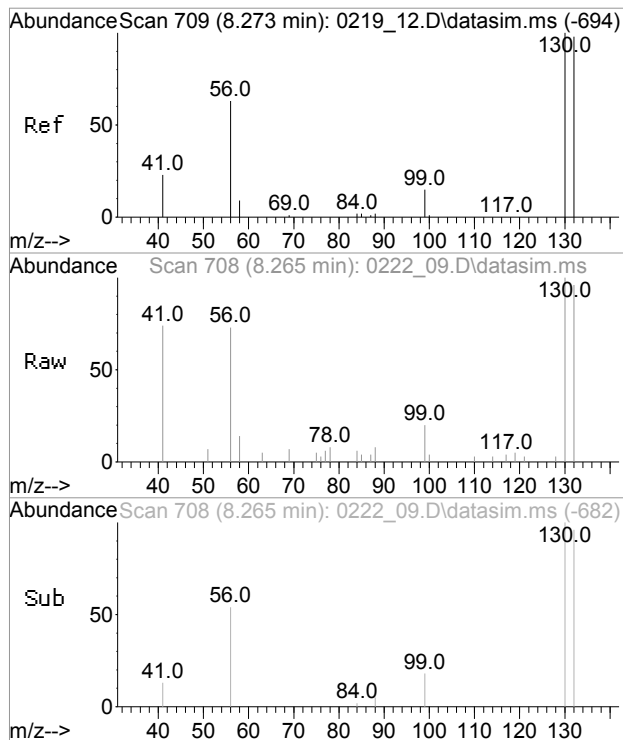
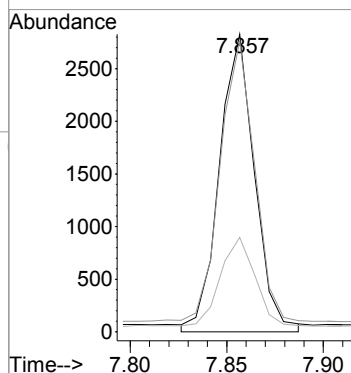
Tgt Ion:101 Resp: 18740
Ion Ratio Lower Upper
101 100
103 64.5 52.0 78.0





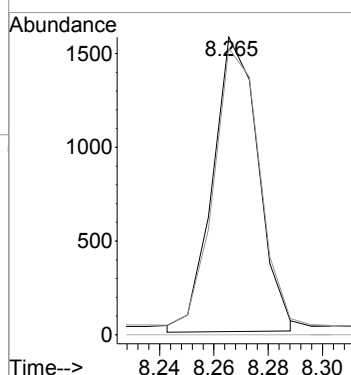
#87
Carbon Tetrachloride(sim)
Concen: 0.09 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

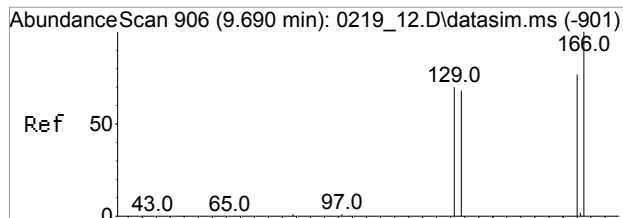
Tgt Ion:117 Resp: 2700
Ion Ratio Lower Upper
117 100
119 93.7 76.7 115.1
121 25.3 24.6 37.0



#99
Trichloroethene(sim)
Concen: 0.11 ppbv m
RT: 8.265 min Scan# 708
Delta R.T. -0.005 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

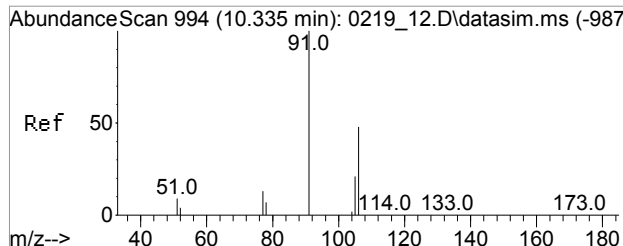
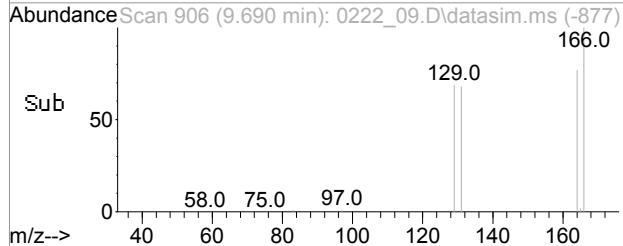
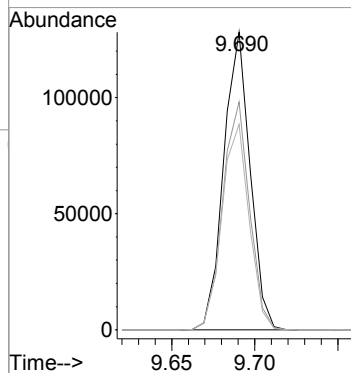
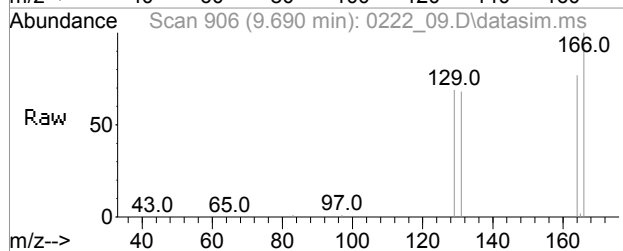
Tgt Ion:130 Resp: 1833
Ion Ratio Lower Upper
130 100
132 70.8 77.2 115.8#
97 52.3 53.5 80.3#





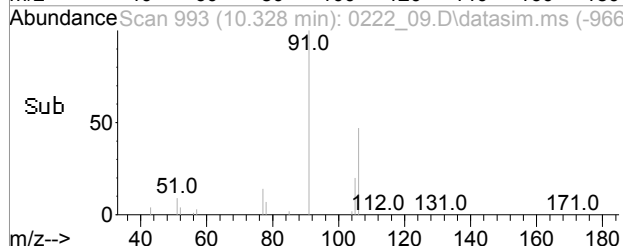
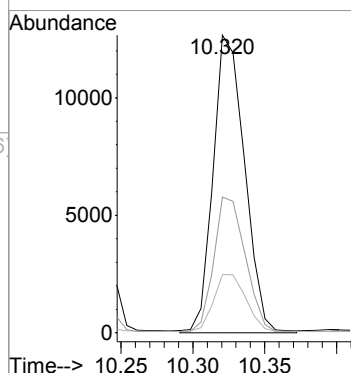
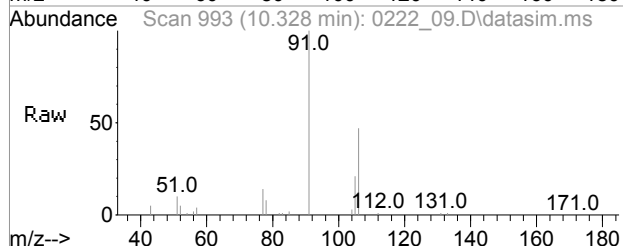
#105
Tetrachloroethene(sim)
Concen: 5.40 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

Tgt Ion:166 Resp: 108516
Ion Ratio Lower Upper
166 100
164 80.4 57.8 97.8
129 72.4 50.7 90.7



#111
m,p-Xylene(sim)
Concen: 0.44 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_09.D
Acq: 22 Feb 2016 12:30 pm

Tgt Ion: 91 Resp: 16951
Ion Ratio Lower Upper
91 100
106 48.0 43.6 53.2
105 23.1 16.6 25.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67657</u>
Canister:	<u>457</u>	Lab File ID:	<u>0222_10.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.548		0.202	0.202	r
74-87-3	Chloromethane	1.05		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	12.3	S	0.531	0.531	r
67-64-1	Acetone	6.27	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.241		0.178	0.178	r
67-63-0	Isopropylalcohol	0.668	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.677	S	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.613		0.339	0.339	r
110-54-3	Hexane	0.577	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.293		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.490		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.353		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	2.61		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.268		0.037	0.037	r
100-41-4	Ethylbenzene	0.243		0.230	0.230	r
179601-23-1	m,p-Xylene	0.952		0.230	0.230	r
95-47-6	o-Xylene	0.297		0.230	0.230	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.090		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67657</u>
Canister:	<u>457</u>	Lab File ID:	<u>0222_10.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.188		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_10.D
 Acq On : 22 Feb 2016 01:10 pm
 Operator : CORTEX\ms
 Client ID : IA-5
 Lab ID : BK67657
 ALS Vial : 1 Sample Multiplier: 1

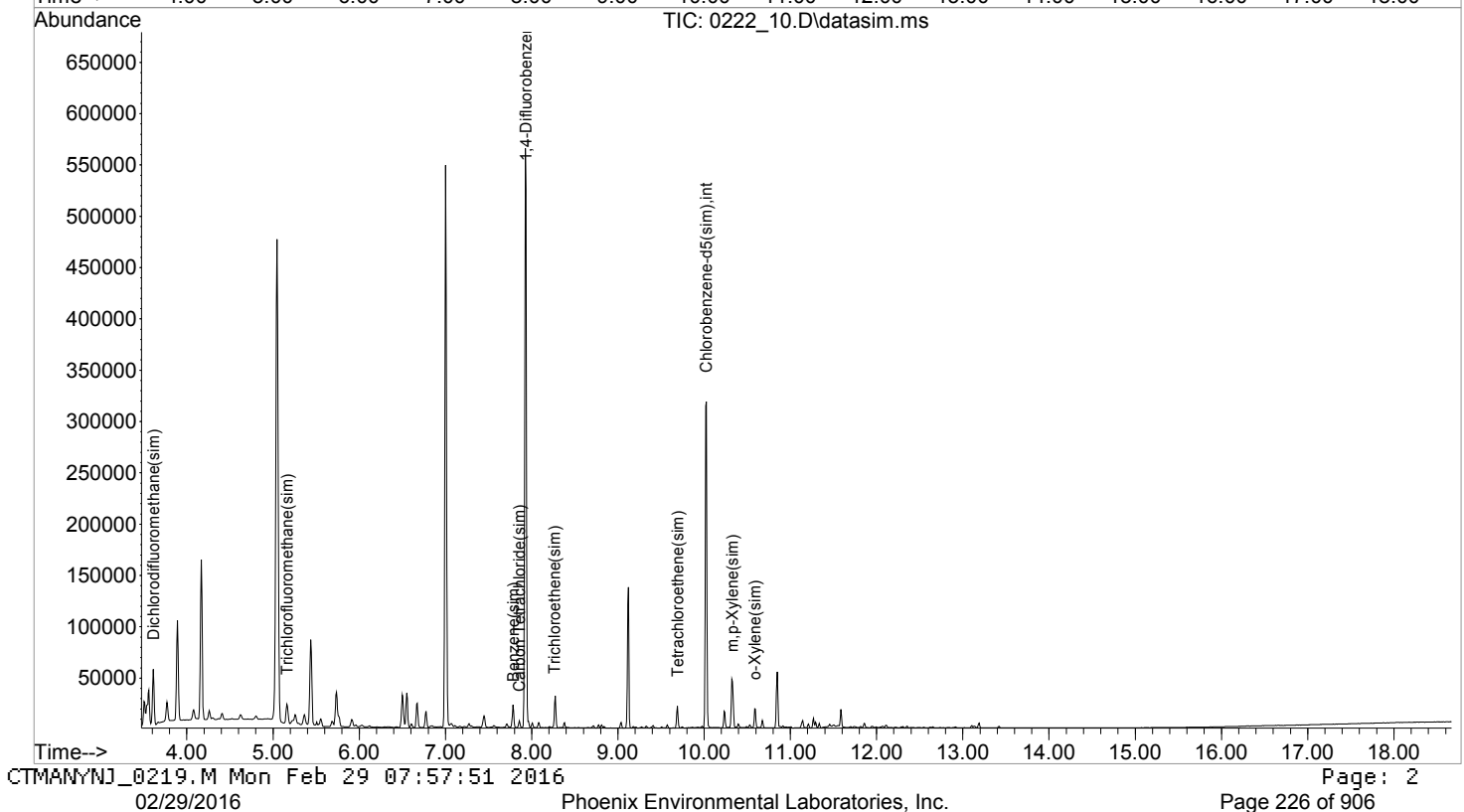
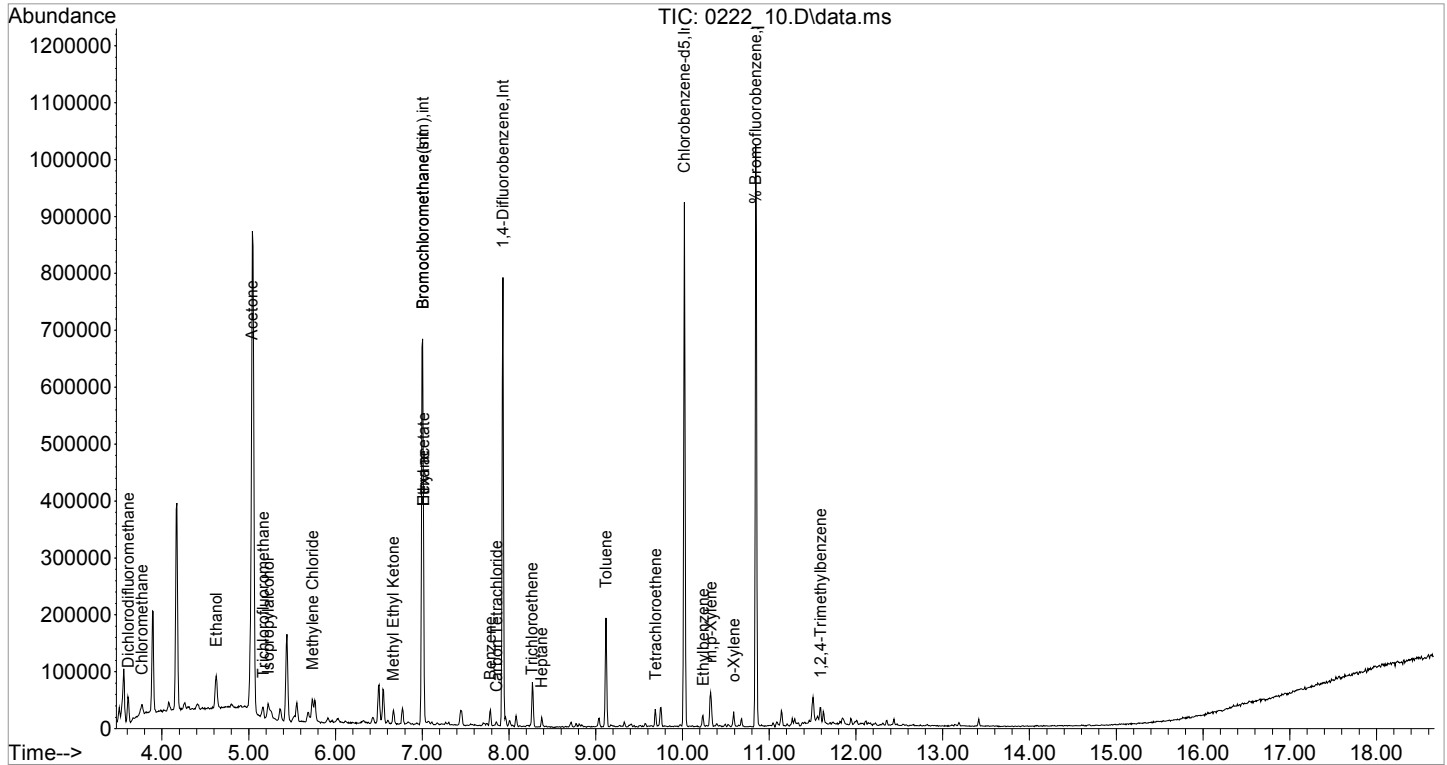
Quant Time: Feb 23 08:07:08 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

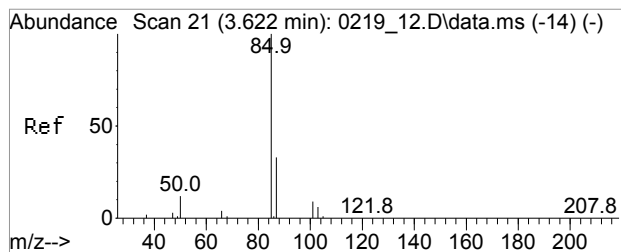
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	150087	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	383978	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	179133	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	150087	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	457585	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.025	82	189257	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	230426	9.741	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.40%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.608	85	35006	0.548	ppbv#	97
4) Chloromethane	3.767	52	5449	1.052	ppbv#	85
10) Ethanol	4.625	45	58648	12.330	ppbv	96
11) Acetone	5.036	43	167459m	6.268	ppbv	
12) Trichlorofluoromethane	5.166	101	13620	0.241	ppbv	93
13) Isopropylalcohol	5.224	45	32654	0.668	ppbv#	89
16) Methylene Chloride	5.732	49	21348	0.677	ppbv	95
24) Methyl Ethyl Ketone	6.669	43	22405	0.613	ppbv	99
26) Hexane	7.014	57	11071	0.577	ppbv	86
28) Ethyl acetate	7.014	43	14131	0.293	ppbv#	87
32) Benzene	7.786	78	15685	0.490	ppbv	100
33) Carbon Tetrachloride	7.854	117	2783	0.093	ppbv	99
38) Trichloroethene	8.263	130	2947	0.221	ppbv	93
42) Heptane	8.376	43	4402	0.353	ppbv	94
47) Toluene	9.118	91	75497	2.614	ppbv	98
51) Tetrachloroethene	9.688	166	5185	0.268	ppbv	90
55) Ethylbenzene	10.236	91	10662	0.243	ppbv	98
56) m, p-Xylene	10.325	91	31271	0.952	ppbv	99
60) o-Xylene	10.592	91	10521	0.297	ppbv	98
67) 1,2,4-Trimethylbenzene	11.592	105	7841	0.209	ppbv#	93
80] Dichlorodifluoromethan...	3.611	85	42602	0.537	ppbv	99
84] Trichlorofluoromethane...	5.162	101	17762	0.247	ppbv	100
87] Carbon Tetrachloride(sim)	7.854	117	2783	0.090	ppbv	95
95] Benzene(sim)	7.786	78	15685	0.442	ppbv	100
99] Trichloroethene(sim)	8.263	130	2947	0.188	ppbv	93
105] Tetrachloroethene(sim)	9.688	166	5185	0.269	ppbv	90
111] m, p-Xylene(sim)	10.325	91	31271	0.845	ppbv	99
114] o-Xylene(sim)	10.587	91	11189	0.270	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_10.D
Acq On : 22 Feb 2016 01:10 pm
Operator : CORTEX\jms
Client ID : IA-5
Lab ID : BK67657
ALS Vial : 1 Sample Multiplier: 1

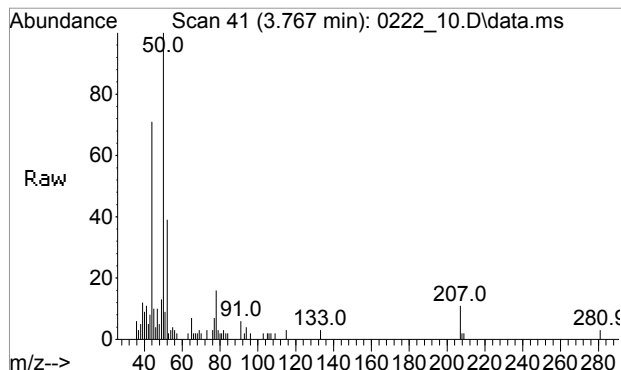
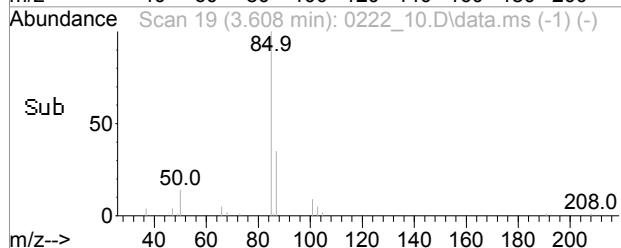
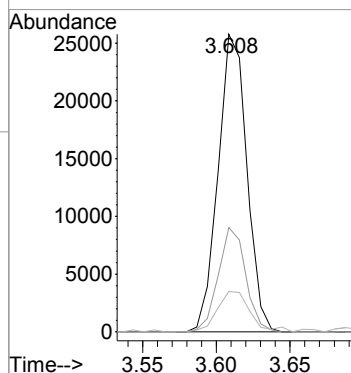
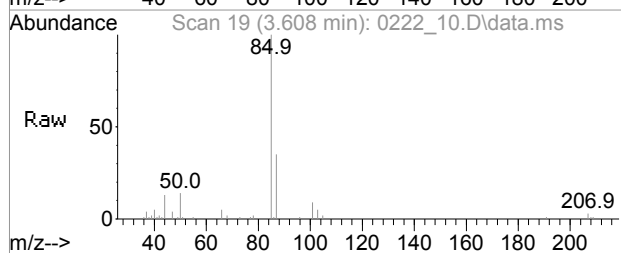
Quant Time: Feb 23 08:07:08 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





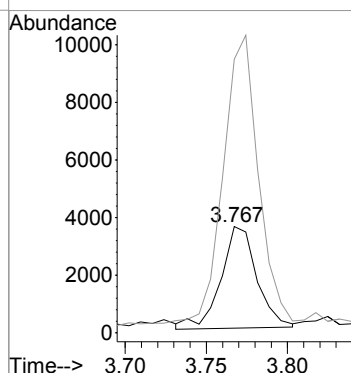
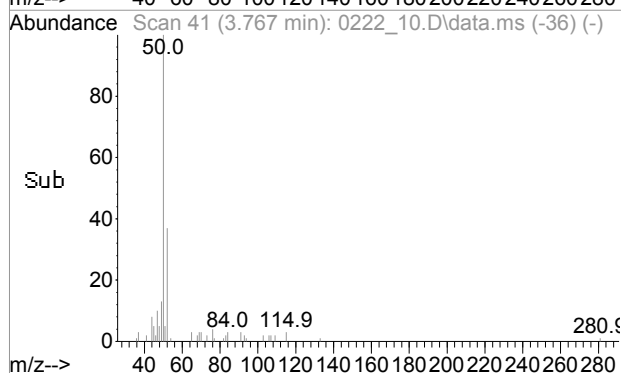
#3
Dichlorodifluoromethane
Concen: 0.55 ppbv
RT: 3.608 min Scan# 19
Delta R.T. -0.022 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

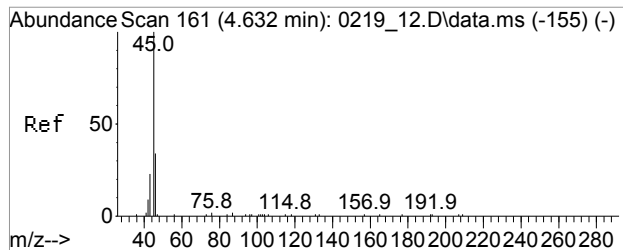
Tgt Ion: 85 Resp: 35006
Ion Ratio Lower Upper
85 100
87 33.5 26.1 39.1
50 16.0 10.5 15.7#



#4
Chloromethane
Concen: 1.05 ppbv
RT: 3.767 min Scan# 41
Delta R.T. -0.021 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

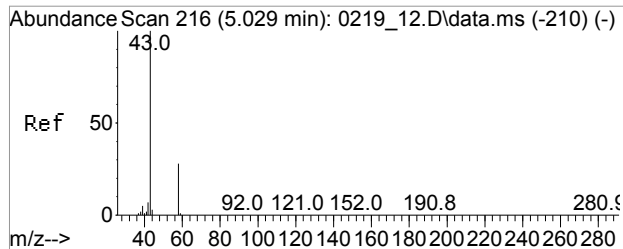
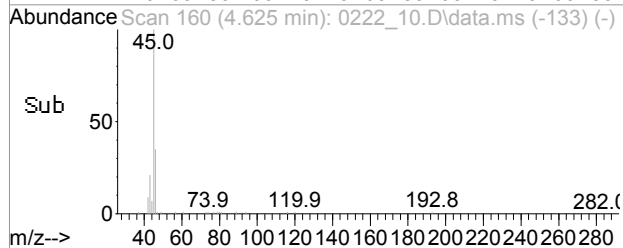
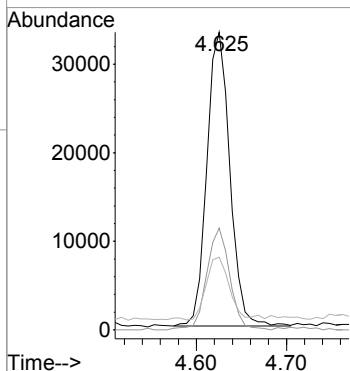
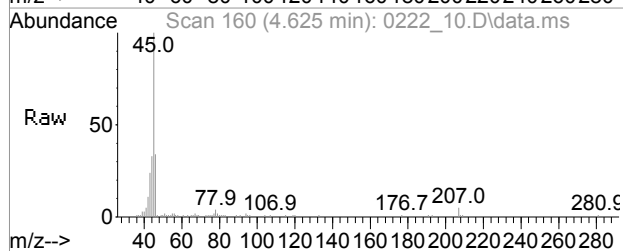
Tgt Ion: 52 Resp: 5449
Ion Ratio Lower Upper
52 100
50 274.3 284.4 324.4#





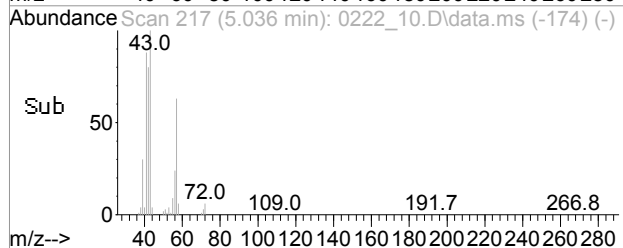
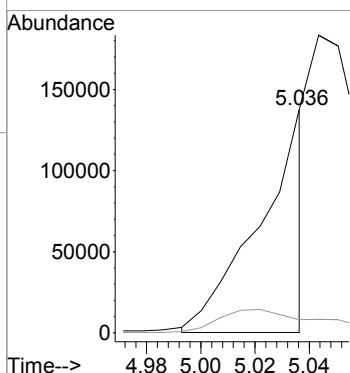
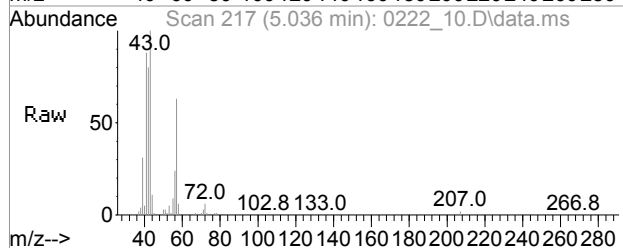
#10
Ethanol
Concen: 12.33 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

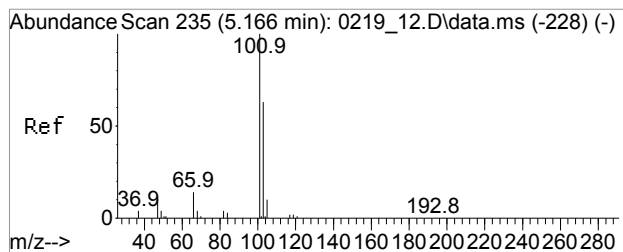
Tgt Ion: 45 Resp: 58648
Ion Ratio Lower Upper
45 100
46 34.7 28.5 42.7
43 21.2 19.7 29.5



#11
Acetone
Concen: 6.27 ppbv m
RT: 5.036 min Scan# 217
Delta R.T. 0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

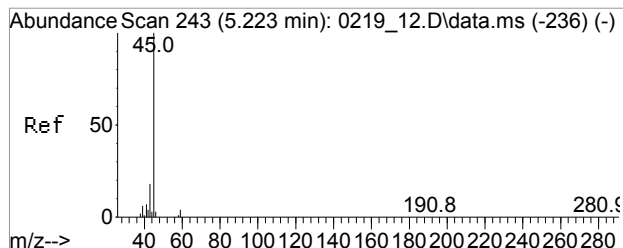
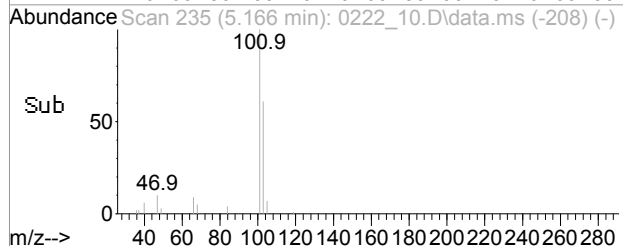
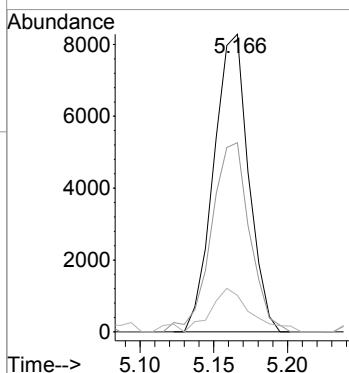
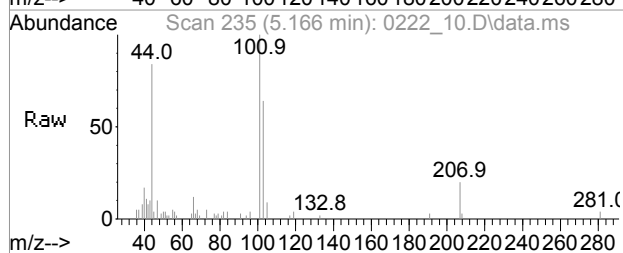
Tgt Ion: 43 Resp: 167459
Ion Ratio Lower Upper
43 100
58 22.6 24.8 37.2#





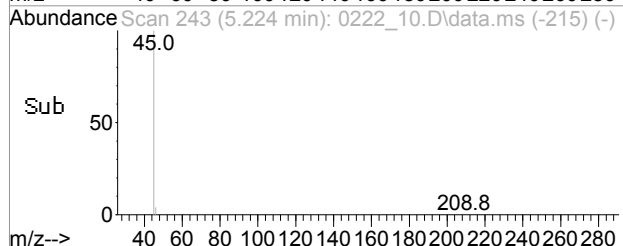
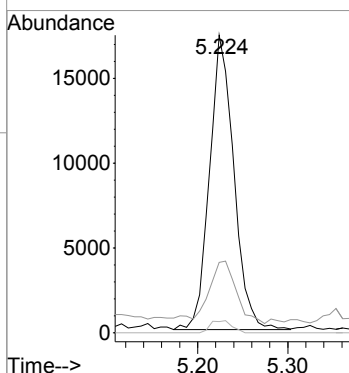
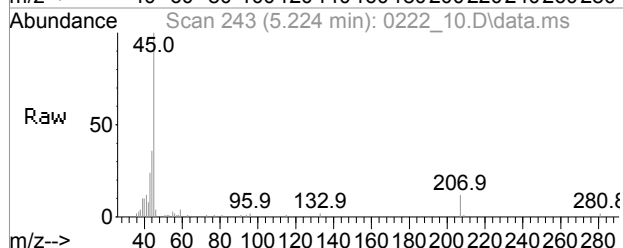
#12
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

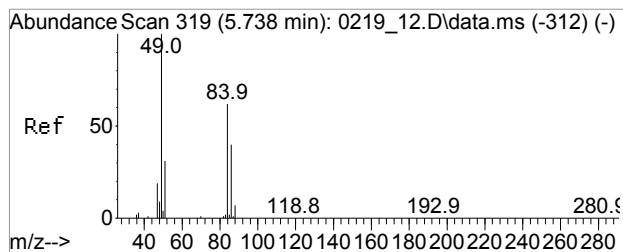
Tgt Ion: 101 Resp: 13620
Ion Ratio Lower Upper
101 100
103 70.0 51.8 77.8
66 16.6 11.1 16.7



#13
Isopropylalcohol
Concen: 0.67 ppbv
RT: 5.224 min Scan# 243
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

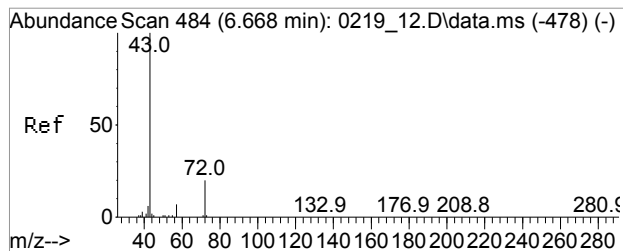
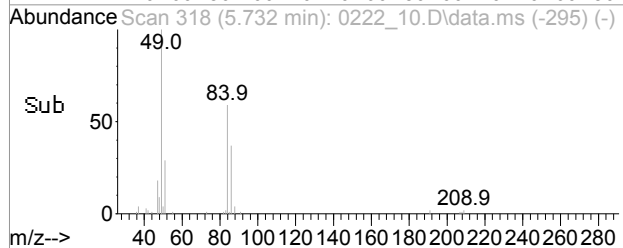
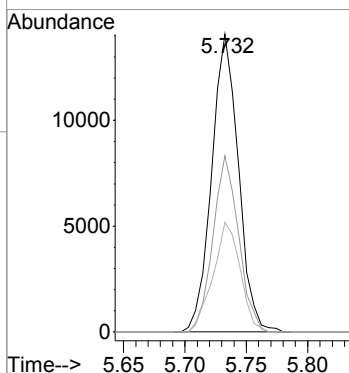
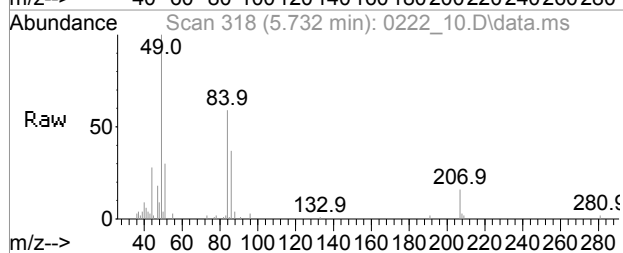
Tgt Ion: 45 Resp: 32654
Ion Ratio Lower Upper
45 100
43 24.9 15.4 23.0#
59 3.7 3.0 4.4





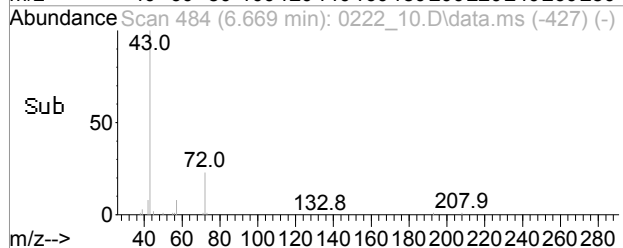
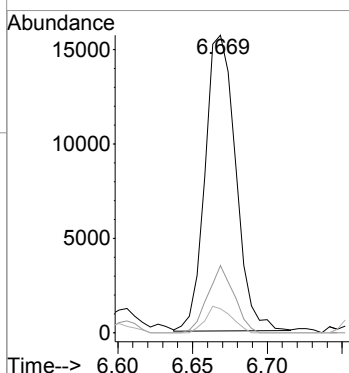
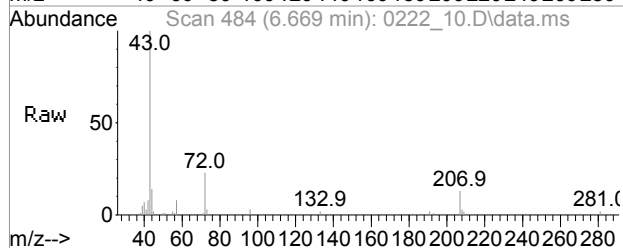
#16
Methylene Chloride
Concen: 0.68 ppbv
RT: 5.732 min Scan# 318
Delta R.T. -0.012 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

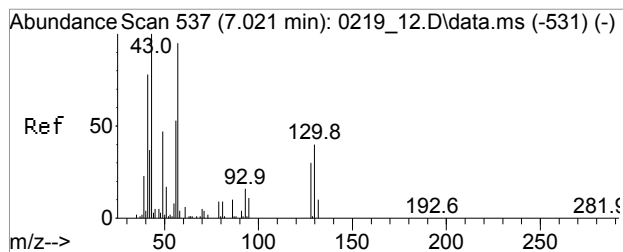
Tgt Ion: 49 Resp: 21348
Ion Ratio Lower Upper
49 100
84 56.6 49.2 73.8
86 37.2 31.5 47.3



#24
Methyl Ethyl Ketone
Concen: 0.61 ppbv
RT: 6.669 min Scan# 484
Delta R.T. -0.004 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

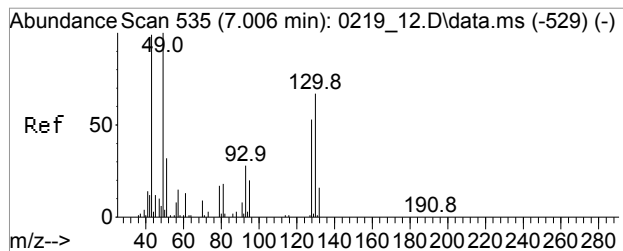
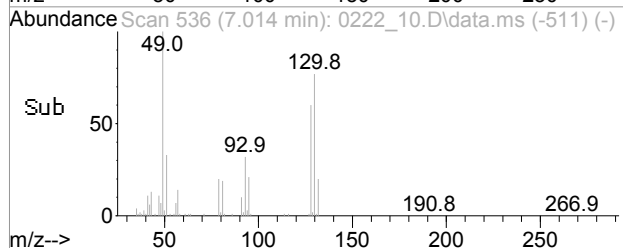
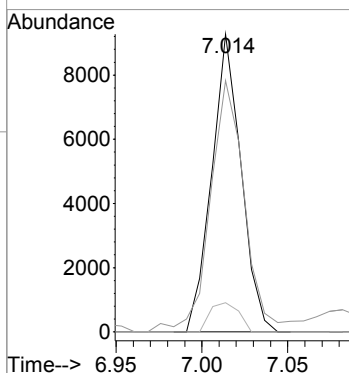
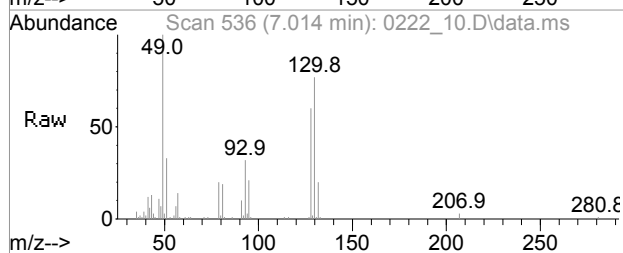
Tgt Ion: 43 Resp: 22405
Ion Ratio Lower Upper
43 100
72 19.6 15.9 23.9
57 7.6 5.6 8.4





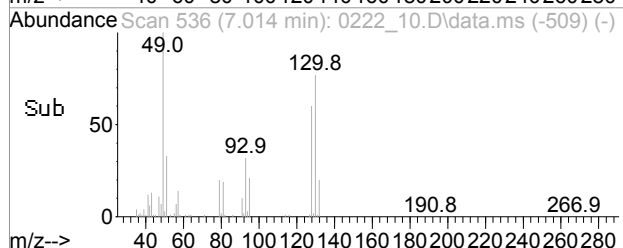
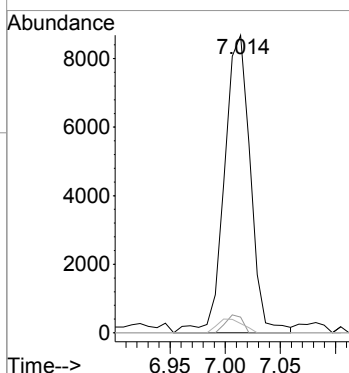
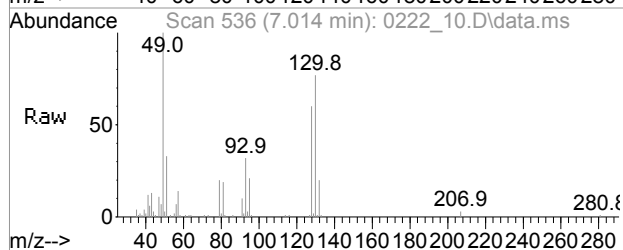
#26
Hexane
Concen: 0.58 ppbv
RT: 7.014 min Scan# 536
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

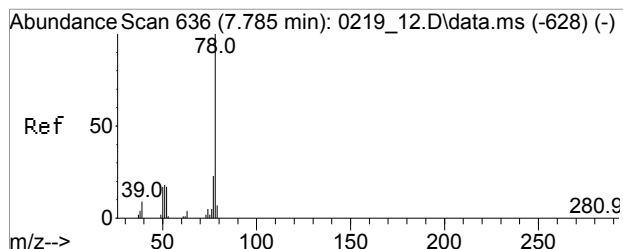
Tgt Ion: 57 Resp: 11071
Ion Ratio Lower Upper
57 100
41 98.4 67.4 101.2
86 9.6 9.3 13.9



#28
Ethyl acetate
Concen: 0.29 ppbv
RT: 7.014 min Scan# 536
Delta R.T. 0.008 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

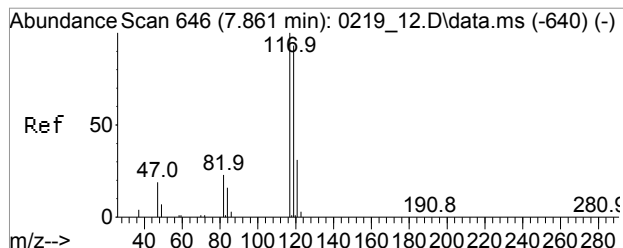
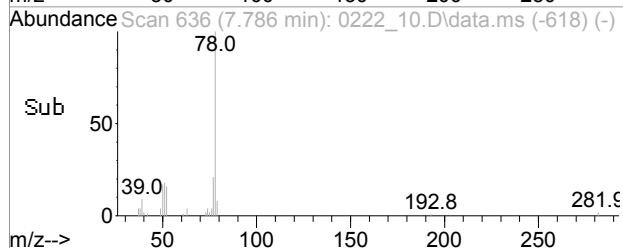
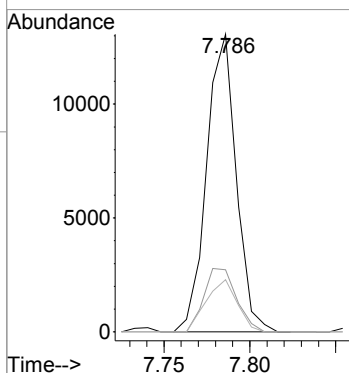
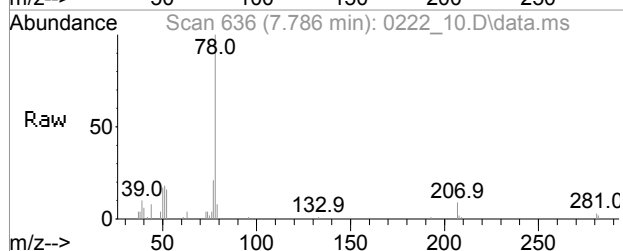
Tgt Ion: 43 Resp: 14131
Ion Ratio Lower Upper
43 100
61 3.9 8.3 12.5#
70 4.5 5.8 8.6#





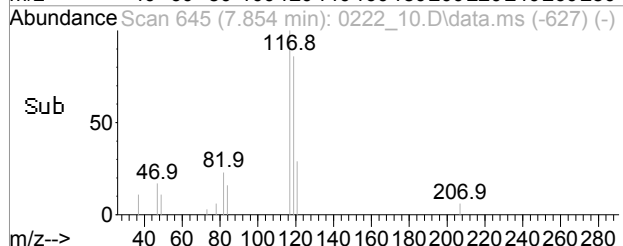
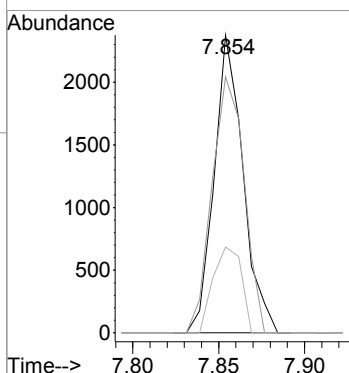
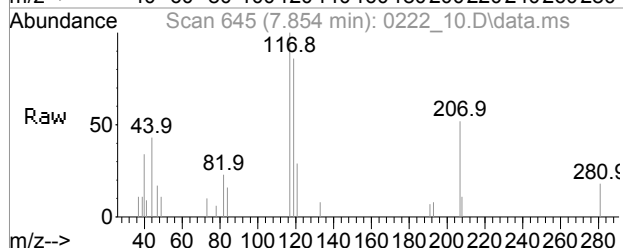
#32
Benzene
Concen: 0.49 ppbv
RT: 7.786 min Scan# 636
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

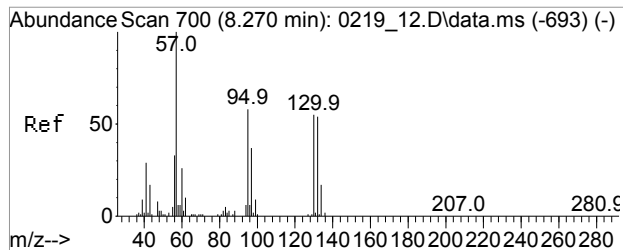
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	27.8
51	18.5	14.9	22.3



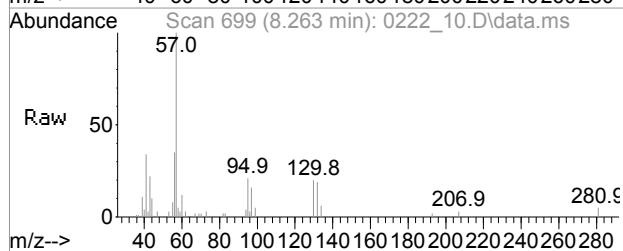
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.9	115.9
121	28.2	10.8	50.8

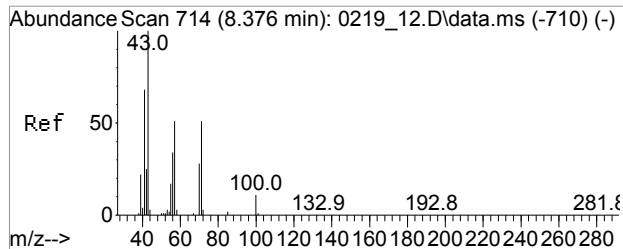
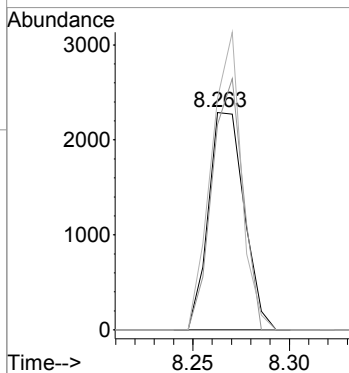
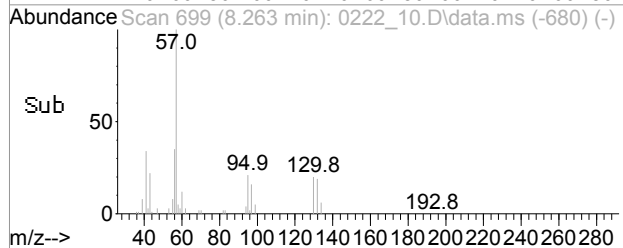




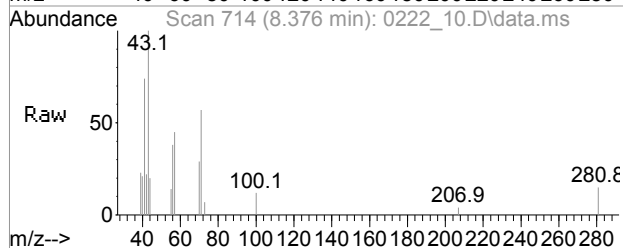
#38
Trichloroethene
Concen: 0.22 ppbv
RT: 8.263 min Scan# 699
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm



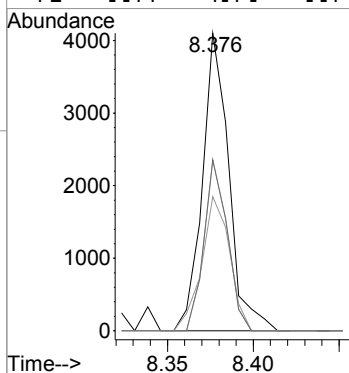
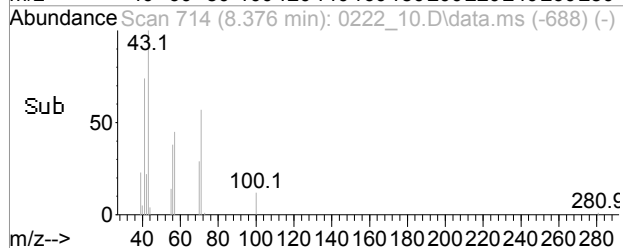
Tgt Ion: 130 Resp: 2947
Ion Ratio Lower Upper
130 100
132 99.7 77.2 115.8
95 114.6 82.7 124.1

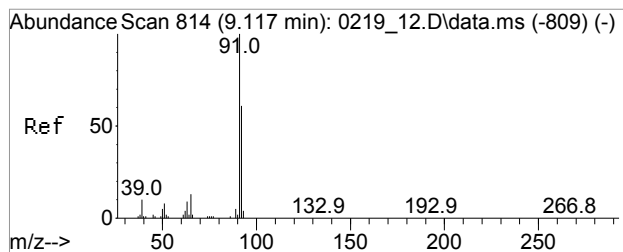


#42
Heptane
Concen: 0.35 ppbv
RT: 8.376 min Scan# 714
Delta R.T. 0.000 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm



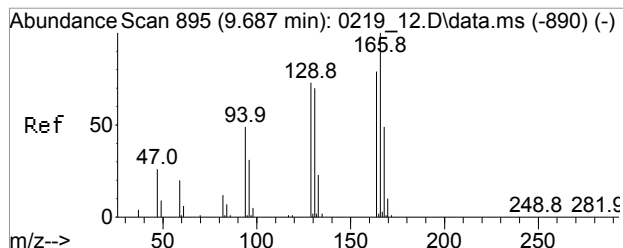
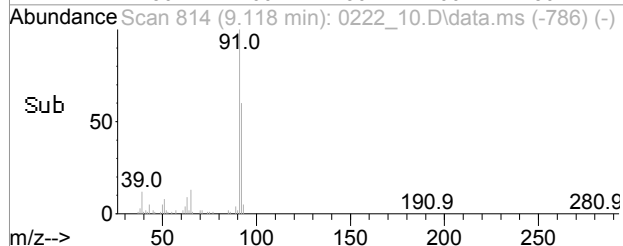
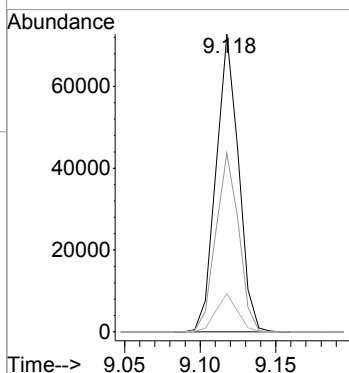
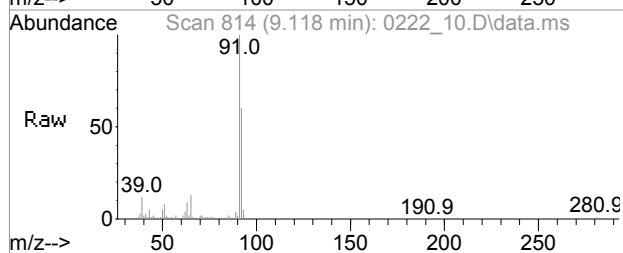
Tgt Ion: 43 Resp: 4402
Ion Ratio Lower Upper
43 100
57 47.5 43.0 64.4
71 50.7 43.6 65.4
71 50.7 43.6 65.4





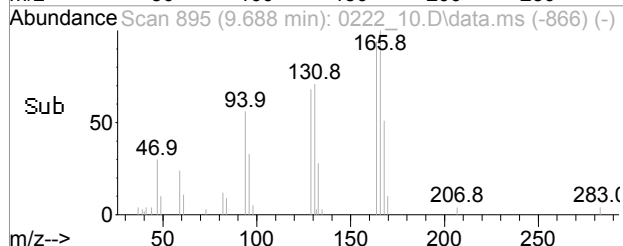
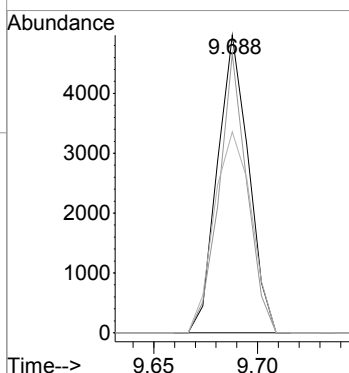
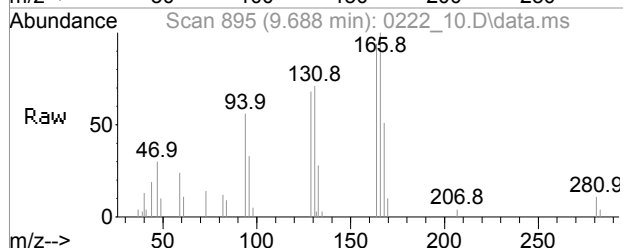
#47
Toluene
Concen: 2.61 ppbv
RT: 9.118 min Scan# 814
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

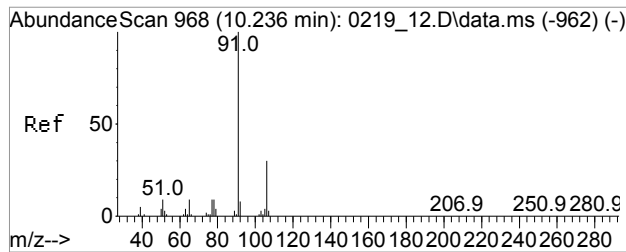
Tgt Ion: 91 Resp: 75497
Ion Ratio Lower Upper
91 100
92 61.0 47.7 71.5
65 12.3 9.5 14.3



#51
Tetrachloroethene
Concen: 0.27 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

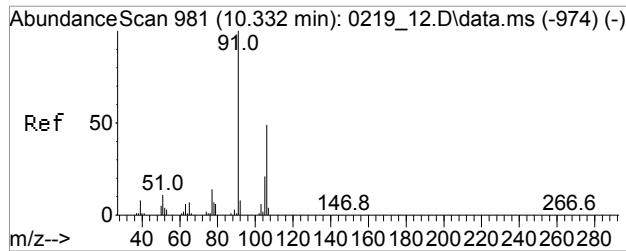
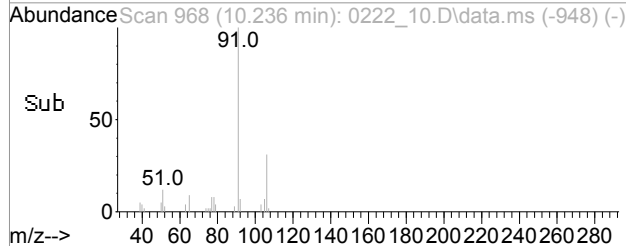
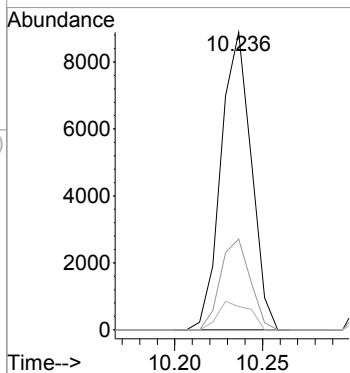
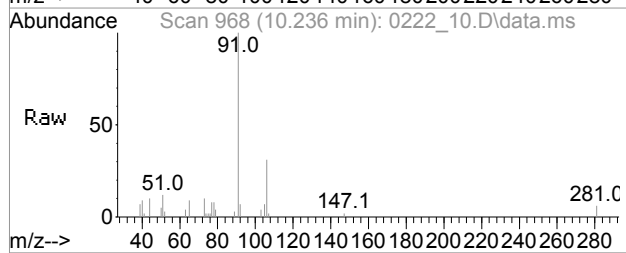
Tgt Ion: 166 Resp: 5185
Ion Ratio Lower Upper
166 100
164 84.8 62.2 93.4
129 80.7 56.6 84.8





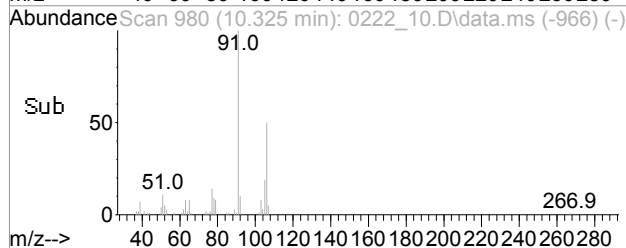
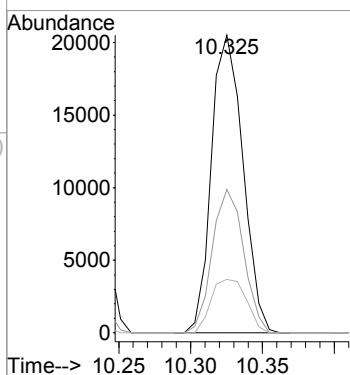
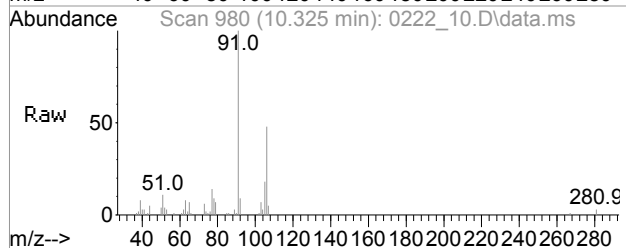
#55
Ethylbenzene
Concen: 0.24 ppbv
RT: 10.236 min Scan# 968
Delta R.T. 0.000 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

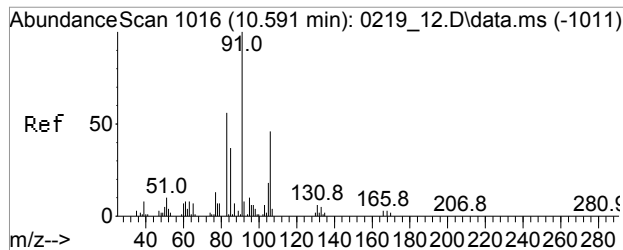
Tgt Ion: 91 Resp: 10662
Ion Ratio Lower Upper
91 100
106 30.0 10.8 50.8
77 10.0 0.0 28.9



#56
m,p-Xylene
Concen: 0.95 ppbv
RT: 10.325 min Scan# 980
Delta R.T. 0.000 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

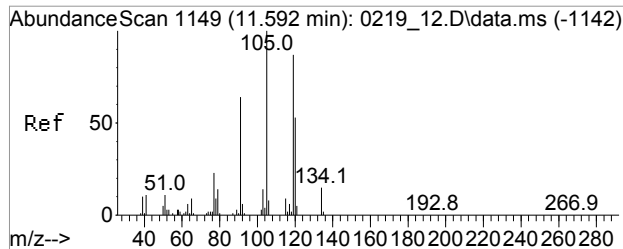
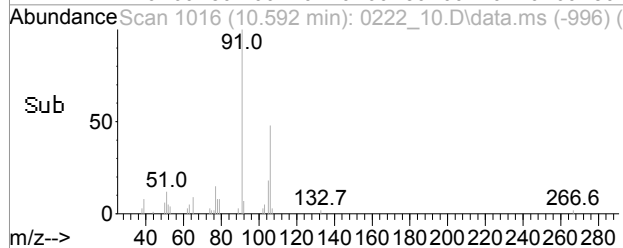
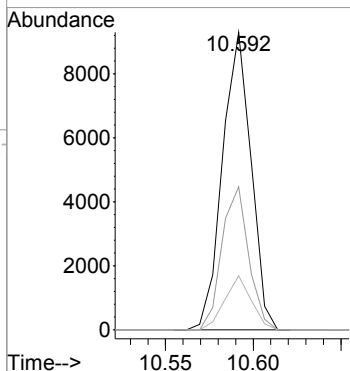
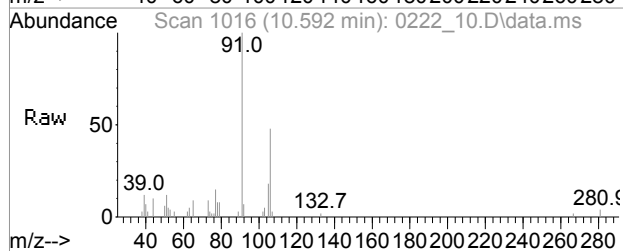
Tgt Ion: 91 Resp: 31271
Ion Ratio Lower Upper
91 100
106 48.0 38.7 58.1
105 20.2 16.6 25.0





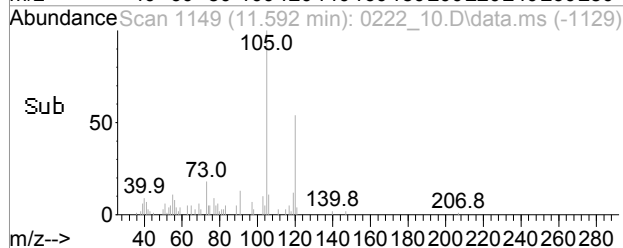
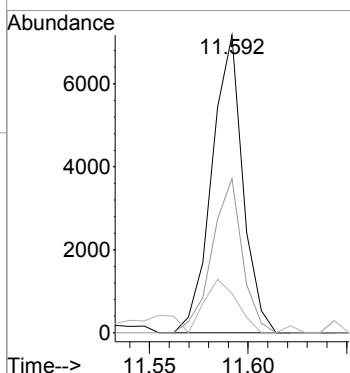
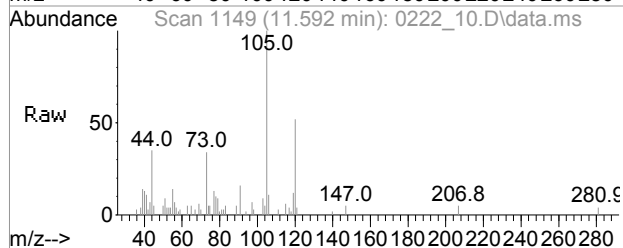
#60
o-Xylene
Concen: 0.30 ppbv
RT: 10.592 min Scan# 1016
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

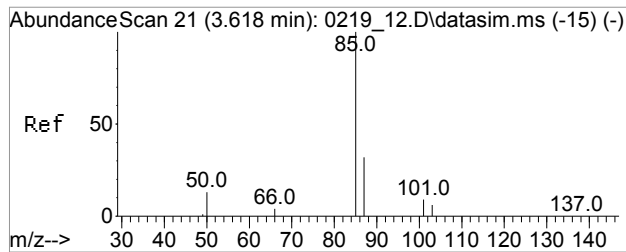
Tgt Ion: 91 Resp: 10521
Ion Ratio Lower Upper
91 100
106 45.3 37.4 56.2
105 17.0 14.1 21.1



#67
1,2,4-Trimethylbenzene
Concen: 0.21 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

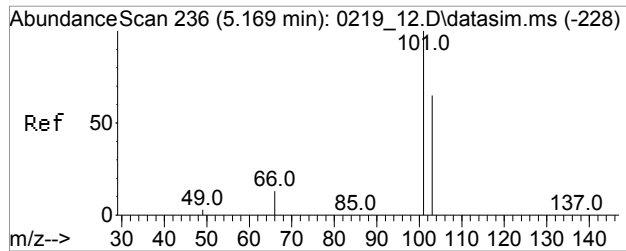
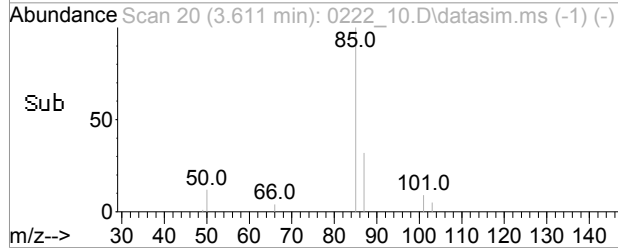
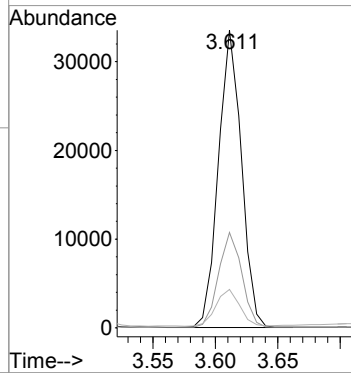
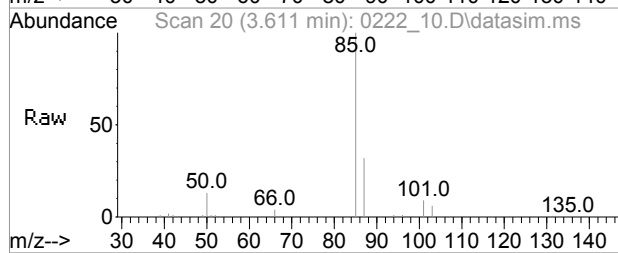
Tgt Ion: 105 Resp: 7841
Ion Ratio Lower Upper
105 100
120 50.8 43.5 65.3
77 18.8 20.2 30.4#





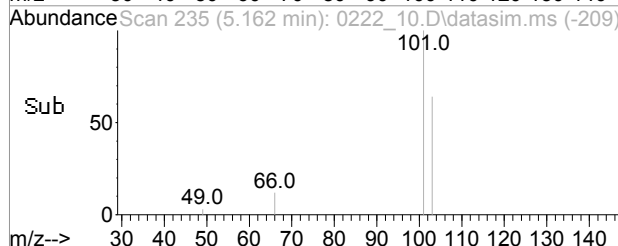
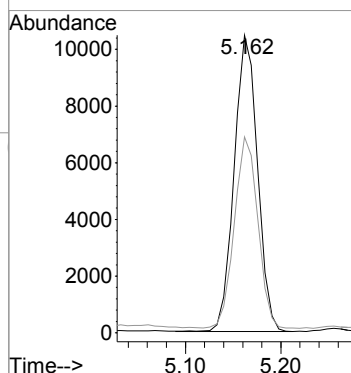
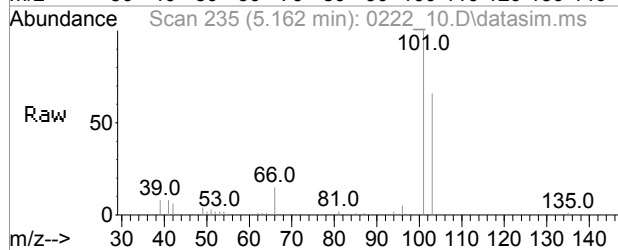
#80
Dichlorodifluoromethane(sim)
Concen: 0.54 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

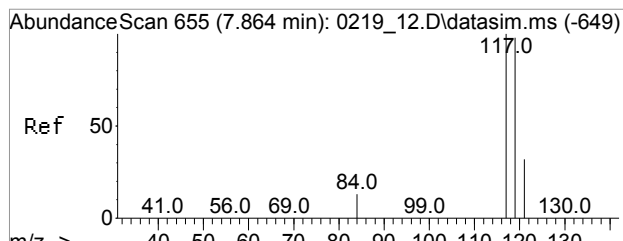
Tgt Ion: 85 Resp: 42602
Ion Ratio Lower Upper
85 100
87 32.4 12.7 52.7
50 12.8 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.25 ppbv
RT: 5.162 min Scan# 235
Delta R.T. -0.014 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

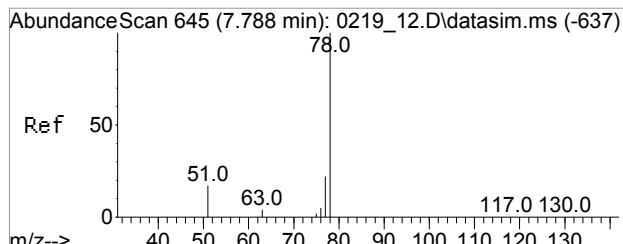
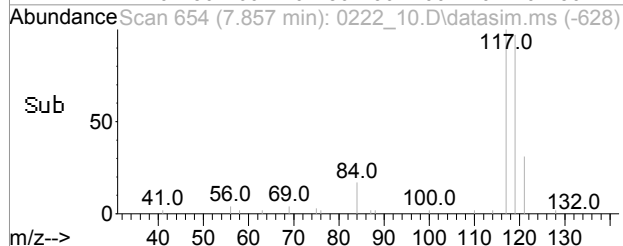
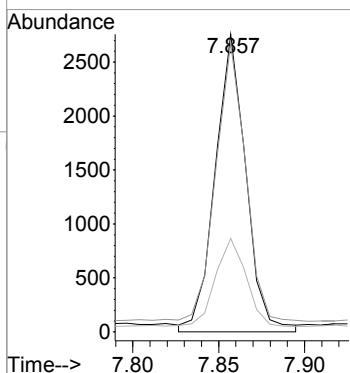
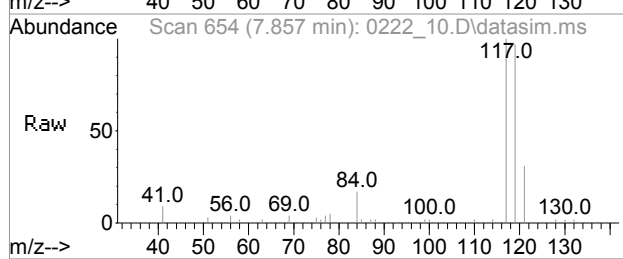
Tgt Ion:101 Resp: 17762
Ion Ratio Lower Upper
101 100
103 65.0 52.0 78.0





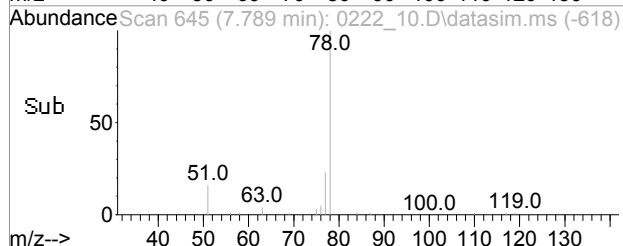
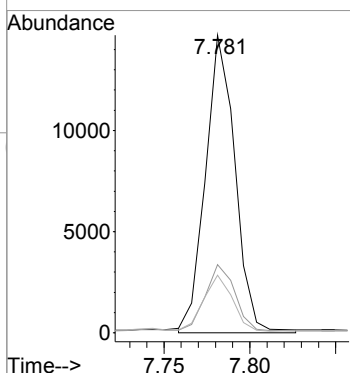
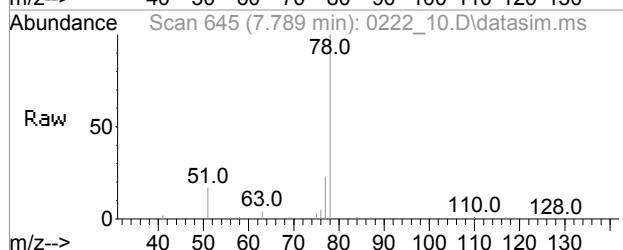
#87
Carbon Tetrachloride(sim)
Concen: 0.09 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

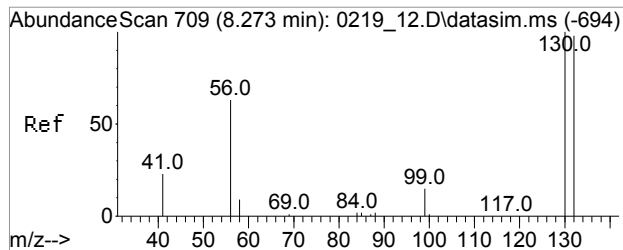
Tgt Ion:117 Resp: 2783
Ion Ratio Lower Upper
117 100
119 91.5 76.7 115.1
121 28.2 24.6 37.0



#95
Benzene(sim)
Concen: 0.44 ppbv
RT: 7.786 min Scan# 645
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

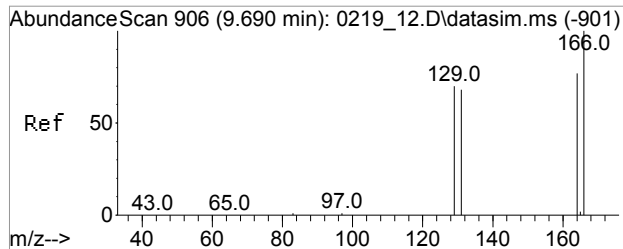
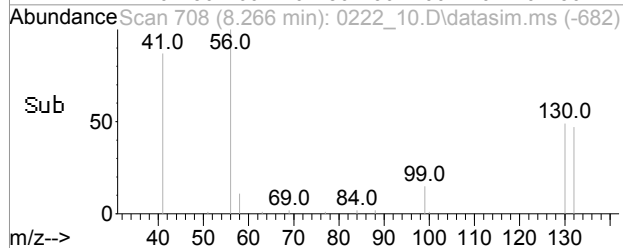
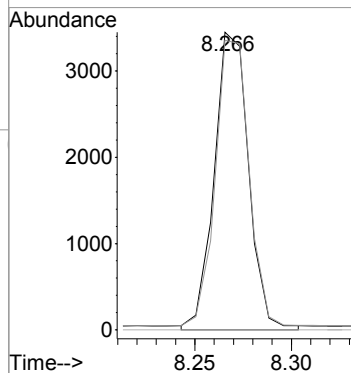
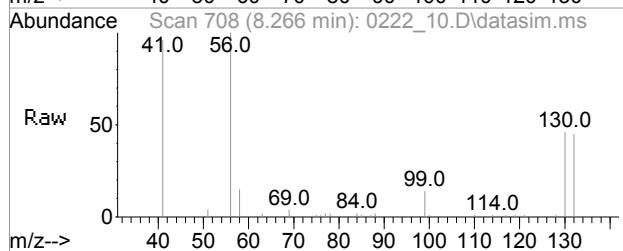
Tgt Ion: 78 Resp: 15685
Ion Ratio Lower Upper
78 100
77 23.5 22.0 24.4
51 18.5 14.9 22.3





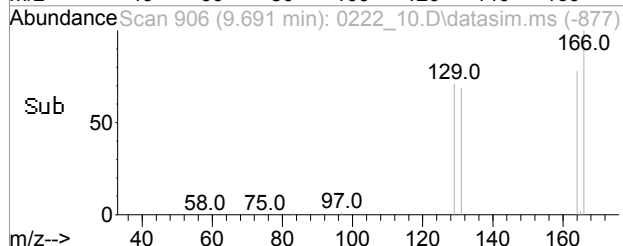
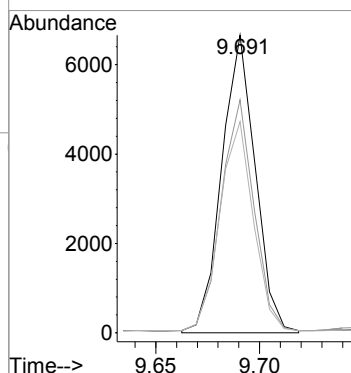
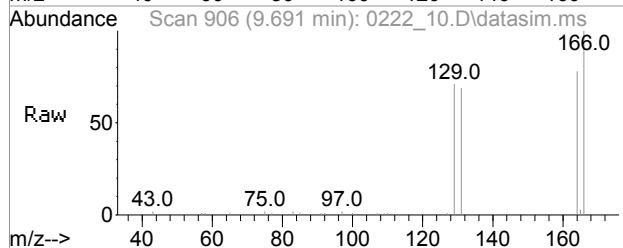
#99
Trichloroethene(sim)
Concen: 0.19 ppbv
RT: 8.263 min Scan# 708
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

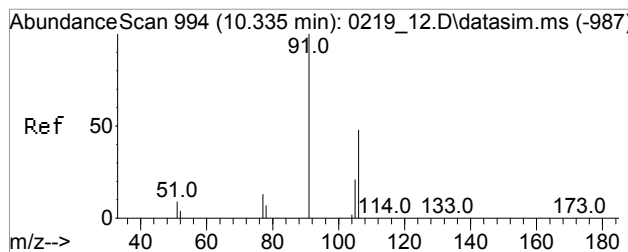
Tgt Ion:130 Resp: 2947
Ion Ratio Lower Upper
130 100
132 99.7 77.2 115.8
97 76.4 53.5 80.3



#105
Tetrachloroethene(sim)
Concen: 0.27 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

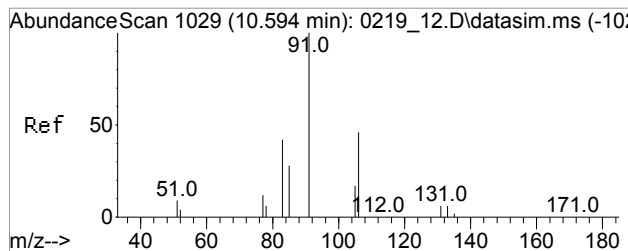
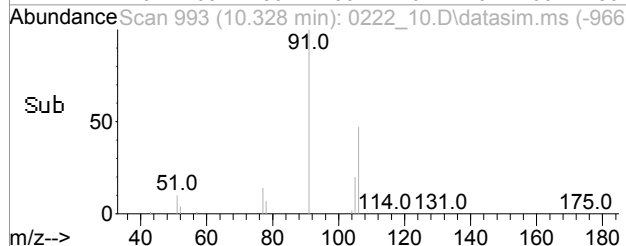
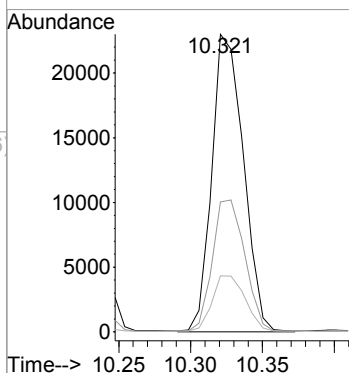
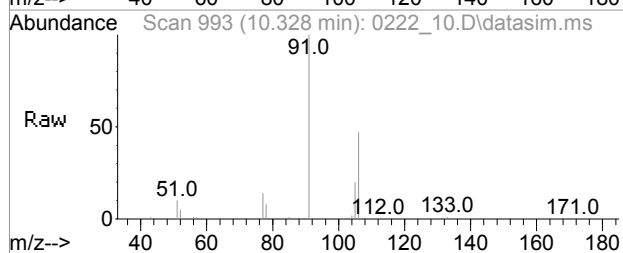
Tgt Ion:166 Resp: 5185
Ion Ratio Lower Upper
166 100
164 84.8 57.8 97.8
129 80.7 50.7 90.7





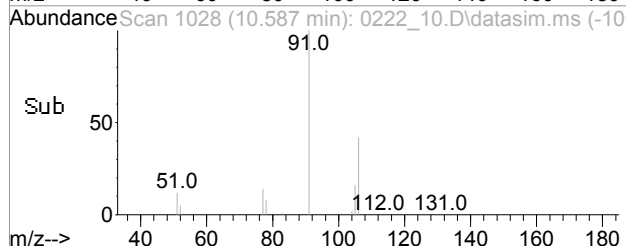
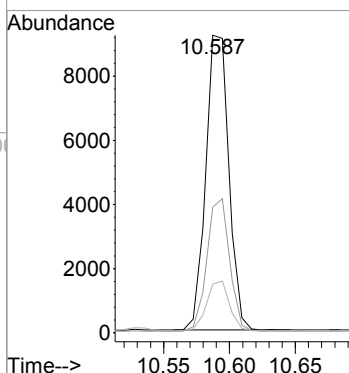
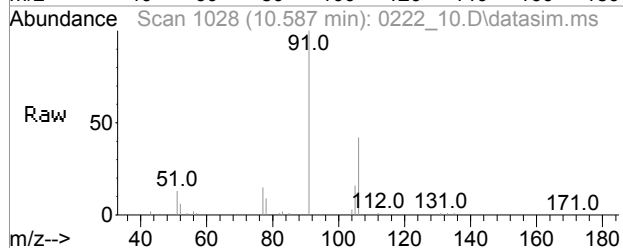
#111
m,p-Xylene(sim)
Concen: 0.84 ppbv
RT: 10.325 min Scan# 993
Delta R.T. 0.000 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

Tgt Ion: 91 Resp: 31271
Ion Ratio Lower Upper
91 100
106 48.0 43.6 53.2
105 20.2 16.6 25.0



#114
o-Xylene(sim)
Concen: 0.27 ppbv
RT: 10.587 min Scan# 1028
Delta R.T. -0.007 min
Lab File: 0222_10.D
Acq: 22 Feb 2016 01:10 pm

Tgt Ion: 91 Resp: 11189
Ion Ratio Lower Upper
91 100
106 44.2 36.0 54.0
105 16.9 13.8 20.8



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-2
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67658 10X</u>	
Canister:	<u>11257</u>	Lab File ID:	<u>0222_22.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received:
				<u>02/19/16</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>02/23/16</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>10</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.81	U	5.81	5.81	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	5.31	U	5.31	5.31	r
67-64-1	Acetone	10.5	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
156-60-5	Trans-1,2-Dichloroethene	3.48		2.52	2.52	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
156-59-2	Cis-1,2-Dichloroethene	61.7		2.52	2.52	r
110-54-3	Hexane	2.84	U	2.84	2.84	r
67-66-3	Chloroform	9.49		2.05	2.05	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	35.5		0.466	0.466	r
142-82-5	Heptane	2.44	U	2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	3.19		2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	1900	E	0.369	0.369	
95-63-6	1,2,4-Trimethylbenzene	3.61		2.04	2.04	r
135-98-8	sec-Butylbenzene	2.71		1.82	1.82	r
75-71-8	Dichlorodifluoromethane(sim)	2.02	U	2.02	2.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67658 10X</u>
Canister:	<u>11257</u>	Lab File ID:	<u>0222_22.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-15-0	Carbon Disulfide(sim)	3.21	U	3.21	3.21	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-41-4	Ethylbenzene(sim)	2.30	U	2.30	2.30	r
179601-23-1	m,p-Xylene(sim)	3.38		2.30	2.30	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
95-47-6	o-Xylene(sim)	2.30	U	2.30	2.30	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
622-96-8	4-Ethyltoluene(sim)	2.04	U	2.04	2.04	r
108-67-8	1,3,5-Trimethylbenzene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_22.D
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 Operator : CORTEX\ms
 Client ID : SS-2
 Lab ID : BK67658 10X
 ALS Vial : 1 Sample Multiplier: 1

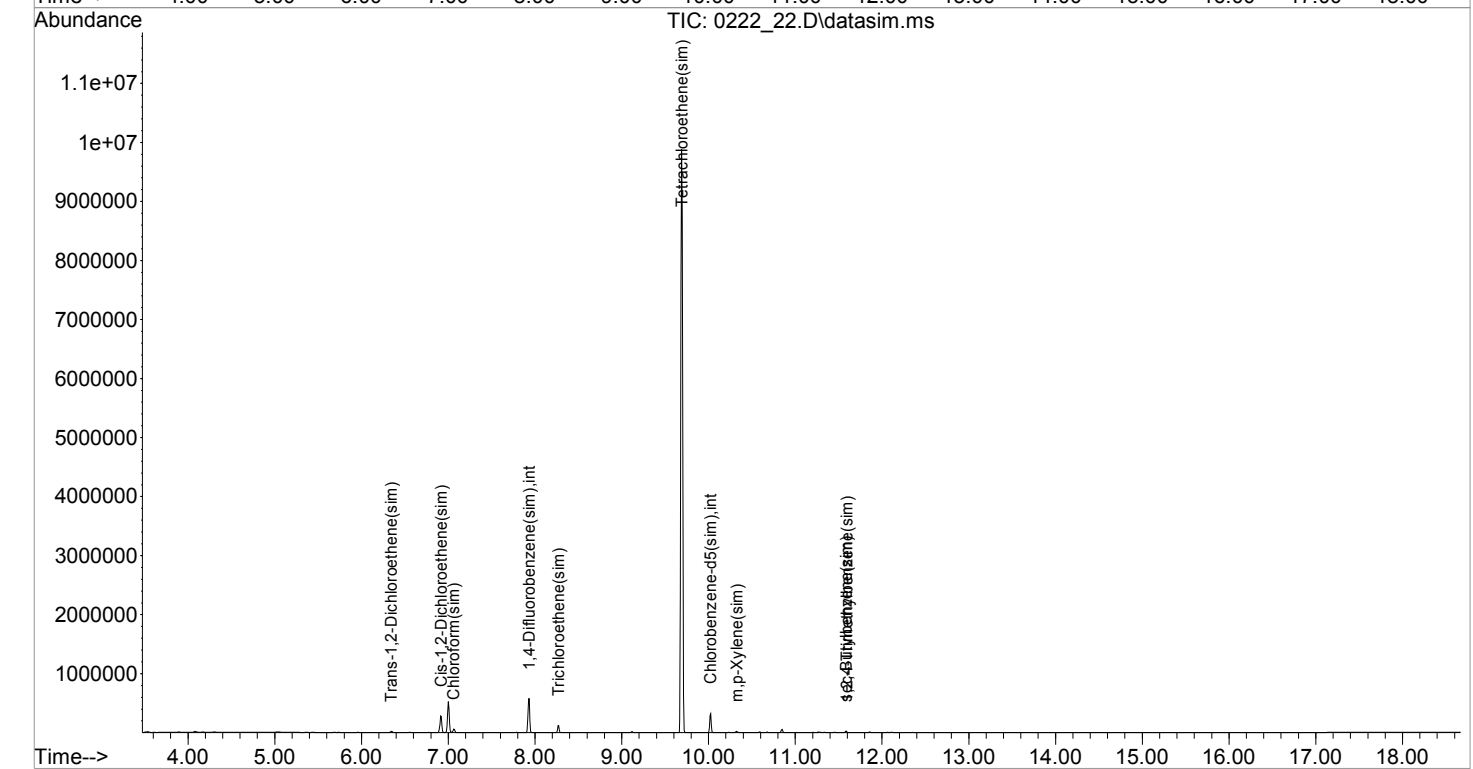
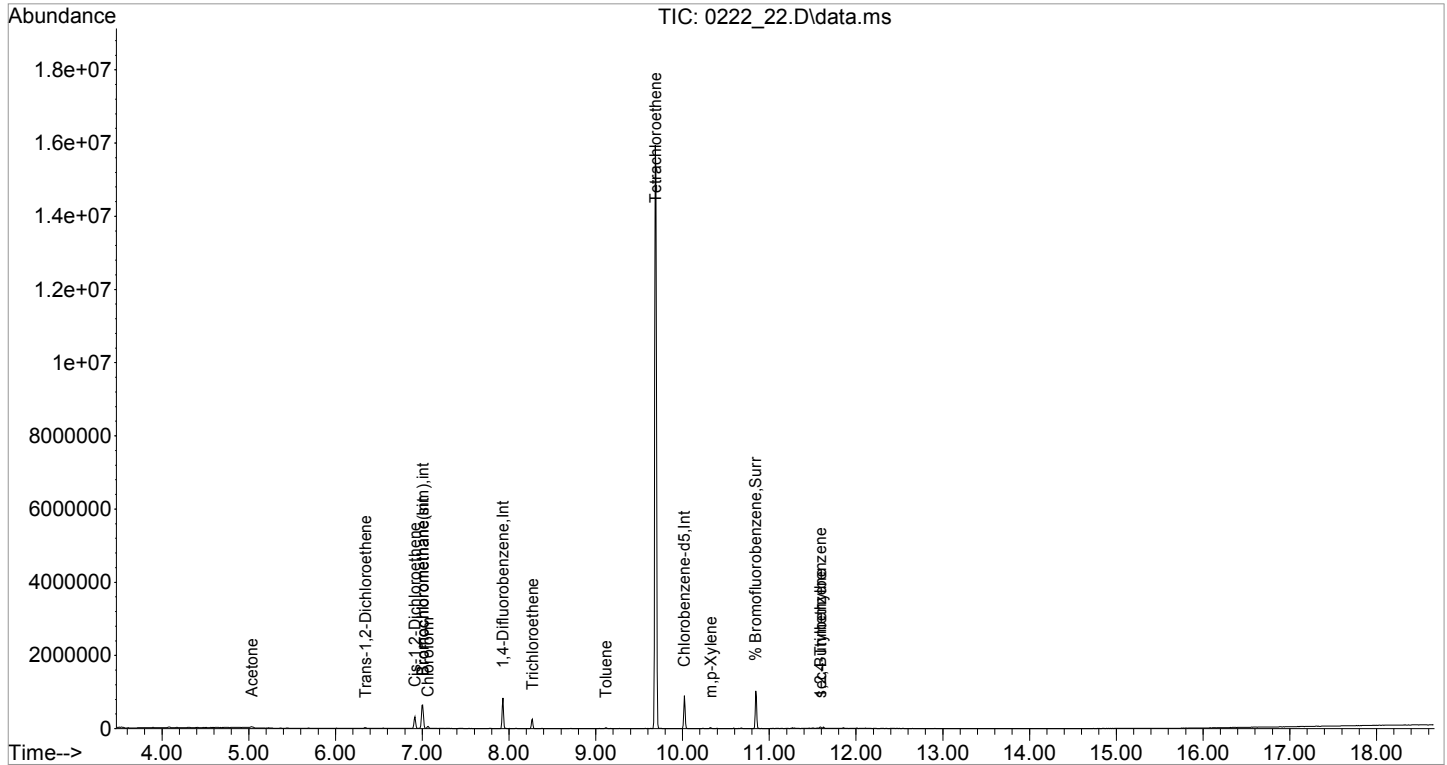
Quant Time: Feb 23 08:27:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

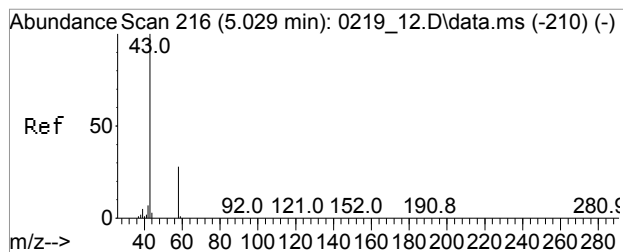
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	146983	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	406393	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	170667	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	146983	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	486946	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	182409	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	229971	10.204	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
					Qvalue	
11) Acetone	5.036	43	27543	1.053	ppbv#	88
21) Trans-1,2-Dichloroethene	6.345	61	10150	0.348	ppbv	96
25) Cis-1,2-Dichloroethene	6.915	61	140637	6.173	ppbv	95
27) Chloroform	7.066	83	32862	0.949	ppbv	98
38) Trichloroethene	8.270	130	50028	3.545	ppbv	95
47) Toluene	9.117	91	9756	0.319	ppbv#	96
51) Tetrachloroethene	9.687	166	3850585	188.004	ppbv	99
56) m,p-Xylene	10.325	91	12039	0.385	ppbv	95
67) 1,2,4-Trimethylbenzene	11.592	105	12867	0.360	ppbv	88
72) sec-Butylbenzene	11.592	105	12867	0.271	ppbv#	69
91] Trans-1,2-Dichloroethe...	6.345	61	10150	0.331	ppbv	97
93] Cis-1,2-Dichloroethene...	6.915	61	140637	5.862	ppbv	95
94] Chloroform(sim)	7.062	83	40245	0.942	ppbv	99
99] Trichloroethene(sim)	8.270	130	50028	2.999	ppbv	95
105] Tetrachloroethene(sim)	9.687	166	3850585	188.044	ppbv	99
111] m,p-Xylene(sim)	10.325	91	12039	0.337	ppbv	95
119] 1,2,4-Trimethylbenzene...	11.592	105	12867	0.331	ppbv	88
124] sec-Butylbenzene(sim)	11.587	105	13327	0.230	ppbv	79

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_22.D
Acq On : 23 Feb 2016 01:31 am
Operator : CORTEX\ms
Client ID : SS-2
Lab ID : BK67658 10X
ALS Vial : 1 Sample Multiplier: 1

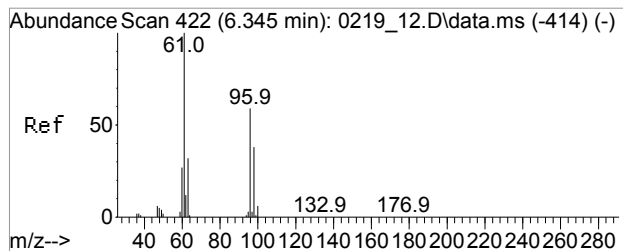
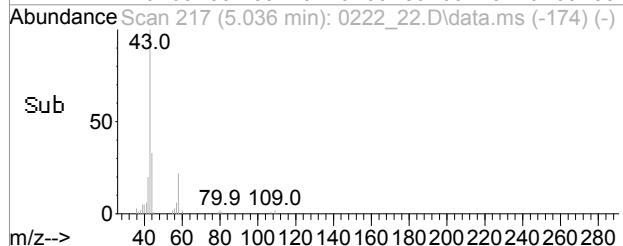
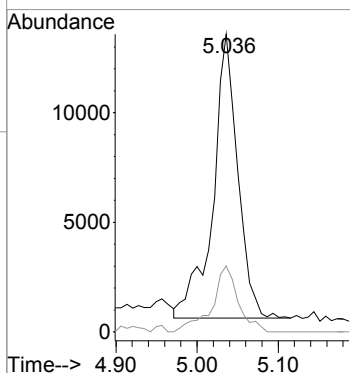
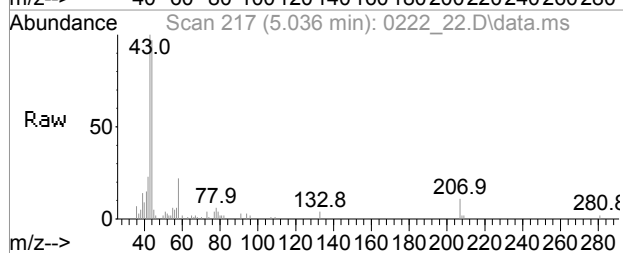
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Response via : Initial Calibration





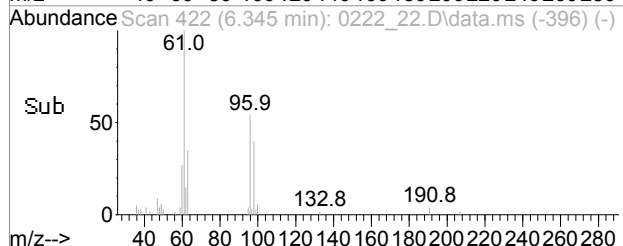
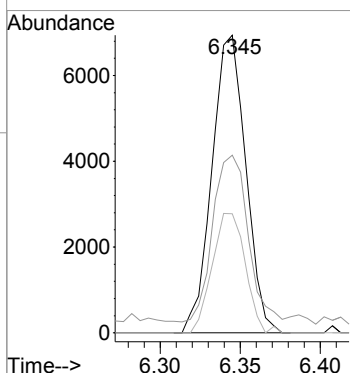
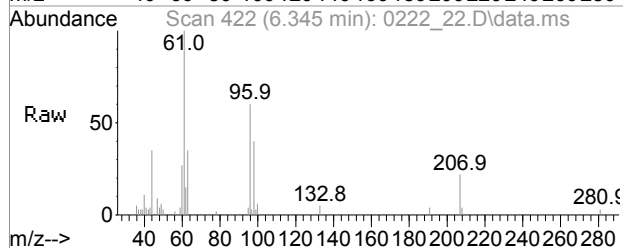
#11
Acetone
Concen: 1.05 ppbv
RT: 5.036 min Scan# 217
Delta R.T. 0.007 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

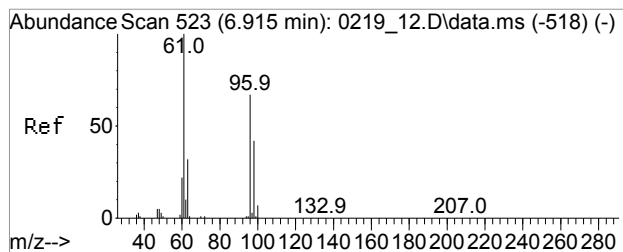
Tgt Ion: 43 Resp: 27543
Ion Ratio Lower Upper
43 100
58 24.5 24.8 37.2#



#21
Trans-1,2-Dichloroethene
Concen: 0.35 ppbv
RT: 6.345 min Scan# 422
Delta R.T. -0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

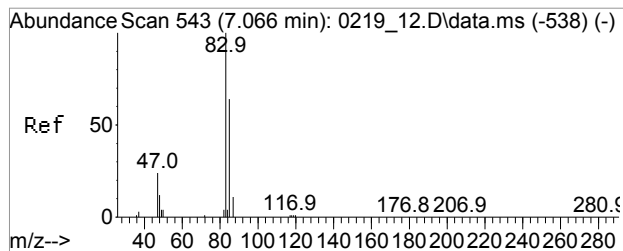
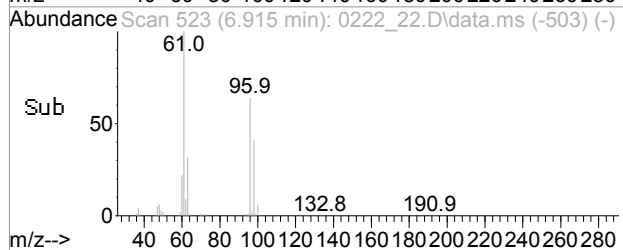
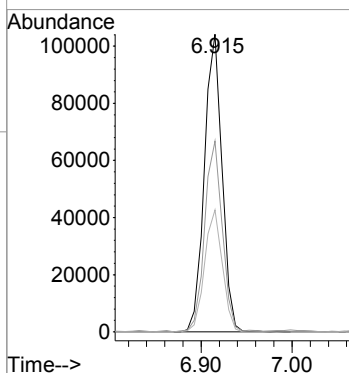
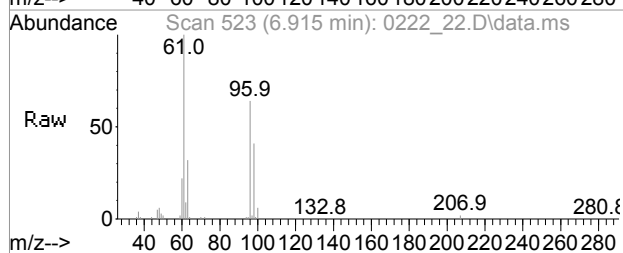
Tgt Ion: 61 Resp: 10150
Ion Ratio Lower Upper
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96 64.2 48.4 72.6
98 39.3 30.6 45.8





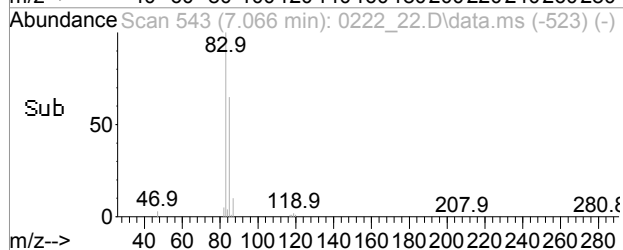
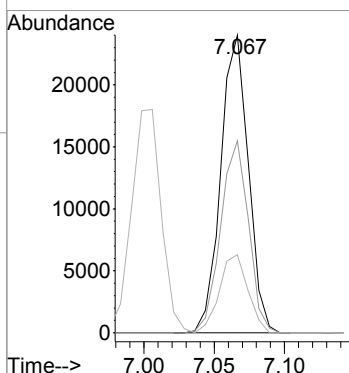
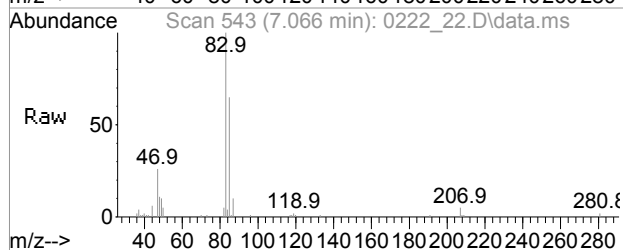
#25
Cis-1,2-Dichloroethene
Concen: 6.17 ppbv
RT: 6.915 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

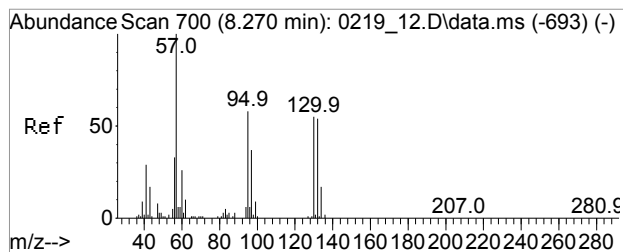
Tgt Ion: 61 Resp: 140637
Ion Ratio Lower Upper
61 100
96 64.4 55.1 82.7
98 41.2 35.7 53.5



#27
Chloroform
Concen: 0.95 ppbv
RT: 7.066 min Scan# 543
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

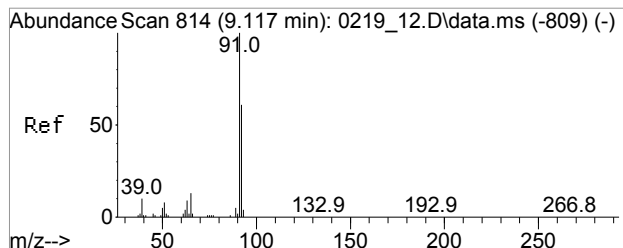
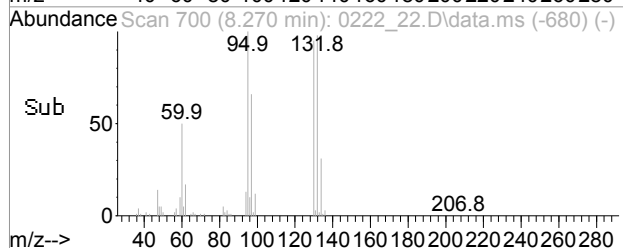
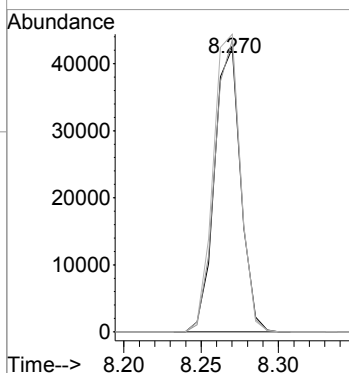
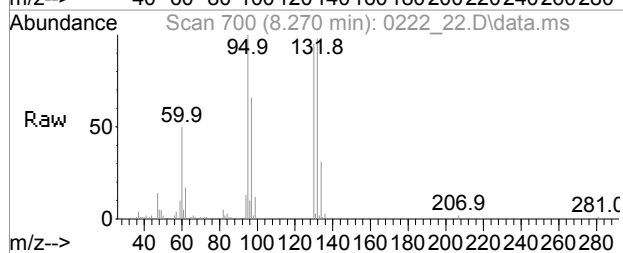
Tgt Ion: 83 Resp: 32862
Ion Ratio Lower Upper
83 100
85 65.0 46.0 86.0
47 27.1 4.6 44.6





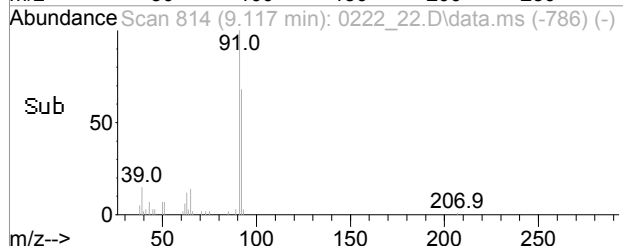
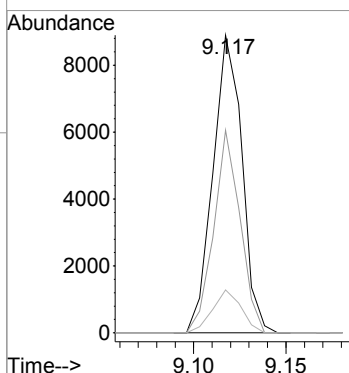
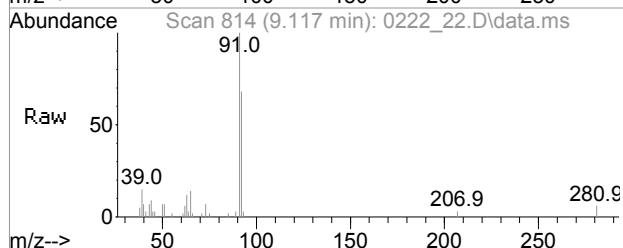
#38
Trichloroethene
Concen: 3.54 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

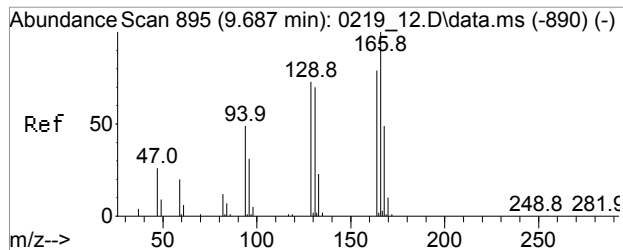
Tgt Ion: 130 Resp: 50028
Ion Ratio Lower Upper
130 100
132 101.0 77.2 115.8
95 108.8 82.7 124.1



#47
Toluene
Concen: 0.32 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

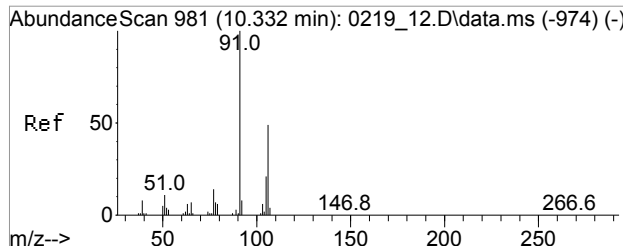
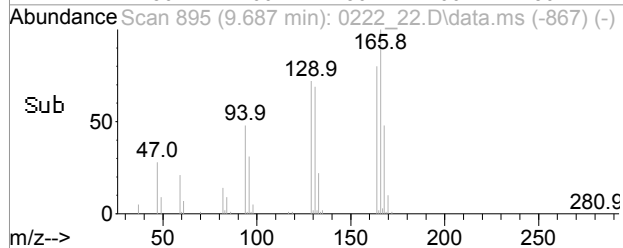
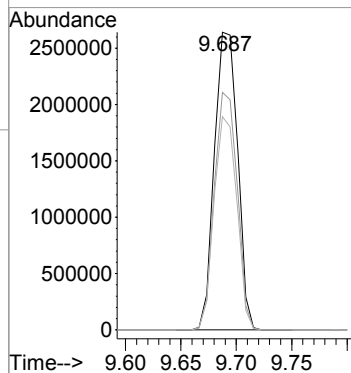
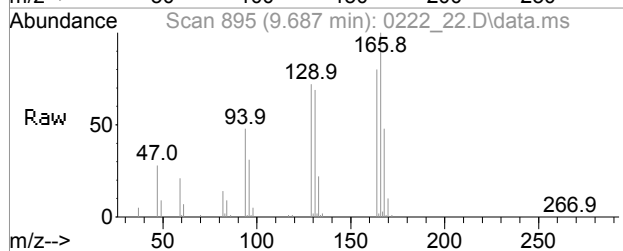
Tgt Ion: 91 Resp: 9756
Ion Ratio Lower Upper
91 100
92 61.9 47.7 71.5
65 14.3 9.5 14.3#





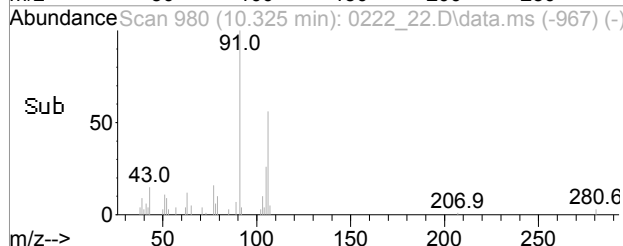
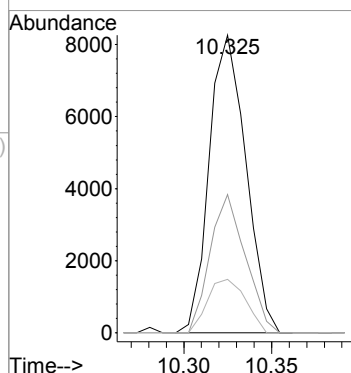
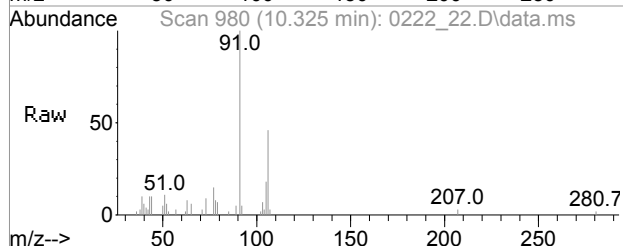
#51
Tetrachloroethene
Concen: 188.00 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

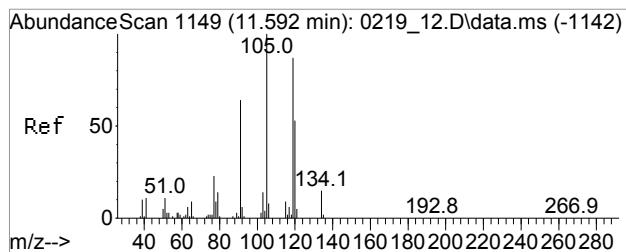
Tgt Ion:166 Resp: 3850585
Ion Ratio Lower Upper
166 100
164 78.7 62.2 93.4
129 70.5 56.6 84.8



#56
m,p-Xylene
Concen: 0.38 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

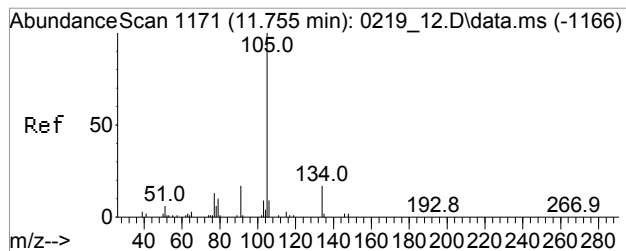
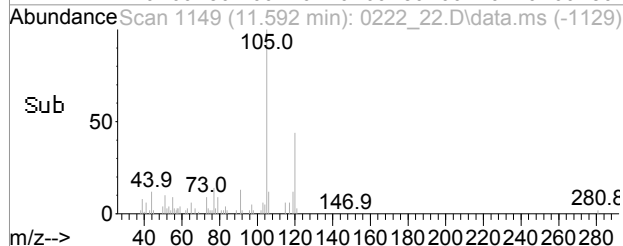
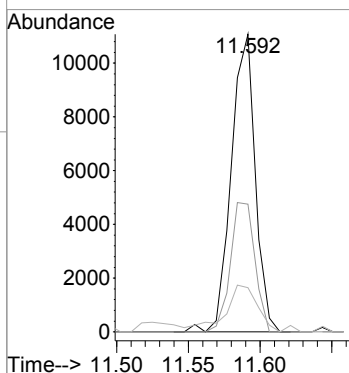
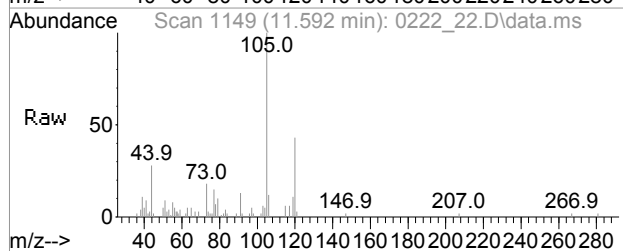
Tgt Ion: 91 Resp: 12039
Ion Ratio Lower Upper
91 100
106 44.7 38.7 58.1
105 18.7 16.6 25.0





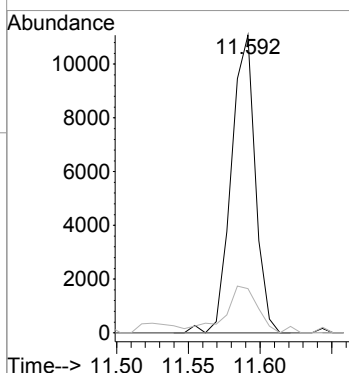
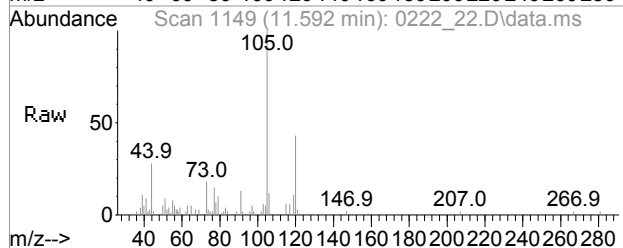
#67
1,2,4-Trimethylbenzene
Concen: 0.36 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

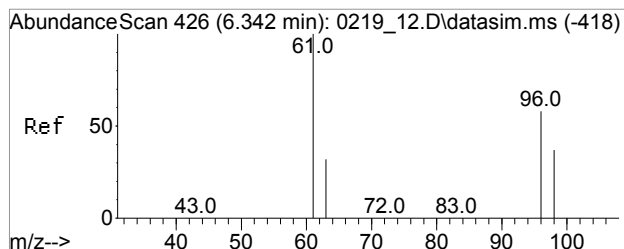
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.3	43.5	65.3
77	22.0	20.2	30.4



#72
sec-Butylbenzene
Concen: 0.27 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

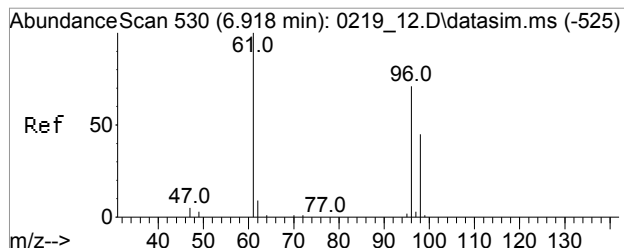
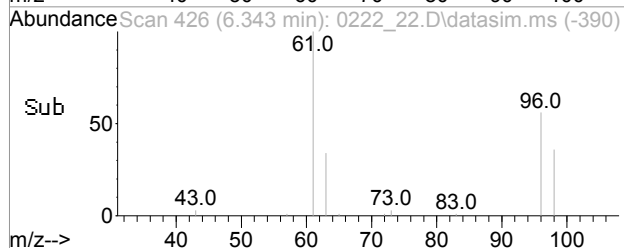
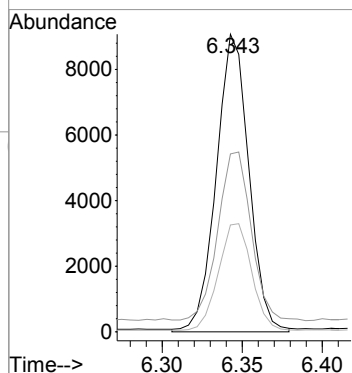
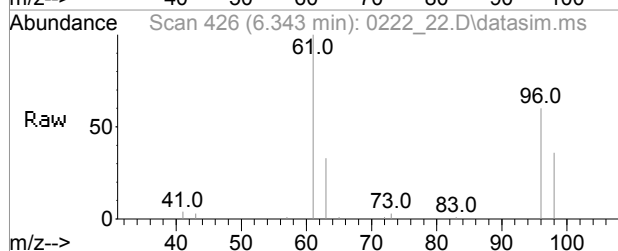
Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.7	20.5#
77	22.0	11.0	16.4#





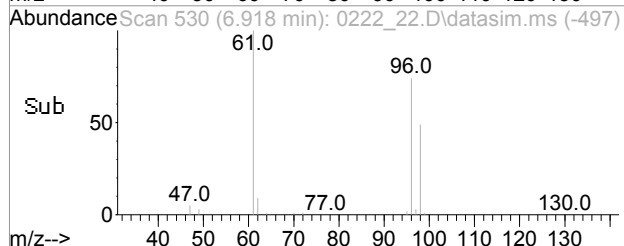
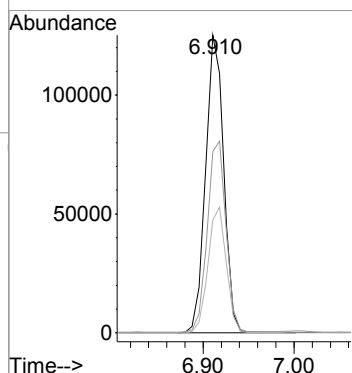
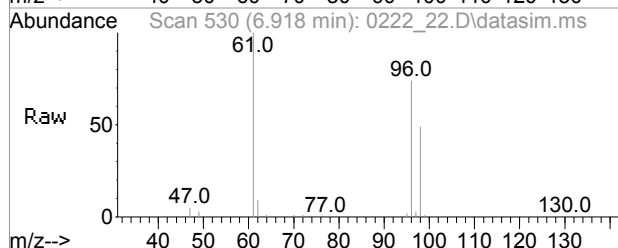
#91
 Trans-1,2-Dichloroethene(sim)
 Concen: 0.33 ppbv
 RT: 6.345 min Scan# 426
 Delta R.T. -0.000 min
 Lab File: 0222_22.D
 Acq: 23 Feb 2016 01:31 am

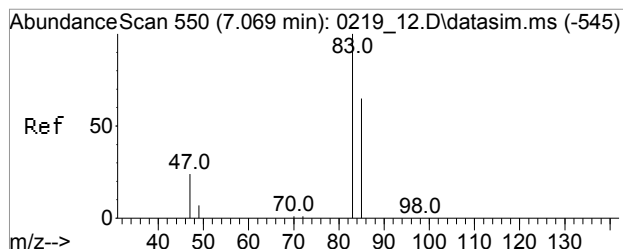
Tgt Ion: 61 Resp: 10150
 Ion Ratio Lower Upper
 61 100
 96 63.7 48.4 72.6
 98 39.3 30.6 45.8



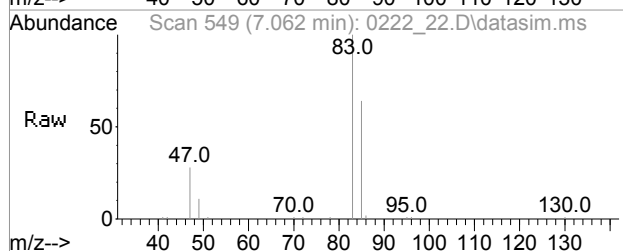
#93
 Cis-1,2-Dichloroethene(sim)
 Concen: 5.86 ppbv
 RT: 6.915 min Scan# 530
 Delta R.T. 0.000 min
 Lab File: 0222_22.D
 Acq: 23 Feb 2016 01:31 am

Tgt Ion: 61 Resp: 140637
 Ion Ratio Lower Upper
 61 100
 96 64.4 55.1 82.7
 98 41.2 35.7 53.5

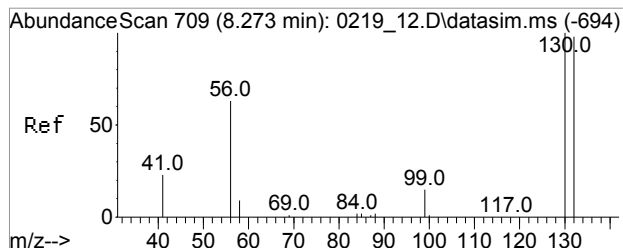
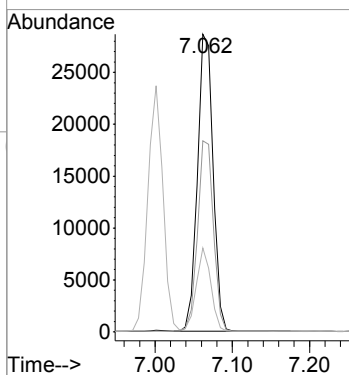
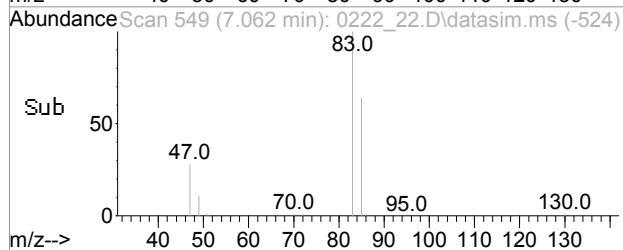




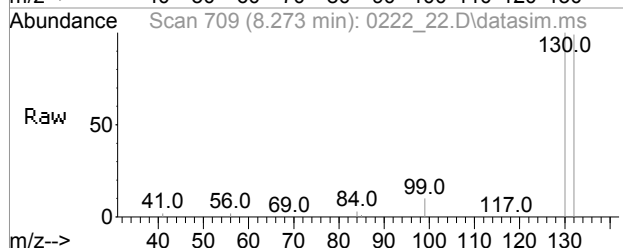
#94
Chloroform(sim)
Concen: 0.94 ppbv
RT: 7.062 min Scan# 549
Delta R.T. -0.007 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am



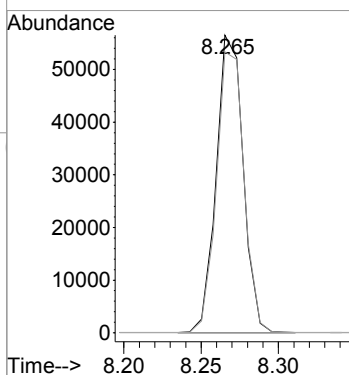
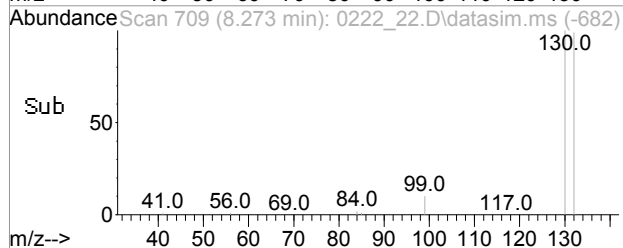
Tgt Ion: 83 Resp: 40245
Ion Ratio Lower Upper
83 100
85 65.0 62.7 67.9
47 26.4 19.4 29.0

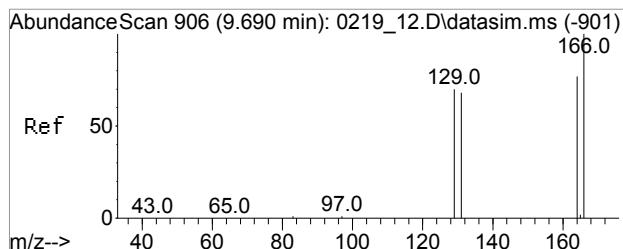


#99
Trichloroethene(sim)
Concen: 3.00 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am



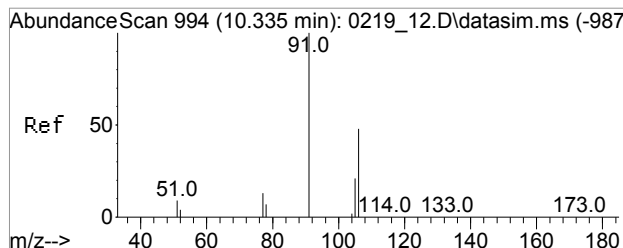
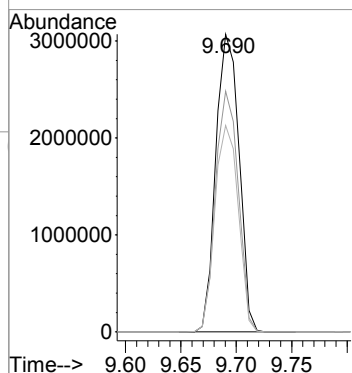
Tgt Ion: 130 Resp: 50028
Ion Ratio Lower Upper
130 100
132 101.0 77.2 115.8
97 71.6 53.5 80.3





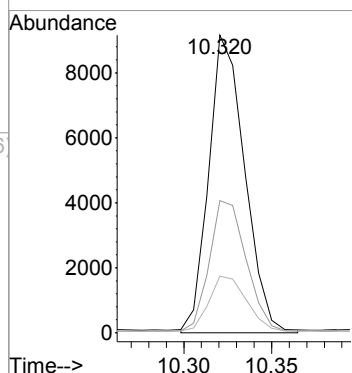
#105
Tetrachloroethene(sim)
Concen: 188.04 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

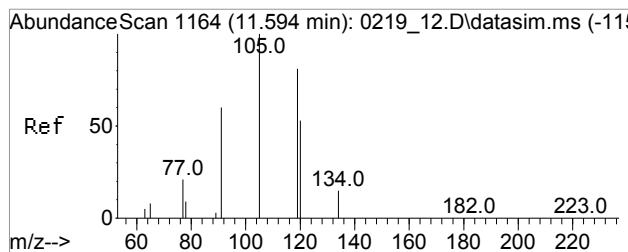
Tgt Ion:166 Resp: 3850585
Ion Ratio Lower Upper
166 100
164 78.7 57.8 97.8
129 70.5 50.7 90.7



#111
m,p-Xylene(sim)
Concen: 0.34 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

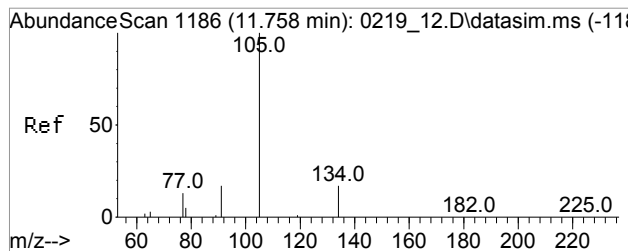
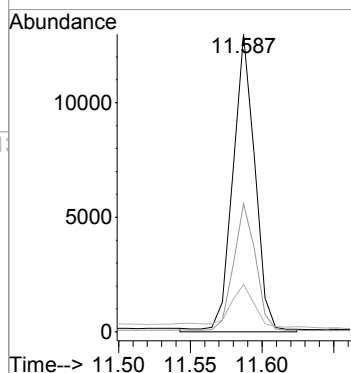
Tgt Ion: 91 Resp: 12039
Ion Ratio Lower Upper
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106 44.7 43.6 53.2
105 18.7 16.6 25.0





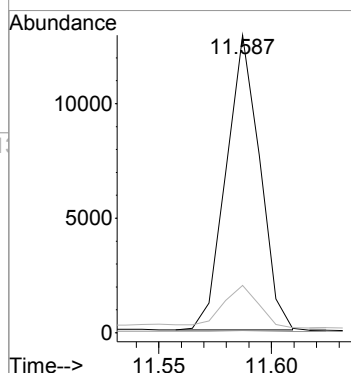
#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.33 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

Tgt Ion:105 Resp: 12867
Ion Ratio Lower Upper
105 100
120 44.3 43.5 65.3
77 22.0 20.2 30.4



#124
sec-Butylbenzene(sim)
Concen: 0.23 ppbv
RT: 11.587 min Scan# 1163
Delta R.T. 0.000 min
Lab File: 0222_22.D
Acq: 23 Feb 2016 01:31 am

Tgt Ion:105 Resp: 13327
Ion Ratio Lower Upper
105 100
134 0.4 0.0 35.9
77 15.3 0.0 34.1



Client:	WALDENE	Lab:	Phoenix Env. Labs	
SDG No.:	GBK67651	Lab Sample ID:	BK67658 75X	
Canister:	11257	Lab File ID:	0223_48.D	
Instrument:	CHEM24	Column:	zb-1ms	
Purge Volume	200	(cc)	Date Received:	02/19/16
			Date Analyzed:	02/24/16
Matrix:	AIR	Dilution Factor:	75	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent
This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_48.D
 Acq On : 24 Feb 2016 11:46 am
 Operator : Keith
 Client ID : SS-2 DIL
 Lab ID : BK67658 75X
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 24 14:30:16 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

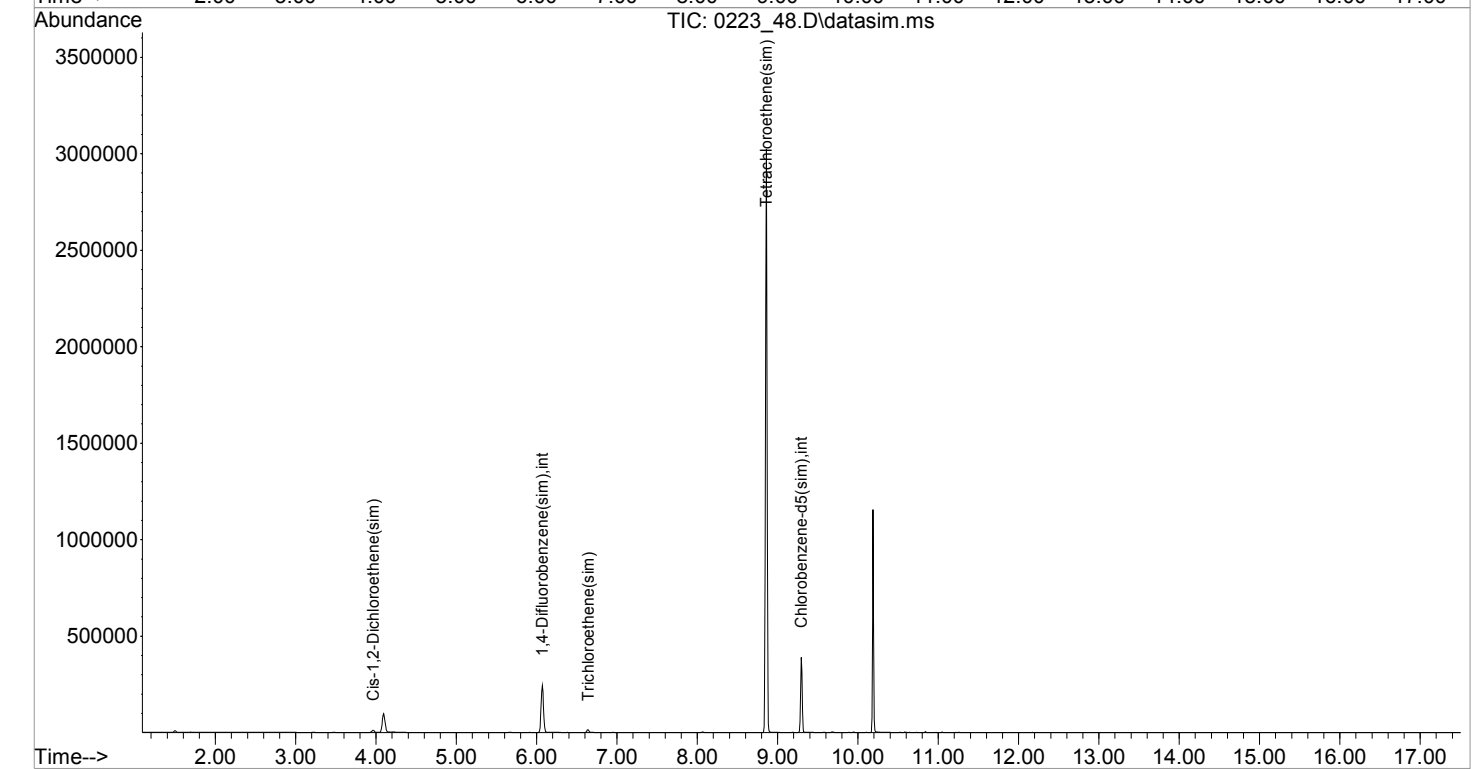
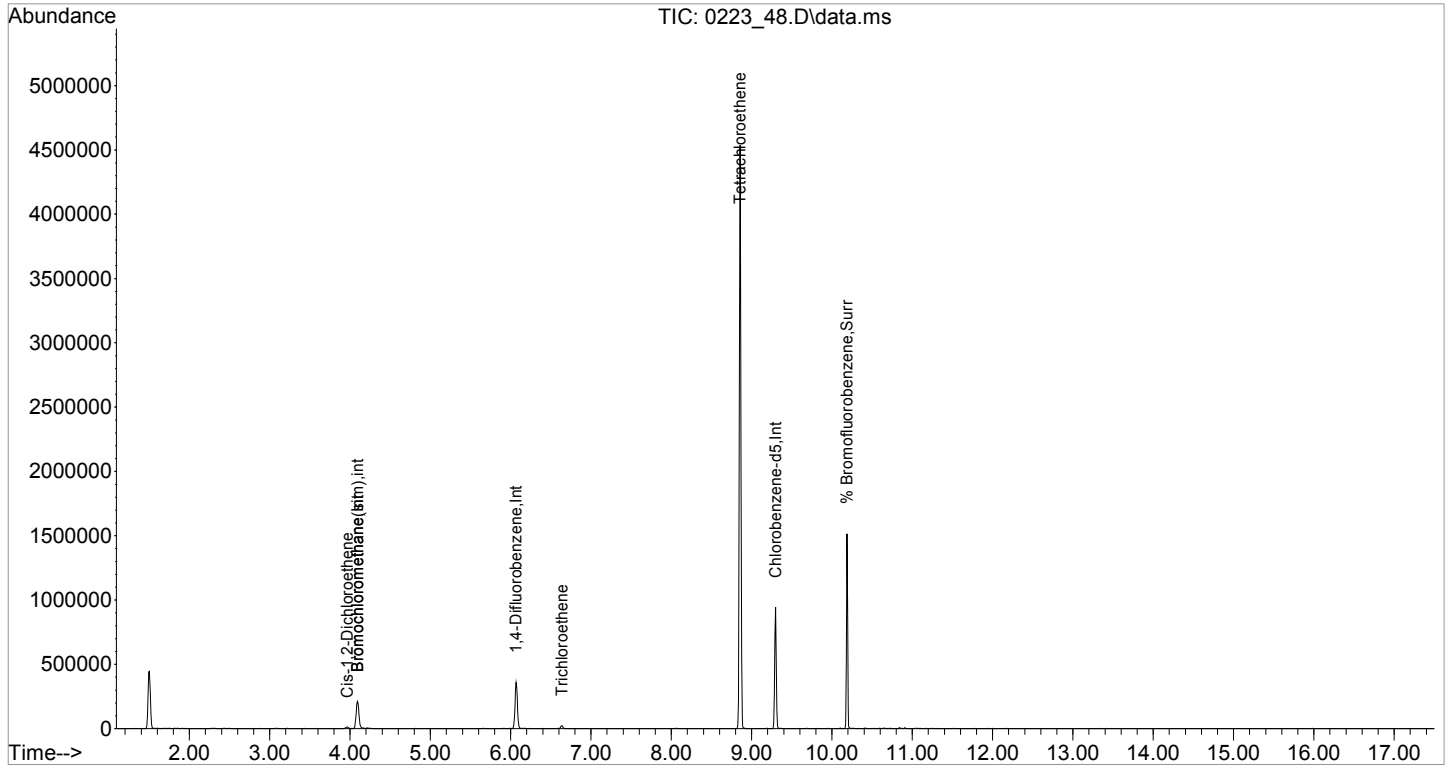
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

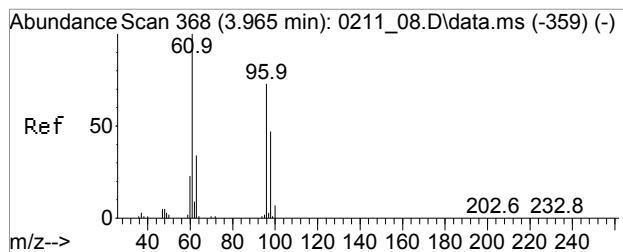
Internal Standards						
1) Bromochloromethane	4.091	130	104102	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.067	114	347666	10.000	ng	0.01
53) Chlorobenzene-d5	9.298	82	210191	10.000	ng	0.00
80) Bromochloromethane(sim)	4.091	130	104102	10.000	ng	0.01
93) 1,4-Difluorobenzene(sim)	6.070	114	386365	10.000	ng	# 0.01
103) Chlorobenzene-d5(sim)	9.294	82	241426	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	282328	10.123	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.20%		
Target Compounds						
						Qvalue
26) Cis-1,2-Dichloroethene	3.965	61	8535	0.697	ppbv	86
39) Trichloroethene	6.640	130	7209	0.496	ppbv	95
52) Tetrachloroethene	8.855	166	1172024	36.618	ppbv	90
88] Cis-1,2-Dichloroethene...	3.965	61	8535	0.661	ppbv	86
96] Trichloroethene(sim)	6.640	130	7209	0.451	ppbv	95
102] Tetrachloroethene(sim)	8.855	166	1172024	37.761	ppbv	90

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_48.D
Acq On : 24 Feb 2016 11:46 am
Operator : Keith
Client ID : SS-2 DIL
Lab ID : BK67658 75X
ALS Vial : 36 Sample Multiplier: 1

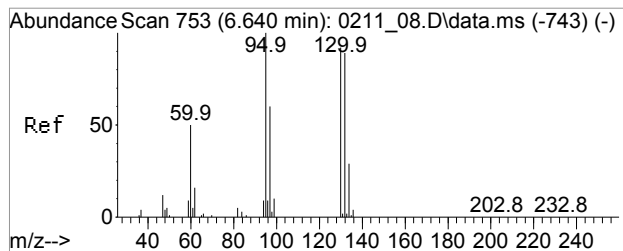
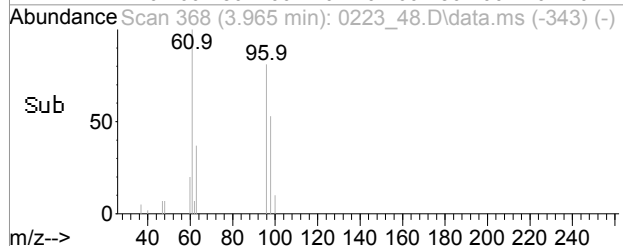
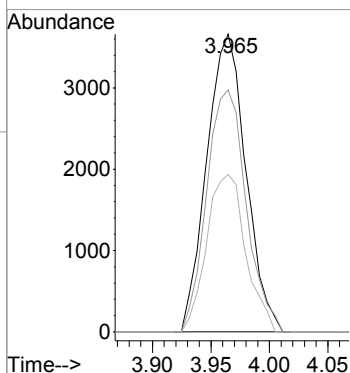
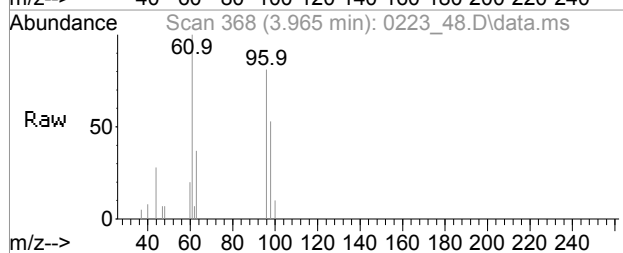
Quant Time: Feb 24 14:30:16 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration





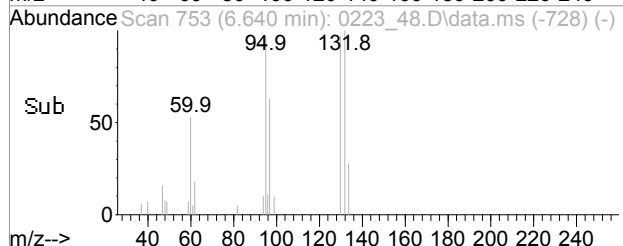
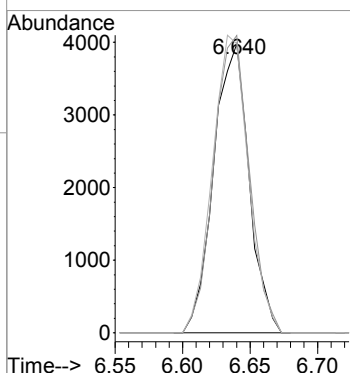
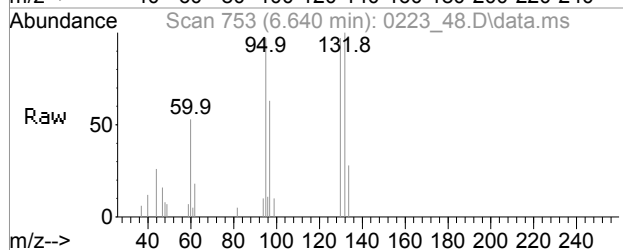
#26
Cis-1,2-Dichloroethene
Concen: 0.70 ppbv
RT: 3.965 min Scan# 368
Delta R.T. 0.020 min
Lab File: 0223_48.D
Acq: 24 Feb 2016 11:46 am

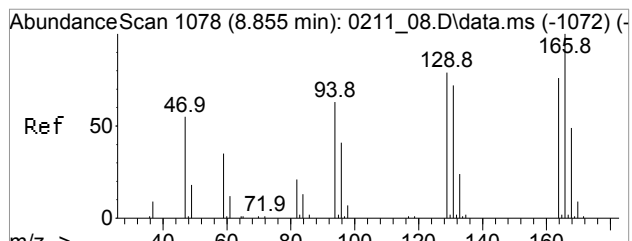
Tgt Ion:	61	Resp:	8535
Ion Ratio	Lower	Upper	
61	100		
96	82.0	55.4	83.0
98	52.5	35.6	53.4



#39
Trichloroethene
Concen: 0.50 ppbv
RT: 6.640 min Scan# 753
Delta R.T. 0.020 min
Lab File: 0223_48.D
Acq: 24 Feb 2016 11:46 am

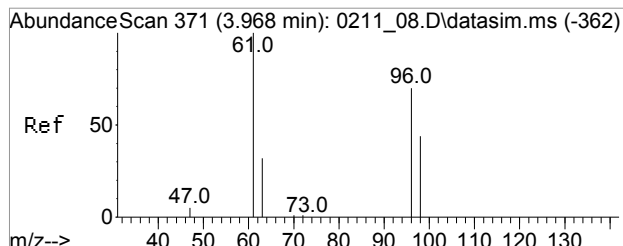
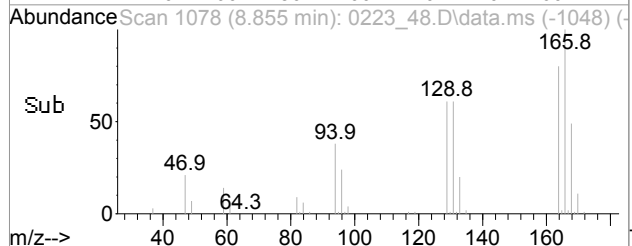
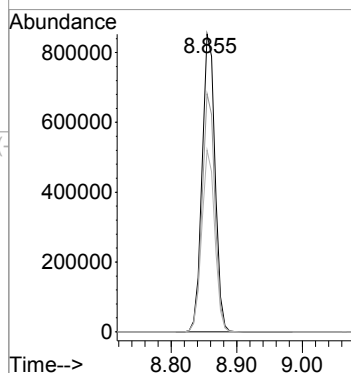
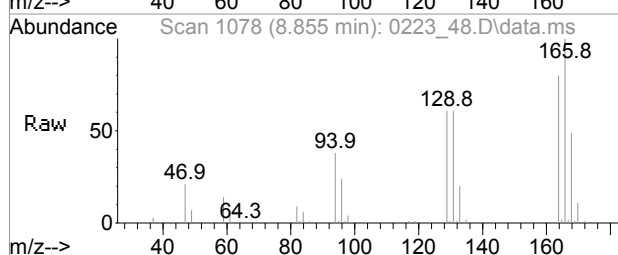
Tgt Ion:	130	Resp:	7209
Ion Ratio	Lower	Upper	
130	100		
132	104.0	77.0	115.6
95	104.9	81.7	122.5





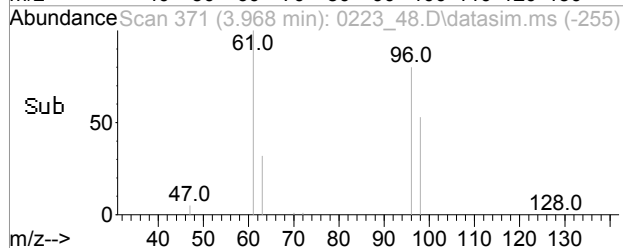
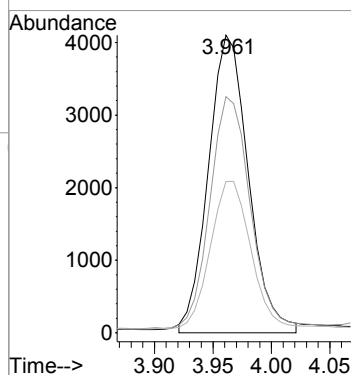
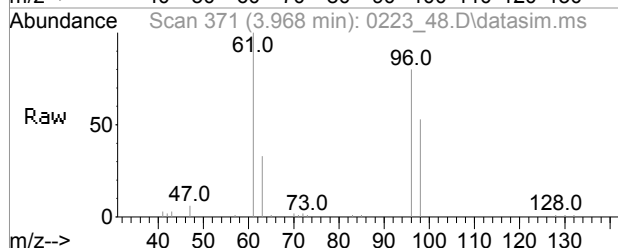
#52
Tetrachloroethene
Concen: 36.62 ppbv
RT: 8.855 min Scan# 1078
Delta R.T. 0.007 min
Lab File: 0223_48.D
Acq: 24 Feb 2016 11:46 am

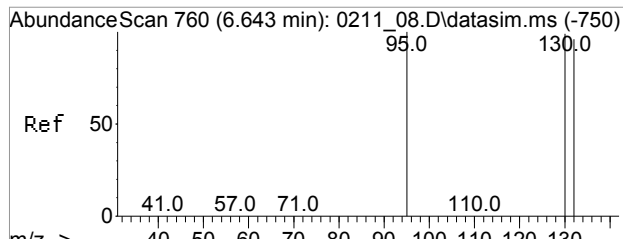
Tgt Ion:166 Resp: 1172024
Ion Ratio Lower Upper
166 100
164 79.2 61.0 91.4
129 61.8 61.1 91.7



#88
Cis-1,2-Dichloroethene(sim)
Concen: 0.66 ppbv
RT: 3.965 min Scan# 371
Delta R.T. 0.020 min
Lab File: 0223_48.D
Acq: 24 Feb 2016 11:46 am

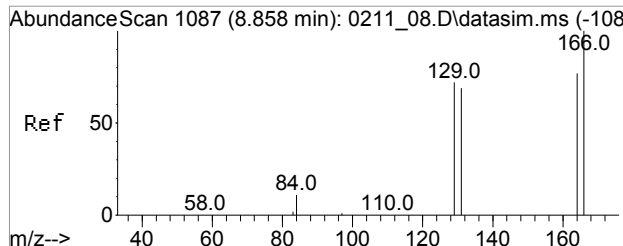
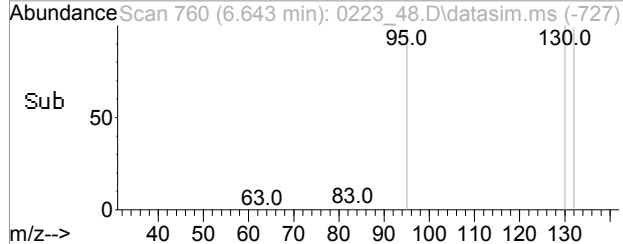
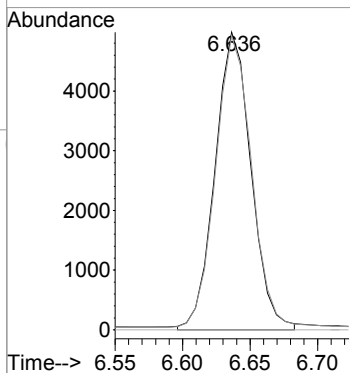
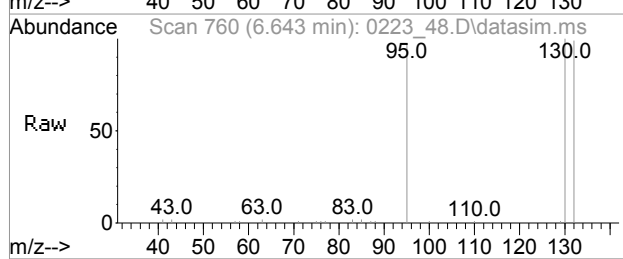
Tgt Ion: 61 Resp: 8535
Ion Ratio Lower Upper
61 100
96 82.0 55.4 83.2
98 52.5 35.6 53.4





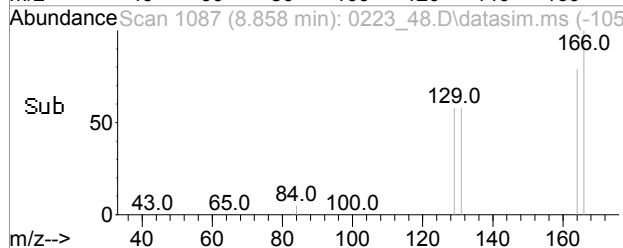
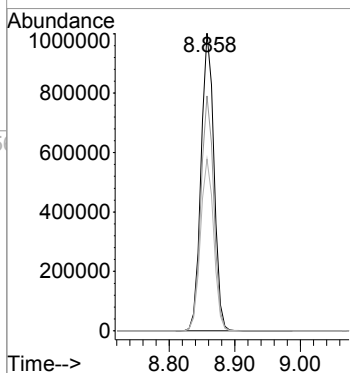
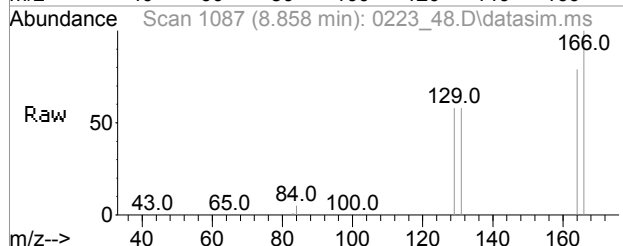
#96
Trichloroethene(sim)
Concen: 0.45 ppbv
RT: 6.640 min Scan# 760
Delta R.T. 0.020 min
Lab File: 0223_48.D
Acq: 24 Feb 2016 11:46 am

Tgt Ion:130 Resp: 7209
Ion Ratio Lower Upper
130 100
132 104.0 77.0 115.6
97 66.0 53.2 79.8



#102
Tetrachloroethene(sim)
Concen: 37.76 ppbv
RT: 8.855 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 0223_48.D
Acq: 24 Feb 2016 11:46 am

Tgt Ion:166 Resp: 1172024
Ion Ratio Lower Upper
166 100
164 79.2 56.3 96.3
129 61.8 56.4 96.4



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-8
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659</u>	
Canister:	<u>223</u>	Lab File ID:	<u>0222_31.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received:
				<u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	12.9		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.591		0.202	0.202	r
74-87-3	Chloromethane	0.760		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	15.5	S	0.531	0.531	r
67-64-1	Acetone	59.0	ES	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.315		0.178	0.178	r
67-63-0	Isopropylalcohol	1.16	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	1.64		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	3.34		0.339	0.339	r
110-54-3	Hexane	2.58	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-55-6	1,1,1-Trichloroethane	1.53		0.183	0.183	r
71-43-2	Benzene	1.55		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	1.61		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.256		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	3.87		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.472		0.037	0.037	r
100-41-4	Ethylbenzene	0.907		0.230	0.230	r
179601-23-1	m,p-Xylene	3.25		0.230	0.230	r
95-47-6	o-Xylene	1.56		0.230	0.230	r
622-96-8	4-Ethyltoluene	0.483		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.825		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.86		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67659
Canister:	223	Lab File ID:	0222_31.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
Matrix:	AIR	Date Analyzed:	02/23/16
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
56-23-5	Carbon Tetrachloride(sim)	0.073		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.072		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.185		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_31.D
 Acq On : 23 Feb 2016 07:03 am
 Operator : CORTEX\ms
 Client ID : SS-8
 Lab ID : BK67659
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 26 08:02:20 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	147084	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	393430	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	196555	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	147084	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	471859	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	209738	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	268084	10.329	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 103.30%		

Target Compounds					Qvalue	
2) Propylene	3.529	41	295075	12.915	ppbv	92
3) Dichlorodifluoromethane	3.608	85	36985	0.591	ppbv#	97
4) Chloromethane	3.767	52	3857	0.760	ppbv#	87
10) Ethanol	4.625	45	72162	15.481	ppbv	98
11) Acetone	5.014	43	1547727	59.111	ppbv	97
12) Trichlorofluoromethane	5.159	101	17411	0.315	ppbv#	97
13) Isopropylalcohol	5.216	45	55296	1.155	ppbv#	64
19) Carbon Disulfide	5.953	76	97115	1.635	ppbv	97
24) Methyl Ethyl Ketone	6.668	43	119756	3.344	ppbv	97
26) Hexane	7.014	57	48456	2.575	ppbv#	66
31) 1,1,1-Trichloroethane	7.559	97	46532	1.534	ppbv	97
32) Benzene	7.786	78	48478	1.545	ppbv	97
33) Carbon Tetrachloride	7.854	117	2195	0.075	ppbv	96
38) Trichloroethene	8.262	130	1075	0.079	ppbv	95
42) Heptane	8.376	43	20571	1.610	ppbv#	86
44) 4-Methyl-2-pentanone(M...	8.649	43	5034	0.256	ppbv#	91
47) Toluene	9.117	91	114568	3.871	ppbv	99
51) Tetrachloroethene	9.687	166	9357	0.472	ppbv	96
55) Ethylbenzene	10.236	91	43627	0.907	ppbv	98
56) m,p-Xylene	10.325	91	117002	3.247	ppbv	99
60) o-Xylene	10.591	91	60517	1.555	ppbv	98
65) 4-Ethyltoluene	11.295	105	25944m	0.483	ppbv	
66) 1,3,5-Trimethylbenzene	11.332	105	36854	0.825	ppbv	98
67) 1,2,4-Trimethylbenzene	11.592	105	117467	2.858	ppbv#	85
72) sec-Butylbenzene	11.592	105	117467	2.149	ppbv#	77
73) 4-Isopropyltoluene	11.851	119	11545m	0.213	ppbv#	
80] Dichlorodifluoromethan...	3.604	85	48664	0.626	ppbv	98
84] Trichlorofluoromethane...	5.161	101	23274	0.330	ppbv	99
86] 1,1,1-Trichloroethane(...	7.561	97	58085	1.551	ppbv#	98
87] Carbon Tetrachloride(sim)	7.854	117	2195	0.073	ppbv	96
89] Carbon Disulfide(sim)	5.953	76	97115	1.626	ppbv	97
95] Benzene(sim)	7.786	78	48478	1.395	ppbv#	97
99] Trichloroethene(sim)	8.265	130	1171m	0.072	ppbv	
105] Tetrachloroethene(sim)	9.687	166	9357	0.472	ppbv	96
110] Ethylbenzene(sim)	10.232	91	48714	0.864	ppbv	98
111] m,p-Xylene(sim)	10.325	91	117002	2.852	ppbv	99
114] o-Xylene(sim)	10.587	91	65777	1.432	ppbv	97
117] 4-Ethyltoluene(sim)	11.291	105	24204m	0.410	ppbv	
118] 1,3,5-Trimethylbenzene...	11.335	105	38957	0.760	ppbv	97
119] 1,2,4-Trimethylbenzene...	11.592	105	117467	2.624	ppbv#	85
125] 4-Isopropyltoluene(sim)	11.851	119	11545	0.184	ppbv#	56

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_31.D
Acq On : 23 Feb 2016 07:03 am
Operator : CORTEX\ms
Client ID : SS-8
Lab ID : BK67659
ALS Vial : 1 Sample Multiplier: 1

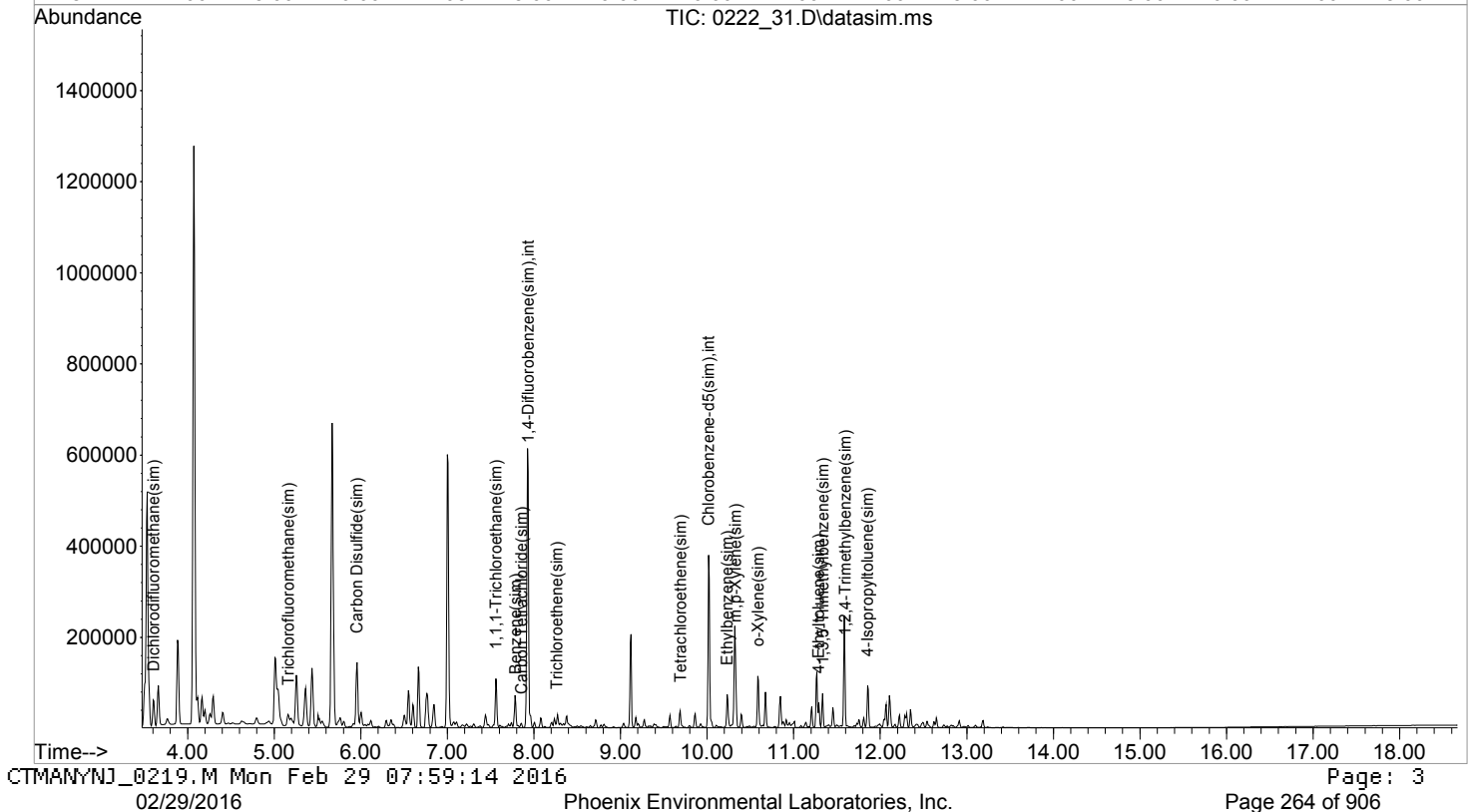
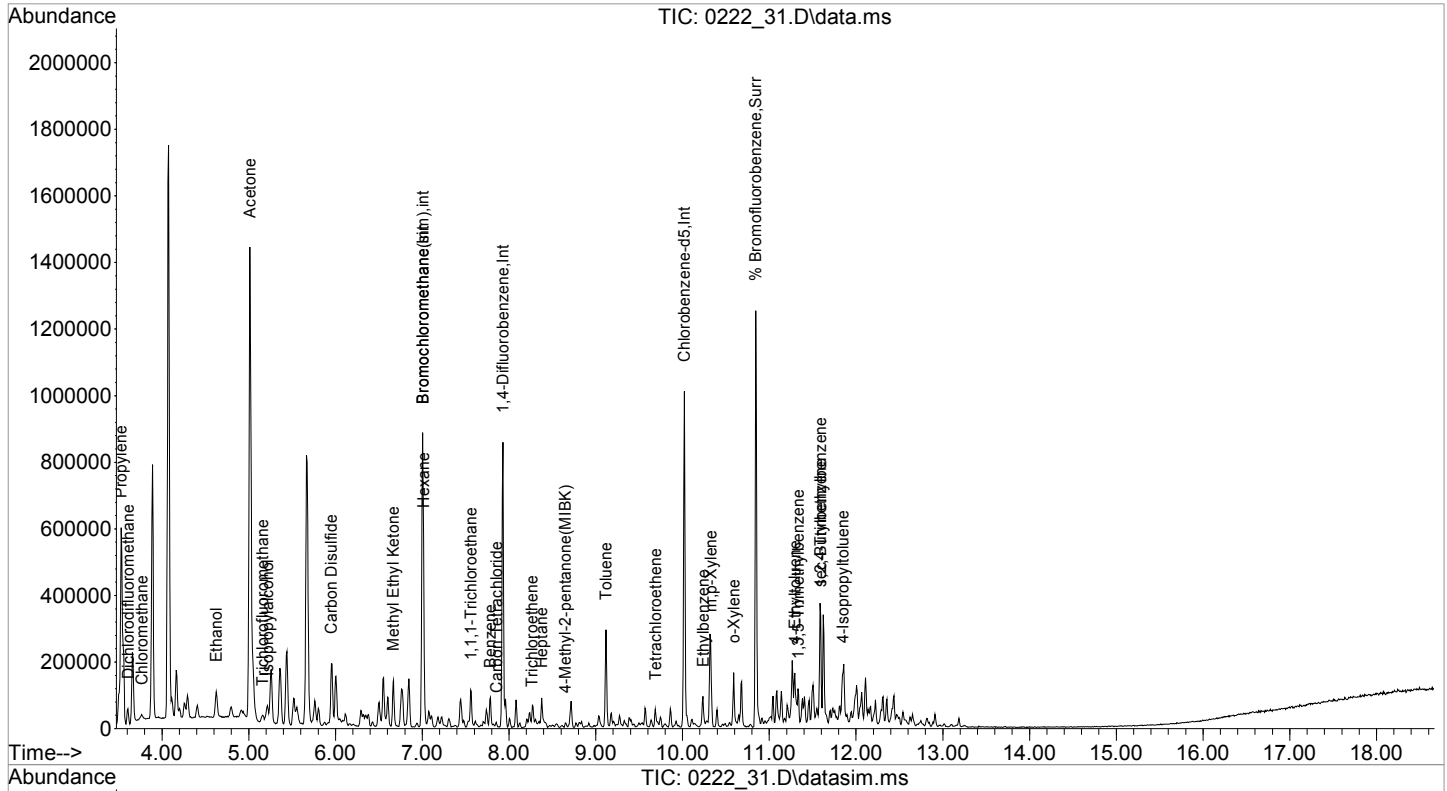
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Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration

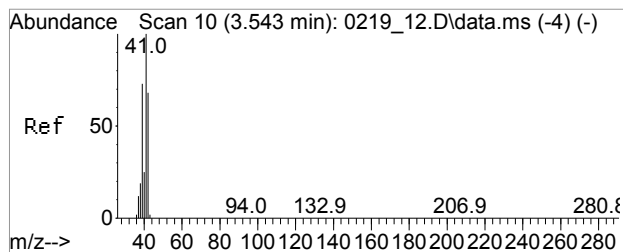
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_31.D
Acq On : 23 Feb 2016 07:03 am
Operator : CORTEX\ms
Client ID : SS-8
Lab ID : BK67659
ALS Vial : 1 Sample Multiplier: 1

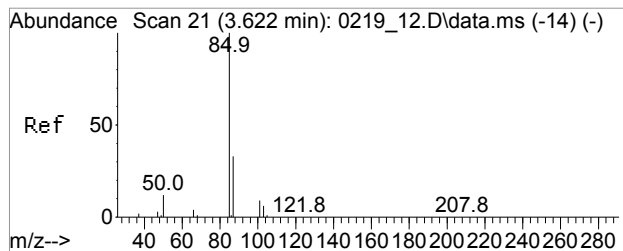
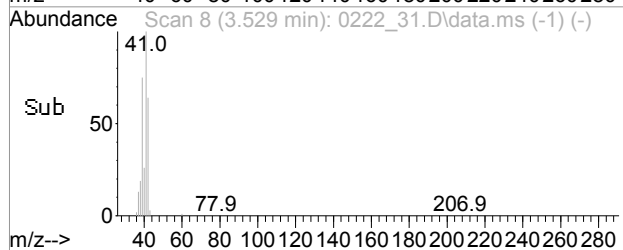
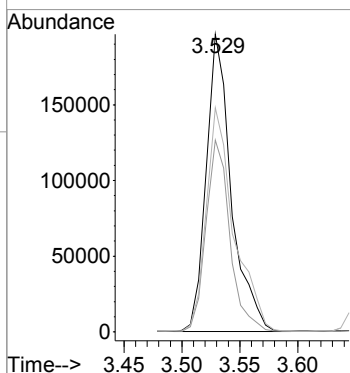
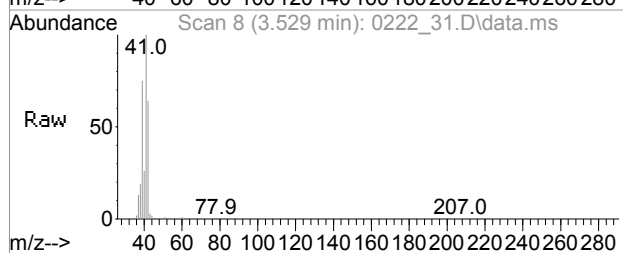
Quant Time: Feb 26 08:02:20 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration





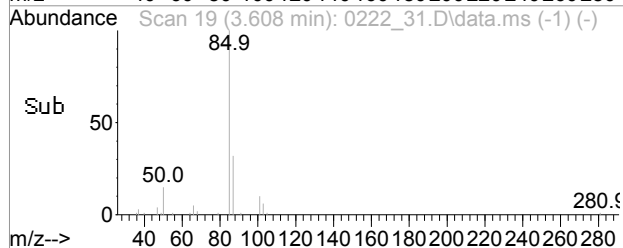
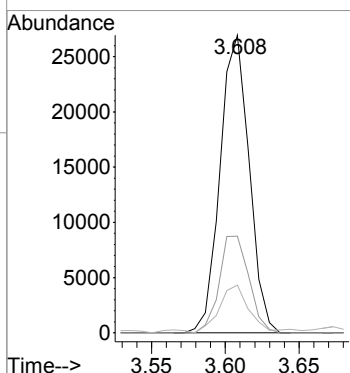
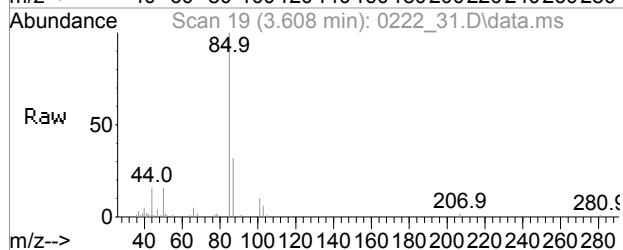
#2
Propylene
Concen: 12.91 ppbv
RT: 3.529 min Scan# 8
Delta R.T. -0.021 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

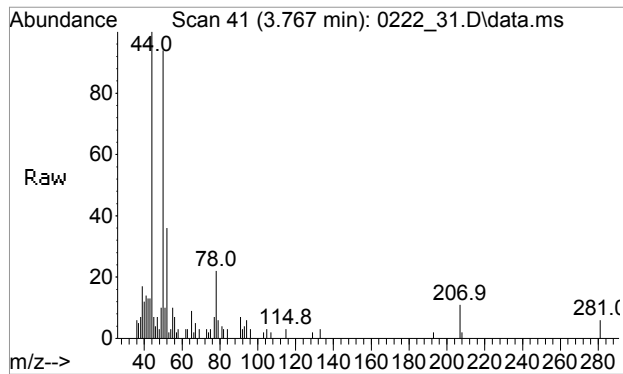
Tgt Ion: 41 Resp: 295075
Ion Ratio Lower Upper
41 100
42 61.1 52.7 79.1
39 82.6 59.1 88.7



#3
Dichlorodifluoromethane
Concen: 0.59 ppbv
RT: 3.608 min Scan# 19
Delta R.T. -0.022 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

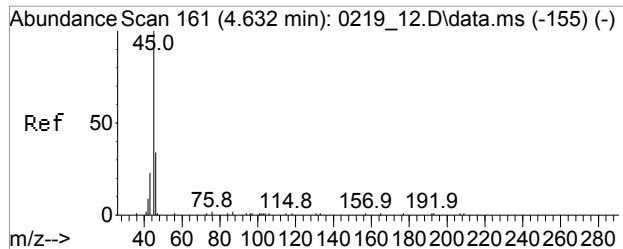
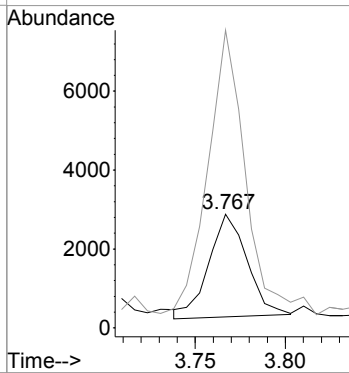
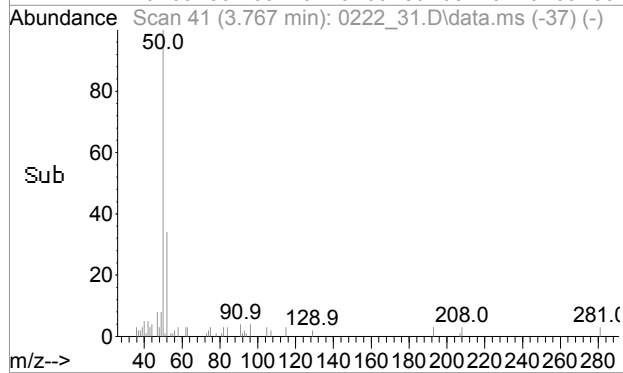
Tgt Ion: 85 Resp: 36985
Ion Ratio Lower Upper
85 100
87 33.1 26.1 39.1
50 16.4 10.5 15.7#





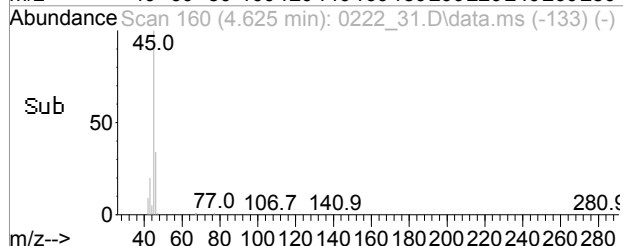
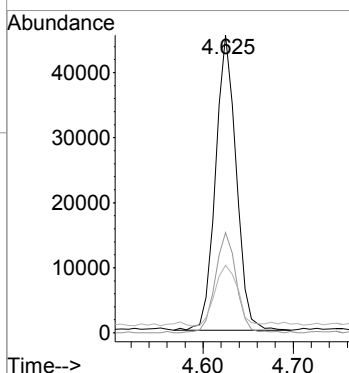
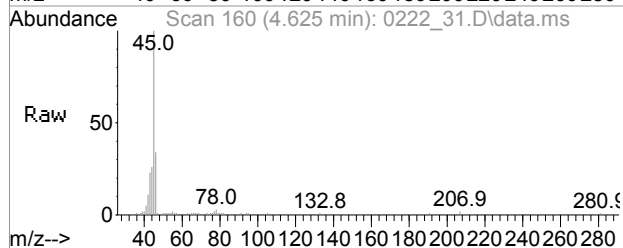
#4
Chloromethane
Concen: 0.76 ppbv
RT: 3.767 min Scan# 41
Delta R.T. -0.021 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

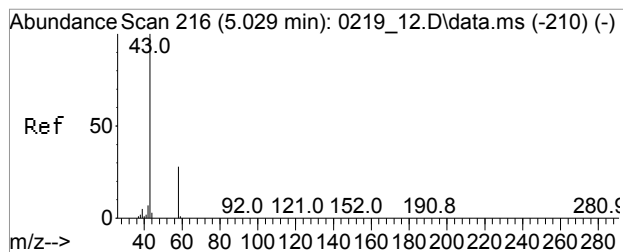
Tgt Ion: 52 Resp: 3857
Ion Ratio Lower Upper
52 100
50 277.8 284.4 324.4#



#10
Ethanol
Concen: 15.48 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

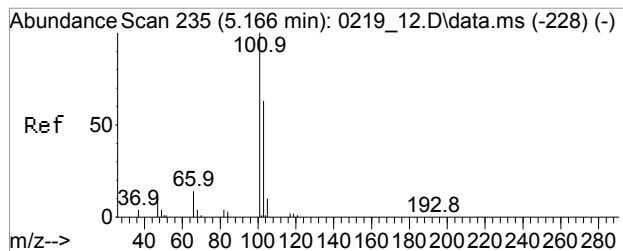
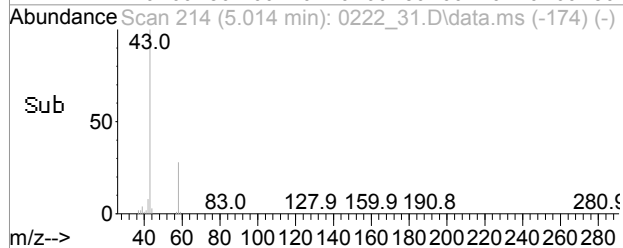
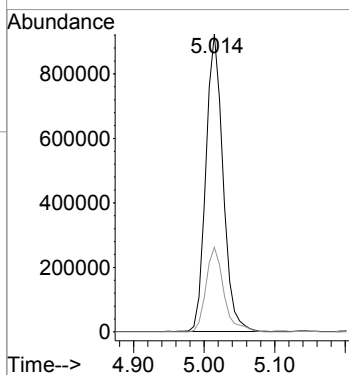
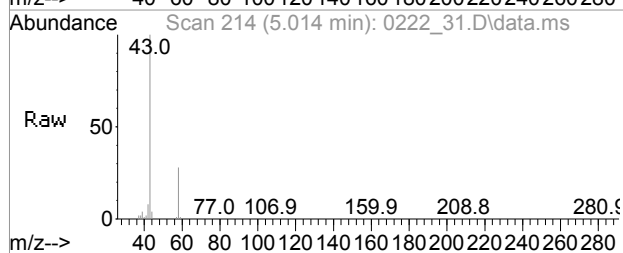
Tgt Ion: 45 Resp: 72162
Ion Ratio Lower Upper
45 100
46 34.9 28.5 42.7
43 22.8 19.7 29.5





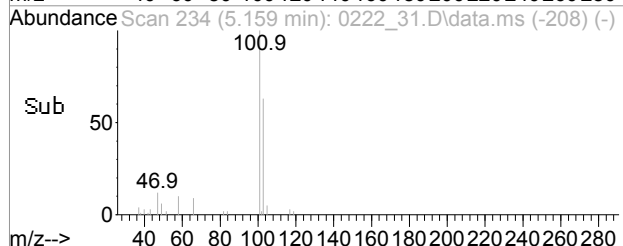
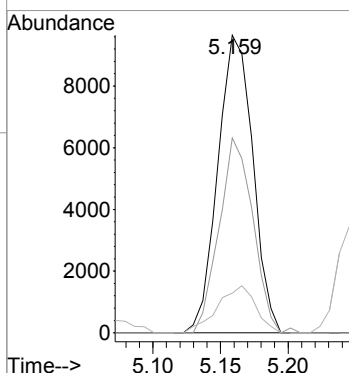
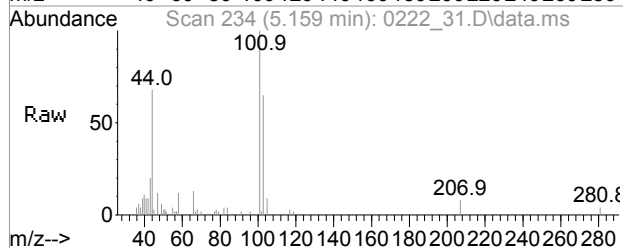
#11
Acetone
Concen: 59.11 ppbv
RT: 5.014 min Scan# 214
Delta R.T. -0.015 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

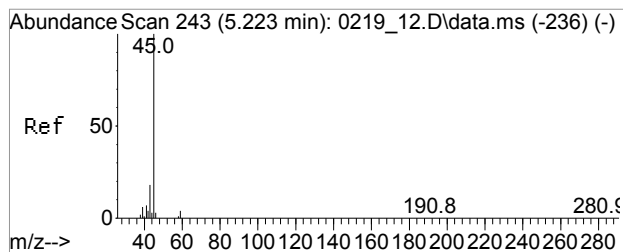
Tgt Ion: 43 Resp: 1547727
Ion Ratio Lower Upper
43 100
58 29.6 24.8 37.2



#12
Trichlorofluoromethane
Concen: 0.31 ppbv
RT: 5.159 min Scan# 234
Delta R.T. -0.014 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

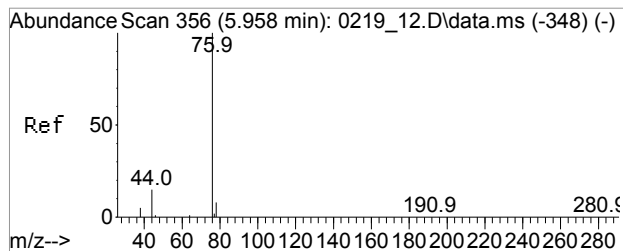
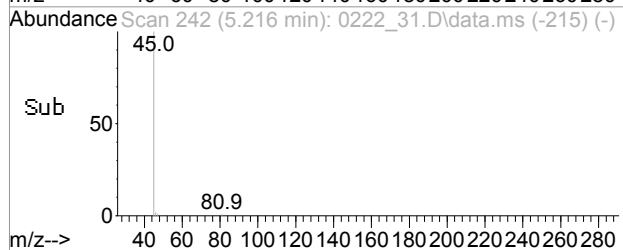
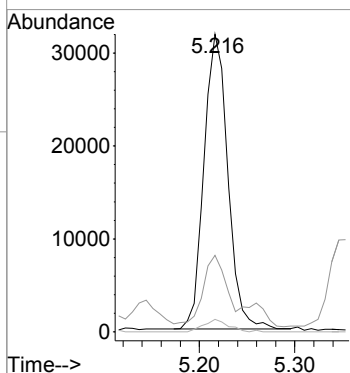
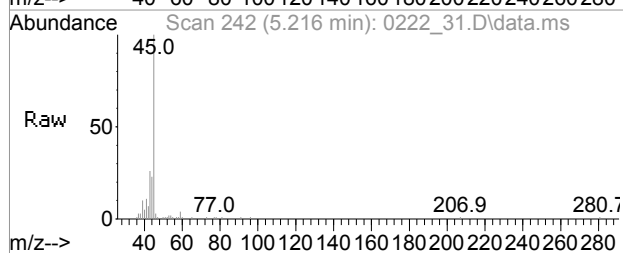
Tgt Ion: 101 Resp: 17411
Ion Ratio Lower Upper
101 100
103 63.4 51.8 77.8
66 17.2 11.1 16.7#





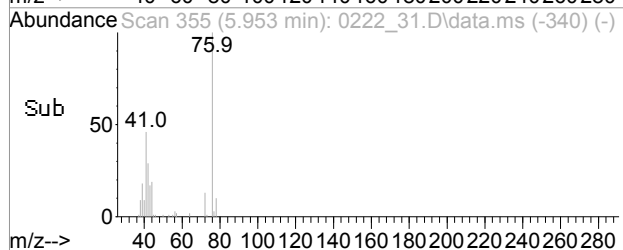
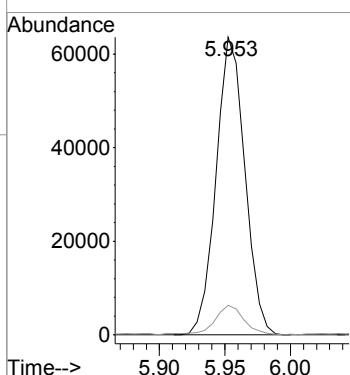
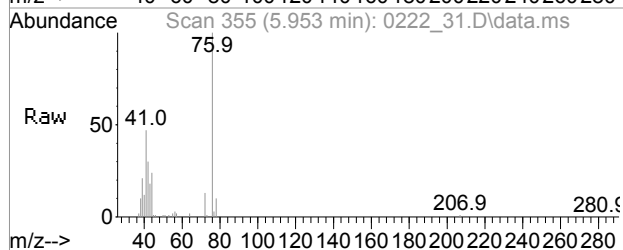
#13
Isopropylalcohol
Concen: 1.15 ppbv
RT: 5.216 min Scan# 242
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

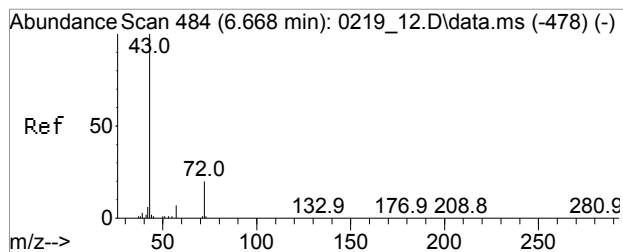
Tgt Ion: 45 Resp: 55296
Ion Ratio Lower Upper
45 100
43 0.0 15.4 23.0#
59 4.3 3.0 4.4



#19
Carbon Disulfide
Concen: 1.64 ppbv
RT: 5.953 min Scan# 355
Delta R.T. -0.011 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

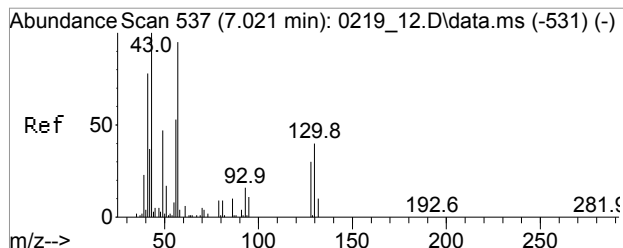
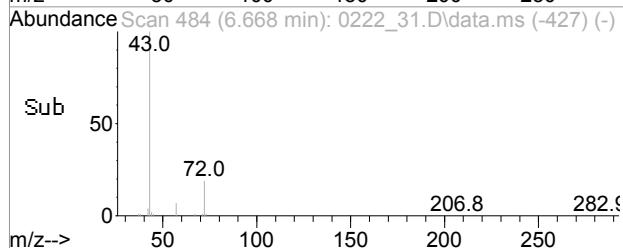
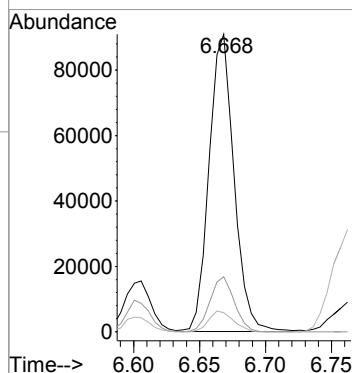
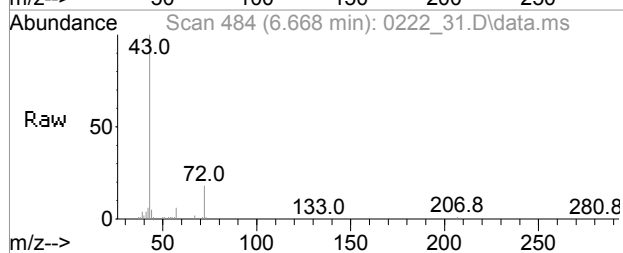
Tgt Ion: 76 Resp: 97115
Ion Ratio Lower Upper
76 100
78 10.3 7.3 10.9





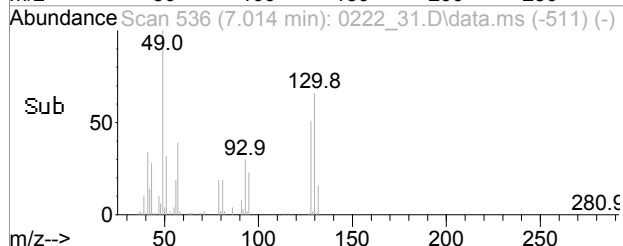
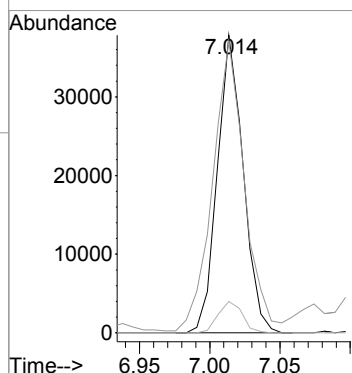
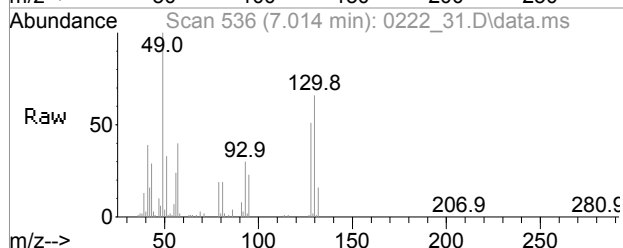
#24
Methyl Ethyl Ketone
Concen: 3.34 ppbv
RT: 6.668 min Scan# 484
Delta R.T. -0.005 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

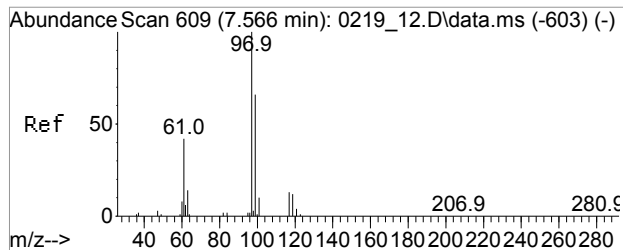
Tgt Ion: 43 Resp: 119756
Ion Ratio Lower Upper
43 100
72 18.1 15.9 23.9
57 6.9 5.6 8.4



#26
Hexane
Concen: 2.58 ppbv
RT: 7.014 min Scan# 536
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

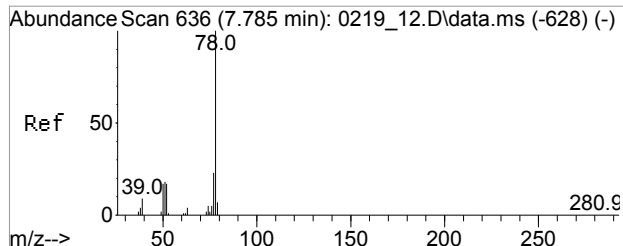
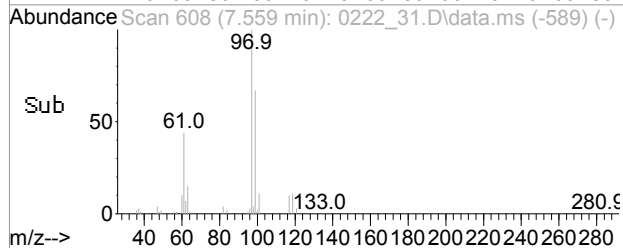
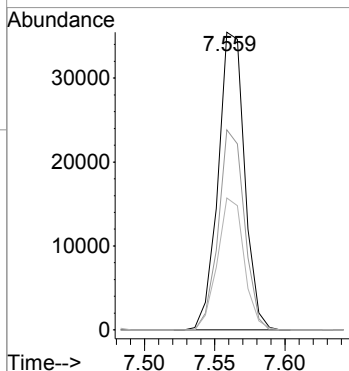
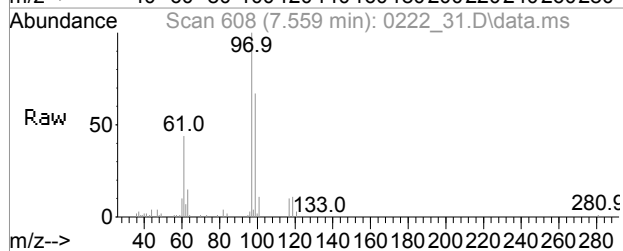
Tgt Ion: 57 Resp: 48456
Ion Ratio Lower Upper
57 100
41 119.0 67.4 101.2#
86 9.9 9.3 13.9





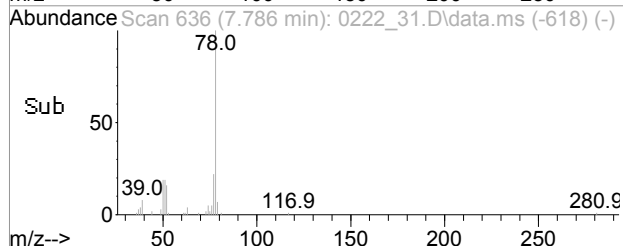
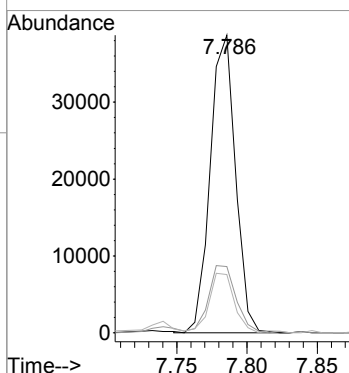
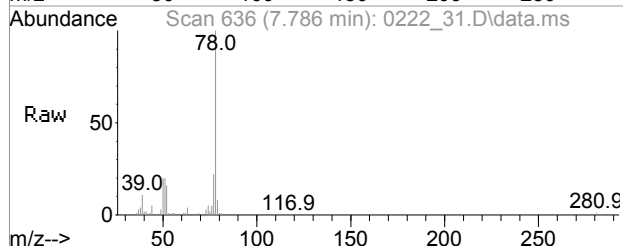
#31
1,1,1-Trichloroethane
Concen: 1.53 ppbv
RT: 7.559 min Scan# 608
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

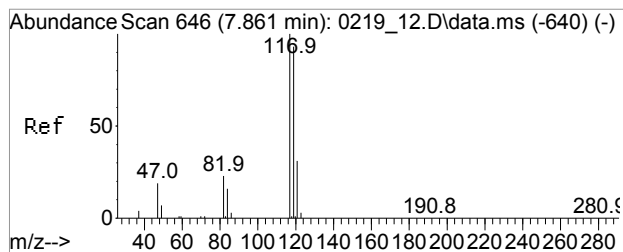
Tgt Ion: 97 Resp: 46532
Ion Ratio Lower Upper
97 100
99 65.8 52.3 78.5
61 44.8 32.9 49.3



#32
Benzene
Concen: 1.55 ppbv
RT: 7.786 min Scan# 636
Delta R.T. 0.001 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

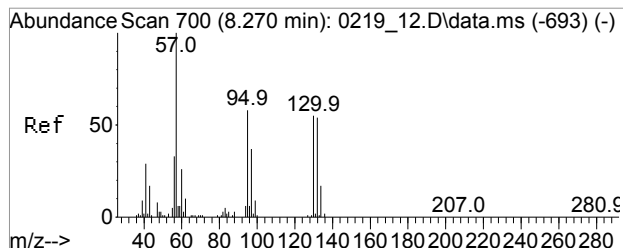
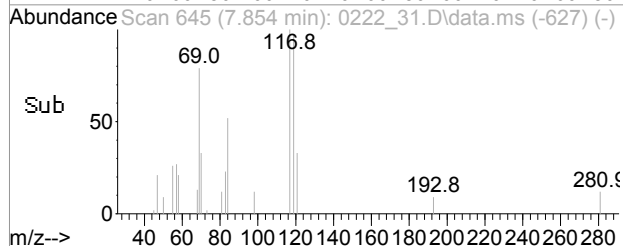
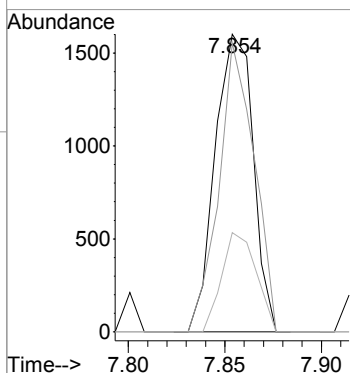
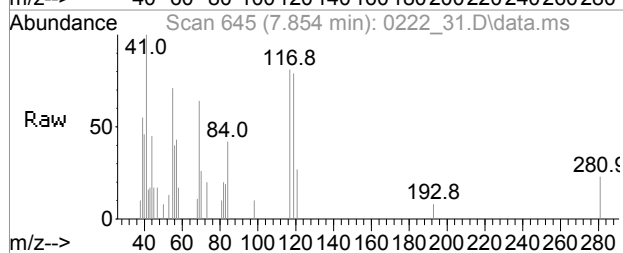
Tgt Ion: 78 Resp: 48478
Ion Ratio Lower Upper
78 100
77 24.5 18.6 27.8
51 20.4 14.9 22.3





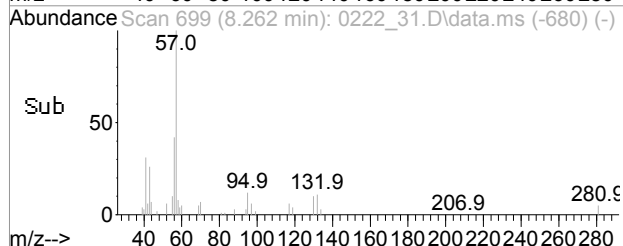
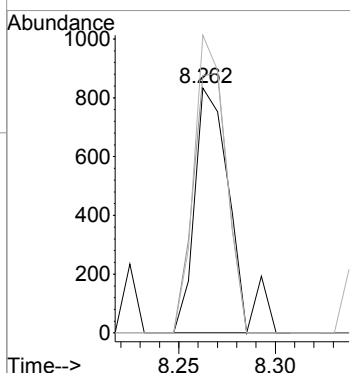
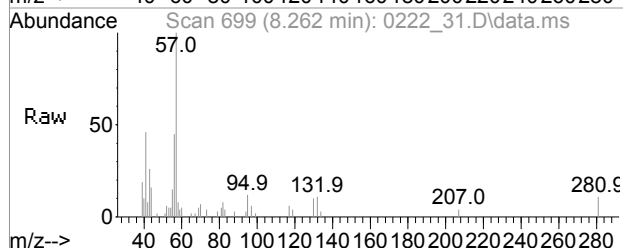
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

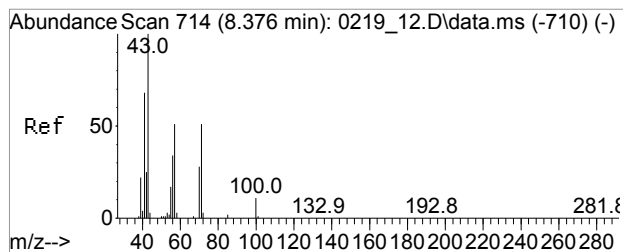
Tgt Ion: 117 Resp: 2195
Ion Ratio Lower Upper
117 100
119 90.4 75.9 115.9
121 30.3 10.8 50.8



#38
Trichloroethene
Concen: Below Cal
RT: 8.262 min Scan# 699
Delta R.T. -0.008 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

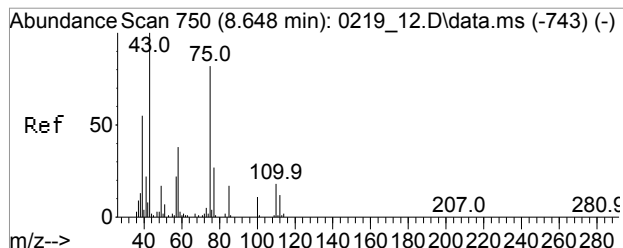
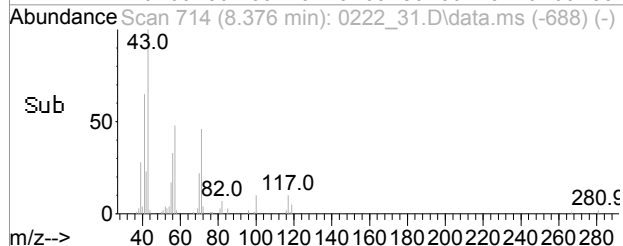
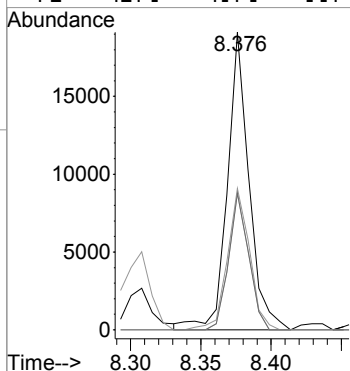
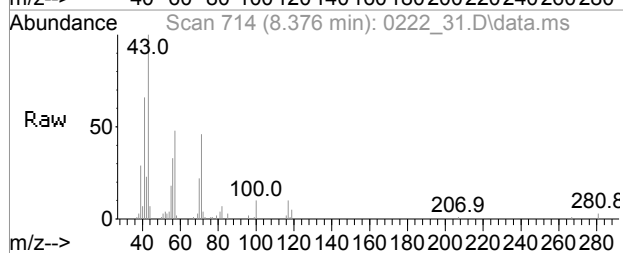
Tgt Ion: 130 Resp: 1075
Ion Ratio Lower Upper
130 100
132 102.5 77.2 115.8
95 107.7 82.7 124.1





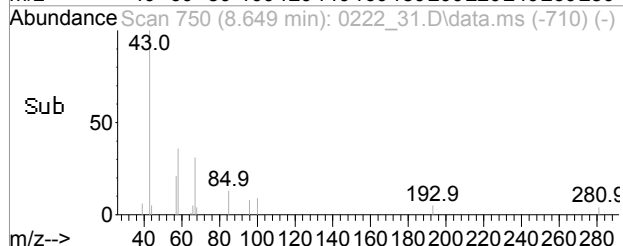
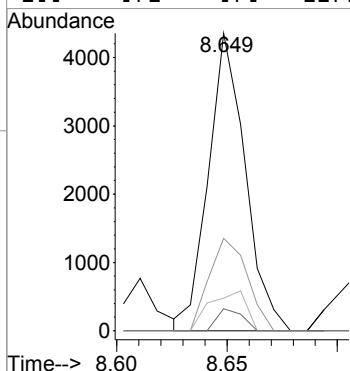
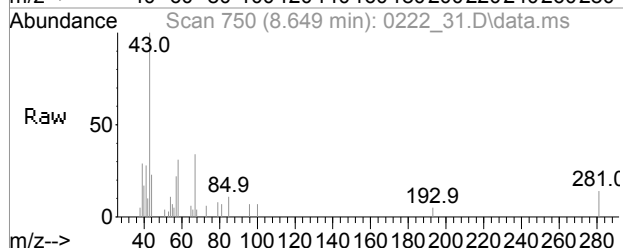
#42
Heptane
Concen: 1.61 ppbv
RT: 8.376 min Scan# 714
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

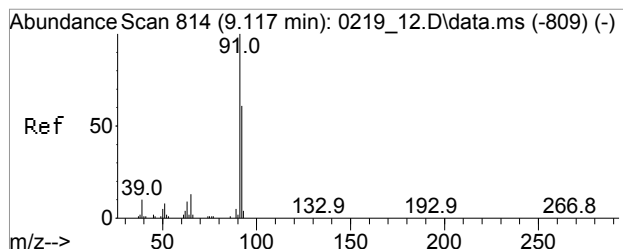
Tgt Ion: 43 Resp: 20571
Ion Ratio Lower Upper
43 100
57 48.5 43.0 64.4
71 42.3 43.6 65.4#
71 42.3 43.6 65.4#



#44
4-Methyl-2-pentanone(MIBK)
Concen: 0.26 ppbv
RT: 8.649 min Scan# 750
Delta R.T. 0.001 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

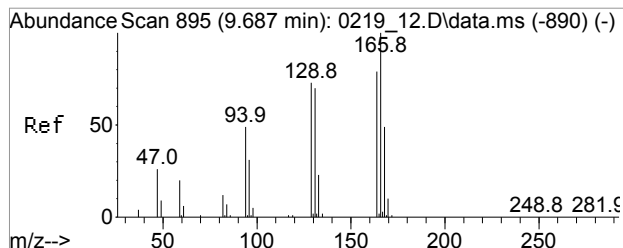
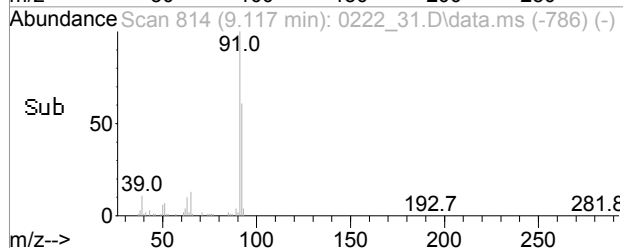
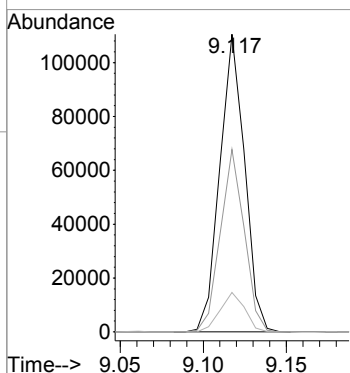
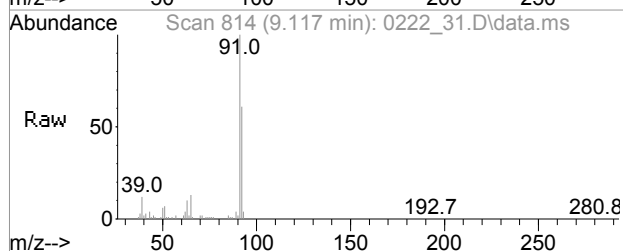
Tgt Ion: 43 Resp: 5034
Ion Ratio Lower Upper
43 100
58 32.2 29.4 44.2
85 13.3 13.4 20.0#
100 5.1 8.0 12.0#





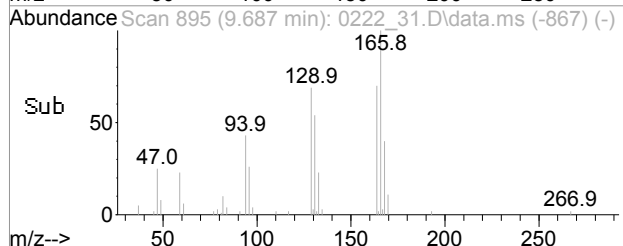
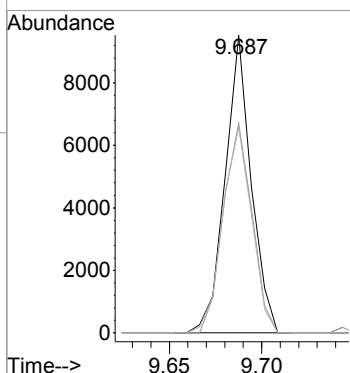
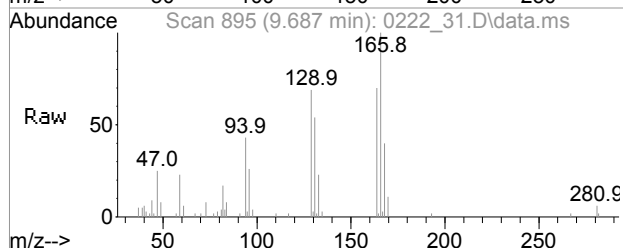
#47
Toluene
Concen: 3.87 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

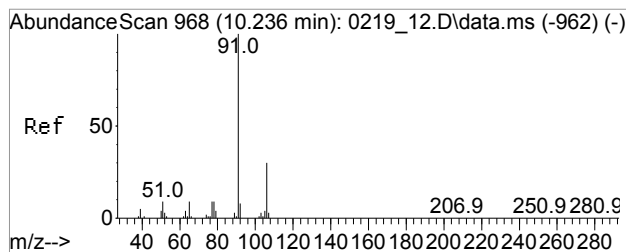
Tgt Ion: 91 Resp: 114568
Ion Ratio Lower Upper
91 100
92 59.2 47.7 71.5
65 13.2 9.5 14.3



#51
Tetrachloroethene
Concen: 0.47 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

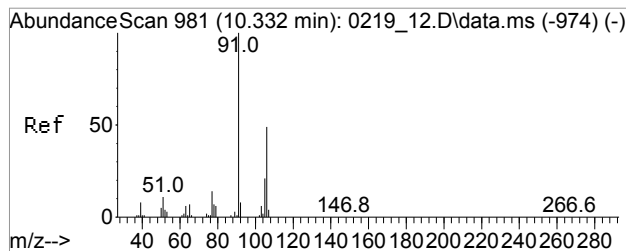
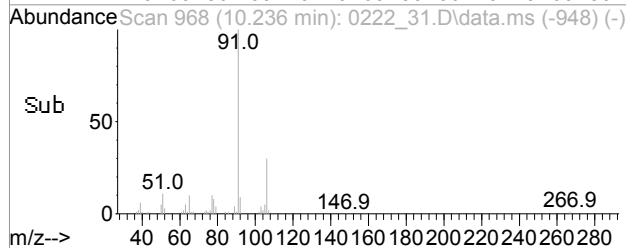
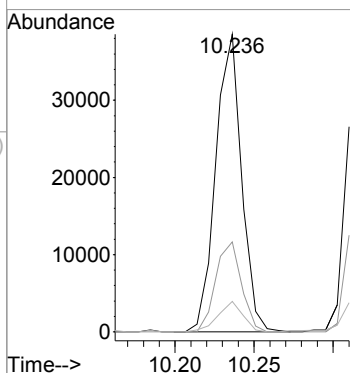
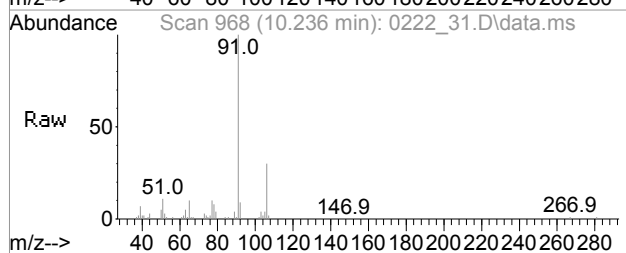
Tgt Ion: 166 Resp: 9357
Ion Ratio Lower Upper
166 100
164 77.5 62.2 93.4
129 76.8 56.6 84.8





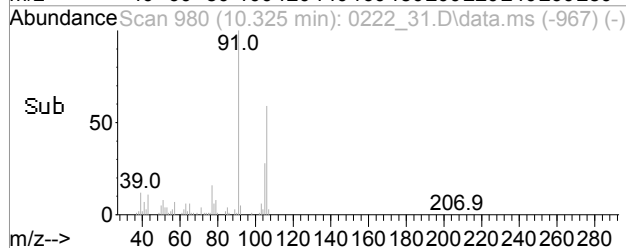
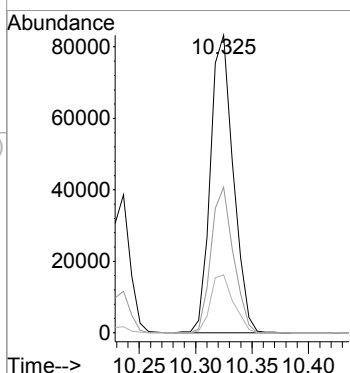
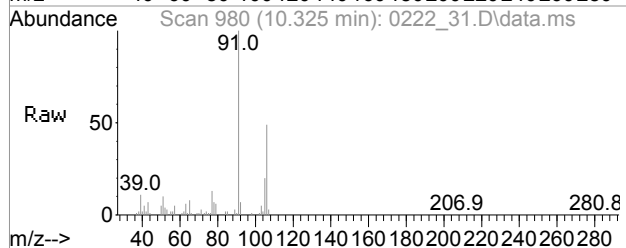
#55
Ethylbenzene
Concen: 0.91 ppbv
RT: 10.236 min Scan# 968
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

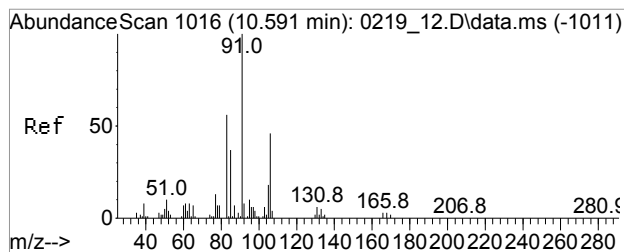
Tgt Ion: 91 Resp: 43627
Ion Ratio Lower Upper
91 100
106 30.2 10.8 50.8
77 9.9 0.0 28.9



#56
m,p-Xylene
Concen: 3.25 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

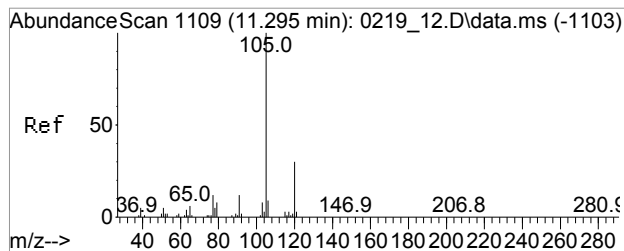
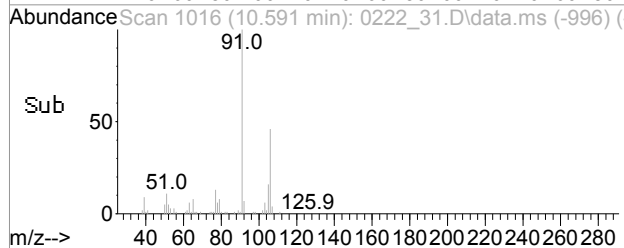
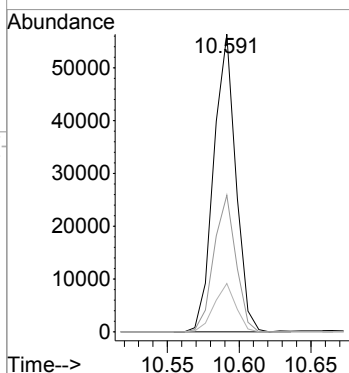
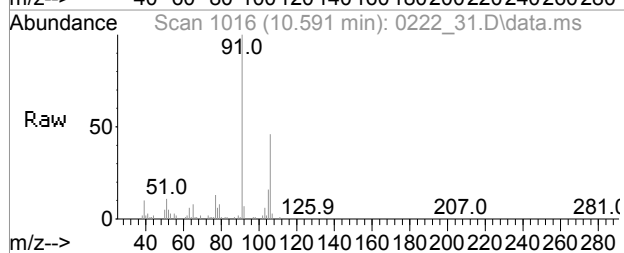
Tgt Ion: 91 Resp: 117002
Ion Ratio Lower Upper
91 100
106 47.7 38.7 58.1
105 19.7 16.6 25.0





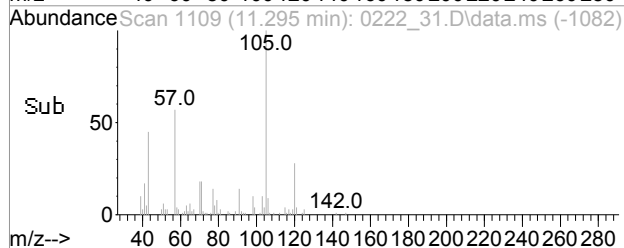
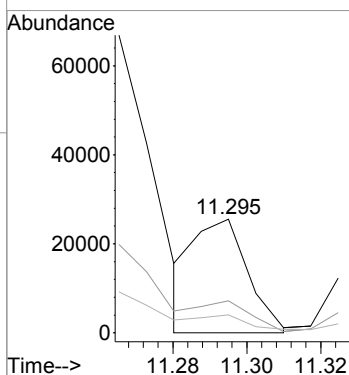
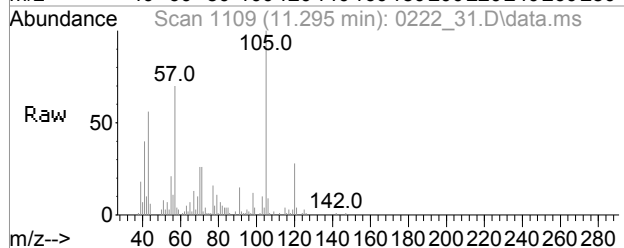
#60
o-Xylene
Concen: 1.56 ppbv
RT: 10.591 min Scan# 1016
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

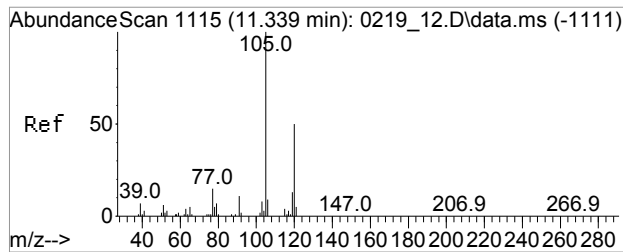
Tgt Ion: 91 Resp: 60517
Ion Ratio Lower Upper
91 100
106 45.8 37.4 56.2
105 16.0 14.1 21.1



#65
4-Ethyltoluene
Concen: 0.48 ppbv m
RT: 11.295 min Scan# 1109
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

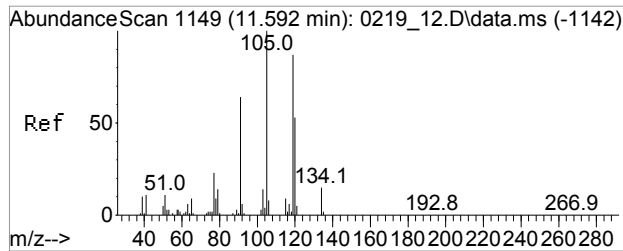
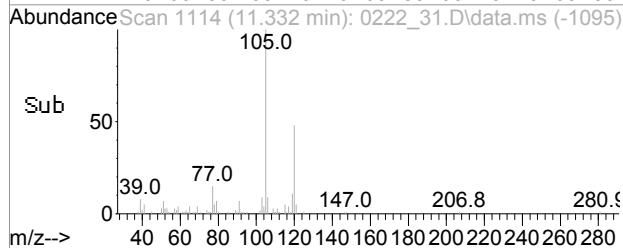
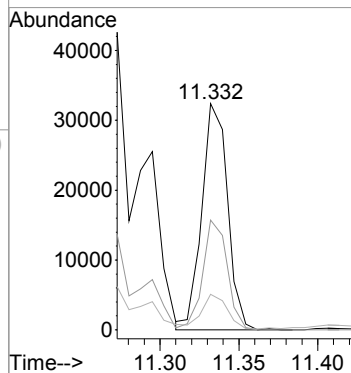
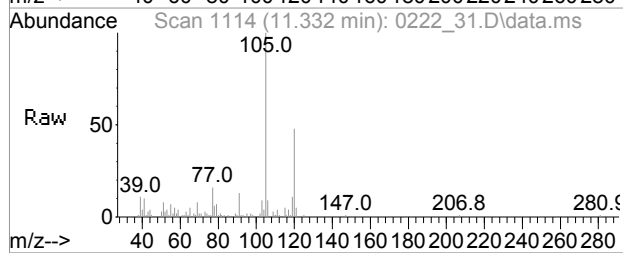
Tgt Ion: 105 Resp: 25944
Ion Ratio Lower Upper
105 100
120 114.6 23.3 34.9#
77 55.0 10.0 15.0#





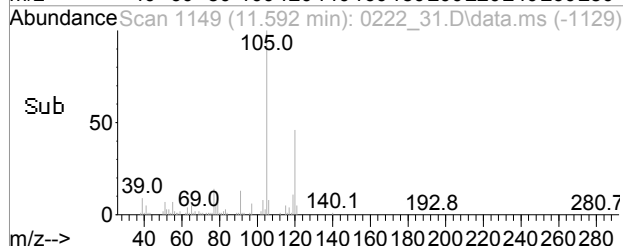
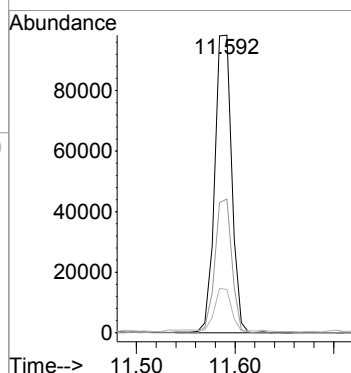
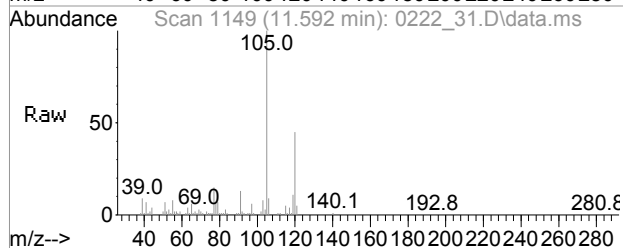
#66
1,3,5-Trimethylbenzene
Concen: 0.83 ppbv
RT: 11.332 min Scan# 1114
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

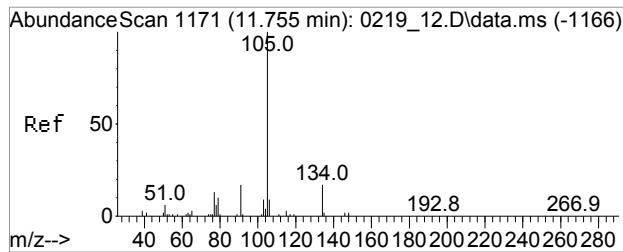
Tgt Ion:105 Resp: 36854
Ion Ratio Lower Upper
105 100
120 46.2 38.6 57.8
77 14.4 11.3 16.9



#67
1,2,4-Trimethylbenzene
Concen: 2.86 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

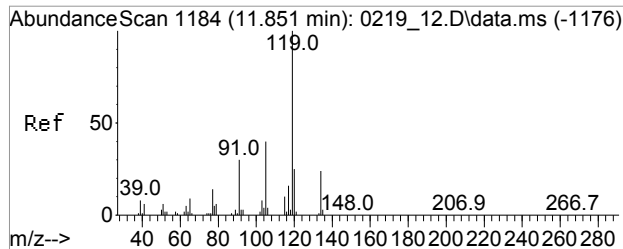
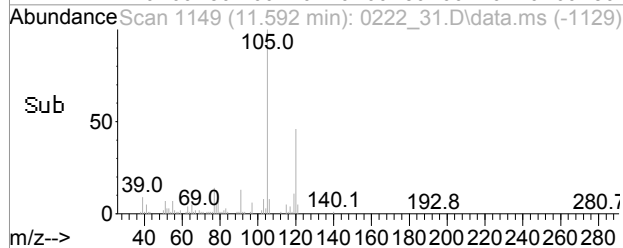
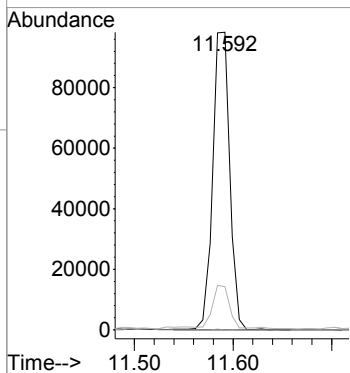
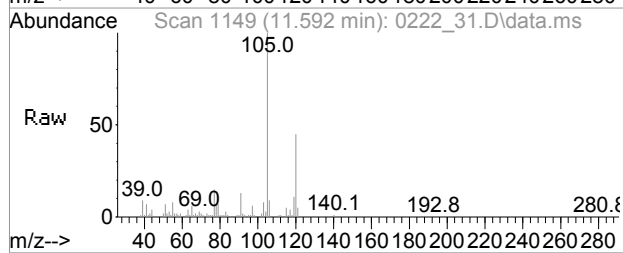
Tgt Ion:105 Resp: 117467
Ion Ratio Lower Upper
105 100
120 44.8 43.5 65.3
77 15.2 20.2 30.4#





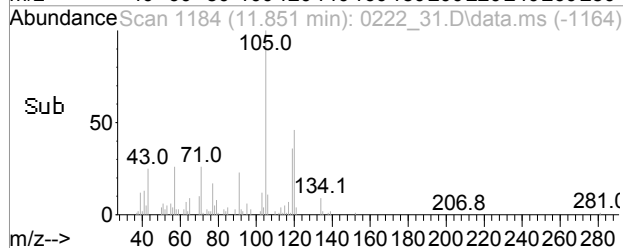
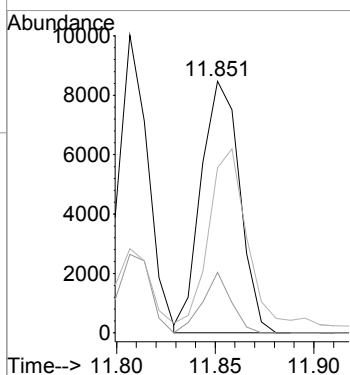
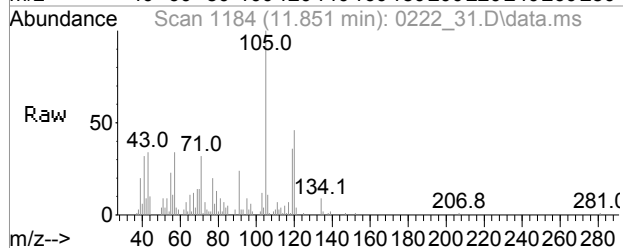
#72
 sec-Butylbenzene
 Concen: 2.15 ppbv
 RT: 11.592 min Scan# 1149
 Delta R.T. 0.001 min
 Lab File: 0222_31.D
 Acq: 23 Feb 2016 07:03 am

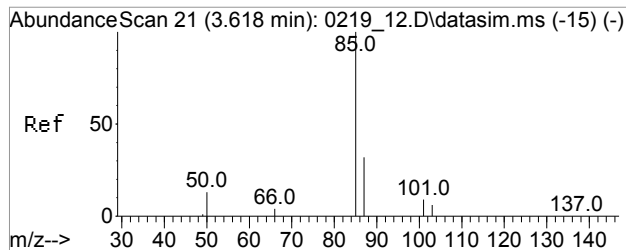
Tgt Ion:105 Resp: 117467
 Ion Ratio Lower Upper
 105 100
 134 0.1 13.7 20.5#
 77 15.2 11.0 16.4



#73
 4-Isopropyltoluene
 Concen: 0.21 ppbv m
 RT: 11.851 min Scan# 1184
 Delta R.T. 0.000 min
 Lab File: 0222_31.D
 Acq: 23 Feb 2016 07:03 am

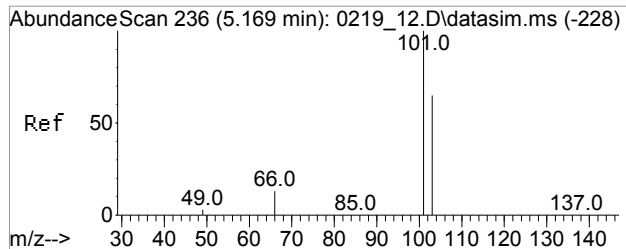
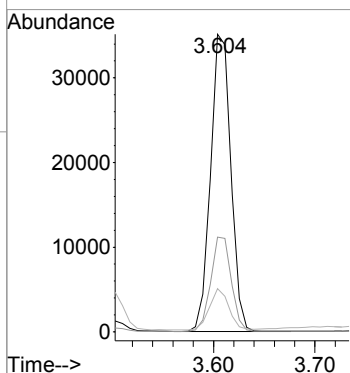
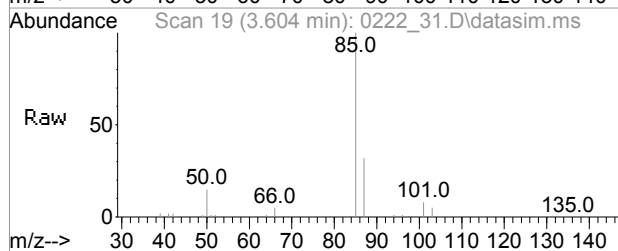
Tgt Ion:119 Resp: 11545
 Ion Ratio Lower Upper
 119 100
 134 17.8 18.2 27.4#
 91 71.7 25.8 38.8#





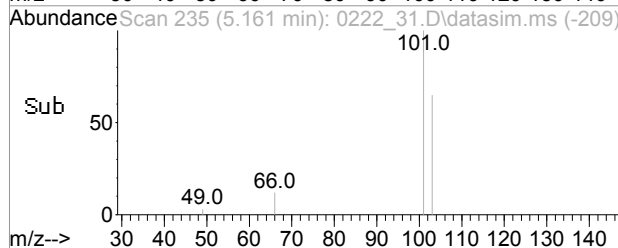
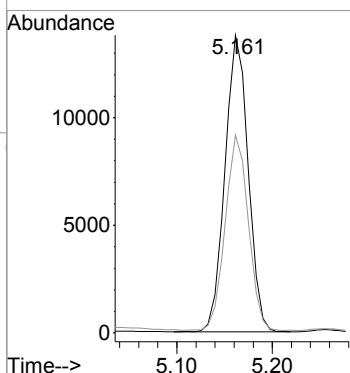
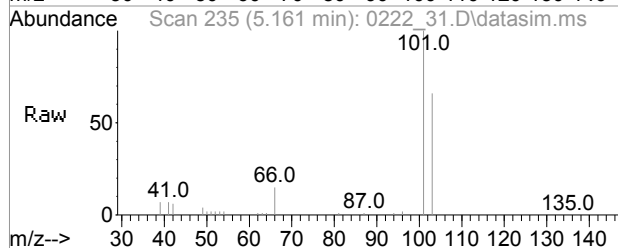
#80
Dichlorodifluoromethane(sim)
Concen: 0.63 ppbv
RT: 3.604 min Scan# 19
Delta R.T. -0.021 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

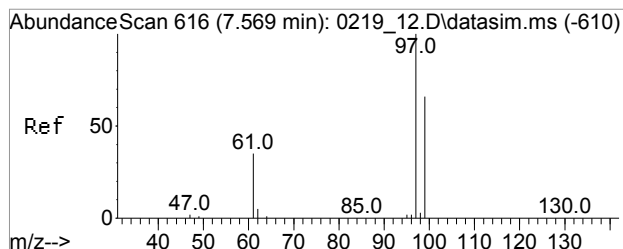
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.0	12.7	52.7
50	13.2	0.0	32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.33 ppbv
RT: 5.161 min Scan# 235
Delta R.T. -0.015 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

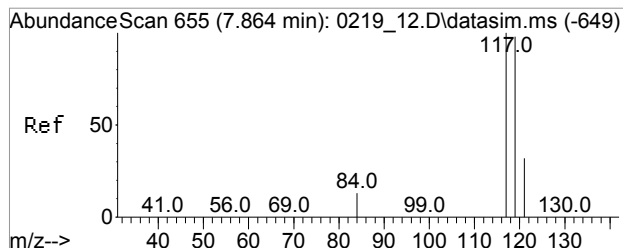
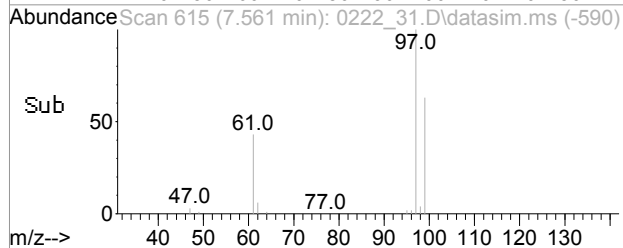
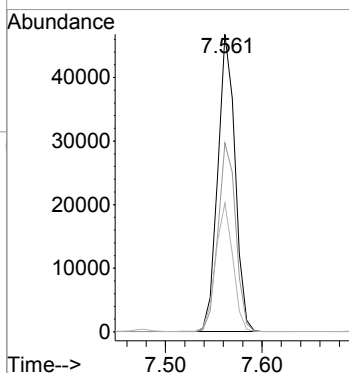
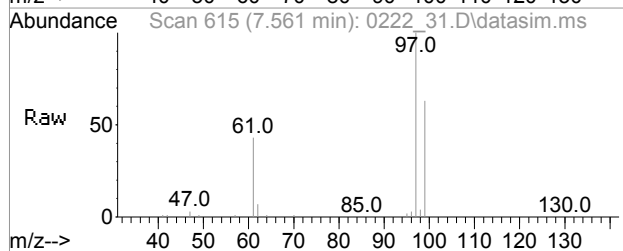
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.0	78.0





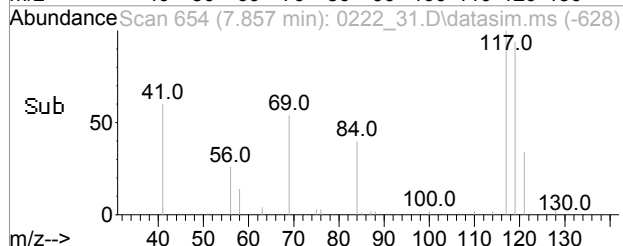
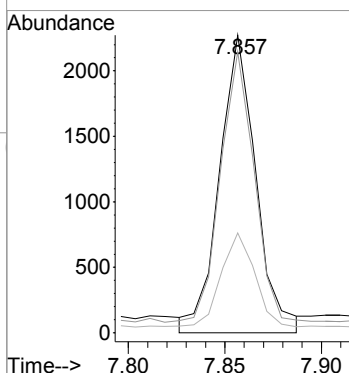
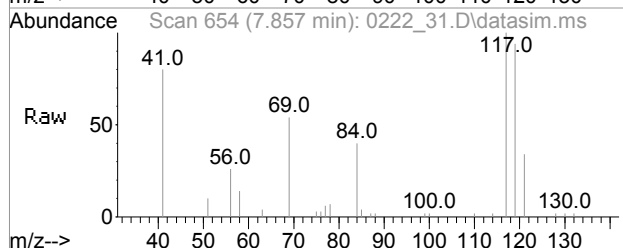
#86
1,1,1-Trichloroethane(sim)
Concen: 1.55 ppbv
RT: 7.561 min Scan# 615
Delta R.T. -0.008 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

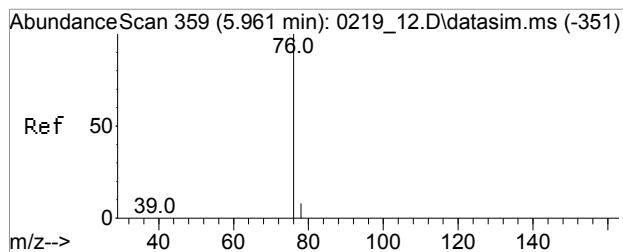
Tgt Ion: 97 Resp: 58085
Ion Ratio Lower Upper
97 100
99 65.0 65.2 65.2#
61 42.9 32.1 48.1



#87
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

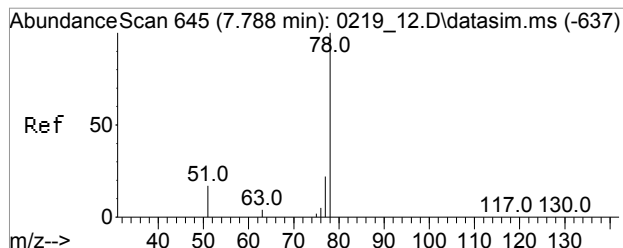
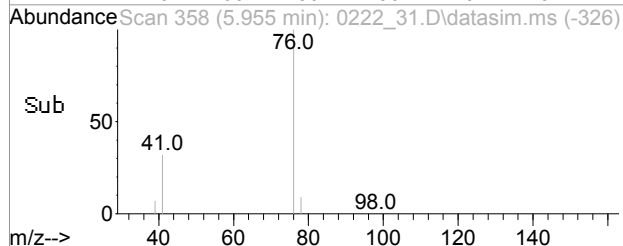
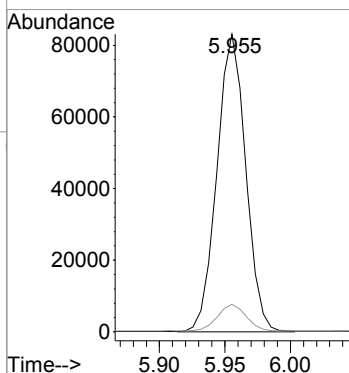
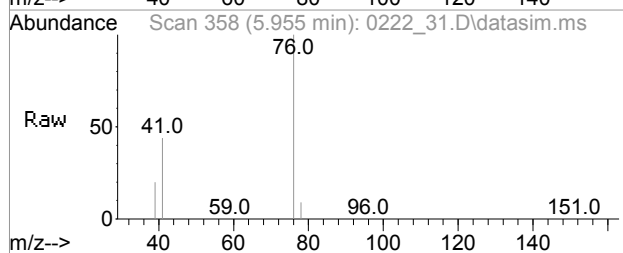
Tgt Ion: 117 Resp: 2195
Ion Ratio Lower Upper
117 100
119 90.4 76.7 115.1
121 30.3 24.6 37.0





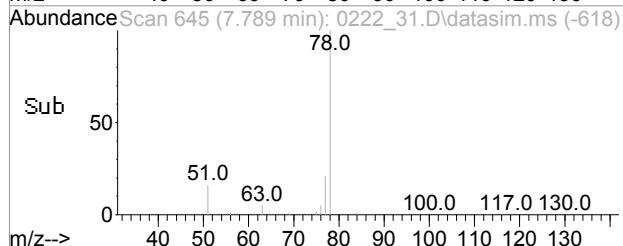
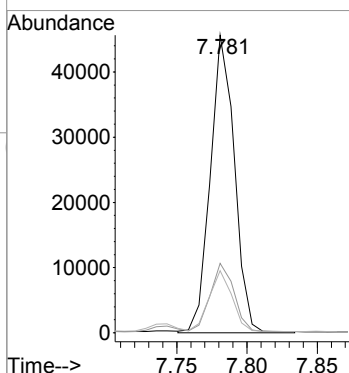
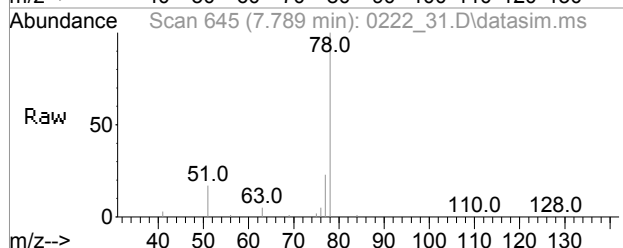
#89
Carbon Disulfide(sim)
Concen: 1.63 ppbv
RT: 5.953 min Scan# 358
Delta R.T. -0.011 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

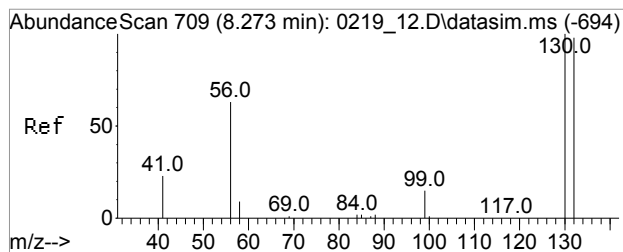
Tgt Ion: 76 Resp: 97115
Ion Ratio Lower Upper
76 100
78 10.3 7.3 10.9



#95
Benzene(sim)
Concen: 1.39 ppbv
RT: 7.786 min Scan# 645
Delta R.T. 0.001 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

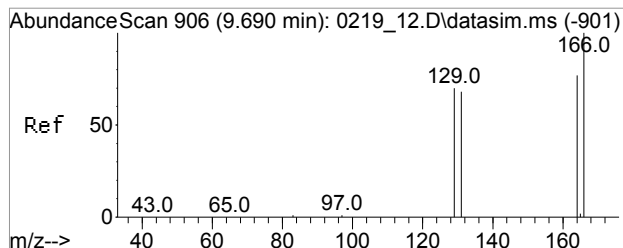
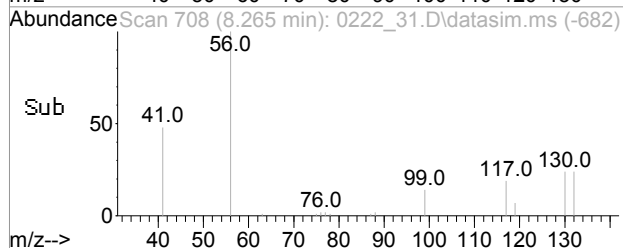
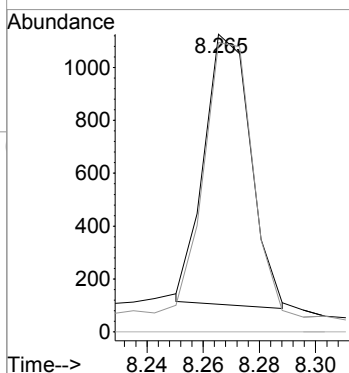
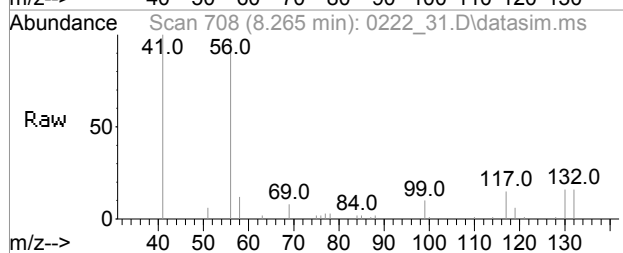
Tgt Ion: 78 Resp: 48478
Ion Ratio Lower Upper
78 100
77 24.5 22.0 24.4#
51 20.4 14.9 22.3





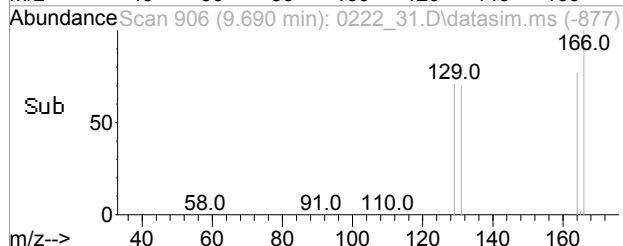
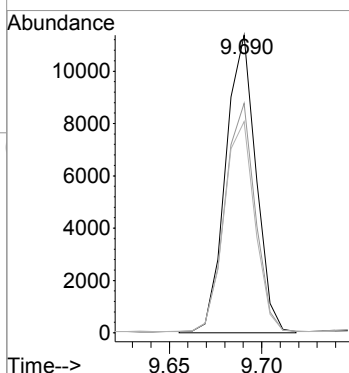
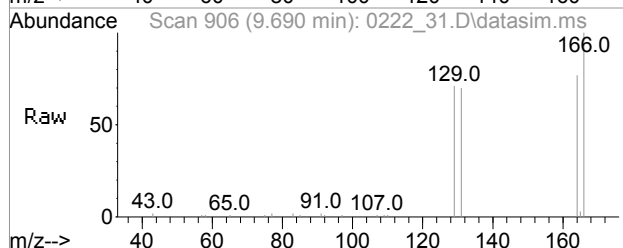
#99
Trichloroethene(sim)
Concen: 0.07 ppbv m
RT: 8.265 min Scan# 708
Delta R.T. -0.005 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

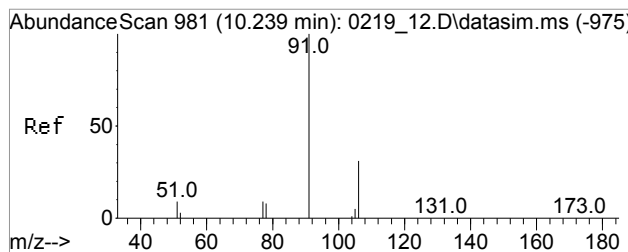
Tgt Ion:130 Resp: 1171
Ion Ratio Lower Upper
130 100
132 94.1 77.2 115.8
97 64.9 53.5 80.3



#105
Tetrachloroethene(sim)
Concen: 0.47 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

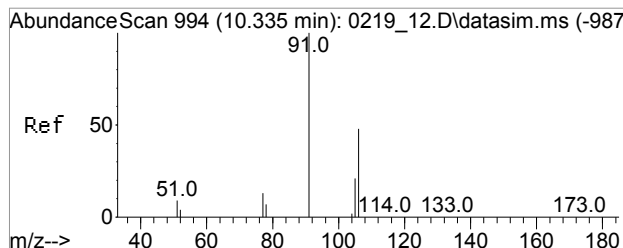
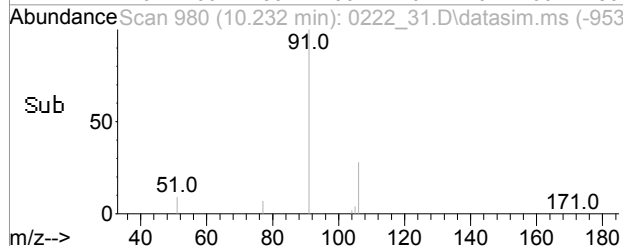
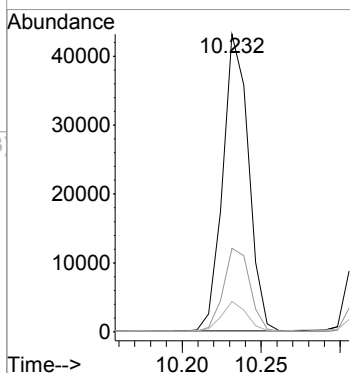
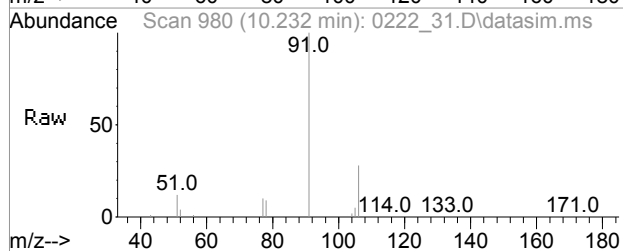
Tgt Ion:166 Resp: 9357
Ion Ratio Lower Upper
166 100
164 78.5 57.8 97.8
129 76.8 50.7 90.7





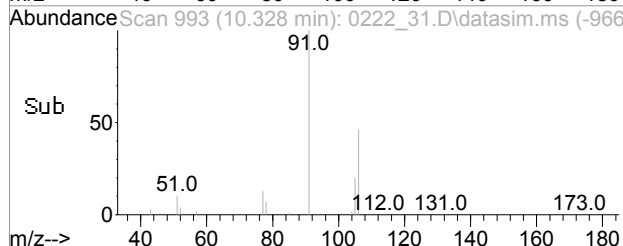
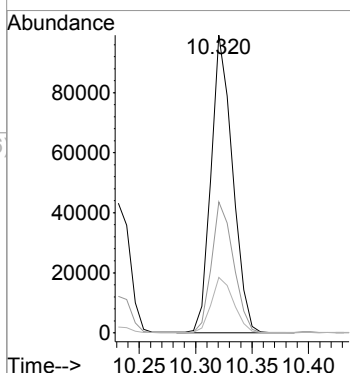
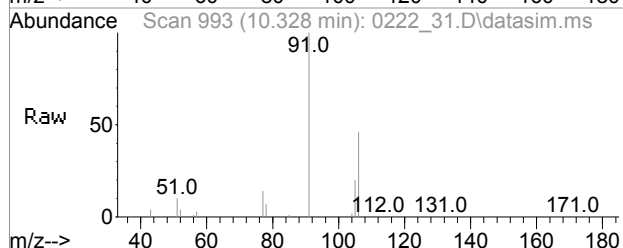
#110
Ethylbenzene(sim)
Concen: 0.86 ppbv
RT: 10.232 min Scan# 980
Delta R.T. 0.001 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

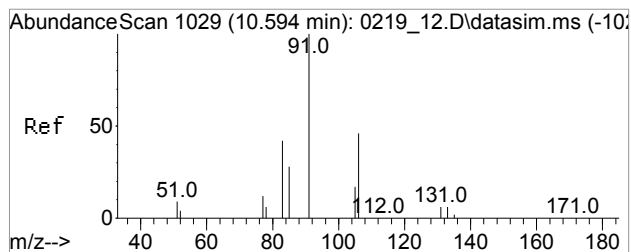
Tgt Ion: 91 Resp: 48714
Ion Ratio Lower Upper
91 100
106 29.1 24.0 36.0
77 9.8 7.3 10.9



#111
m,p-Xylene(sim)
Concen: 2.85 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

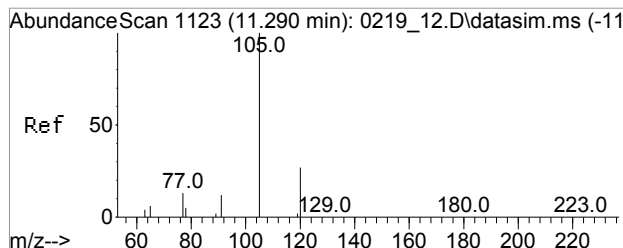
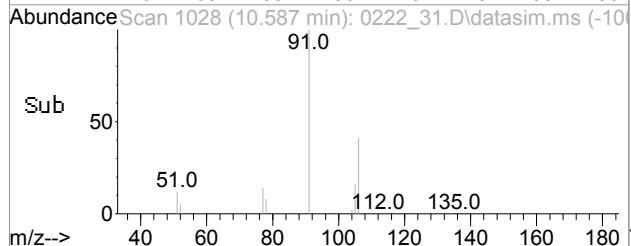
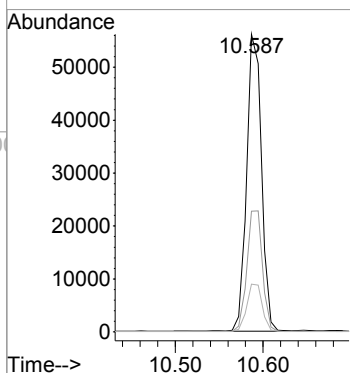
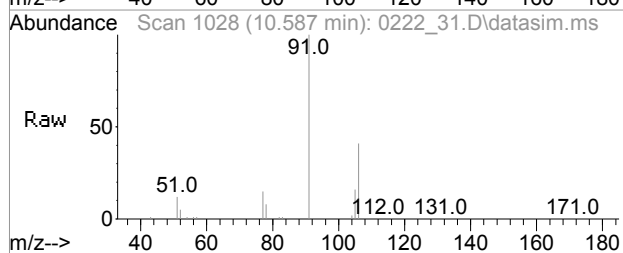
Tgt Ion: 91 Resp: 117002
Ion Ratio Lower Upper
91 100
106 47.7 43.6 53.2
105 19.7 16.6 25.0





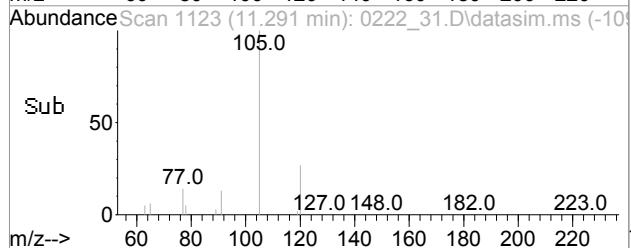
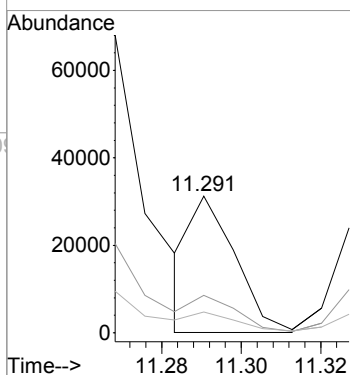
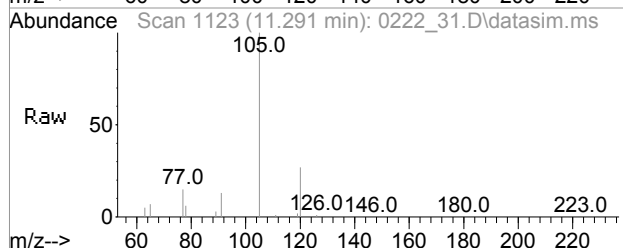
#114
o-Xylene(sim)
Concen: 1.43 ppbv
RT: 10.587 min Scan# 1028
Delta R.T. -0.007 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

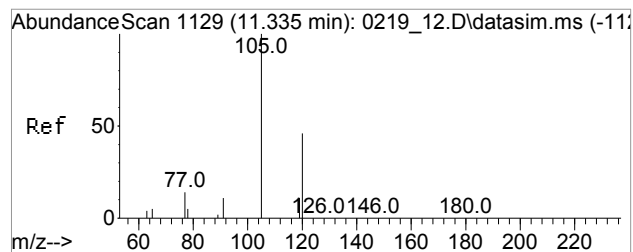
Tgt Ion: 91 Resp: 65777
Ion Ratio Lower Upper
91 100
106 42.6 36.0 54.0
105 16.6 13.8 20.8



#117
4-Ethyltoluene(sim)
Concen: 0.41 ppbv m
RT: 11.291 min Scan# 1123
Delta R.T. -0.004 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

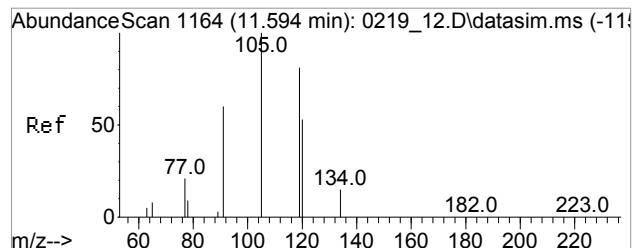
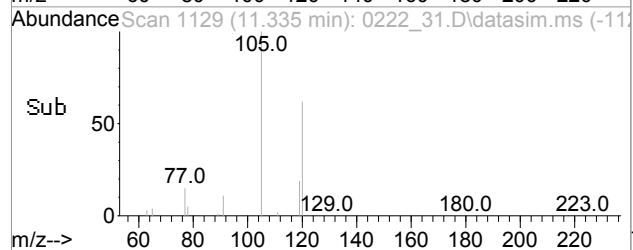
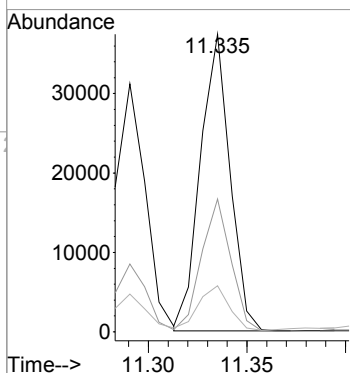
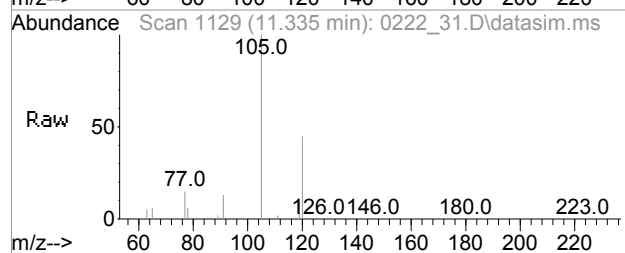
Tgt Ion: 105 Resp: 24204
Ion Ratio Lower Upper
105 100
120 122.8 23.3 34.9#
77 59.0 10.0 15.0#





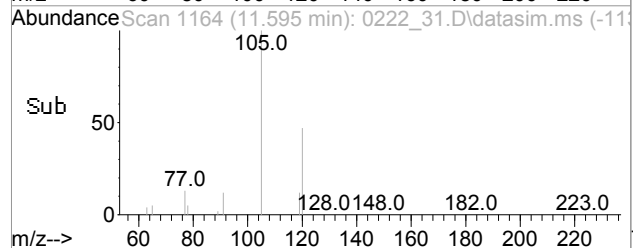
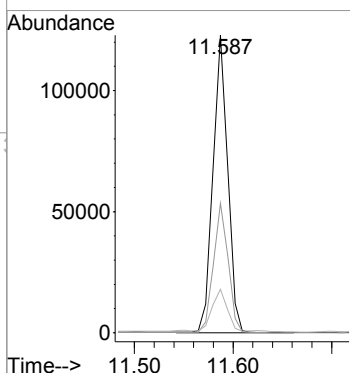
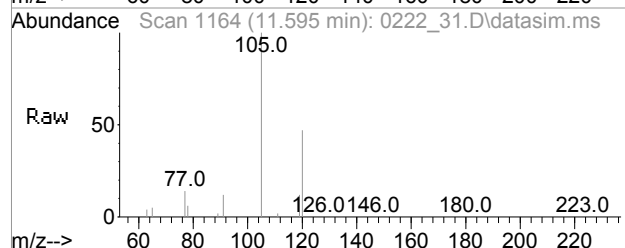
#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.76 ppbv
RT: 11.335 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

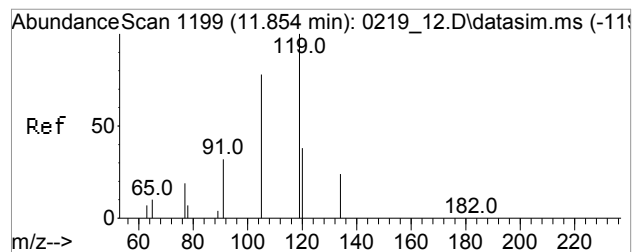
Tgt Ion:105 Resp: 38957
Ion Ratio Lower Upper
105 100
120 44.4 10.6 82.0
77 15.4 11.4 17.2



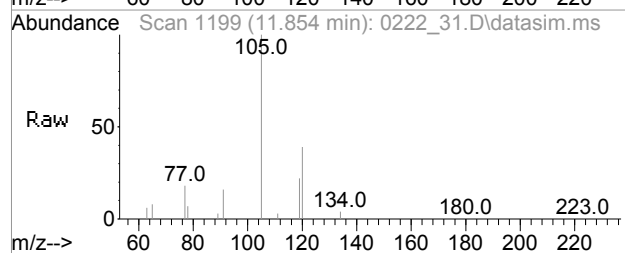
#119
1,2,4-Trimethylbenzene(sim)
Concen: 2.62 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_31.D
Acq: 23 Feb 2016 07:03 am

Tgt Ion:105 Resp: 117467
Ion Ratio Lower Upper
105 100
120 44.8 43.5 65.3
77 15.2 20.2 30.4#

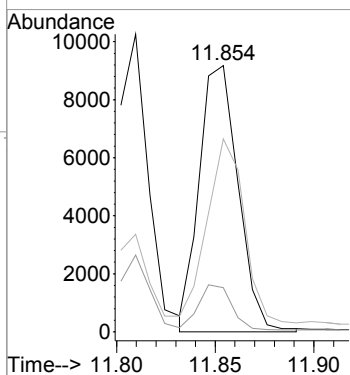
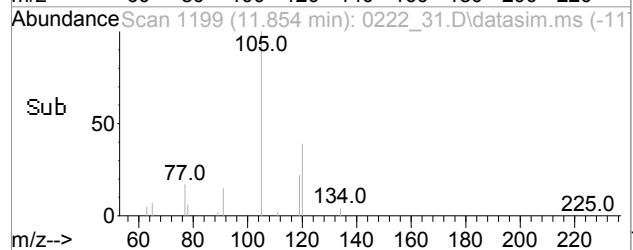




#125
 4-Isopropyltoluene(sim)
 Concen: 0.18 ppbv
 RT: 11.851 min Scan# 1199
 Delta R.T. 0.000 min
 Lab File: 0222_31.D
 Acq: 23 Feb 2016 07:03 am



Tgt Ion:119 Resp: 11545
 Ion Ratio Lower Upper
 119 100
 134 17.8 18.2 27.4#
 91 69.8 25.8 38.8#



Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_49.D
 Acq On : 24 Feb 2016 12:15 pm
 Operator : Keith
 Client ID : SS-8 DIL
 Lab ID : BK67659 5X
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 24 14:30:19 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

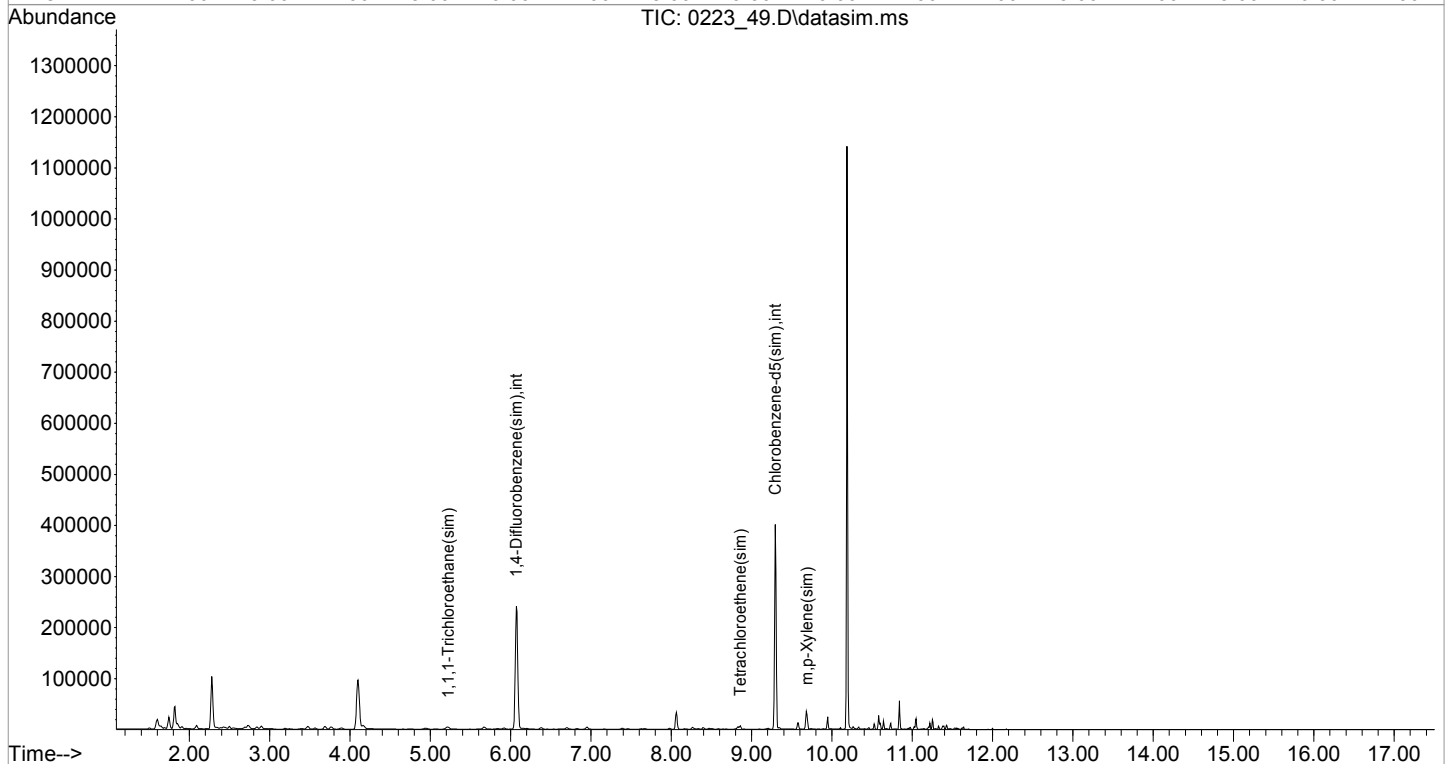
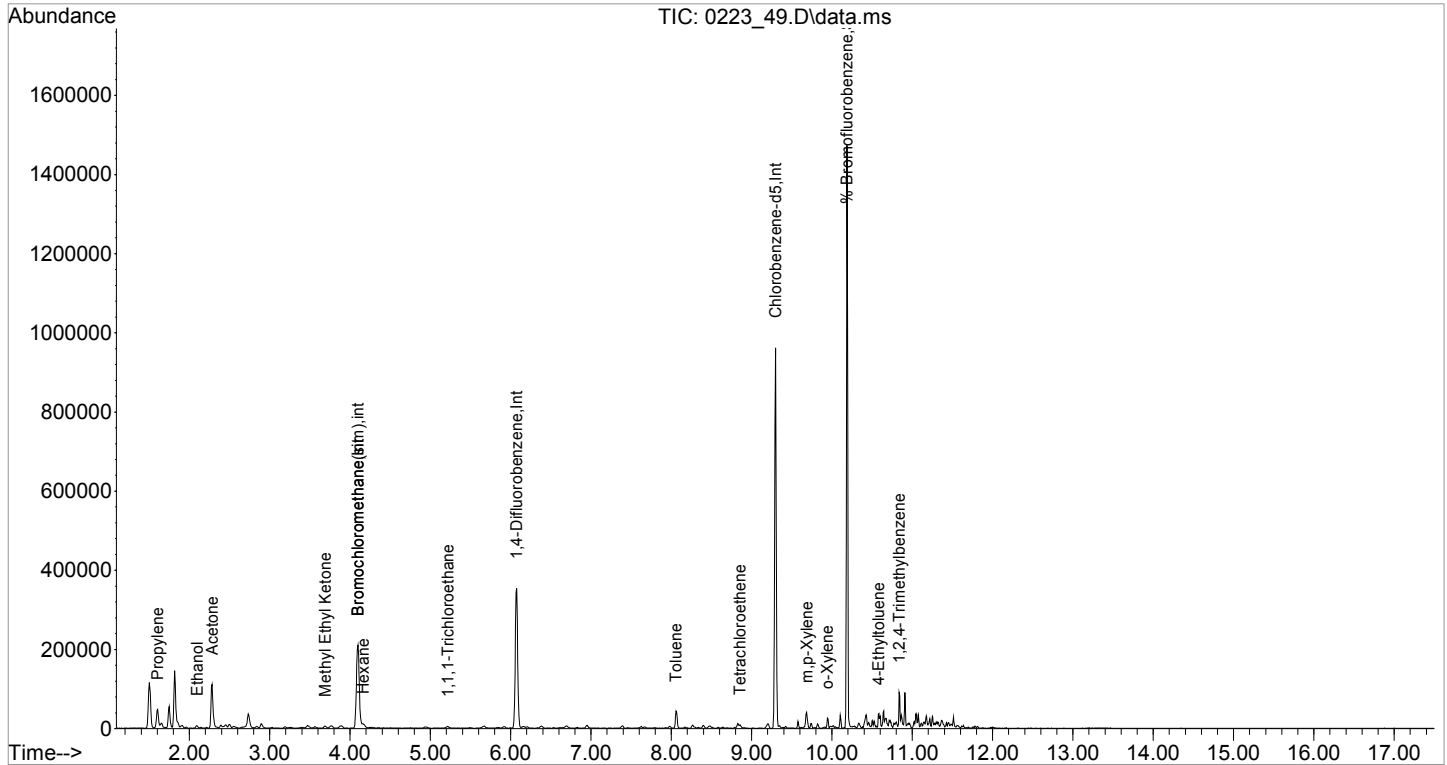
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

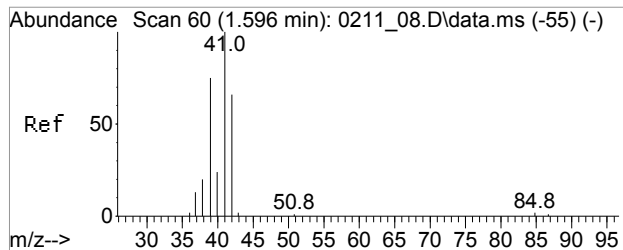
Internal Standards						
1) Bromochloromethane	4.098	130	103379	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.074	114	345892	10.000	ng	0.02
53) Chlorobenzene-d5	9.298	82	211454	10.000	ng	0.00
80) Bromochloromethane(sim)	4.098	130	103379	10.000	ng	0.02
93) 1,4-Difluorobenzene(sim)	6.070	114	386568	10.000	ng	# 0.01
103) Chlorobenzene-d5(sim)	9.293	82	242296	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	280359	9.992	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.90%	
Target Compounds						
						Qvalue
2) Propylene	1.605	41	21522	1.851	ppbv	90
10) Ethanol	2.096	45	7058	2.196	ppbv	98
12) Acetone	2.282	43	127113	8.312	ppbv	93
25) Methyl Ethyl Ketone	3.691	43	8325	0.474	ppbv#	88
27) Hexane	4.165	57	4273	0.373	ppbv#	52
32) 1,1,1-Trichloroethane	5.217	97	4363	0.200	ppbv	94
48) Toluene	8.059	91	22135	0.469	ppbv	95
52) Tetrachloroethene	8.855	166	2223	0.070	ppbv	91
57) m,p-Xylene	9.685	91	19835	0.454	ppbv	90
61) o-Xylene	9.943	91	10480	0.239	ppbv	95
66) 4-Ethyltoluene	10.578	105	17063	0.271	ppbv	95
68) 1,2,4-Trimethylbenzene	10.838	105	20949	0.397	ppbv#	85
90] 1,1,1-Trichloroethane(...	5.217	97	4363	0.200	ppbv#	94
102] Tetrachloroethene(sim)	8.855	166	2223	0.072	ppbv	92
106] m,p-Xylene(sim)	9.685	91	19835	0.414	ppbv#	90

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_49.D
Acq On : 24 Feb 2016 12:15 pm
Operator : Keith
Client ID : SS-8 DIL
Lab ID : BK67659 5X
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 24 14:30:19 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

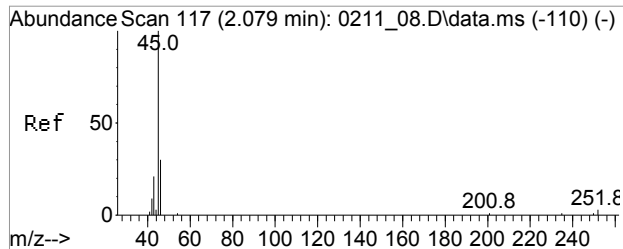
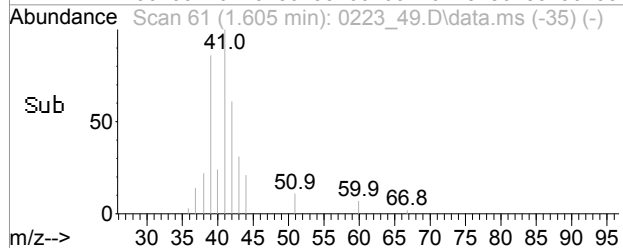
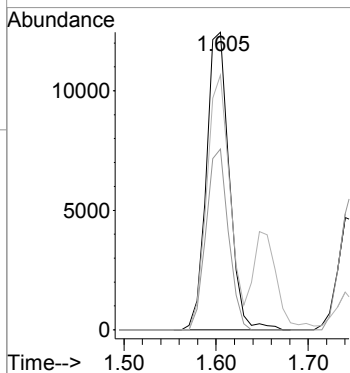
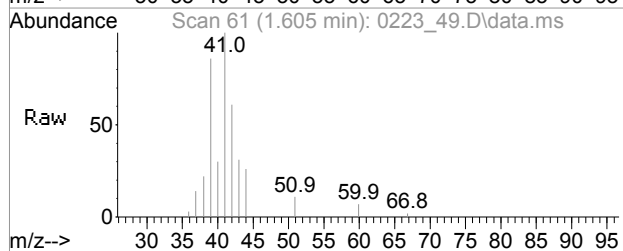




#2
Propylene
Concen: 1.85 ppbv
RT: 1.605 min Scan# 61
Delta R.T. 0.017 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

Tgt Ion: 41 Resp: 21522

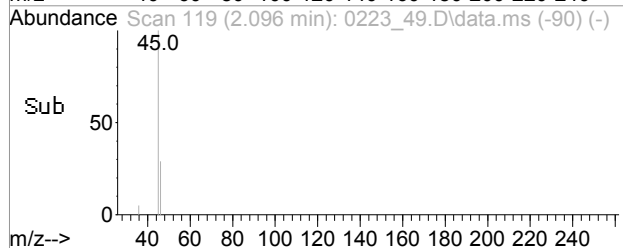
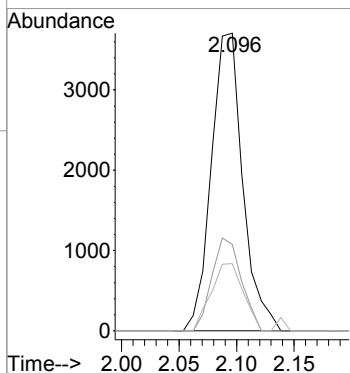
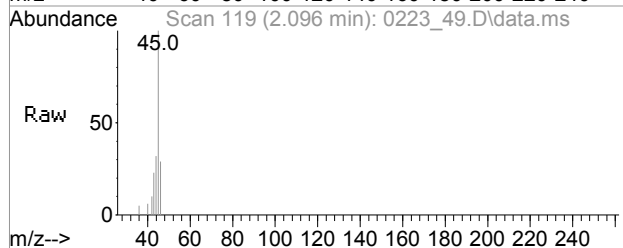
Ion	Ratio	Lower	Upper
41	100		
42	59.4	54.3	81.5
39	86.9	62.8	94.2

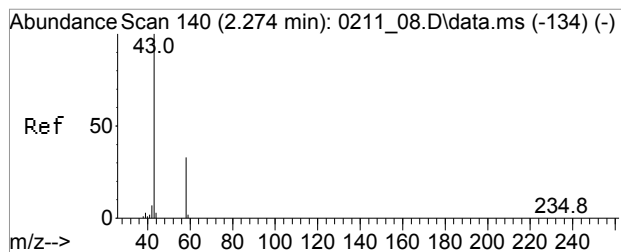


#10
Ethanol
Concen: 2.20 ppbv
RT: 2.096 min Scan# 119
Delta R.T. 0.042 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

Tgt Ion: 45 Resp: 7058

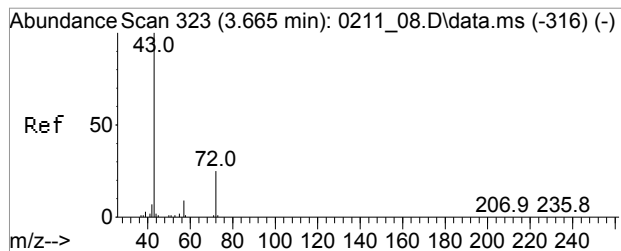
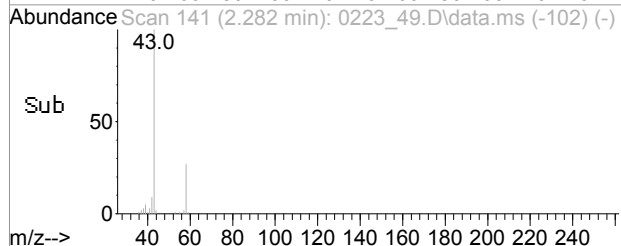
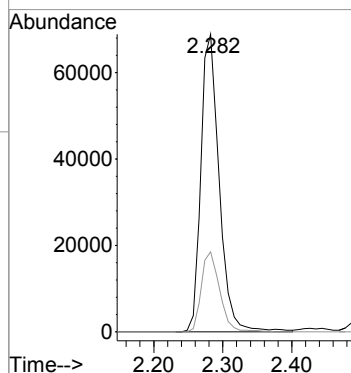
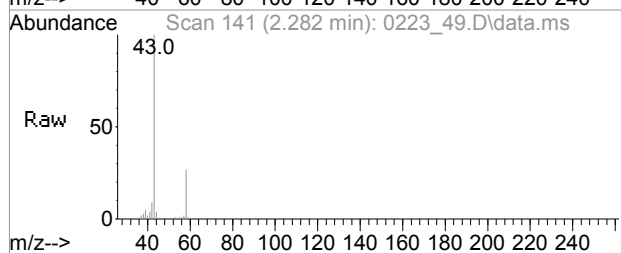
Ion	Ratio	Lower	Upper
45	100		
46	29.2	24.2	36.4
43	23.2	19.7	29.5





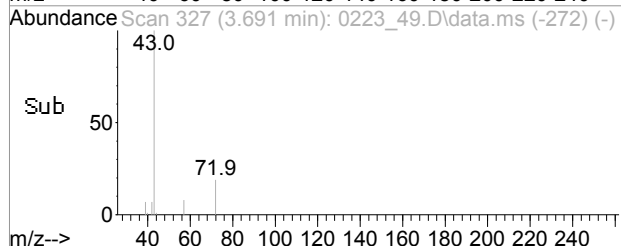
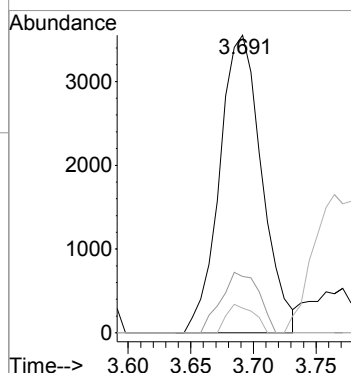
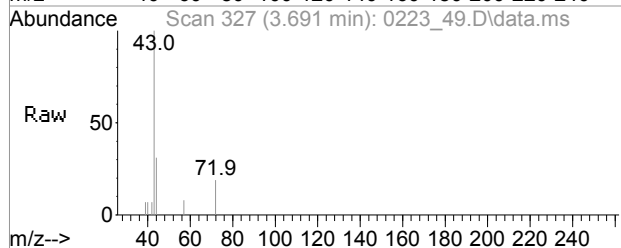
#12
Acetone
Concen: 8.31 ppbv
RT: 2.282 min Scan# 141
Delta R.T. 0.034 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

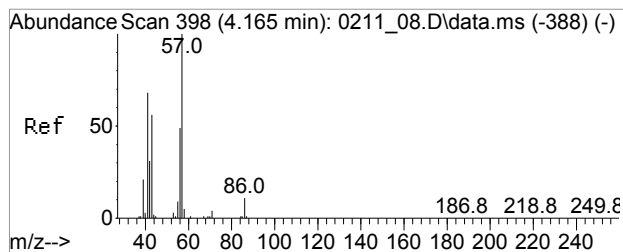
Tgt Ion: 43 Resp: 127113
Ion Ratio Lower Upper
43 100
58 26.9 24.8 37.2



#25
Methyl Ethyl Ketone
Concen: 0.47 ppbv
RT: 3.691 min Scan# 327
Delta R.T. 0.067 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

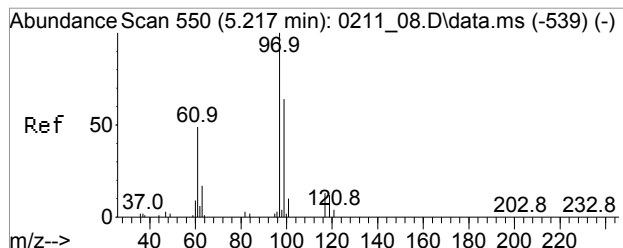
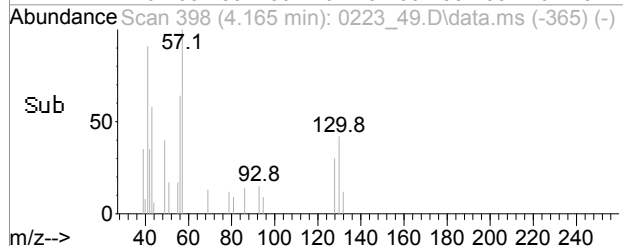
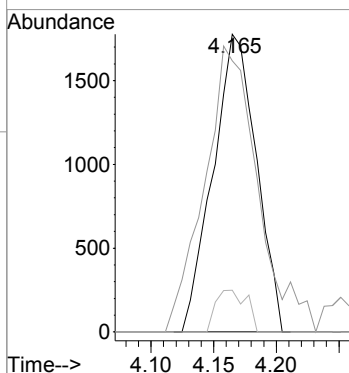
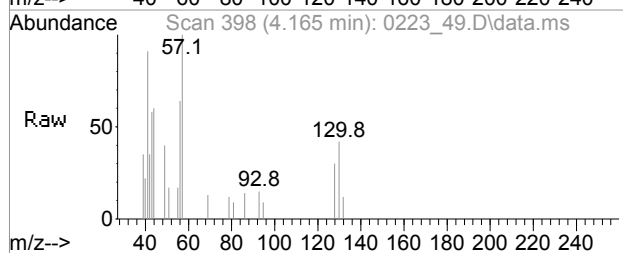
Tgt Ion: 43 Resp: 8325
Ion Ratio Lower Upper
43 100
72 18.1 19.9 29.9#
57 6.2 7.0 10.4#





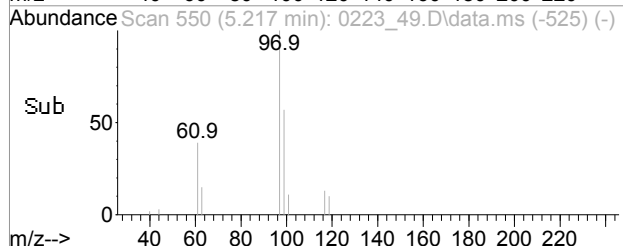
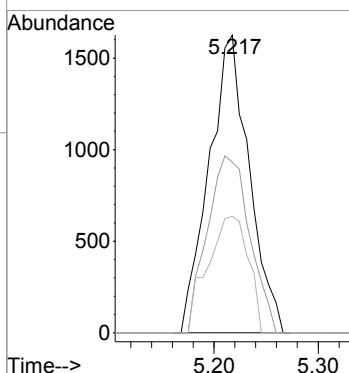
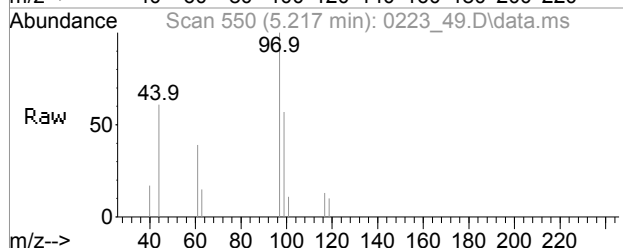
#27
Hexane
Concen: 0.37 ppbv
RT: 4.165 min Scan# 398
Delta R.T. 0.020 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

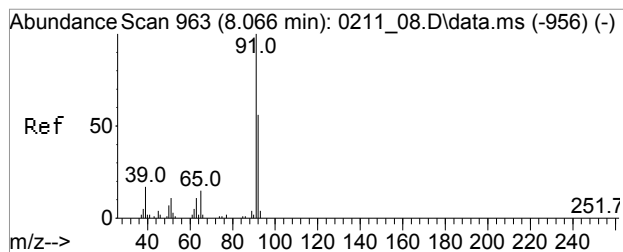
Tgt Ion: 57 Resp: 4273
Ion Ratio Lower Upper
57 100
41 118.0 57.7 86.5#
86 9.9 11.0 16.4#



#32
1,1,1-Trichloroethane
Concen: 0.20 ppbv
RT: 5.217 min Scan# 550
Delta R.T. 0.028 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

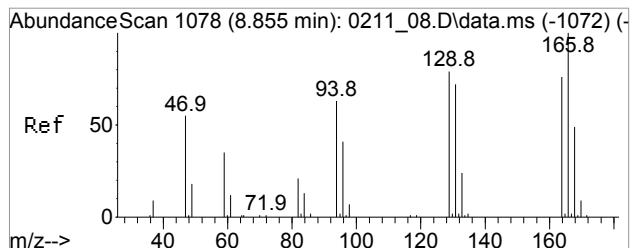
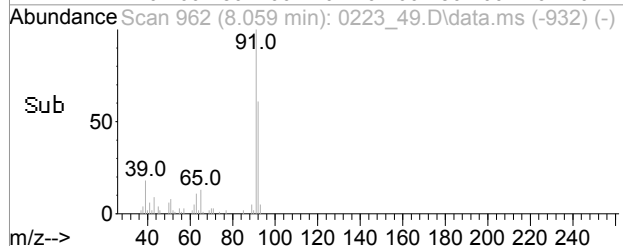
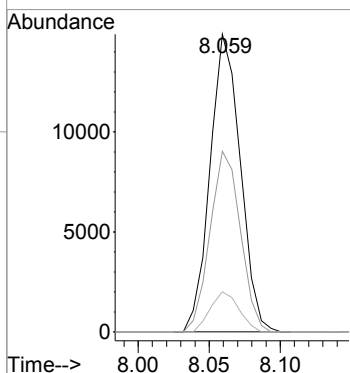
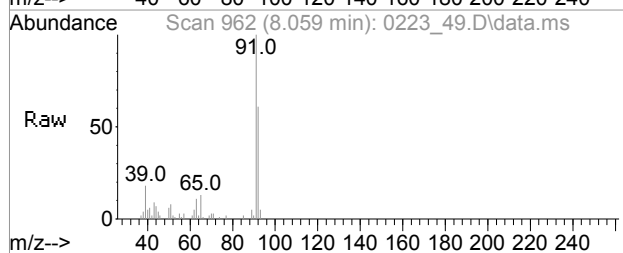
Tgt Ion: 97 Resp: 4363
Ion Ratio Lower Upper
97 100
99 62.6 51.8 77.8
61 39.6 37.6 56.4





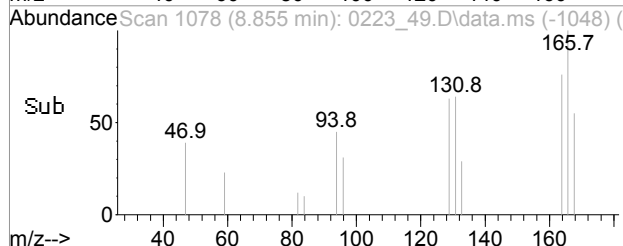
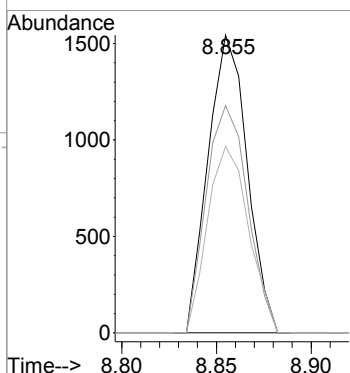
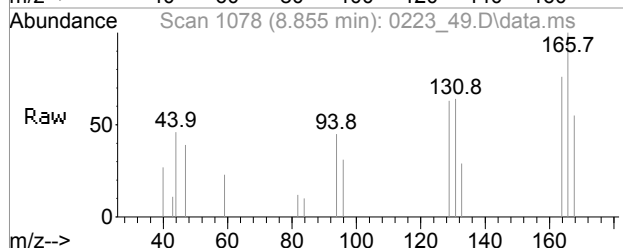
#48
Toluene
Concen: 0.47 ppbv
RT: 8.059 min Scan# 962
Delta R.T. 0.007 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

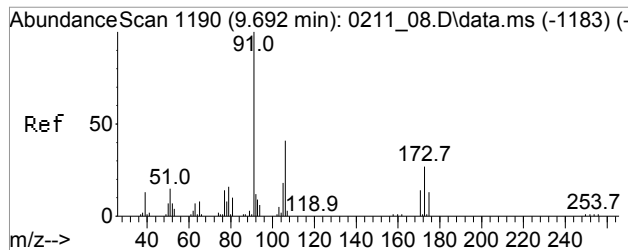
Tgt Ion: 91 Resp: 22135
Ion Ratio Lower Upper
91 100
92 60.8 45.4 68.0
65 12.7 11.8 17.6



#52
Tetrachloroethene
Concen: Below Cal
RT: 8.855 min Scan# 1078
Delta R.T. 0.007 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

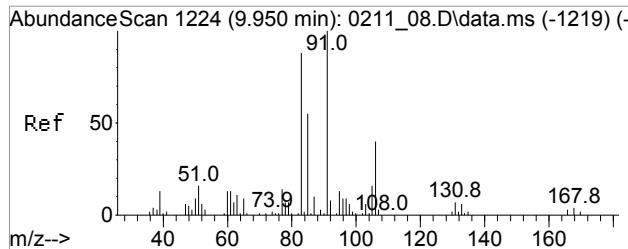
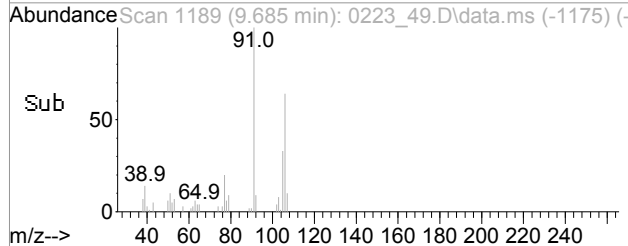
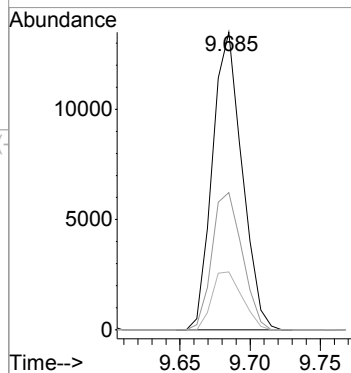
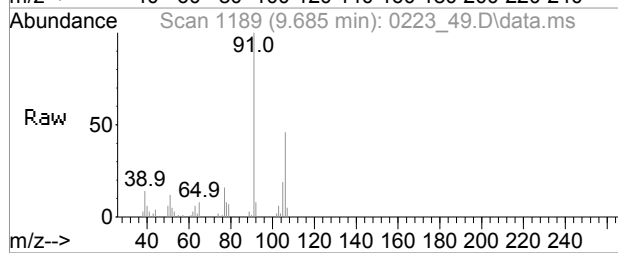
Tgt Ion: 166 Resp: 2223
Ion Ratio Lower Upper
166 100
164 80.7 61.0 91.4
129 65.9 61.1 91.7





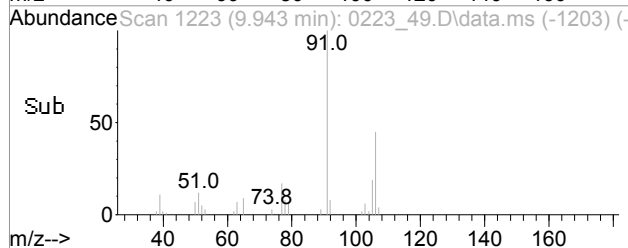
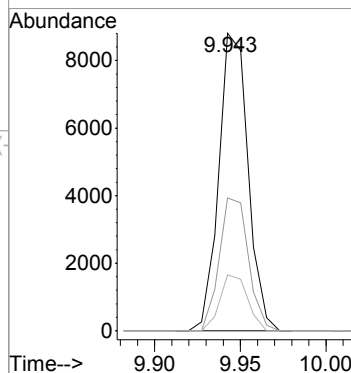
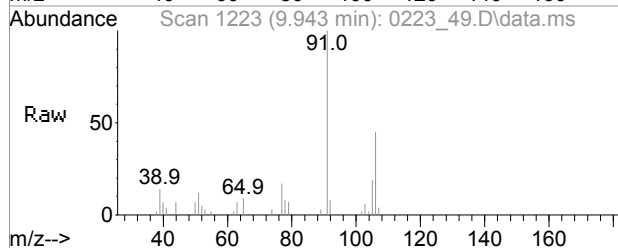
#57
m,p-Xylene
Concen: 0.45 ppbv
RT: 9.685 min Scan# 1189
Delta R.T. 0.008 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

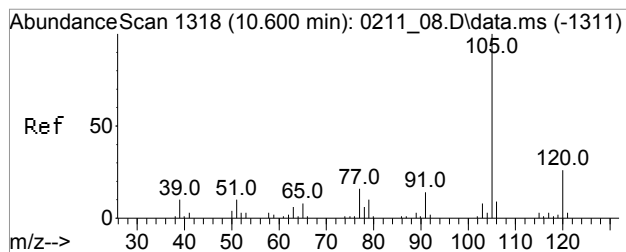
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.9	47.9
105	20.0	14.1	21.1



#61
o-Xylene
Concen: 0.24 ppbv
RT: 9.943 min Scan# 1223
Delta R.T. 0.001 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

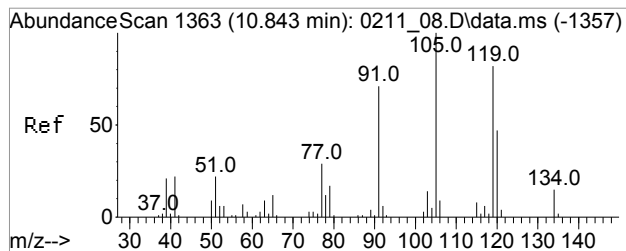
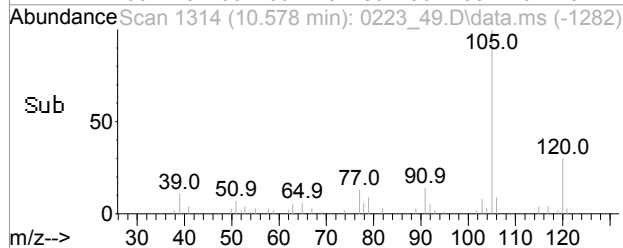
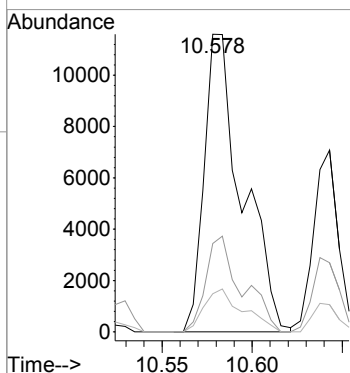
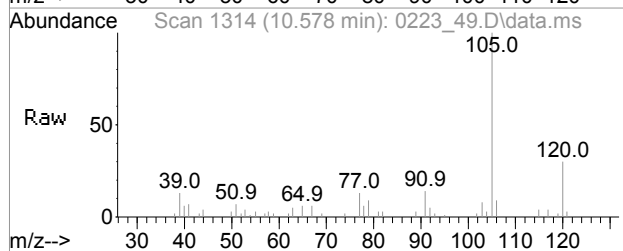
Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.5	33.1	49.7
105	17.8	13.0	19.6





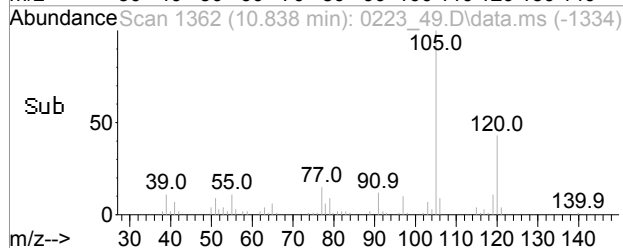
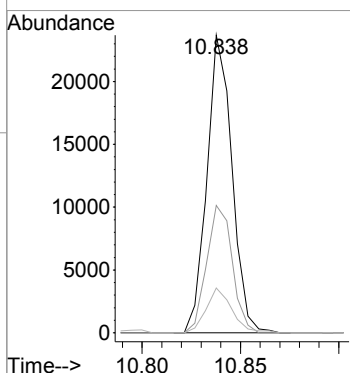
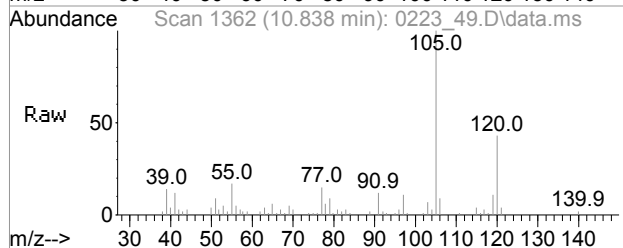
#66
4-Ethyltoluene
Concen: 0.27 ppbv
RT: 10.578 min Scan# 1314
Delta R.T. -0.016 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

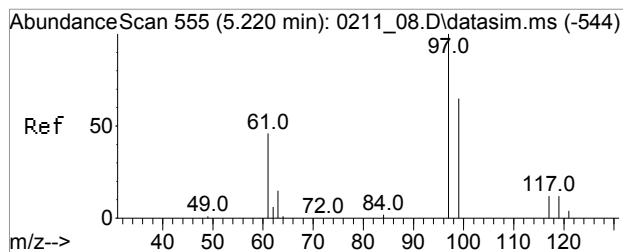
Tgt Ion	105	120	77
Ratio	100	30.6	14.7
Lower		21.0	11.9
Upper		31.6	17.9



#68
1,2,4-Trimethylbenzene
Concen: 0.40 ppbv
RT: 10.838 min Scan# 1362
Delta R.T. -0.000 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

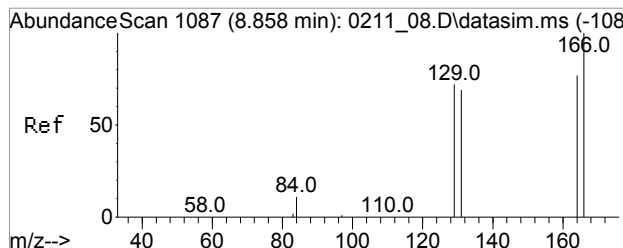
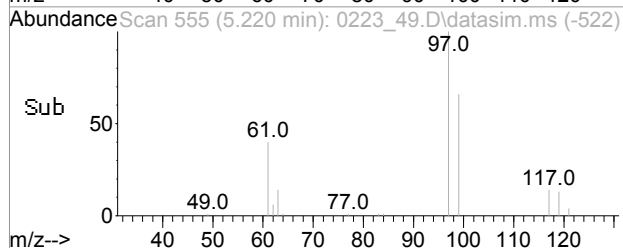
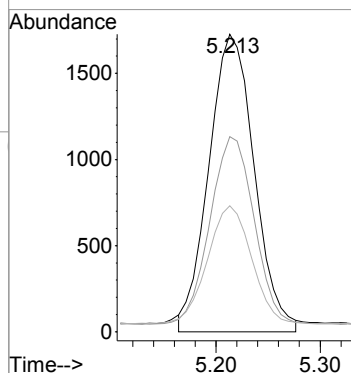
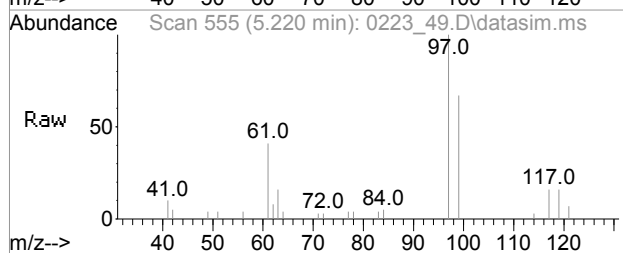
Tgt Ion	105	120	77
Ratio	100	43.7	15.5
Lower		38.7	24.6
Upper		58.1	36.8#





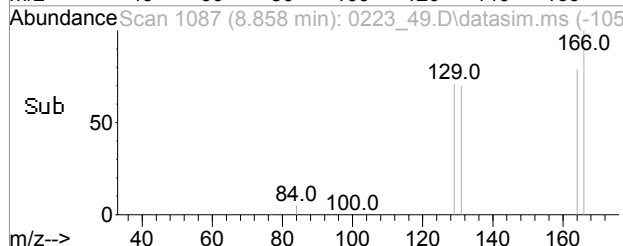
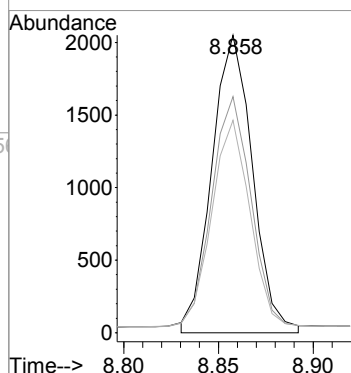
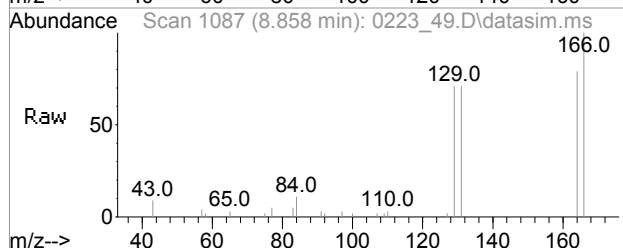
#90
1,1,1-Trichloroethane(sim)
Concen: 0.20 ppbv
RT: 5.217 min Scan# 555
Delta R.T. 0.028 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

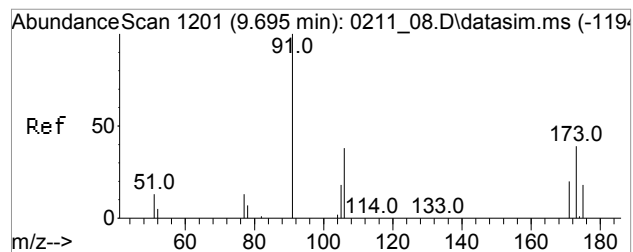
Tgt Ion: 97 Resp: 4363
Ion Ratio Lower Upper
97 100
99 62.6 64.8 64.8#
61 39.6 37.6 56.4



#102
Tetrachloroethene(sim)
Concen: 0.07 ppbv
RT: 8.855 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 0223_49.D
Acq: 24 Feb 2016 12:15 pm

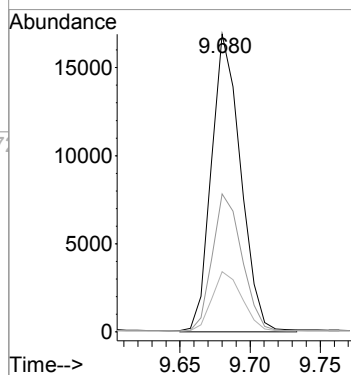
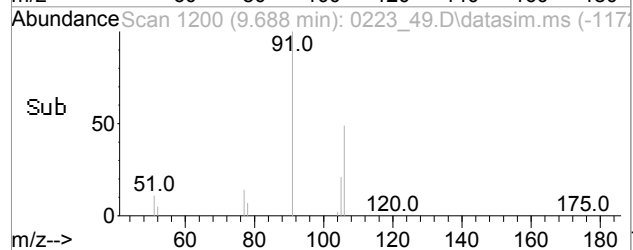
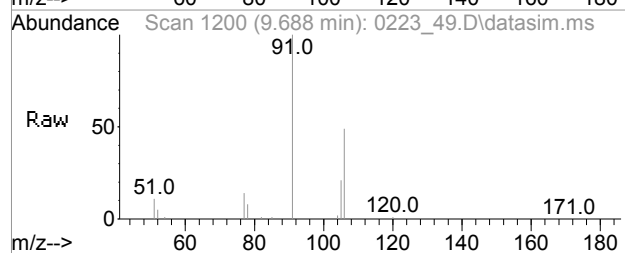
Tgt Ion: 166 Resp: 2223
Ion Ratio Lower Upper
166 100
164 72.3 56.3 96.3
129 65.9 56.4 96.4





#106
 m,p-Xylene(sim)
 Concen: 0.41 ppbv
 RT: 9.685 min Scan# 1200
 Delta R.T. 0.008 min
 Lab File: 0223_49.D
 Acq: 24 Feb 2016 12:15 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.0	35.9	43.9#
105	20.0	14.1	21.1



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67660 10X</u>
Canister:	<u>221</u>	Lab File ID:	<u>0222_37.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.81	U	5.81	5.81	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	6.27	S	5.31	5.31	r
67-64-1	Acetone	16.0	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
156-60-5	Trans-1,2-Dichloroethene	9.13		2.52	2.52	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
156-59-2	Cis-1,2-Dichloroethene	165		2.52	2.52	r
110-54-3	Hexane	2.84	U	2.84	2.84	r
67-66-3	Chloroform	2.53		2.05	2.05	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	113		0.466	0.466	r
142-82-5	Heptane	2.44	U	2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	3.84		2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	590	E	0.369	0.369	
95-63-6	1,2,4-Trimethylbenzene	3.91		2.04	2.04	r
135-98-8	sec-Butylbenzene	2.94		1.82	1.82	r
75-71-8	Dichlorodifluoromethane(sim)	2.02	U	2.02	2.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67660 10X</u>
Canister:	<u>221</u>	Lab File ID:	<u>0222_37.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-15-0	Carbon Disulfide(sim)	3.21	U	3.21	3.21	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-41-4	Ethylbenzene(sim)	2.30	U	2.30	2.30	r
179601-23-1	m,p-Xylene(sim)	3.69		2.30	2.30	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
95-47-6	o-Xylene(sim)	2.30	U	2.30	2.30	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
622-96-8	4-Ethyltoluene(sim)	2.04	U	2.04	2.04	r
108-67-8	1,3,5-Trimethylbenzene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_37.D
 Acq On : 23 Feb 2016 11:20 am
 Operator : CORTEX\ms
 Client ID : SS-9
 Lab ID : BK67660 10X
 ALS Vial : 1 Sample Multiplier: 1

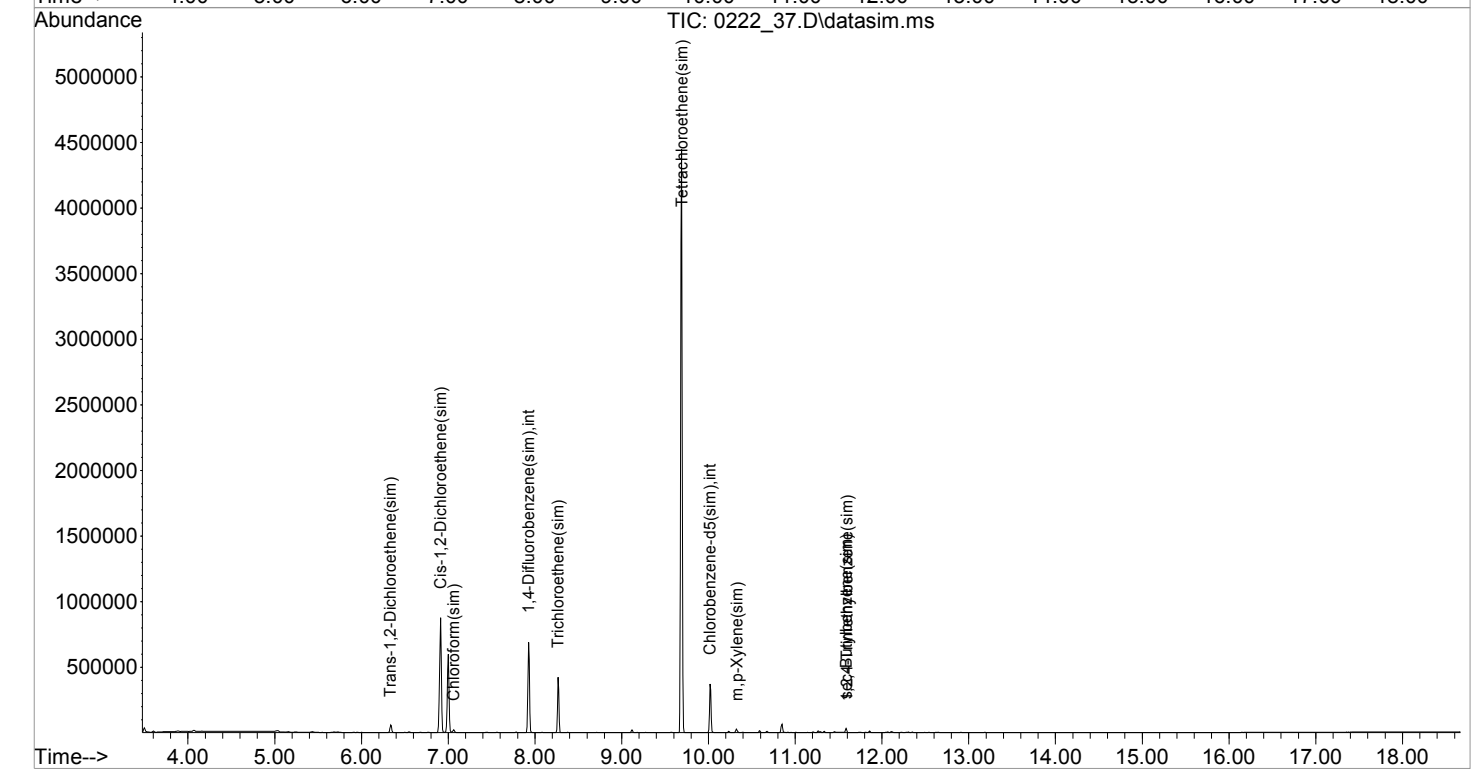
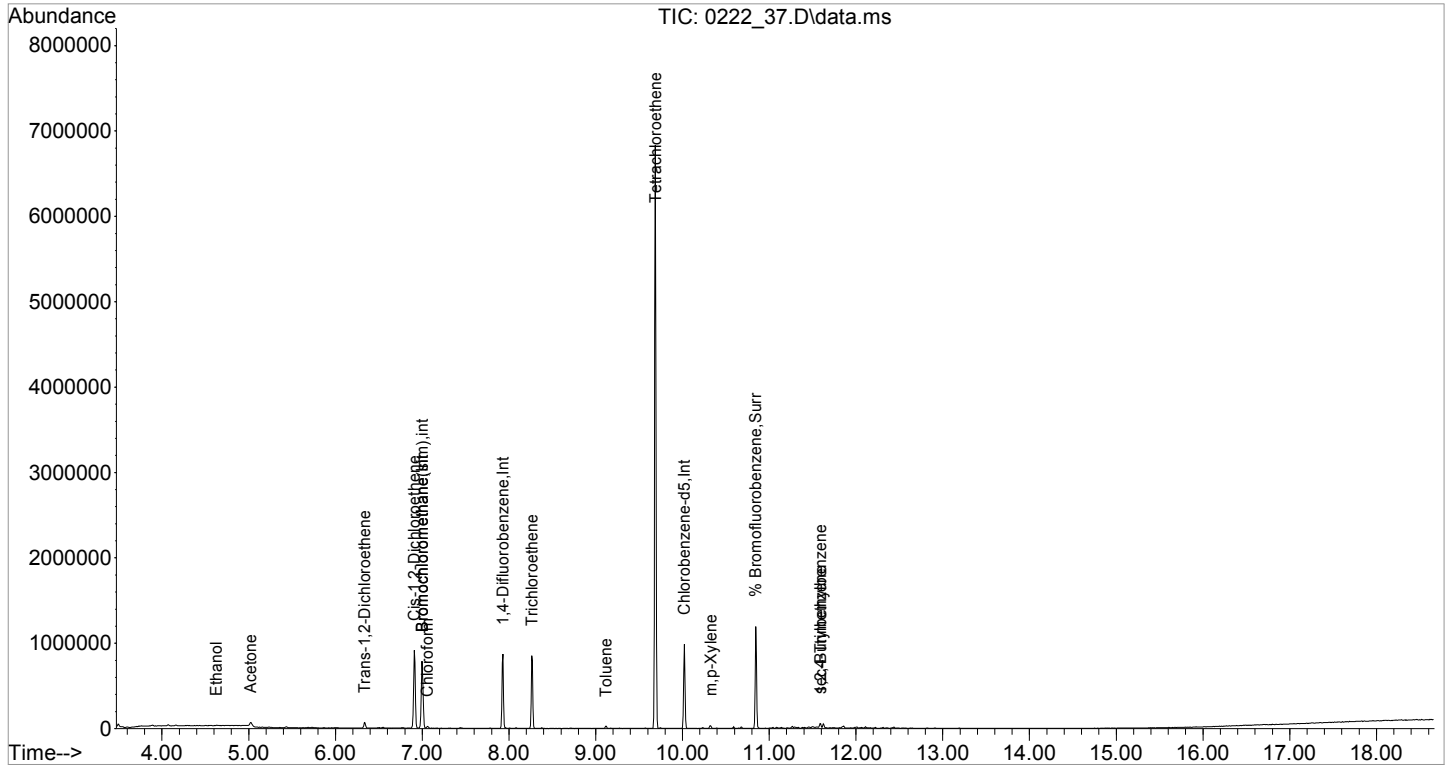
Quant Time: Feb 23 14:14:44 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

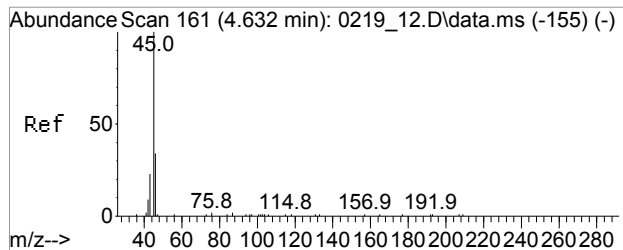
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.999	130	159042	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	424254	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	189596	10.000	ng	0.00
79) Bromochloromethane(sim)	6.999	130	159042	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	516214	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	203583	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	252906	10.102	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.00%
Target Compounds						
					Qvalue	
10) Ethanol	4.625	45	3158	0.627	ppbv#	68
11) Acetone	5.022	43	45263	1.599	ppbv	91
21) Trans-1,2-Dichloroethene	6.335	61	28808	0.913	ppbv	95
25) Cis-1,2-Dichloroethene	6.908	61	407962	16.548	ppbv	92
27) Chloroform	7.059	83	9465	0.253	ppbv	94
38) Trichloroethene	8.263	130	166355	11.291	ppbv	97
47) Toluene	9.117	91	12238	0.383	ppbv	96
51) Tetrachloroethene	9.688	166	1262015	59.024	ppbv	99
56) m,p-Xylene	10.325	91	14698	0.423	ppbv	95
67) 1,2,4-Trimethylbenzene	11.592	105	15490	0.391	ppbv#	87
72) sec-Butylbenzene	11.592	105	15490	0.294	ppbv#	70
91] Trans-1,2-Dichloroethe...	6.335	61	28808	0.869	ppbv	95
93] Cis-1,2-Dichloroethene...	6.908	61	407962	15.716	ppbv	92
94] Chloroform(sim)	7.062	83	12136	0.263	ppbv	97
99] Trichloroethene(sim)	8.263	130	166466	9.412	ppbv	98
105] Tetrachloroethene(sim)	9.688	166	1262015	58.136	ppbv	99
111] m,p-Xylene(sim)	10.325	91	14698	0.369	ppbv#	95
119] 1,2,4-Trimethylbenzene...	11.592	105	15490	0.357	ppbv#	87
124] sec-Butylbenzene(sim)	11.587	105	16046	0.248	ppbv	80

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_37.D
Acq On : 23 Feb 2016 11:20 am
Operator : CORTEX\ms
Client ID : SS-9
Lab ID : BK67660 10X
ALS Vial : 1 Sample Multiplier: 1

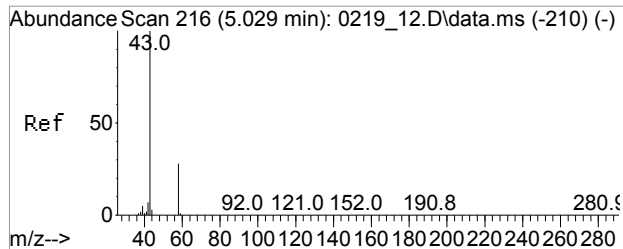
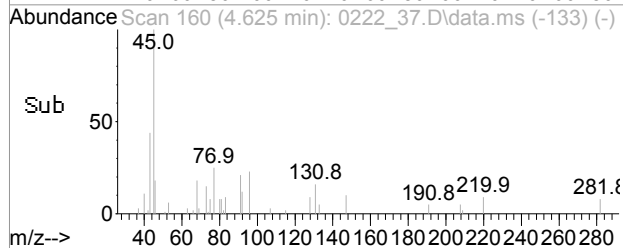
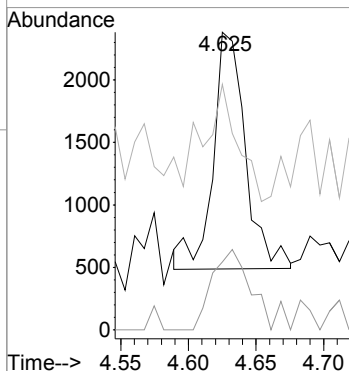
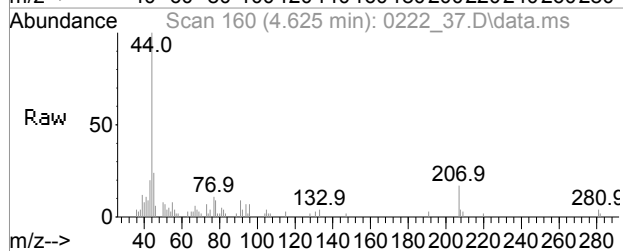
Quant Time: Feb 23 14:14:44 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





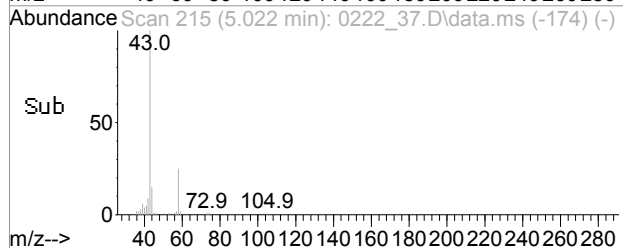
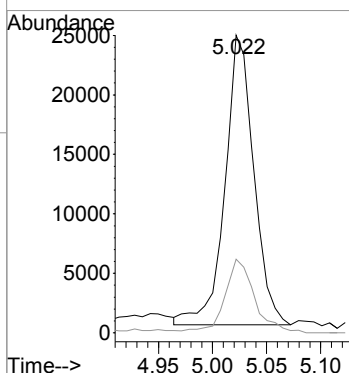
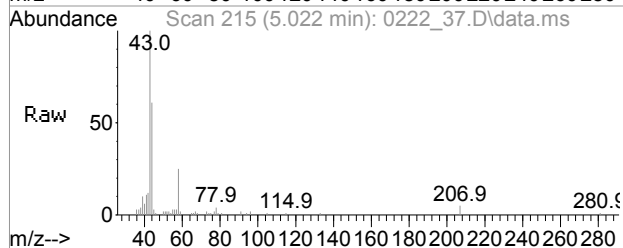
#10
Ethanol
Concen: 0.63 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

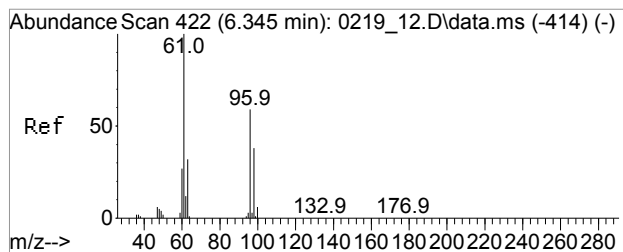
Tgt Ion: 45 Resp: 3158
Ion Ratio Lower Upper
45 100
46 39.6 28.5 42.7
43 58.4 19.7 29.5#



#11
Acetone
Concen: 1.60 ppbv
RT: 5.022 min Scan# 215
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

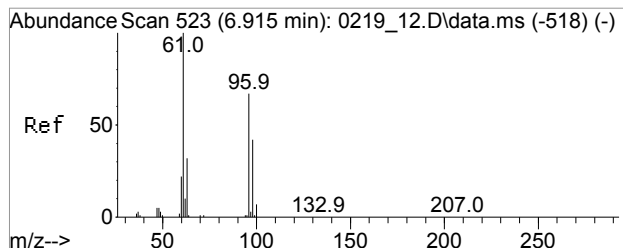
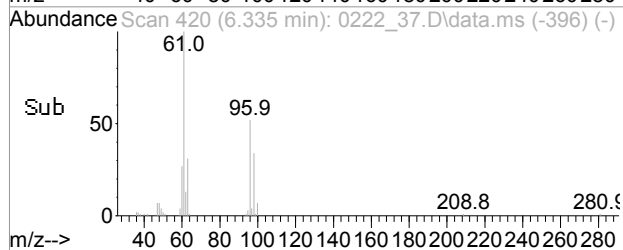
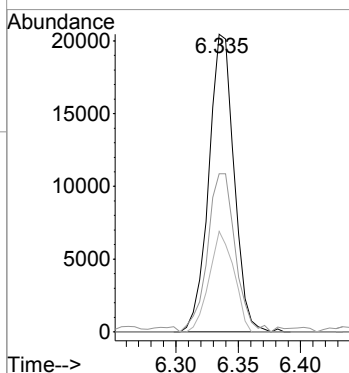
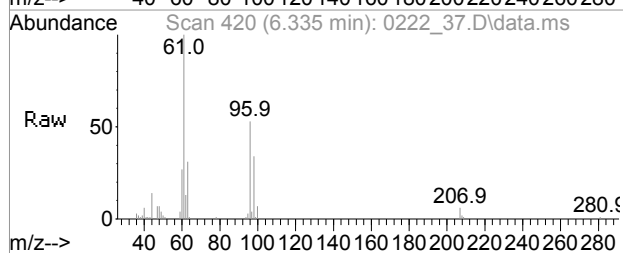
Tgt Ion: 43 Resp: 45263
Ion Ratio Lower Upper
43 100
58 26.2 24.8 37.2





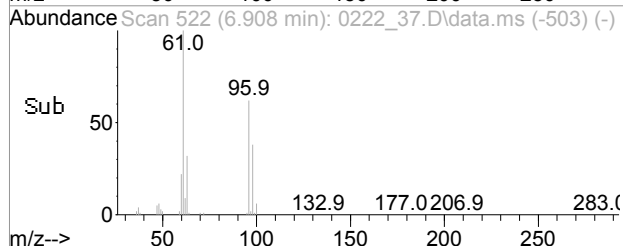
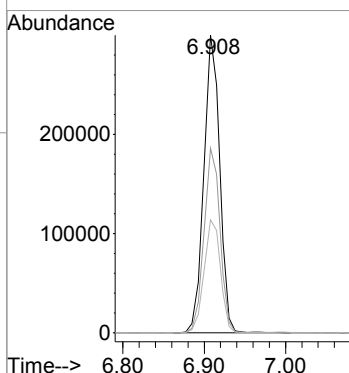
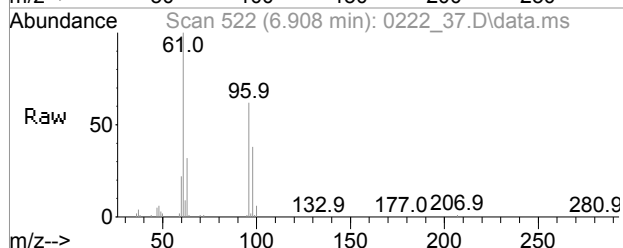
#21
 Trans-1,2-Dichloroethene
 Concen: 0.91 ppbv
 RT: 6.335 min Scan# 420
 Delta R.T. -0.010 min
 Lab File: 0222_37.D
 Acq: 23 Feb 2016 11:20 am

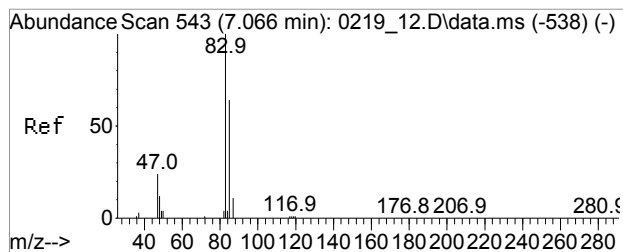
Tgt Ion: 61 Resp: 28808
 Ion Ratio Lower Upper
 61 100
 96 58.2 48.4 72.6
 98 33.0 30.6 45.8



#25
 Cis-1,2-Dichloroethene
 Concen: 16.55 ppbv
 RT: 6.908 min Scan# 522
 Delta R.T. -0.007 min
 Lab File: 0222_37.D
 Acq: 23 Feb 2016 11:20 am

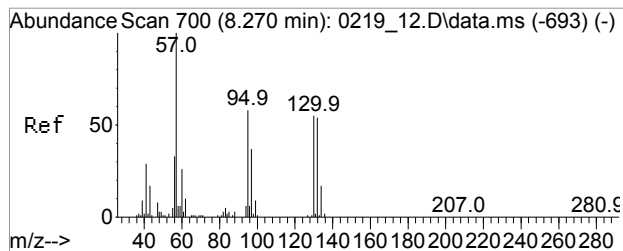
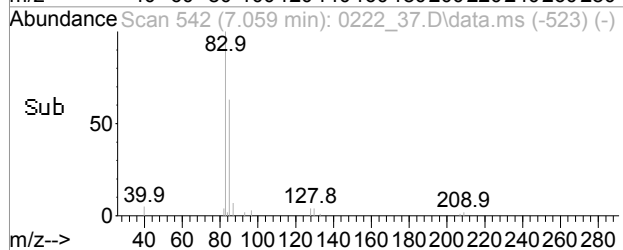
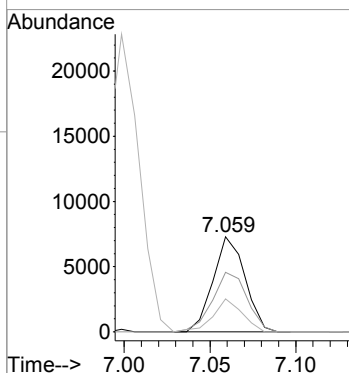
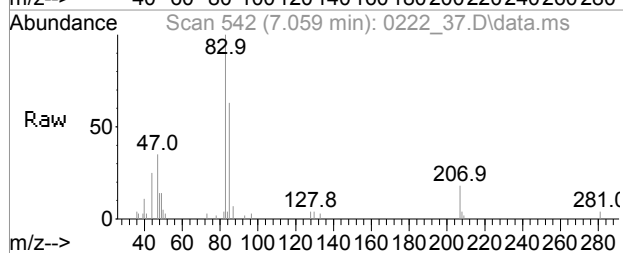
Tgt Ion: 61 Resp: 407962
 Ion Ratio Lower Upper
 61 100
 96 62.5 55.1 82.7
 98 39.3 35.7 53.5





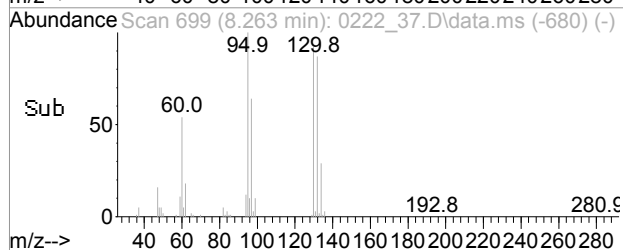
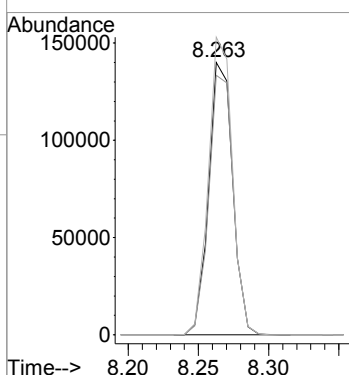
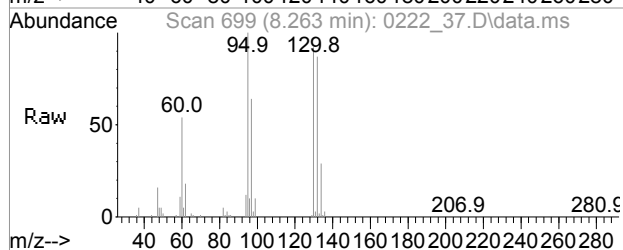
#27
Chloroform
Concen: 0.25 ppbv
RT: 7.059 min Scan# 542
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

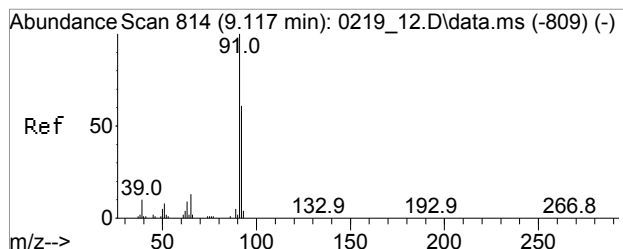
Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.3	46.0	86.0
47	31.6	4.6	44.6



#38
Trichloroethene
Concen: 11.29 ppbv
RT: 8.263 min Scan# 699
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

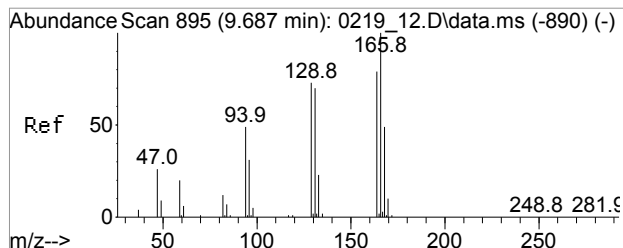
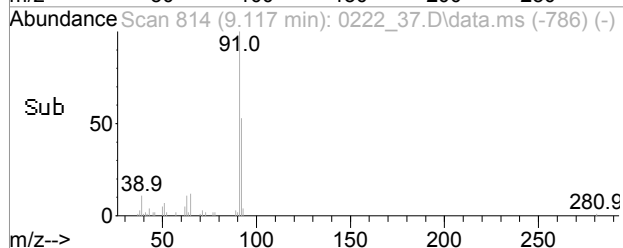
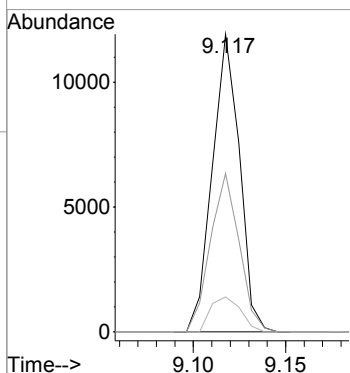
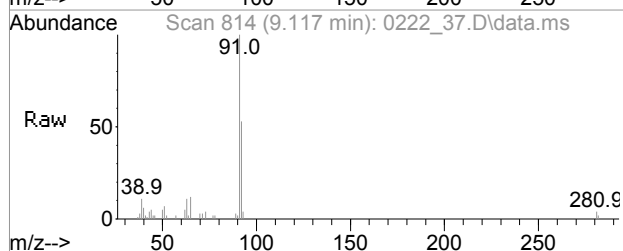
Tgt Ion	Ratio	Lower	Upper
130	100		
132	96.9	77.2	115.8
95	109.2	82.7	124.1





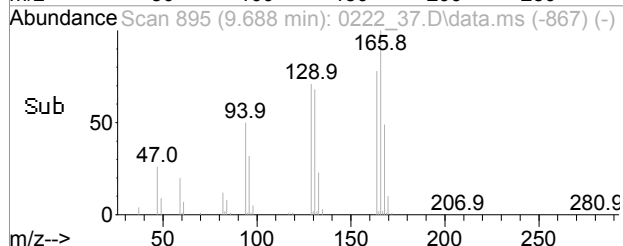
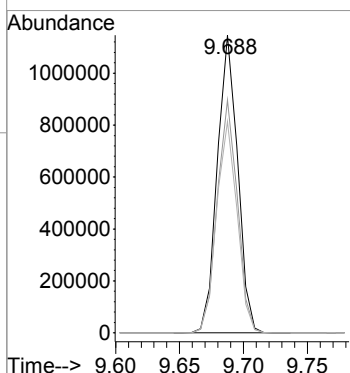
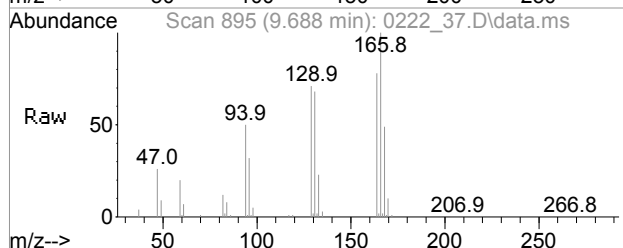
#47
Toluene
Concen: 0.38 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

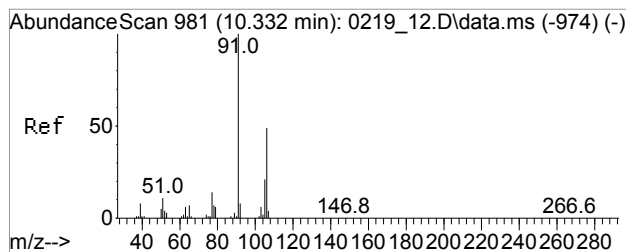
Tgt Ion: 91 Resp: 12238
Ion Ratio Lower Upper
91 100
92 56.7 47.7 71.5
65 13.0 9.5 14.3



#51
Tetrachloroethene
Concen: 59.02 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

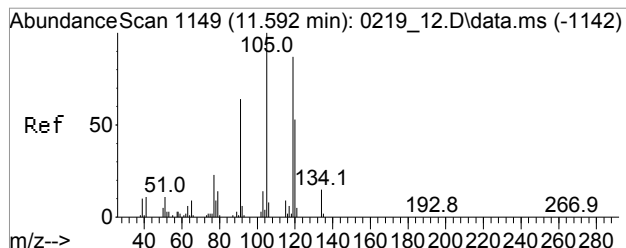
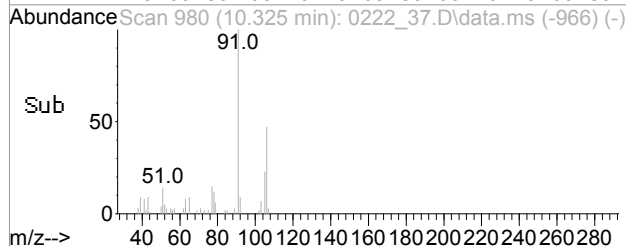
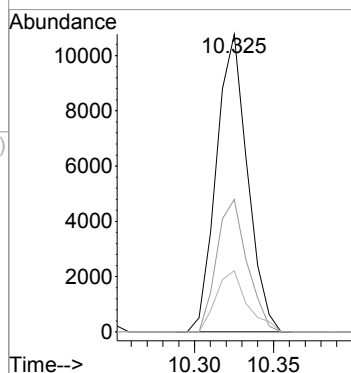
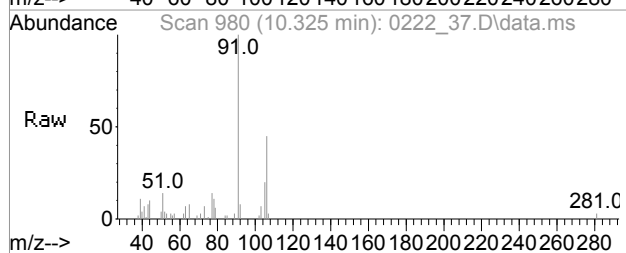
Tgt Ion: 166 Resp: 1262015
Ion Ratio Lower Upper
166 100
164 77.9 62.2 93.4
129 71.7 56.6 84.8





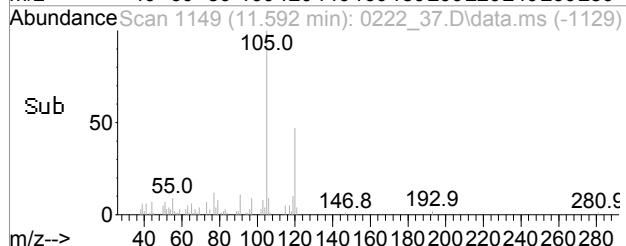
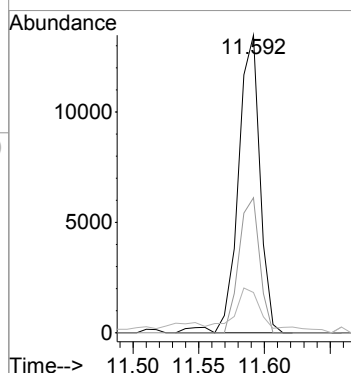
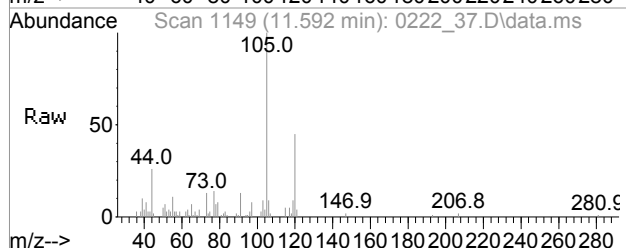
#56
m,p-Xylene
Concen: 0.42 ppbv
RT: 10.325 min Scan# 980
Delta R.T. 0.000 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

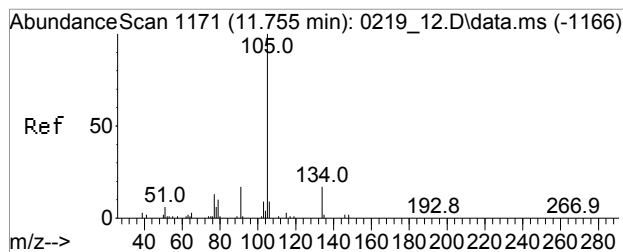
Tgt Ion: 91 Resp: 14698
Ion Ratio Lower Upper
91 100
106 43.5 38.7 58.1
105 20.5 16.6 25.0



#67
1,2,4-Trimethylbenzene
Concen: 0.39 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

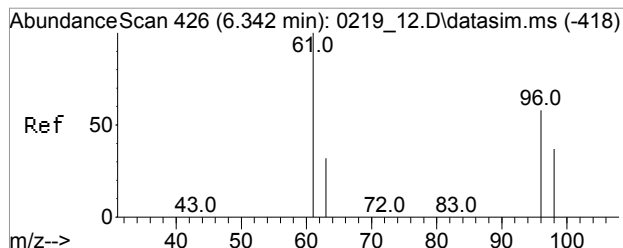
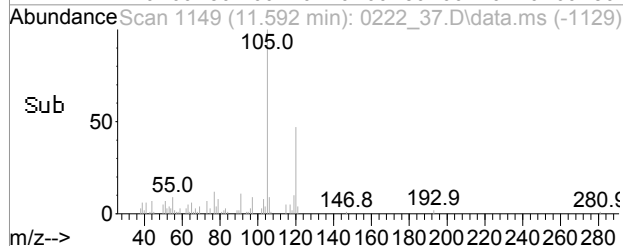
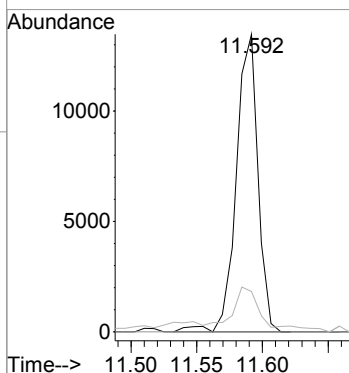
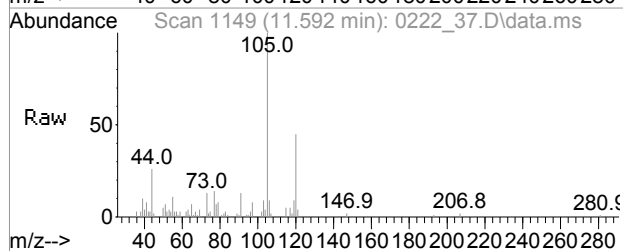
Tgt Ion: 105 Resp: 15490
Ion Ratio Lower Upper
105 100
120 43.4 43.5 65.3#
77 21.2 20.2 30.4





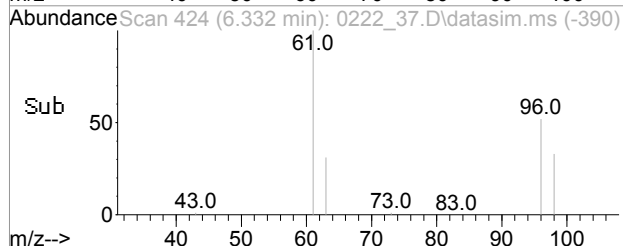
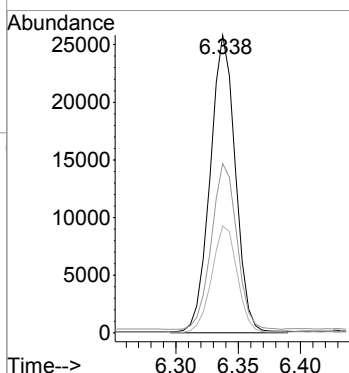
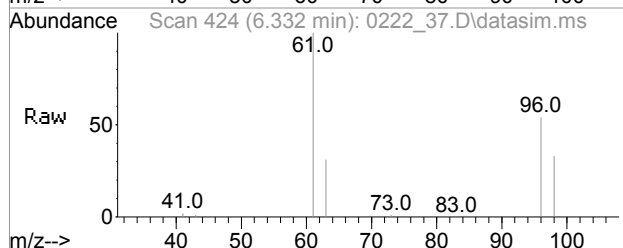
#72
 sec-Butylbenzene
 Concen: 0.29 ppbv
 RT: 11.592 min Scan# 1149
 Delta R.T. 0.001 min
 Lab File: 0222_37.D
 Acq: 23 Feb 2016 11:20 am

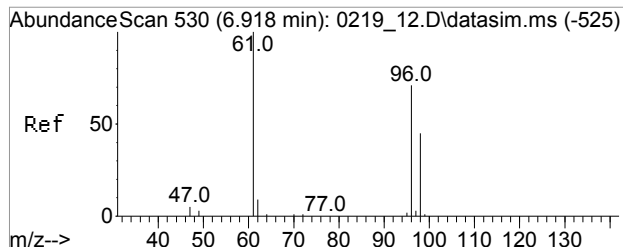
Tgt Ion: 105 Resp: 15490
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.7 20.5#
 77 21.2 11.0 16.4#



#91
 Trans-1,2-Dichloroethene(sim)
 Concen: 0.87 ppbv
 RT: 6.335 min Scan# 424
 Delta R.T. -0.010 min
 Lab File: 0222_37.D
 Acq: 23 Feb 2016 11:20 am

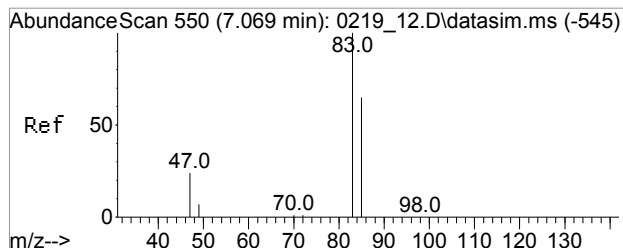
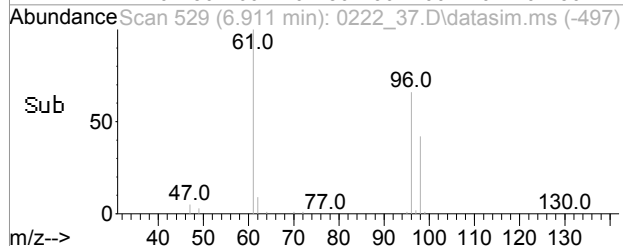
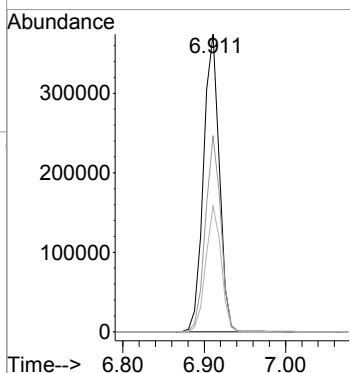
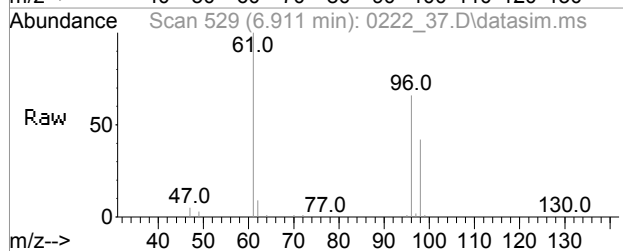
Tgt Ion: 61 Resp: 28808
 Ion Ratio Lower Upper
 61 100
 96 58.2 48.4 72.6
 98 33.0 30.6 45.8





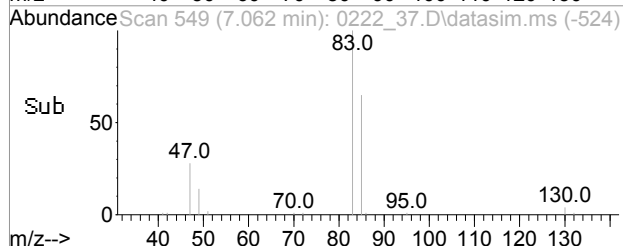
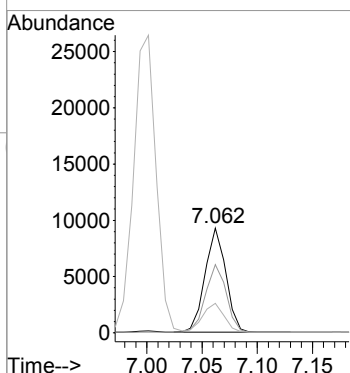
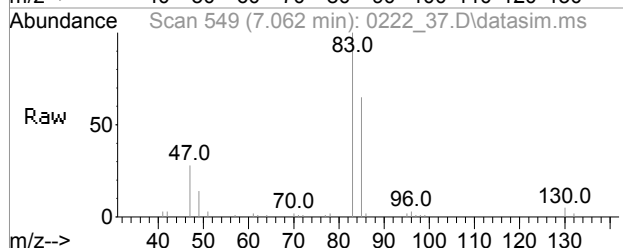
#93
Cis-1,2-Dichloroethene(sim)
Concen: 15.72 ppbv
RT: 6.908 min Scan# 529
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

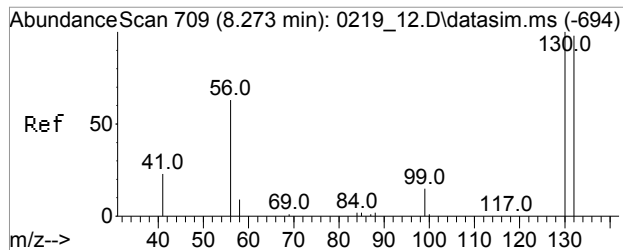
Tgt Ion: 61 Resp: 407962
Ion Ratio Lower Upper
61 100
96 62.5 55.1 82.7
98 39.3 35.7 53.5



#94
Chloroform(sim)
Concen: 0.26 ppbv
RT: 7.062 min Scan# 549
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

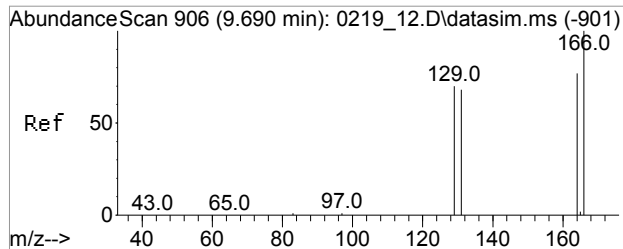
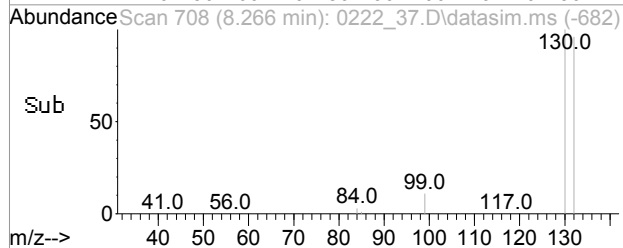
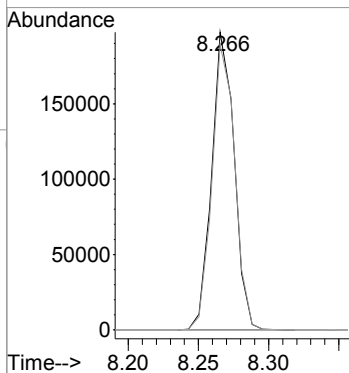
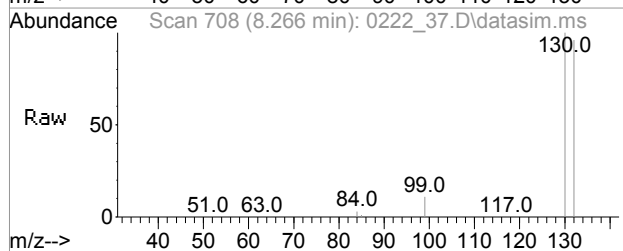
Tgt Ion: 83 Resp: 12136
Ion Ratio Lower Upper
83 100
85 64.8 62.7 67.9
47 28.8 19.4 29.0





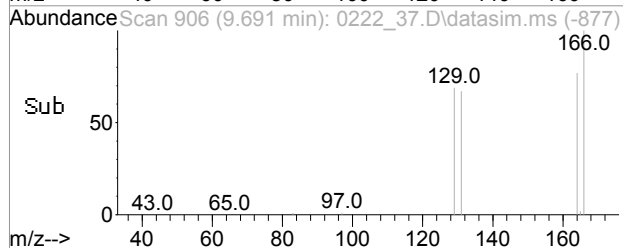
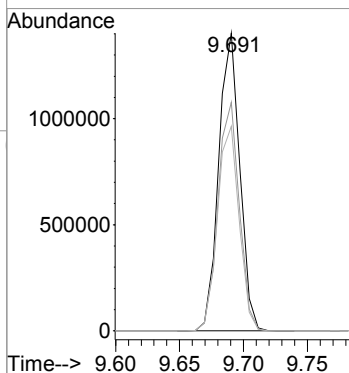
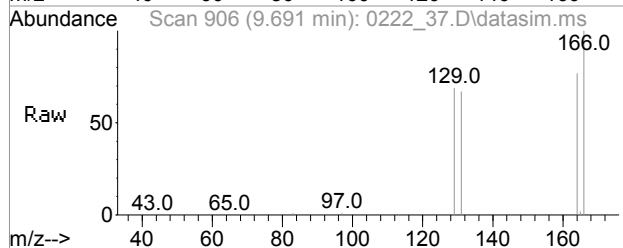
#99
Trichloroethene(sim)
Concen: 9.41 ppbv
RT: 8.263 min Scan# 708
Delta R.T. -0.007 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

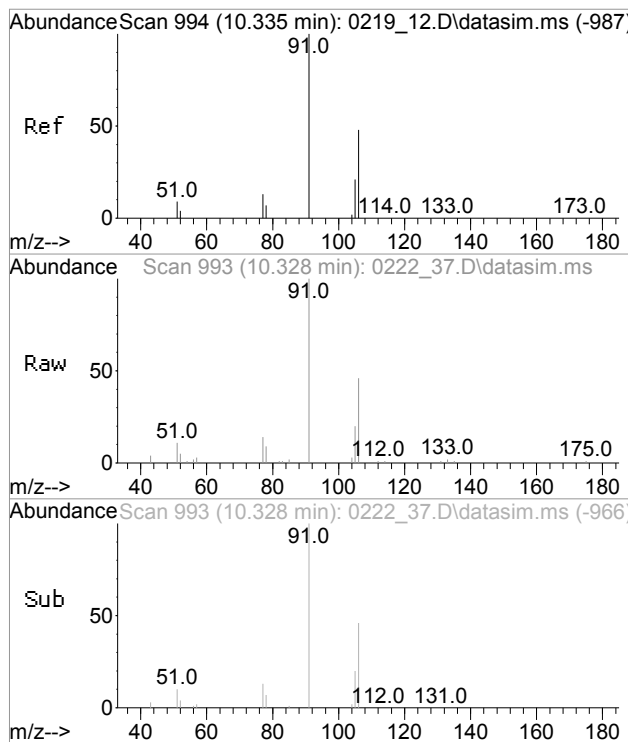
Tgt Ion:130 Resp: 166466
Ion Ratio Lower Upper
130 100
132 96.9 77.2 115.8
97 70.0 53.5 80.3



#105
Tetrachloroethene(sim)
Concen: 58.14 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

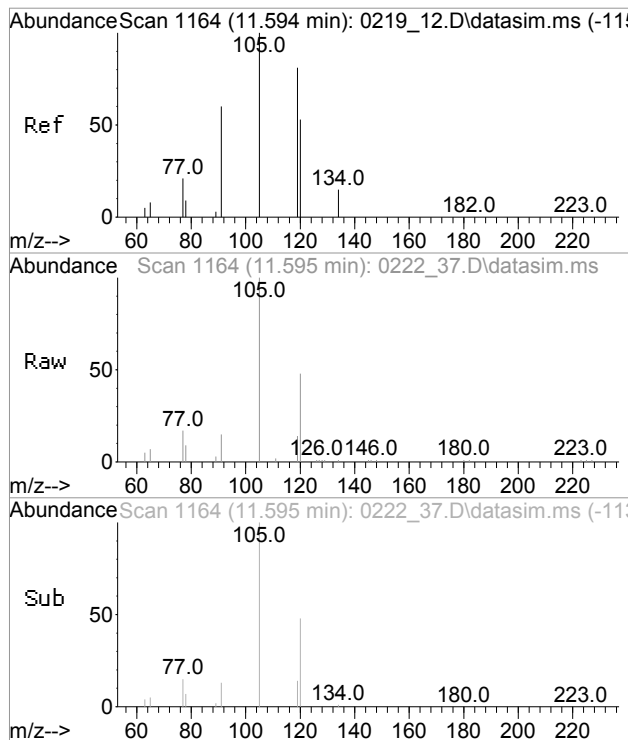
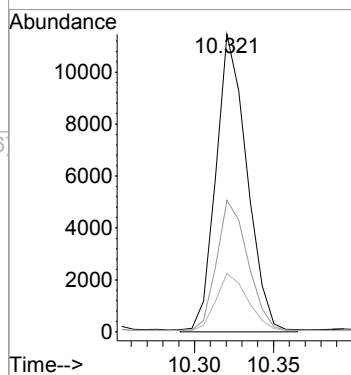
Tgt Ion:166 Resp: 1262015
Ion Ratio Lower Upper
166 100
164 77.9 57.8 97.8
129 71.7 50.7 90.7





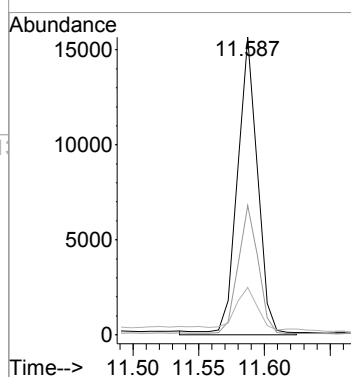
#111
m,p-Xylene(sim)
Concen: 0.37 ppbv
RT: 10.325 min Scan# 993
Delta R.T. 0.000 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

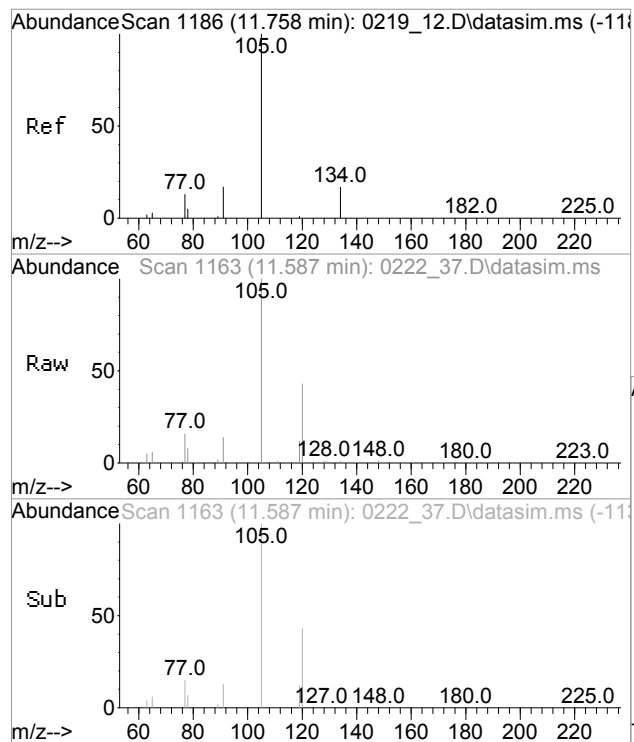
Tgt Ion: 91 Resp: 14698
Ion Ratio Lower Upper
91 100
106 43.5 43.6 53.2#
105 20.5 16.6 25.0



#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.36 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_37.D
Acq: 23 Feb 2016 11:20 am

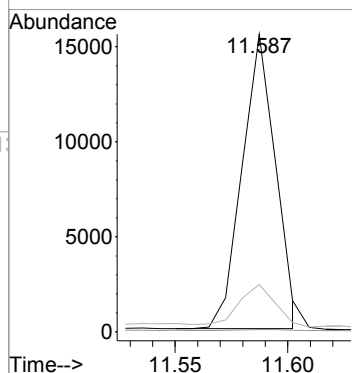
Tgt Ion: 105 Resp: 15490
Ion Ratio Lower Upper
105 100
120 43.4 43.5 65.3#
77 21.2 20.2 30.4





#124
 sec-Butylbenzene(sim)
 Concen: 0.25 ppbv
 RT: 11.587 min Scan# 1163
 Delta R.T. 0.000 min
 Lab File: 0222_37.D
 Acq: 23 Feb 2016 11:20 am

Tgt Ion:105 Resp: 16046
 Ion Ratio Lower Upper
 105 100
 134 0.4 0.0 35.9
 77 13.9 0.0 34.1



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67660 30X
Canister:	221	Lab File ID:	0222_49.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
		Date Analyzed:	02/23/16
Matrix:	AIR	Dilution Factor:	30

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent
This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_49.D
 Acq On : 23 Feb 2016 07:17 pm
 Operator : CORTEX\ms
 Client ID : SS-9 DIL
 Lab ID : BK67660 30X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:28:07 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

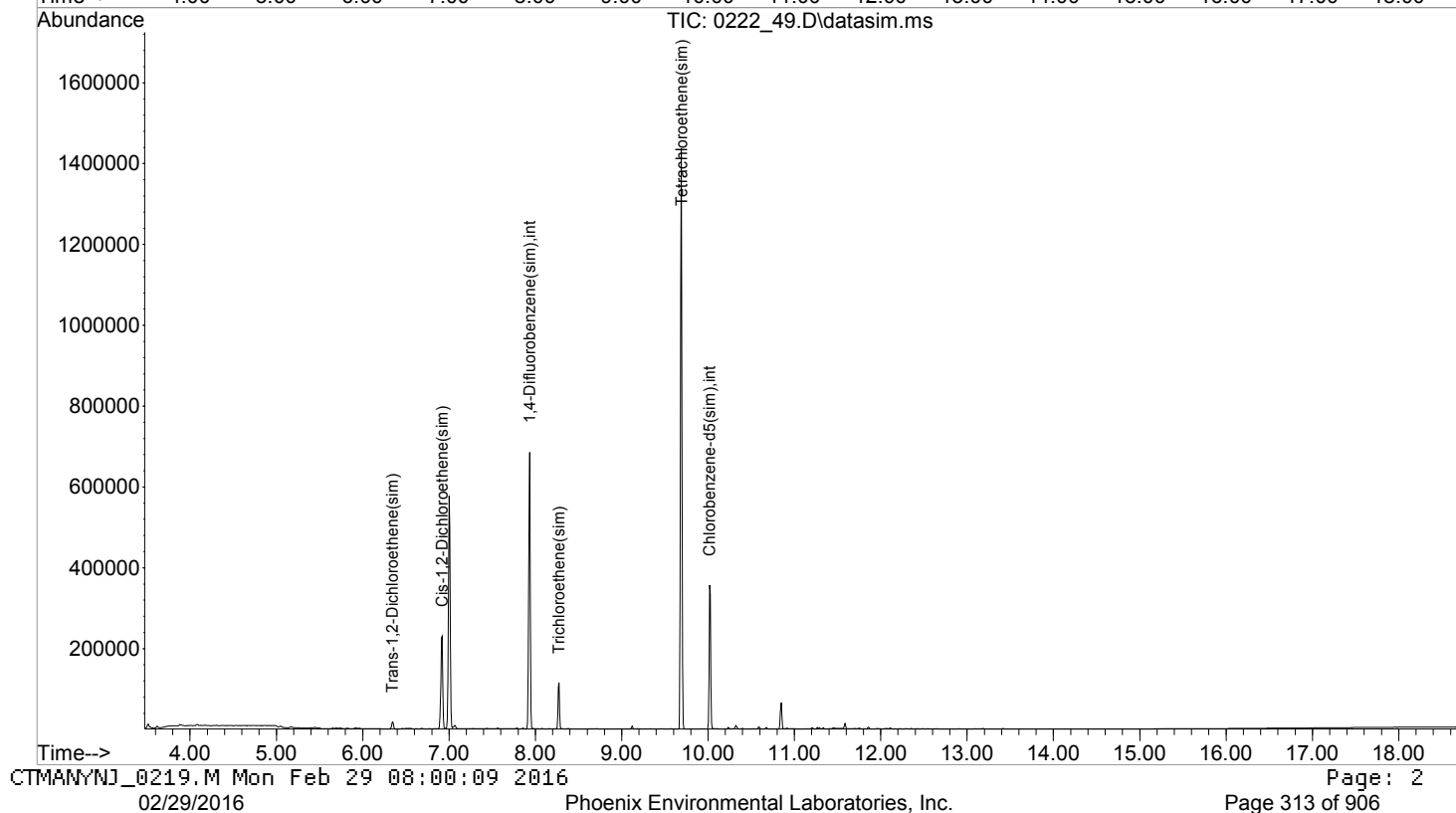
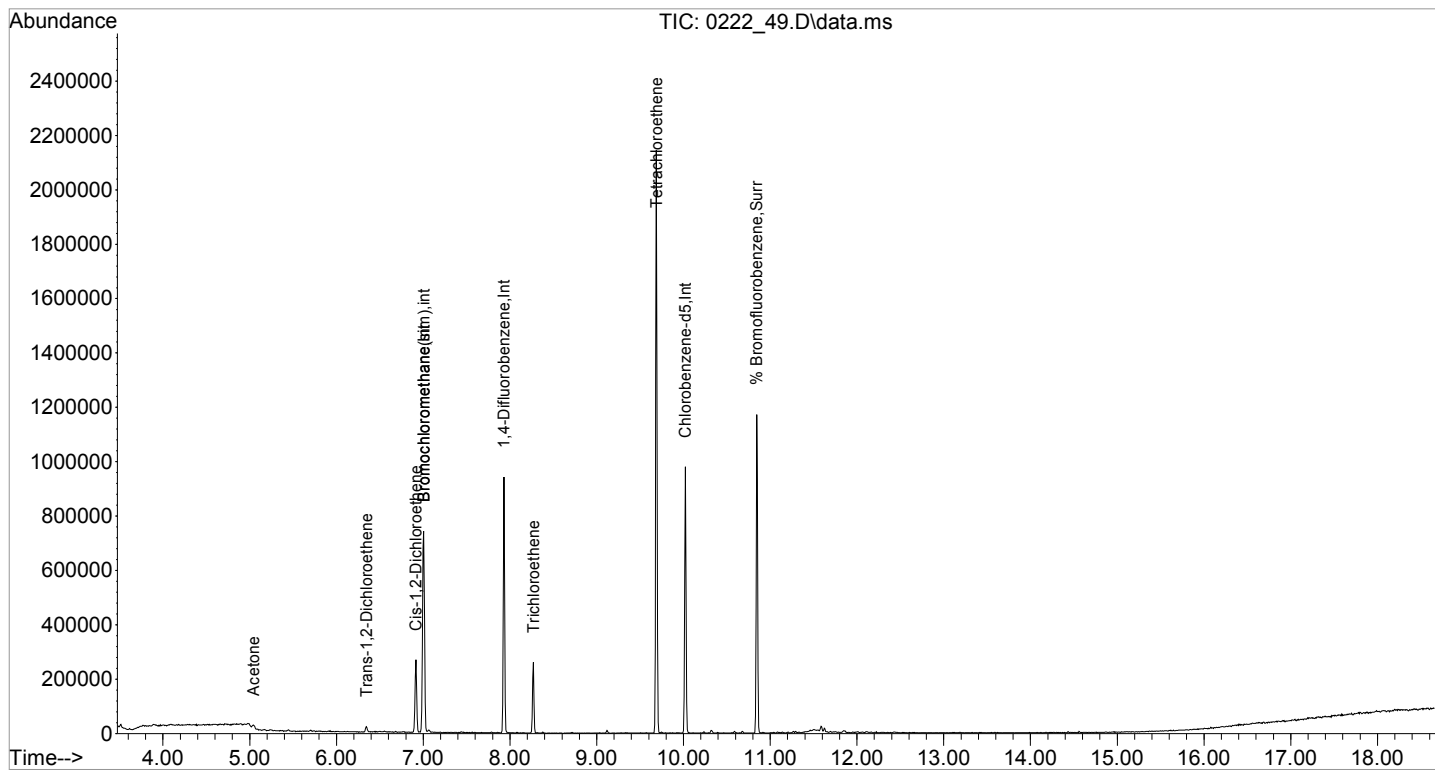
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

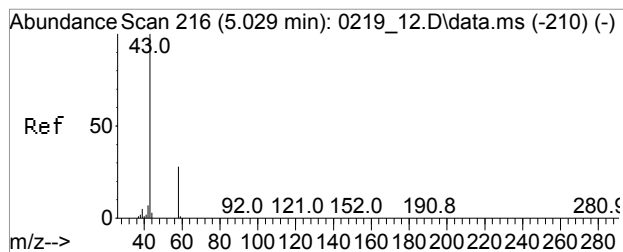
Internal Standards						
1) Bromochloromethane	7.006	130	158379	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	423042	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	184608	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	158379	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	513754	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	198768	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	252740	10.368	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.70%
Target Compounds						
					Qvalue	
11) Acetone	5.043	43	14190	0.503	ppbv	90
21) Trans-1,2-Dichloroethene	6.345	61	8743	0.278	ppbv	91
25) Cis-1,2-Dichloroethene	6.915	61	117644	4.792	ppbv	90
38) Trichloroethene	8.270	130	47278	3.218	ppbv	94
51) Tetrachloroethene	9.688	166	372298	17.462	ppbv	97
91] Trans-1,2-Dichloroethe...	6.345	61	8743	0.265	ppbv	91
93] Cis-1,2-Dichloroethene...	6.915	61	117644	4.551	ppbv	90
99] Trichloroethene(sim)	8.270	130	47278	2.686	ppbv	96
105] Tetrachloroethene(sim)	9.688	166	372298	17.232	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_49.D
Acq On : 23 Feb 2016 07:17 pm
Operator : CORTEX\ms
Client ID : SS-9 DIL
Lab ID : BK67660 30X
ALS Vial : 1 Sample Multiplier: 1

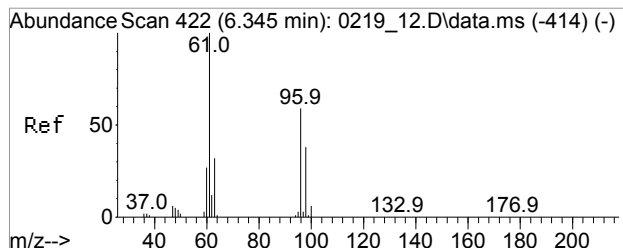
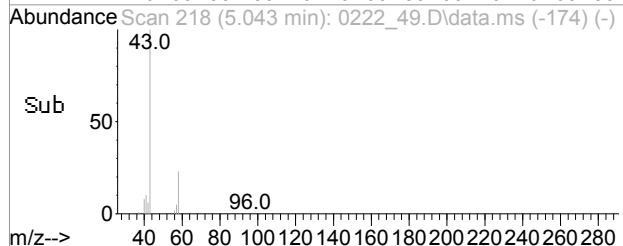
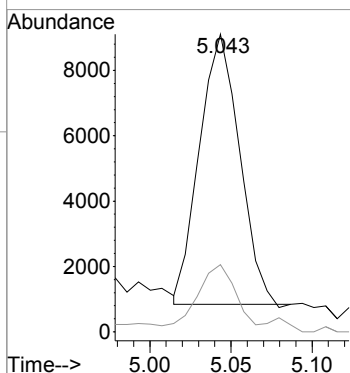
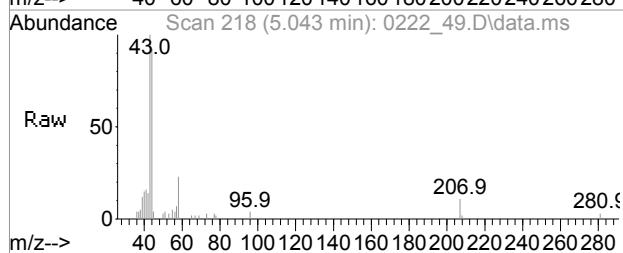
Quant Time: Feb 24 08:28:07 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





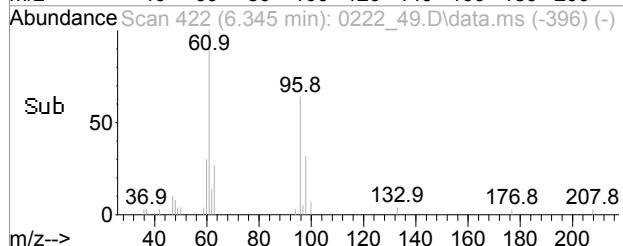
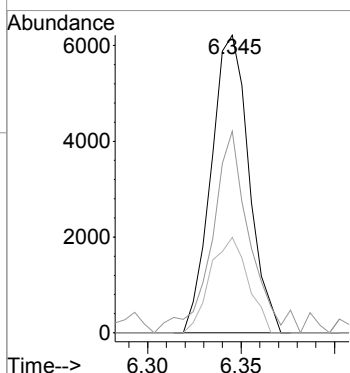
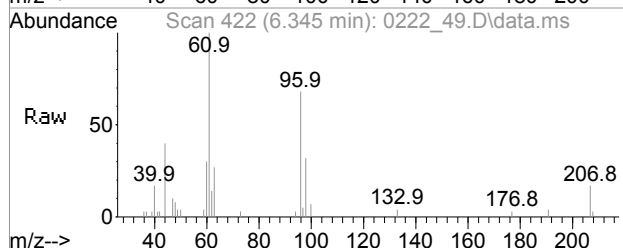
#11
Acetone
Concen: 0.50 ppbv
RT: 5.043 min Scan# 218
Delta R.T. 0.014 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

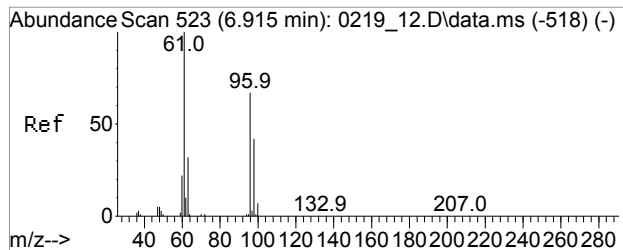
Tgt Ion: 43 Resp: 14190
Ion Ratio Lower Upper
43 100
58 25.3 24.8 37.2



#21
Trans-1,2-Dichloroethene
Concen: 0.28 ppbv
RT: 6.345 min Scan# 422
Delta R.T. 0.000 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

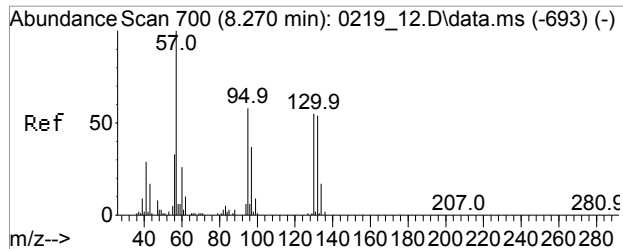
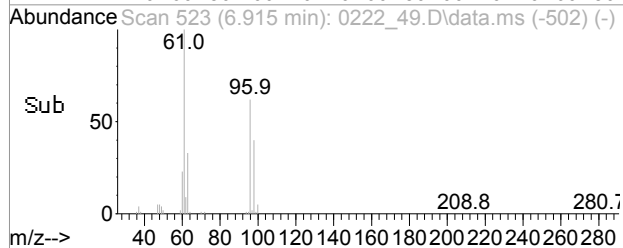
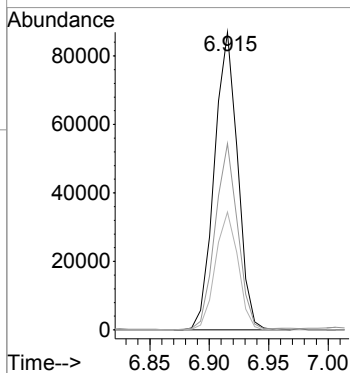
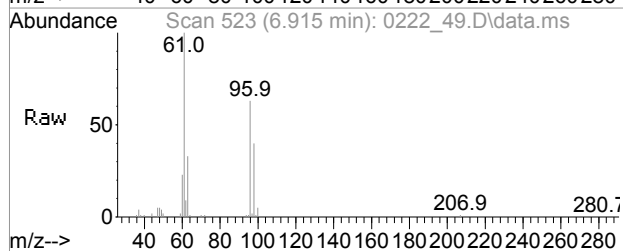
Tgt Ion: 61 Resp: 8743
Ion Ratio Lower Upper
61 100
96 67.2 48.4 72.6
98 32.1 30.6 45.8





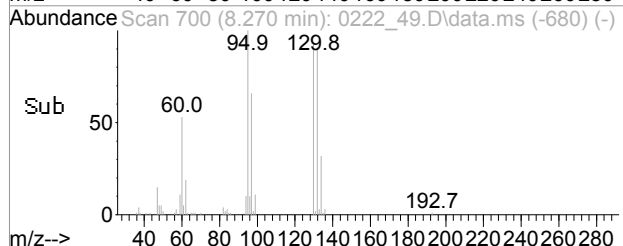
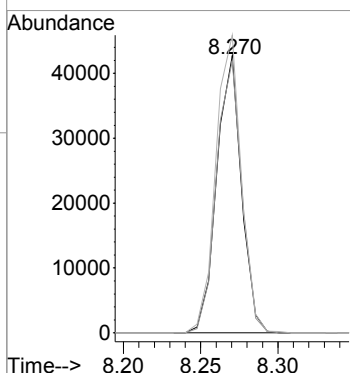
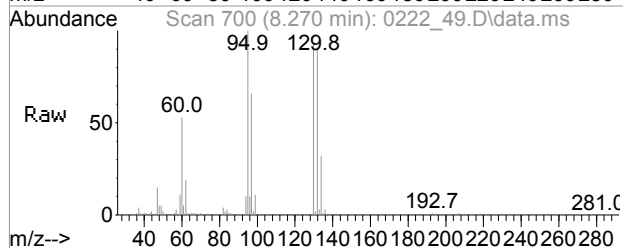
#25
Cis-1,2-Dichloroethene
Concen: 4.79 ppbv
RT: 6.915 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

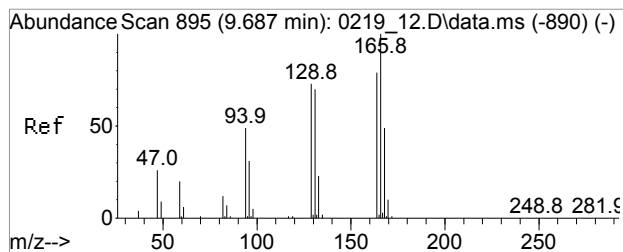
Tgt Ion: 61 Resp: 117644
Ion Ratio Lower Upper
61 100
96 60.9 55.1 82.7
98 38.7 35.7 53.5



#38
Trichloroethene
Concen: 3.22 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

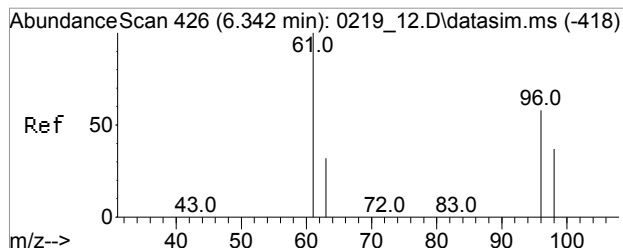
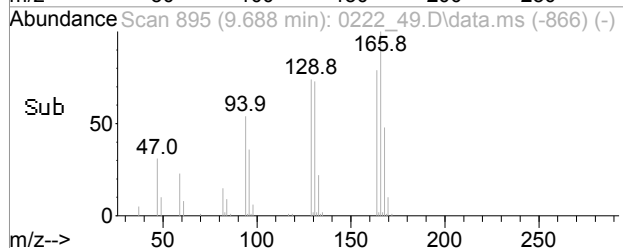
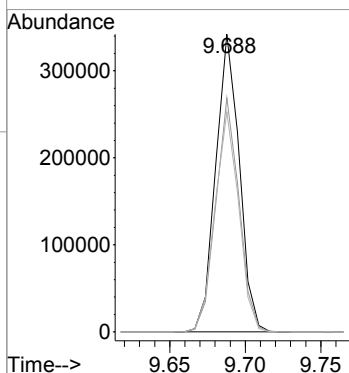
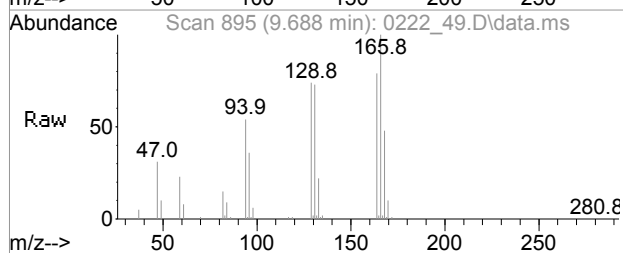
Tgt Ion: 130 Resp: 47278
Ion Ratio Lower Upper
130 100
132 100.1 77.2 115.8
95 111.4 82.7 124.1





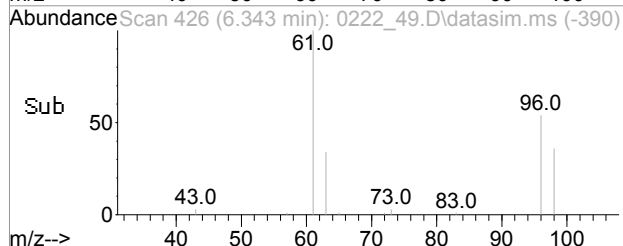
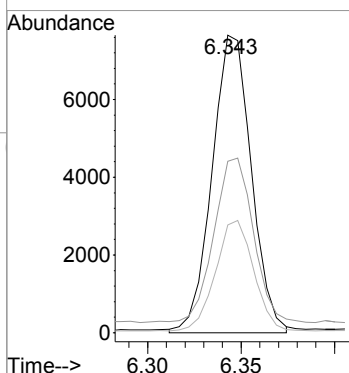
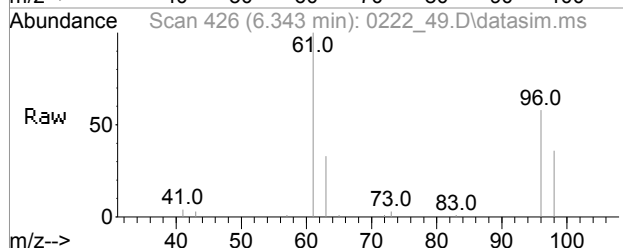
#51
Tetrachloroethene
Concen: 17.46 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

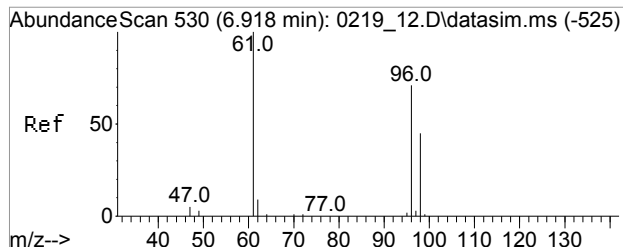
Tgt Ion: 166 Resp: 372298
Ion Ratio Lower Upper
166 100
164 77.5 62.2 93.4
129 74.7 56.6 84.8



#91
Trans-1,2-Dichloroethene(sim)
Concen: 0.26 ppbv
RT: 6.345 min Scan# 426
Delta R.T. 0.000 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

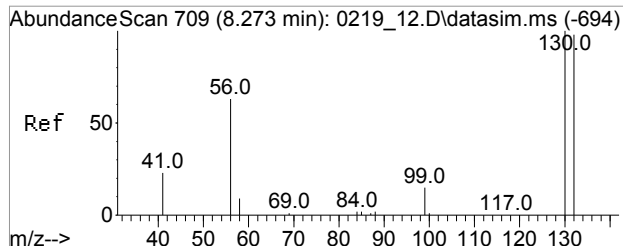
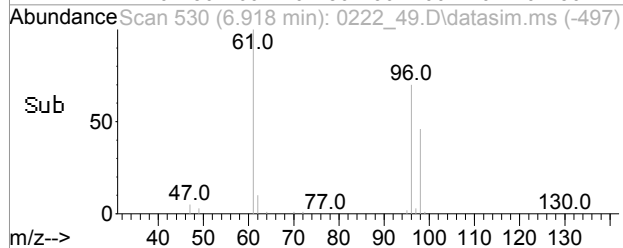
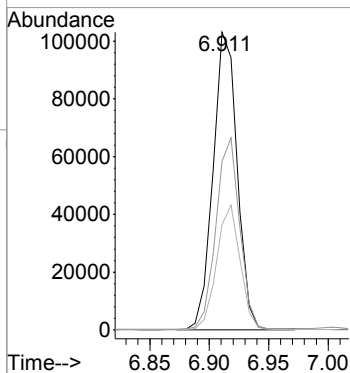
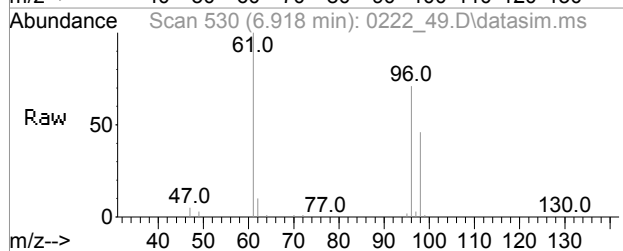
Tgt Ion: 61 Resp: 8743
Ion Ratio Lower Upper
61 100
96 67.2 48.4 72.6
98 32.1 30.6 45.8





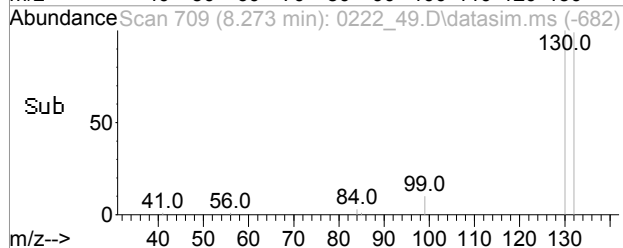
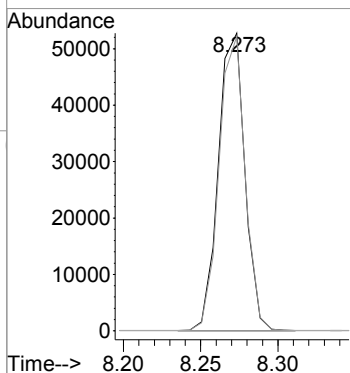
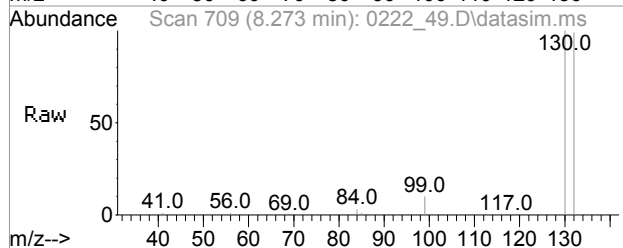
#93
Cis-1,2-Dichloroethene(sim)
Concen: 4.55 ppbv
RT: 6.915 min Scan# 530
Delta R.T. 0.000 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

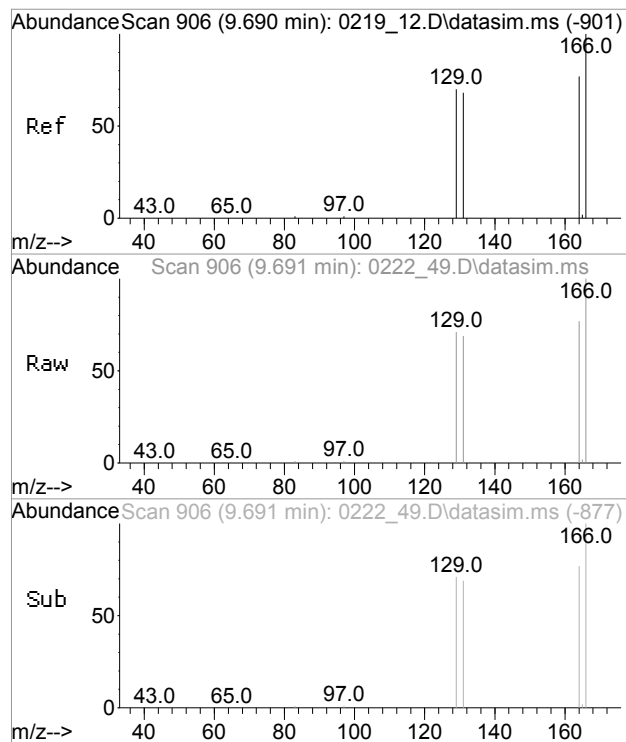
Tgt Ion	Ratio	Lower	Upper
61	100		
96	60.9	55.1	82.7
98	38.7	35.7	53.5



#99
Trichloroethene(sim)
Concen: 2.69 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_49.D
Acq: 23 Feb 2016 07:17 pm

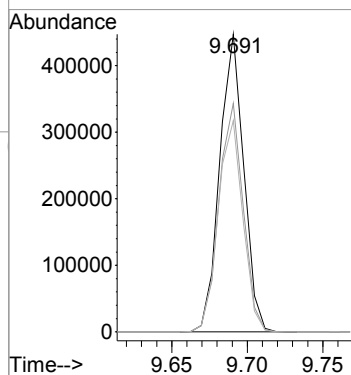
Tgt Ion	Ratio	Lower	Upper
130	100		
132	100.1	77.2	115.8
97	70.7	53.5	80.3





#105
 Tetrachloroethene(sim)
 Concen: 17.23 ppbv
 RT: 9.688 min Scan# 906
 Delta R.T. 0.001 min
 Lab File: 0222_49.D
 Acq: 23 Feb 2016 07:17 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.5	57.8	97.8
129	74.7	50.7	90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67661</u>
Canister:	<u>367</u>	Lab File ID:	<u>0222_11.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.507		0.202	0.202	r
74-87-3	Chloromethane	0.743		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	9.31	S	0.531	0.531	r
67-64-1	Acetone	7.92	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.492		0.178	0.178	r
67-63-0	Isopropylalcohol	0.680	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.580		0.339	0.339	r
110-54-3	Hexane	3.07	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	1.29		0.313	0.313	r
110-82-7	Cyclohexane	1.88		0.291	0.291	r
142-82-5	Heptane	2.02		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	5.82		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
100-41-4	Ethylbenzene	1.09		0.230	0.230	r
179601-23-1	m,p-Xylene	3.66		0.230	0.230	r
95-47-6	o-Xylene	1.75		0.230	0.230	r
98-82-8	Isopropylbenzene	0.218		0.204	0.204	r
622-96-8	4-Ethyltoluene	0.429		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.878		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.30		0.204	0.204	r
135-98-8	sec-Butylbenzene	1.73		0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67661</u>
Canister:	<u>367</u>	Lab File ID:	<u>0222_11.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
56-23-5	Carbon Tetrachloride(sim)	0.060		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.049		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
99-87-6	4-Isopropyltoluene(sim)	0.188		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_11.D
 Acq On : 22 Feb 2016 01:49 pm
 Operator : CORTEX\ms
 Client ID : AA-1
 Lab ID : BK67661
 ALS Vial : 1 Sample Multiplier: 1

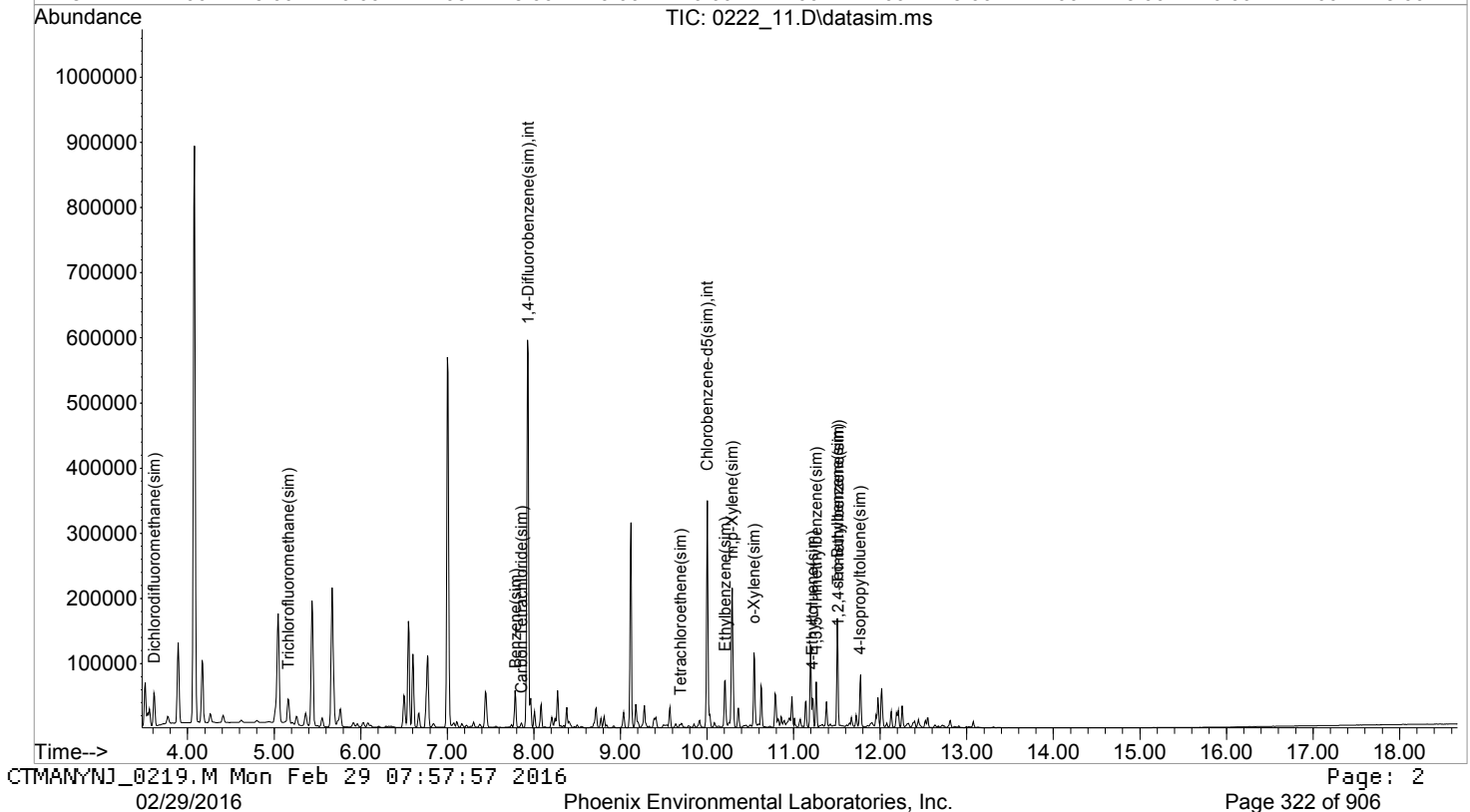
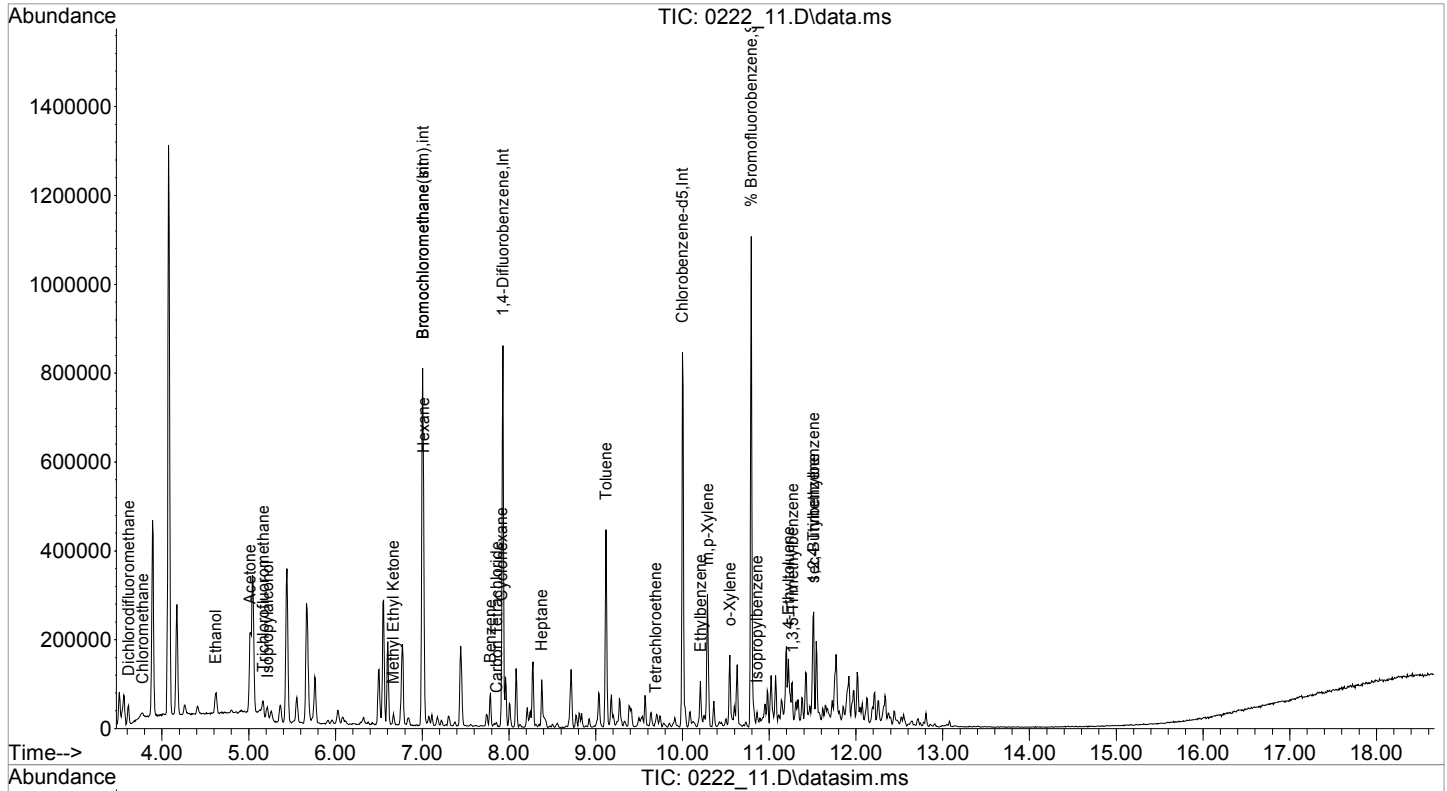
Quant Time: Feb 23 08:09:34 2016
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 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

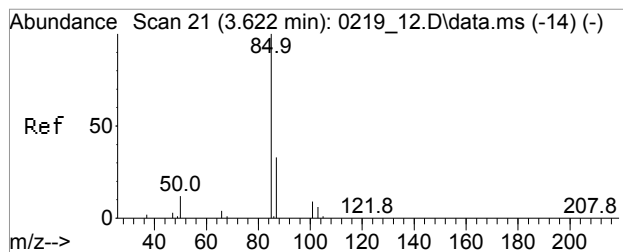
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	148839	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	395605	10.000	ng	0.00
52) Chlorobenzene-d5	9.999	82	169610	10.000	ng	-0.02
79) Bromochloromethane(sim)	7.006	130	148839	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	469847	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.002	82	179107	10.000	ng	-0.02
System Monitoring Compounds						
61) % Bromofluorobenzene	10.791	95	222145	9.918	ppbv	-0.05
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.20%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.615	85	32145	0.508	ppbv#	96
4) Chloromethane	3.774	52	3820	0.743	ppbv#	72
10) Ethanol	4.618	45	43895	9.306	ppbv#	95
11) Acetone	5.014	43	209935m	7.923	ppbv	
12) Trichlorofluoromethane	5.166	101	27565	0.492	ppbv#	94
13) Isopropylalcohol	5.216	45	32926	0.680	ppbv	96
24) Methyl Ethyl Ketone	6.668	43	21008	0.580	ppbv#	93
26) Hexane	7.014	57	58506	3.073	ppbv	90
32) Benzene	7.786	78	40912	1.289	ppbv	98
33) Carbon Tetrachloride	7.854	117	1831	0.061	ppbv#	76
34) Cyclohexane	7.914	41	15538	1.880	ppbv#	63
42) Heptane	8.376	43	25969	2.022	ppbv	95
47) Toluene	9.117	91	173161	5.819	ppbv	98
51) Tetrachloroethene	9.688	166	965	0.048	ppbv#	83
55) Ethylbenzene	10.207	91	45276	1.091	ppbv	98
56) m, p-Xylene	10.288	91	113717	3.657	ppbv	100
60) o-Xylene	10.547	91	58894	1.754	ppbv	98
63) Isopropylbenzene	10.858	105	9314	0.218	ppbv	97
65) 4-Ethyltoluene	11.221	105	19872m	0.429	ppbv	
66) 1,3,5-Trimethylbenzene	11.265	105	33839m	0.878	ppbv	
67) 1,2,4-Trimethylbenzene	11.510	105	81487m	2.297	ppbv	
72) sec-Butylbenzene	11.510	105	81597	1.730	ppbv#	78
80] Dichlorodifluoromethan...	3.611	85	41649	0.530	ppbv	99
84] Trichlorofluoromethane...	5.162	101	36671	0.514	ppbv	100
87] Carbon Tetrachloride(sim)	7.854	117	1831	0.060	ppbv#	76
95] Benzene(sim)	7.786	78	40912	1.163	ppbv	98
105] Tetrachloroethene(sim)	9.688	166	965	0.049	ppbv	83
110] Ethylbenzene(sim)	10.209	91	50405	1.047	ppbv	99
111] m, p-Xylene(sim)	10.288	91	113717	3.246	ppbv	100
114] o-Xylene(sim)	10.543	91	64016	1.633	ppbv	99
117] 4-Ethyltoluene(sim)	11.217	105	27136m	0.538	ppbv	
118] 1,3,5-Trimethylbenzene...	11.261	105	34834m	0.796	ppbv	
119] 1,2,4-Trimethylbenzene...	11.510	105	81597	2.135	ppbv#	85
124] sec-Butylbenzene(sim)	11.506	105	84975	1.493	ppbv	80
125] 4-Isopropyltoluene(sim)	11.762	119	10068	0.188	ppbv#	49

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_11.D
Acq On : 22 Feb 2016 01:49 pm
Operator : CORTEX\jms
Client ID : AA-1
Lab ID : BK67661
ALS Vial : 1 Sample Multiplier: 1

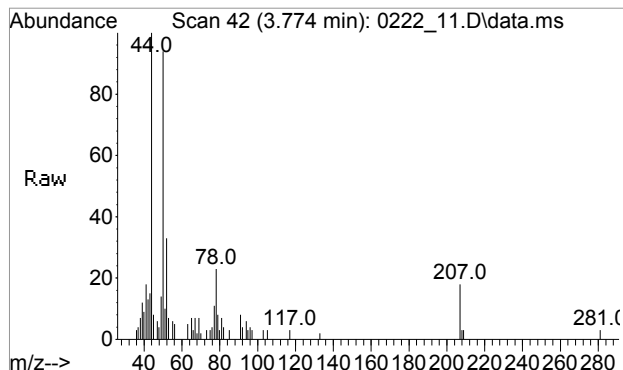
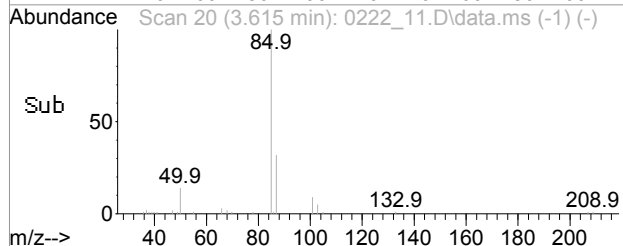
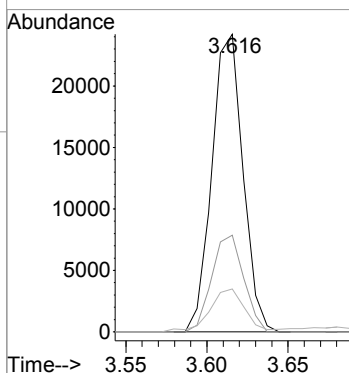
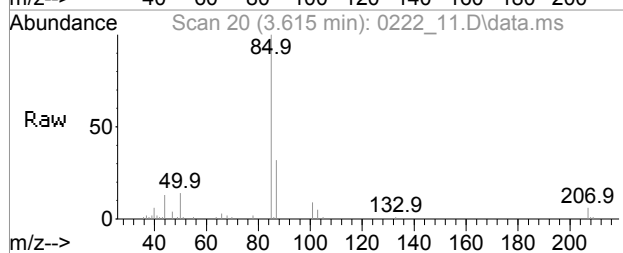
Quant Time: Feb 23 08:09:34 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





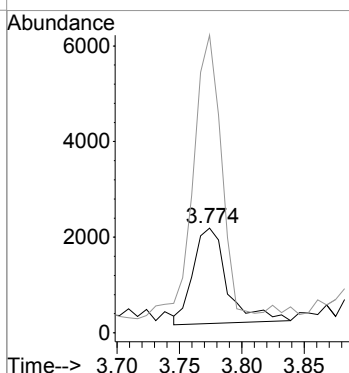
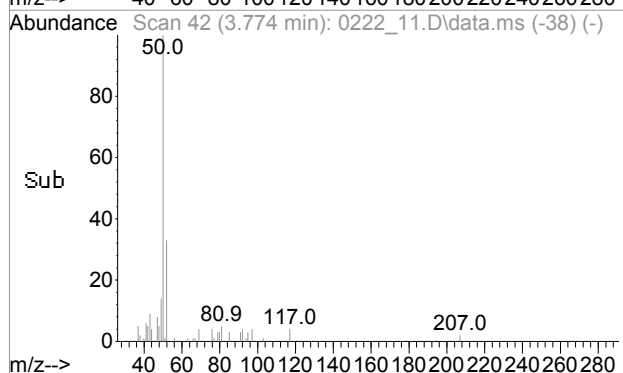
#3
Dichlorodifluoromethane
Concen: 0.51 ppbv
RT: 3.615 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

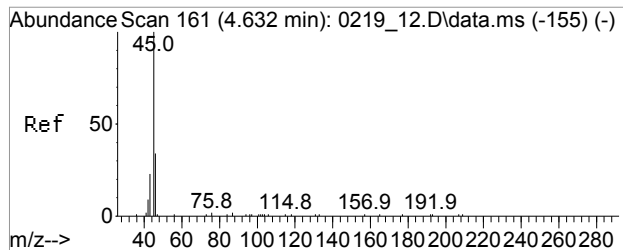
Tgt Ion: 85 Resp: 32145
Ion Ratio Lower Upper
85 100
87 33.5 26.1 39.1
50 16.5 10.5 15.7#



#4
Chloromethane
Concen: 0.74 ppbv
RT: 3.774 min Scan# 42
Delta R.T. -0.014 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

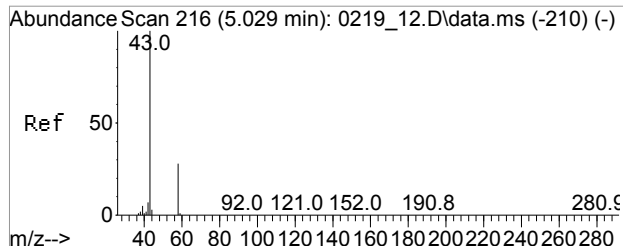
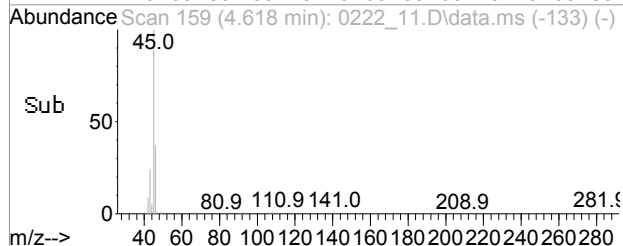
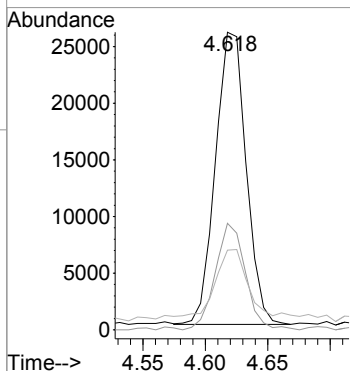
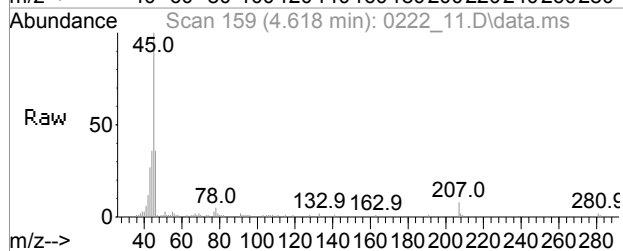
Tgt Ion: 52 Resp: 3820
Ion Ratio Lower Upper
52 100
50 248.6 284.4 324.4#





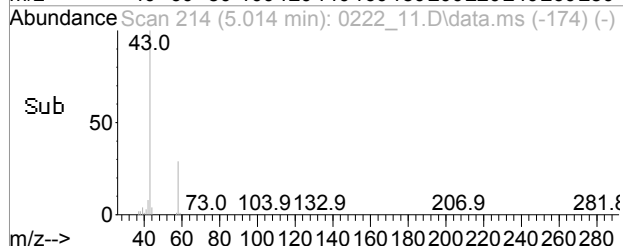
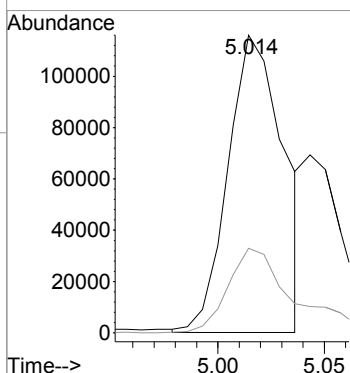
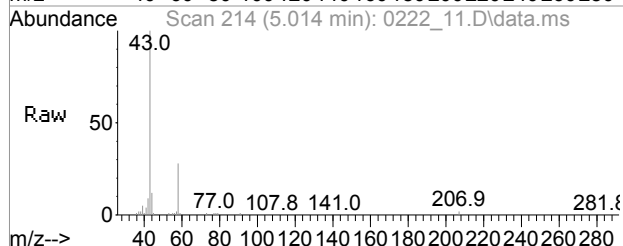
#10
Ethanol
Concen: 9.31 ppbv
RT: 4.618 min Scan# 159
Delta R.T. -0.014 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

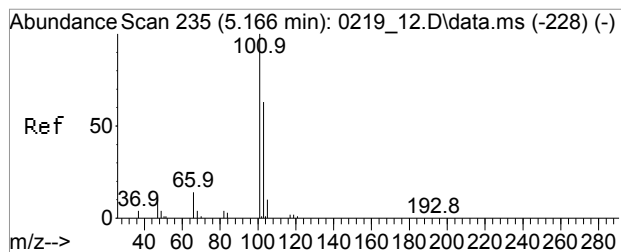
Tgt Ion: 45 Resp: 43895
Ion Ratio Lower Upper
45 100
46 35.7 28.5 42.7
43 30.2 19.7 29.5#



#11
Acetone
Concen: 7.92 ppbv m
RT: 5.014 min Scan# 214
Delta R.T. -0.015 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

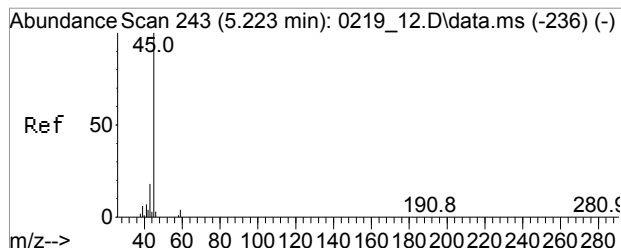
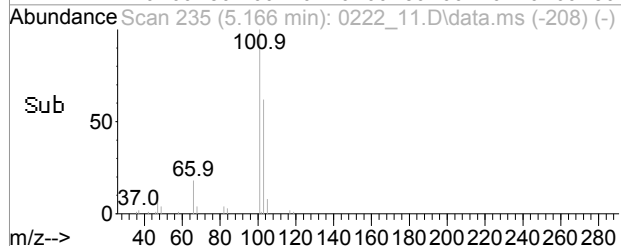
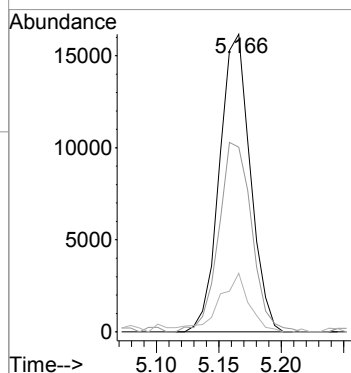
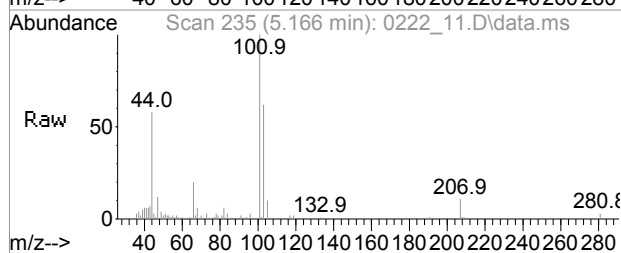
Tgt Ion: 43 Resp: 209935
Ion Ratio Lower Upper
43 100
58 33.4 24.8 37.2





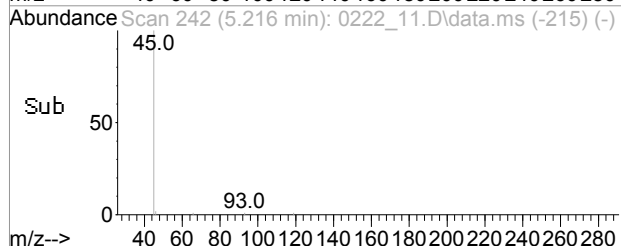
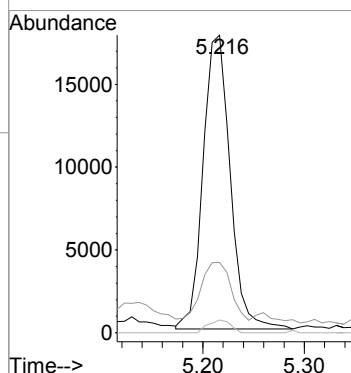
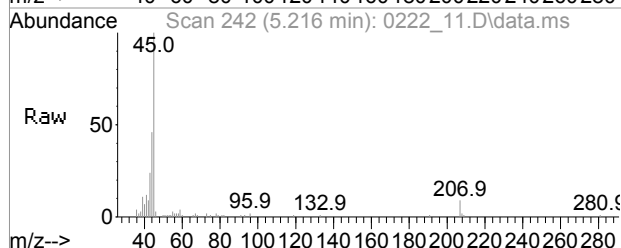
#12
Trichlorofluoromethane
Concen: 0.49 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

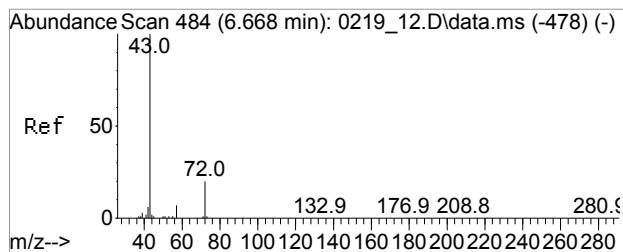
Tgt Ion: 101 Resp: 27565
Ion Ratio Lower Upper
101 100
103 68.3 51.8 77.8
66 19.1 11.1 16.7#



#13
Isopropylalcohol
Concen: 0.68 ppbv
RT: 5.216 min Scan# 242
Delta R.T. -0.007 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

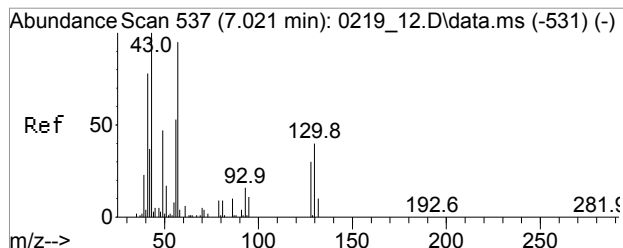
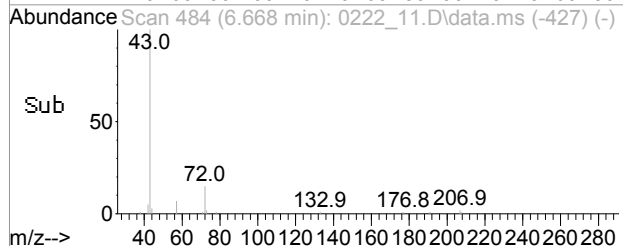
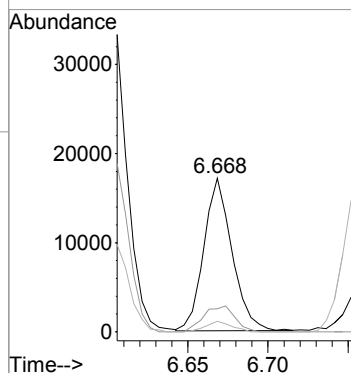
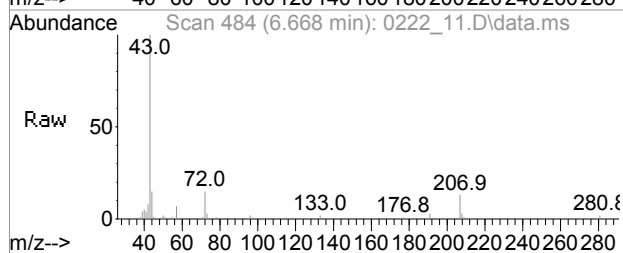
Tgt Ion: 45 Resp: 32926
Ion Ratio Lower Upper
45 100
43 21.2 15.4 23.0
59 3.6 3.0 4.4





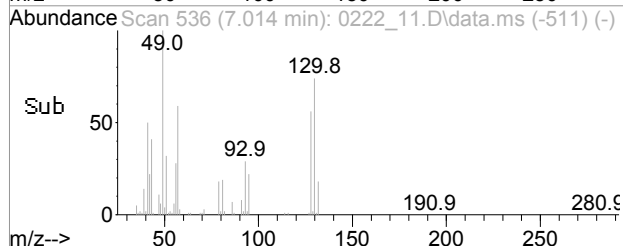
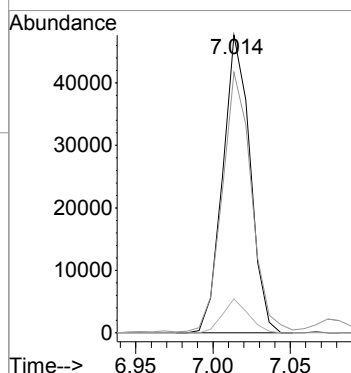
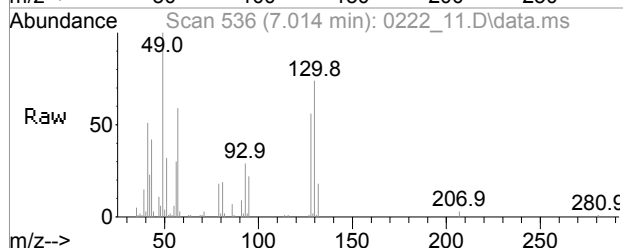
#24
Methyl Ethyl Ketone
Concen: 0.58 ppbv
RT: 6.668 min Scan# 484
Delta R.T. -0.005 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

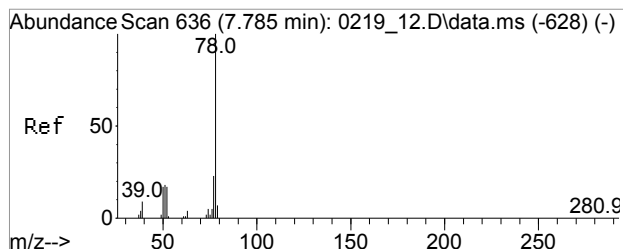
Tgt Ion: 43 Resp: 21008
Ion Ratio Lower Upper
43 100
72 18.7 15.9 23.9
57 0.0 5.6 8.4#



#26
Hexane
Concen: 3.07 ppbv
RT: 7.014 min Scan# 536
Delta R.T. -0.007 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

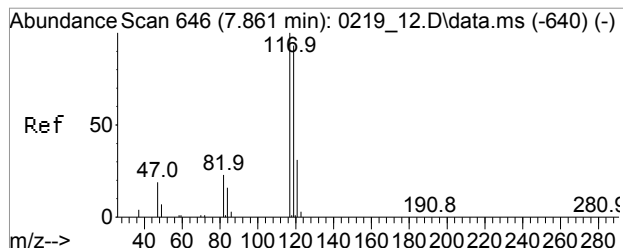
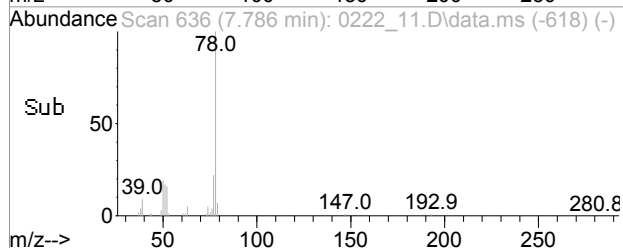
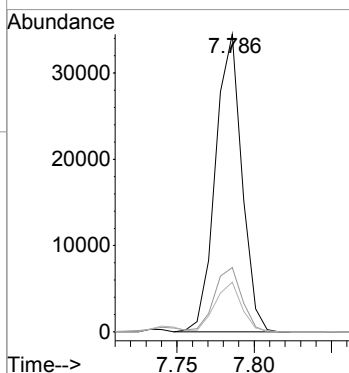
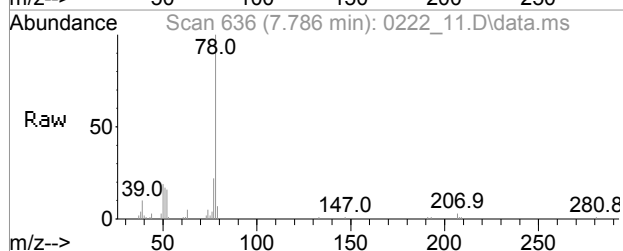
Tgt Ion: 57 Resp: 58506
Ion Ratio Lower Upper
57 100
41 94.8 67.4 101.2
86 10.8 9.3 13.9





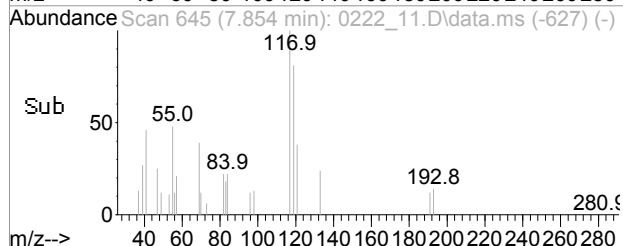
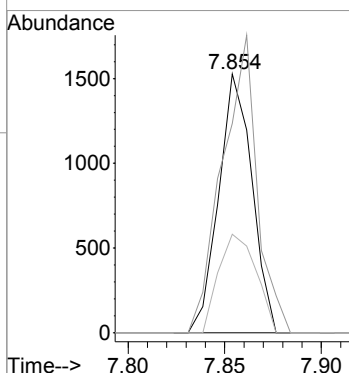
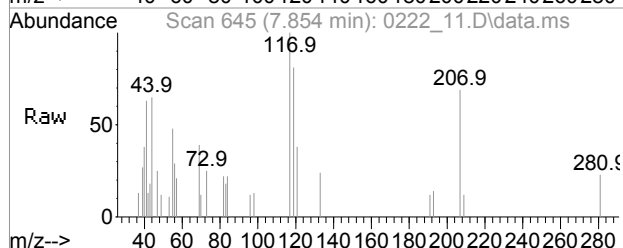
#32
Benzene
Concen: 1.29 ppbv
RT: 7.786 min Scan# 636
Delta R.T. 0.001 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

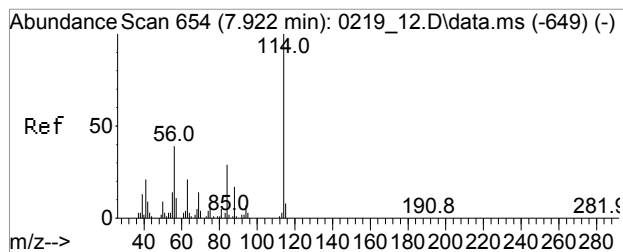
Tgt Ion: 78 Resp: 40912
Ion Ratio Lower Upper
78 100
77 22.5 18.6 27.8
51 17.0 14.9 22.3



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

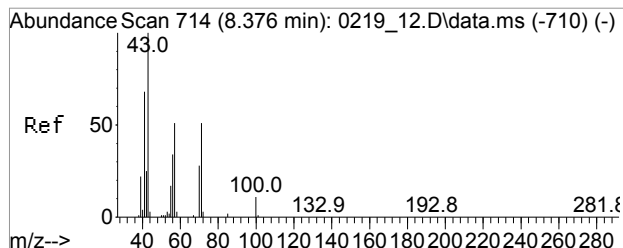
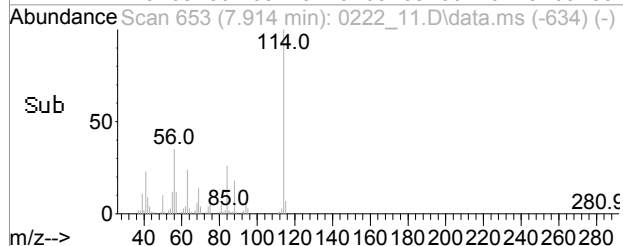
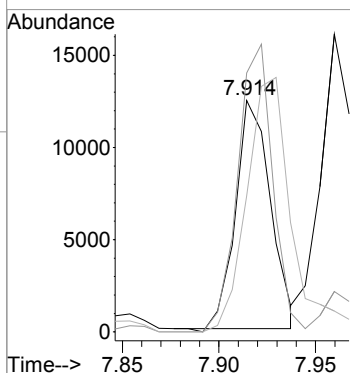
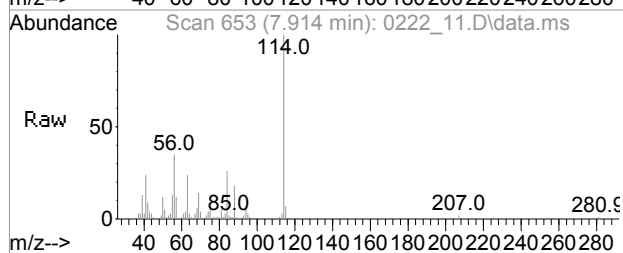
Tgt Ion: 117 Resp: 1831
Ion Ratio Lower Upper
117 100
119 120.2 75.9 115.9#
121 43.0 10.8 50.8





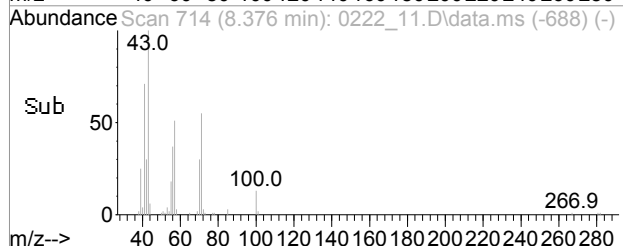
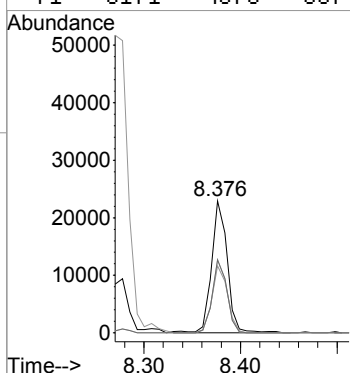
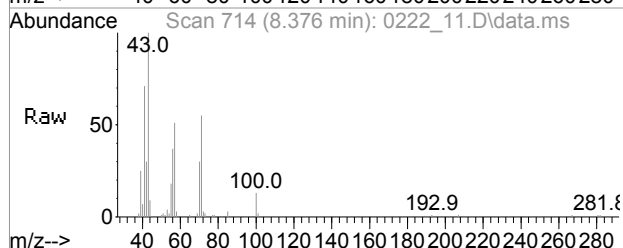
#34
Cyclohexane
Concen: 1.88 ppbv
RT: 7.914 min Scan# 653
Delta R.T. -0.008 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

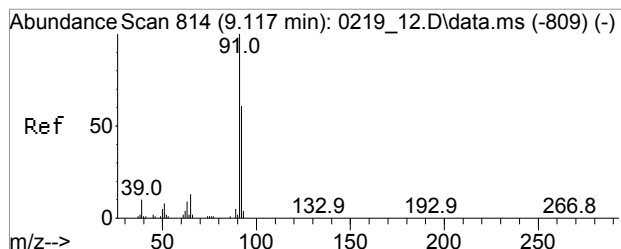
Tgt Ion: 41 Resp: 15538
Ion Ratio Lower Upper
41 100
84 126.4 111.0 166.6
69 141.4 52.8 79.2#



#42
Heptane
Concen: 2.02 ppbv
RT: 8.376 min Scan# 714
Delta R.T. 0.000 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

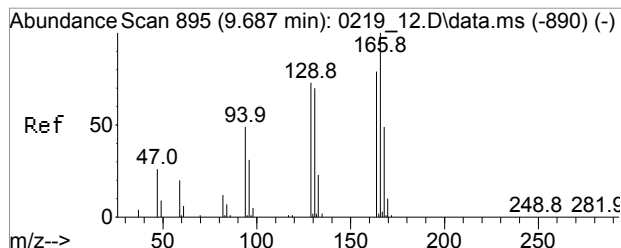
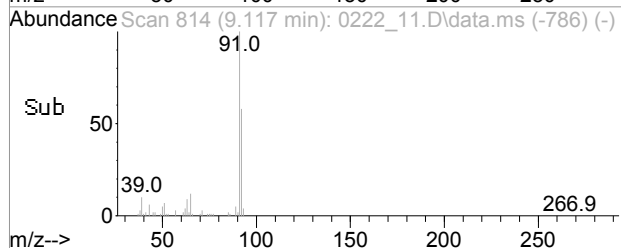
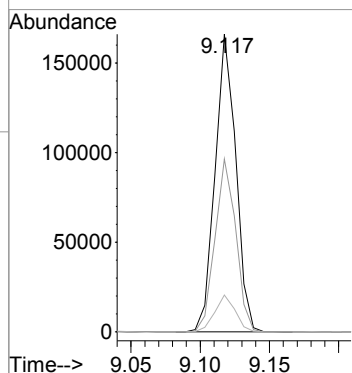
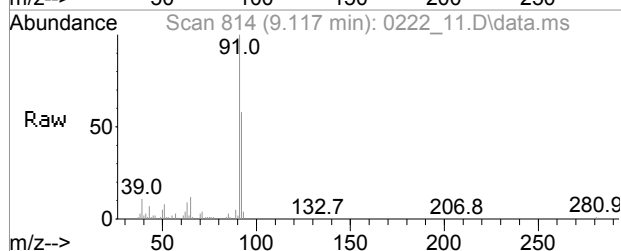
Tgt Ion: 43 Resp: 25969
Ion Ratio Lower Upper
43 100
57 49.8 43.0 64.4
71 51.1 43.6 65.4
71 51.1 43.6 65.4





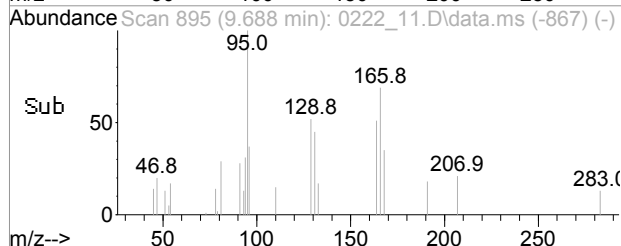
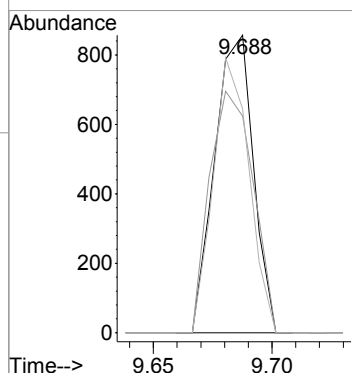
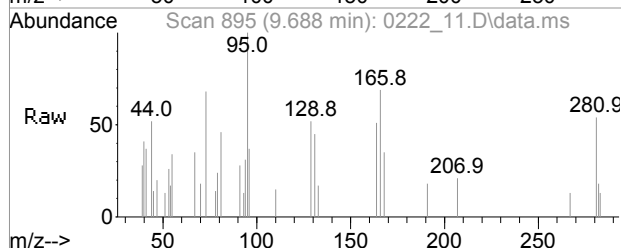
#47
Toluene
Concen: 5.82 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

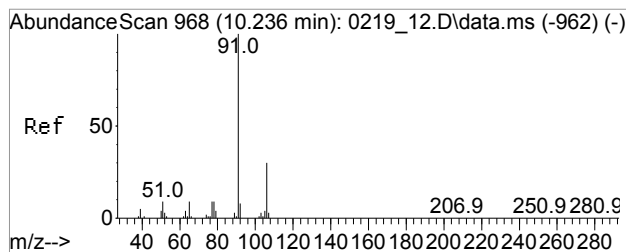
Tgt Ion: 91 Resp: 173161
Ion Ratio Lower Upper
91 100
92 58.2 47.7 71.5
65 12.3 9.5 14.3



#51
Tetrachloroethene
Concen: Below Cal
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

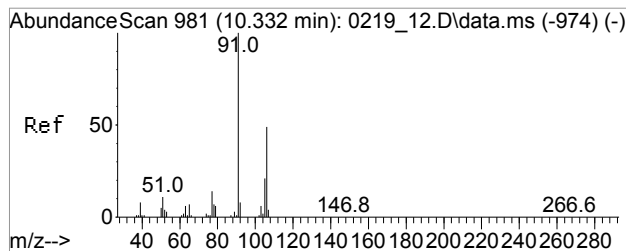
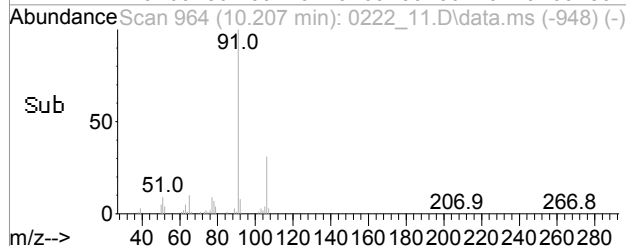
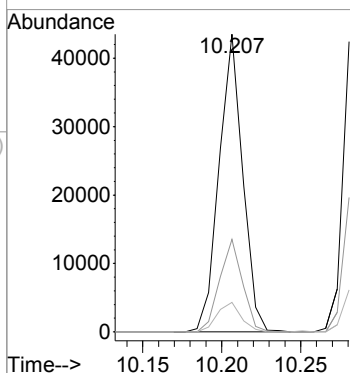
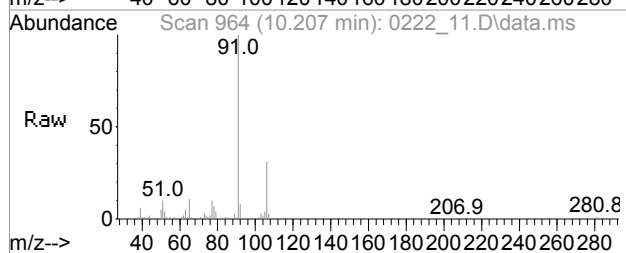
Tgt Ion: 166 Resp: 965
Ion Ratio Lower Upper
166 100
164 91.6 62.2 93.4
129 86.0 56.6 84.8#





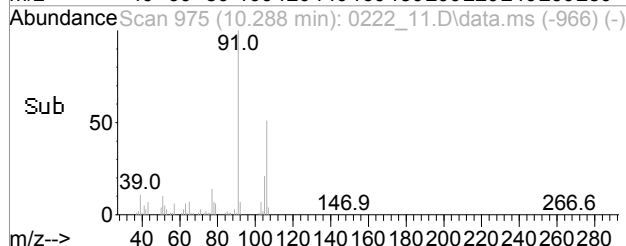
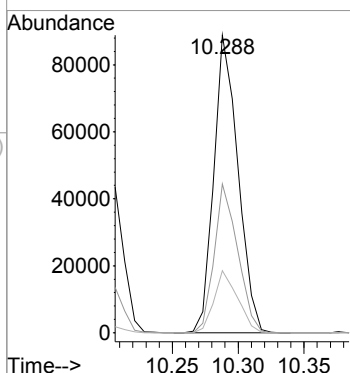
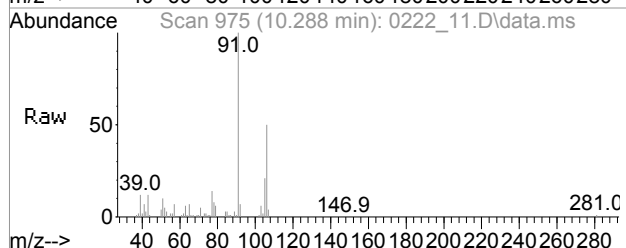
#55
Ethylbenzene
Concen: 1.09 ppbv
RT: 10.207 min Scan# 964
Delta R.T. -0.029 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

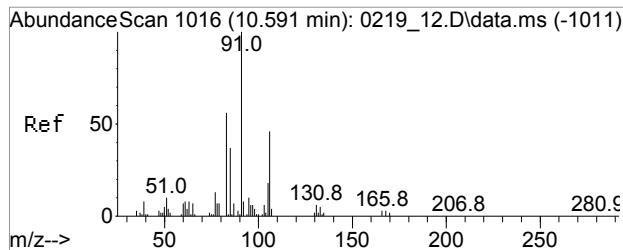
Tgt Ion: 91 Resp: 45276
Ion Ratio Lower Upper
91 100
106 30.1 10.8 50.8
77 10.1 0.0 28.9



#56
m,p-Xylene
Concen: 3.66 ppbv
RT: 10.288 min Scan# 975
Delta R.T. -0.037 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

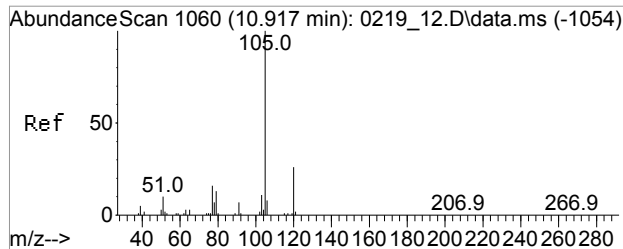
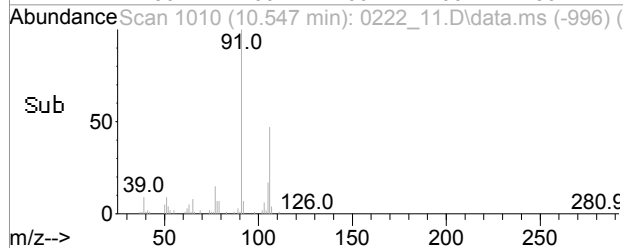
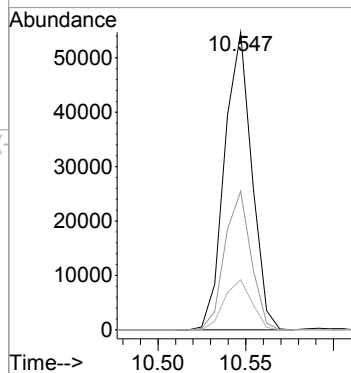
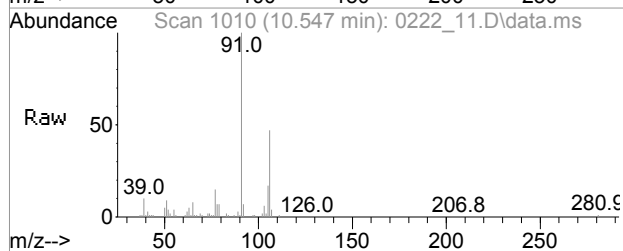
Tgt Ion: 91 Resp: 113717
Ion Ratio Lower Upper
91 100
106 48.5 38.7 58.1
105 20.4 16.6 25.0





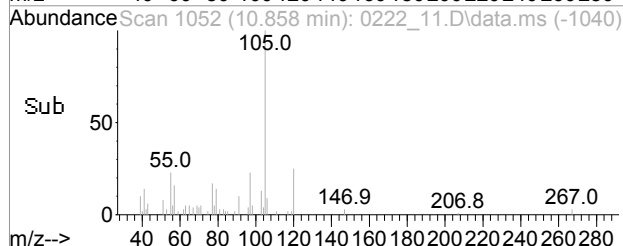
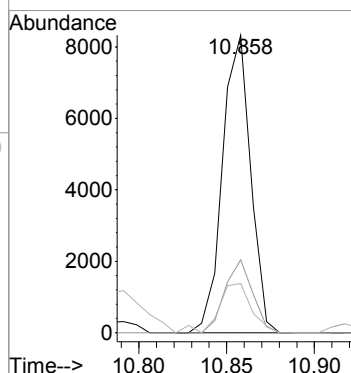
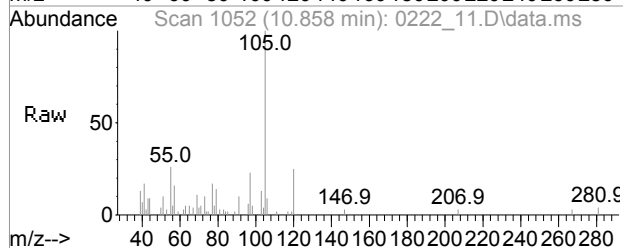
#60
o-Xylene
Concen: 1.75 ppbv
RT: 10.547 min Scan# 1010
Delta R.T. -0.044 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

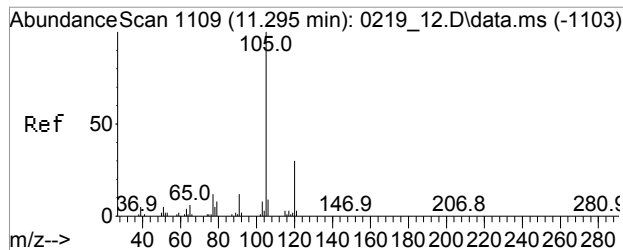
Tgt Ion: 91 Resp: 58894
Ion Ratio Lower Upper
91 100
106 45.1 37.4 56.2
105 17.1 14.1 21.1



#63
Isopropylbenzene
Concen: 0.22 ppbv
RT: 10.858 min Scan# 1052
Delta R.T. -0.059 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

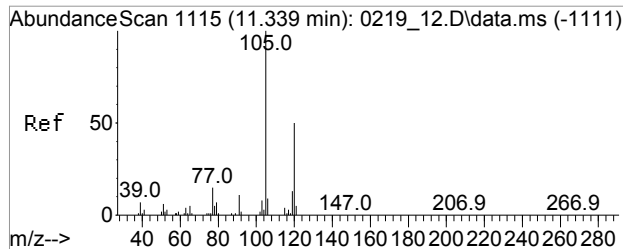
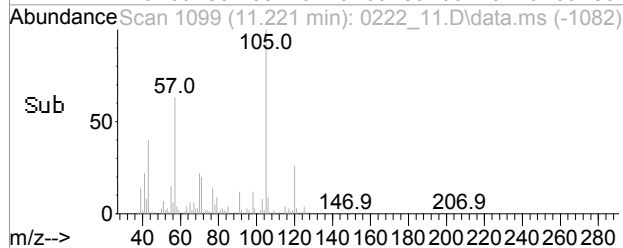
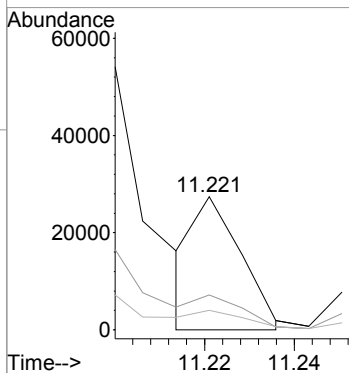
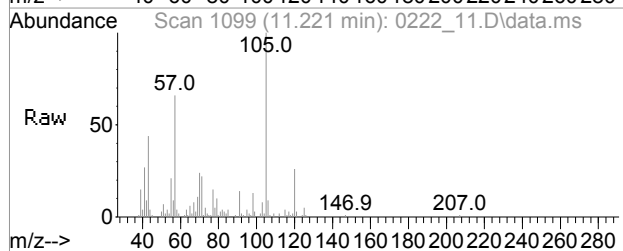
Tgt Ion: 105 Resp: 9314
Ion Ratio Lower Upper
105 100
120 24.1 19.4 29.2
77 19.3 13.2 19.8





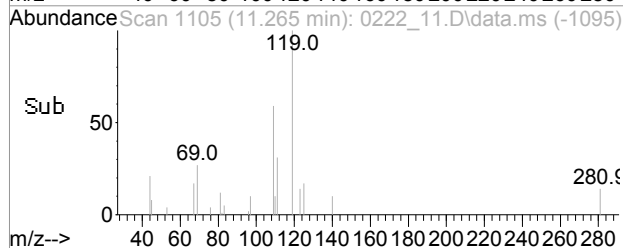
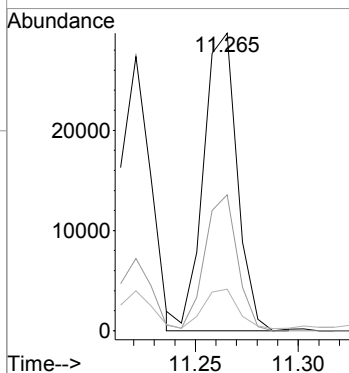
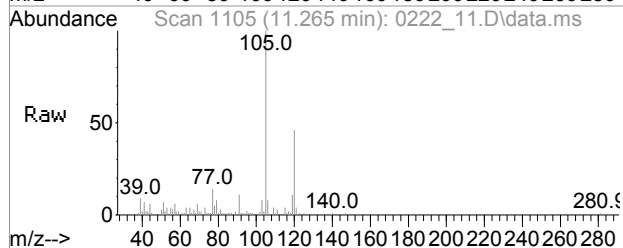
#65
4-Ethyltoluene
Concen: 0.43 ppbv m
RT: 11.221 min Scan# 1099
Delta R.T. -0.074 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

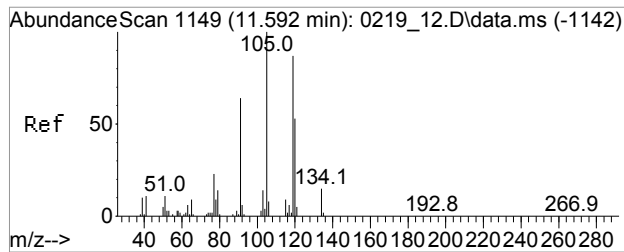
Tgt Ion:105 Resp: 19872
Ion Ratio Lower Upper
105 100
120 75.3 23.3 34.9#
77 23.0 10.0 15.0#



#66
1,3,5-Trimethylbenzene
Concen: 0.88 ppbv m
RT: 11.265 min Scan# 1105
Delta R.T. -0.074 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

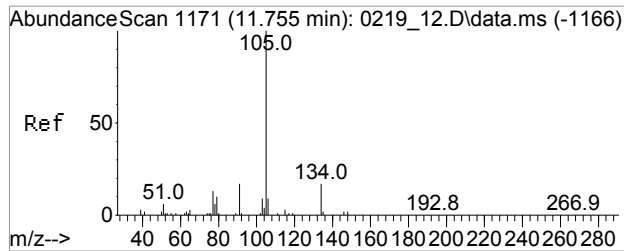
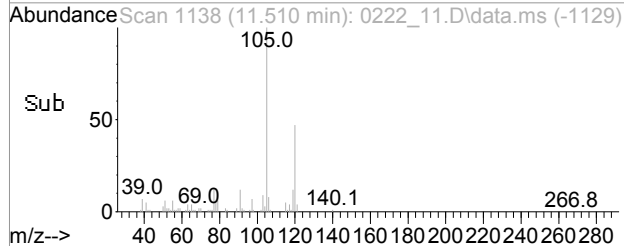
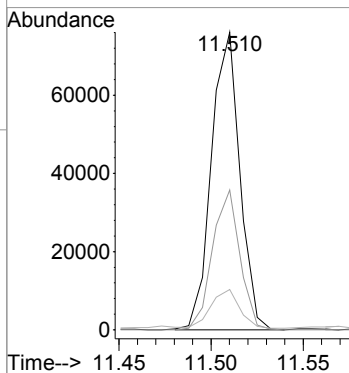
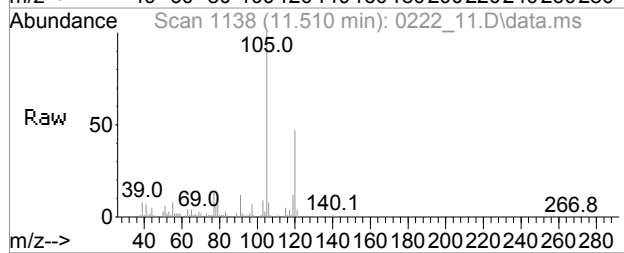
Tgt Ion:105 Resp: 33839
Ion Ratio Lower Upper
105 100
120 19.6 38.6 57.8#
77 9.3 11.3 16.9#





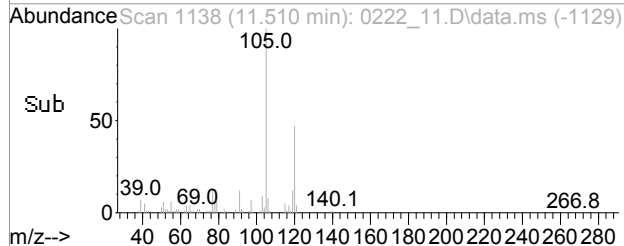
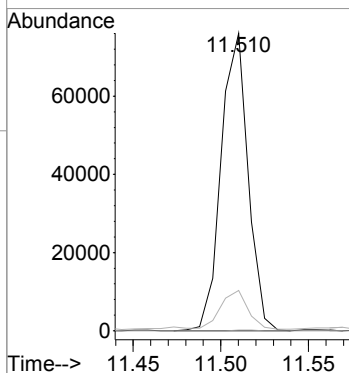
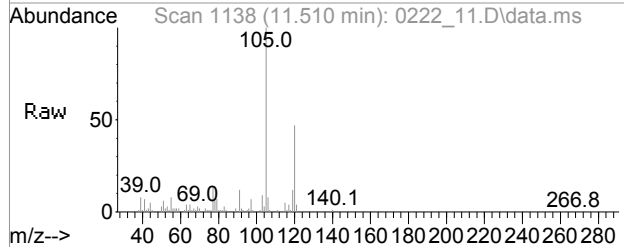
#67
1,2,4-Trimethylbenzene
Concen: 2.30 ppbv m
RT: 11.510 min Scan# 1138
Delta R.T. -0.081 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

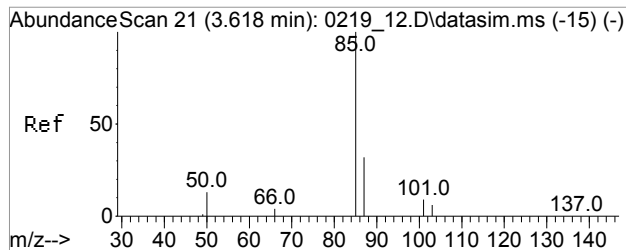
Tgt Ion:105 Resp: 81487
Ion Ratio Lower Upper
105 100
120 0.0 43.5 65.3#
77 2.3 20.2 30.4#



#72
sec-Butylbenzene
Concen: 1.73 ppbv
RT: 11.510 min Scan# 1138
Delta R.T. -0.081 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

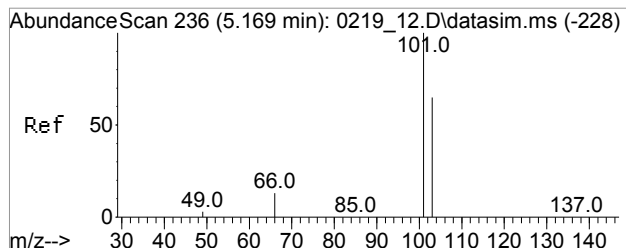
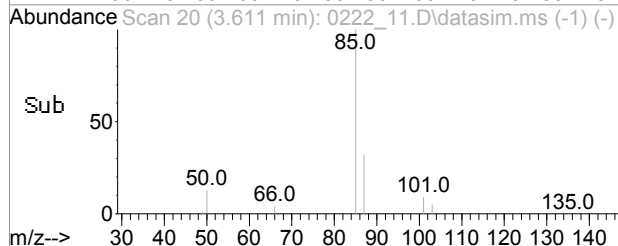
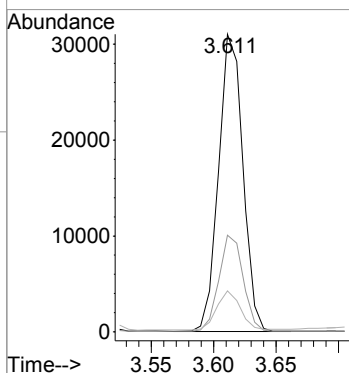
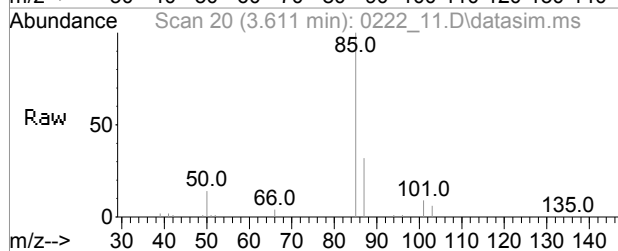
Tgt Ion:105 Resp: 81597
Ion Ratio Lower Upper
105 100
134 0.2 13.7 20.5#
77 13.5 11.0 16.4





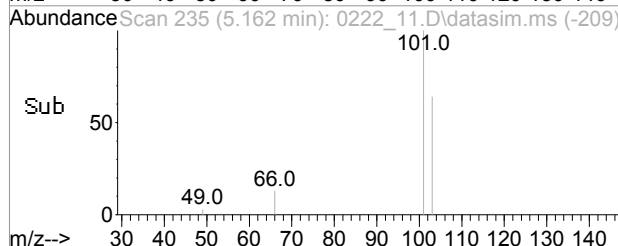
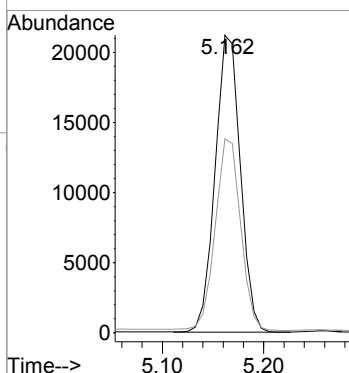
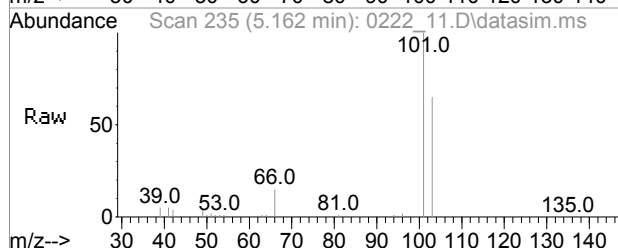
#80
Dichlorodifluoromethane(sim)
Concen: 0.53 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

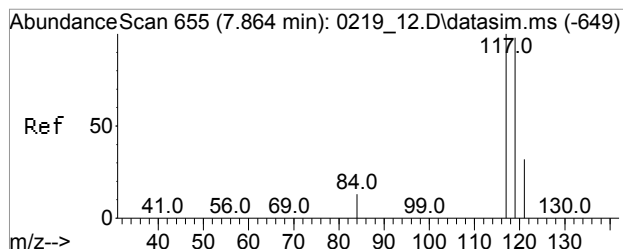
Tgt Ion: 85 Resp: 41649
Ion Ratio Lower Upper
85 100
87 32.2 12.7 52.7
50 12.9 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.51 ppbv
RT: 5.162 min Scan# 235
Delta R.T. -0.014 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

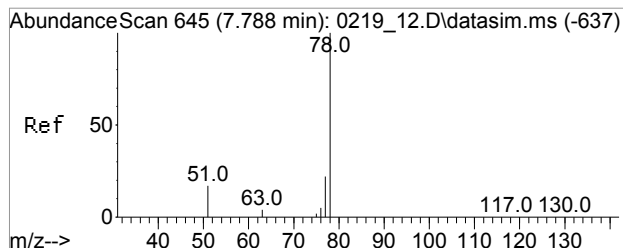
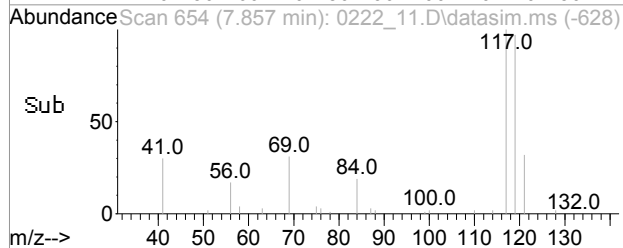
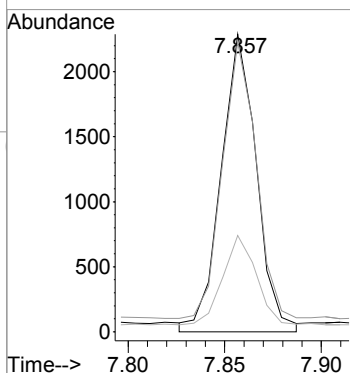
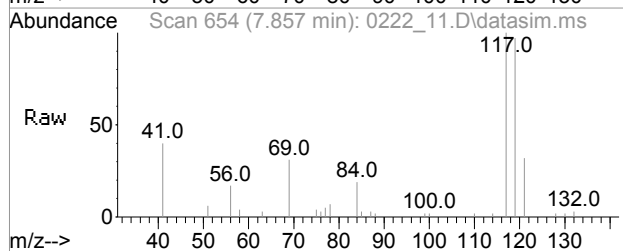
Tgt Ion:101 Resp: 36671
Ion Ratio Lower Upper
101 100
103 65.1 52.0 78.0





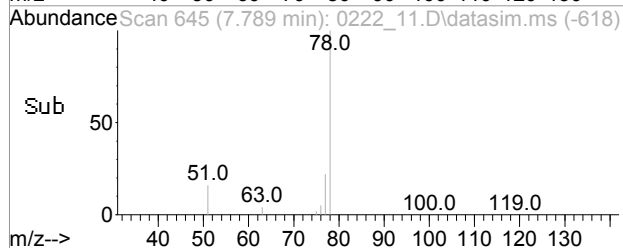
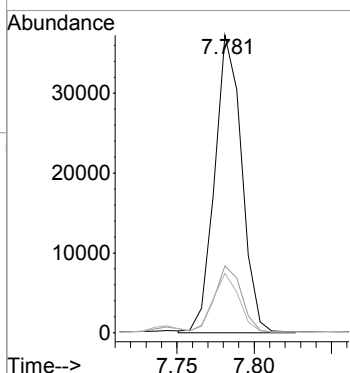
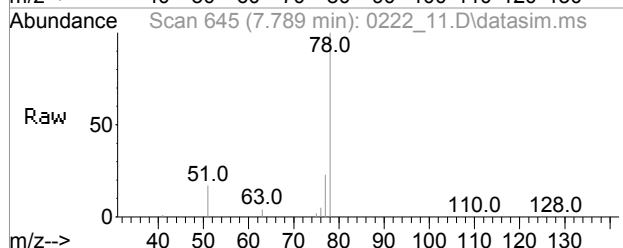
#87
Carbon Tetrachloride(sim)
Concen: 0.06 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

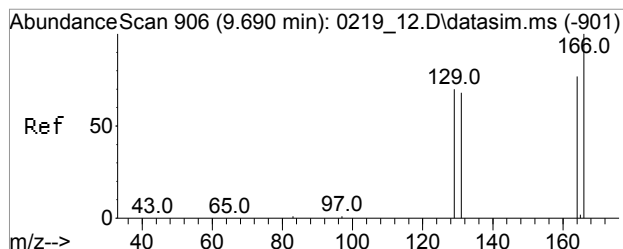
Tgt Ion: 117 Resp: 1831
Ion Ratio Lower Upper
117 100
119 120.2 76.7 115.1#
121 43.0 24.6 37.0#



#95
Benzene(sim)
Concen: 1.16 ppbv
RT: 7.786 min Scan# 645
Delta R.T. 0.001 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

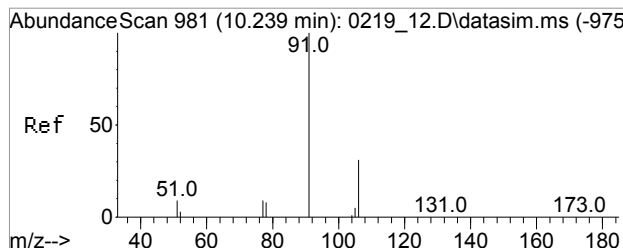
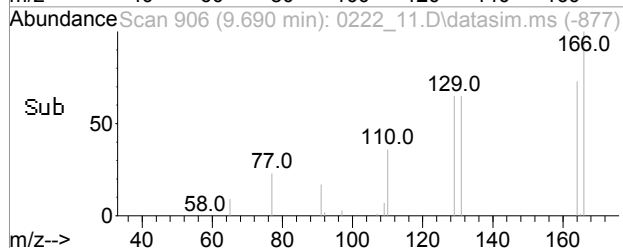
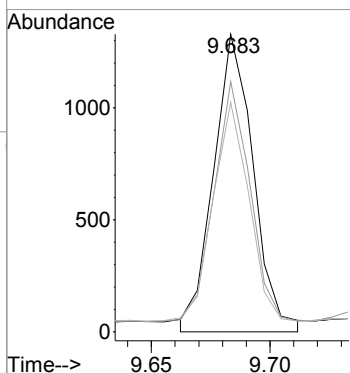
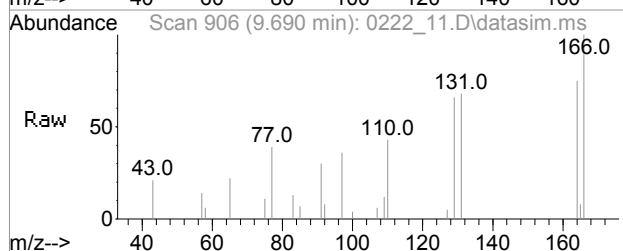
Tgt Ion: 78 Resp: 40912
Ion Ratio Lower Upper
78 100
77 22.5 22.0 24.4
51 17.0 14.9 22.3





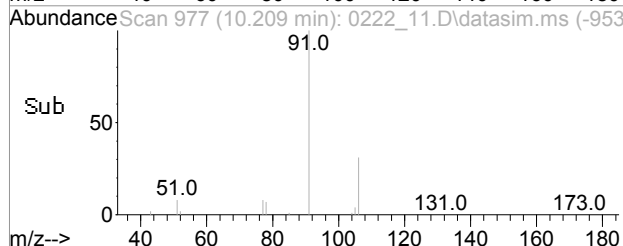
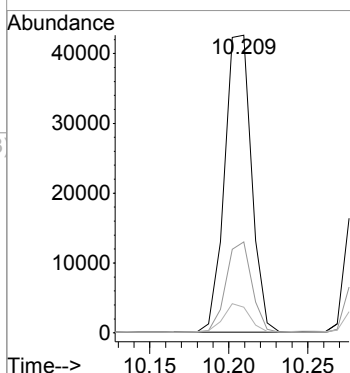
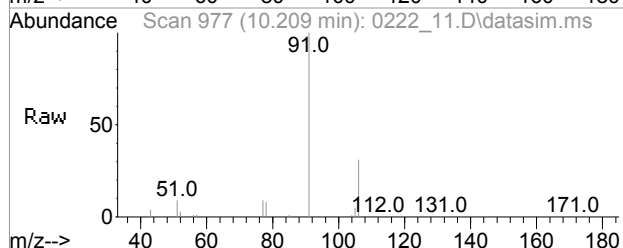
#105
Tetrachloroethene(sim)
Concen: 0.05 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

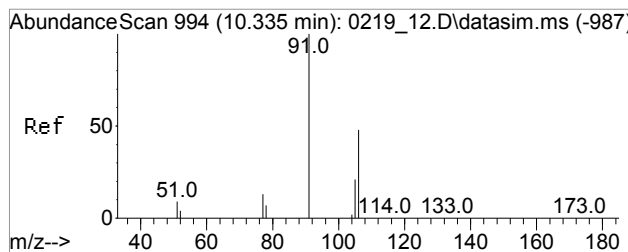
Tgt Ion: 166 Resp: 965
Ion Ratio Lower Upper
166 100
164 91.6 57.8 97.8
129 86.0 50.7 90.7



#110
Ethylbenzene(sim)
Concen: 1.05 ppbv
RT: 10.209 min Scan# 977
Delta R.T. -0.022 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

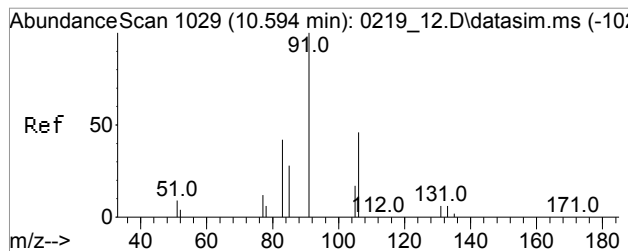
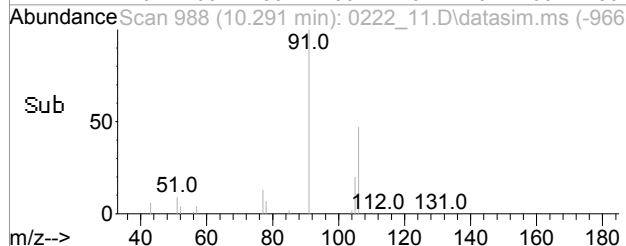
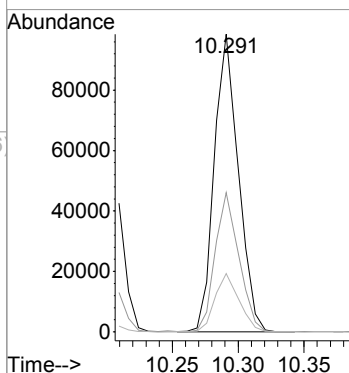
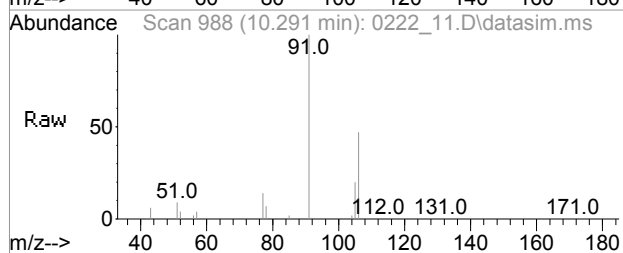
Tgt Ion: 91 Resp: 50405
Ion Ratio Lower Upper
91 100
106 29.4 24.0 36.0
77 9.4 7.3 10.9





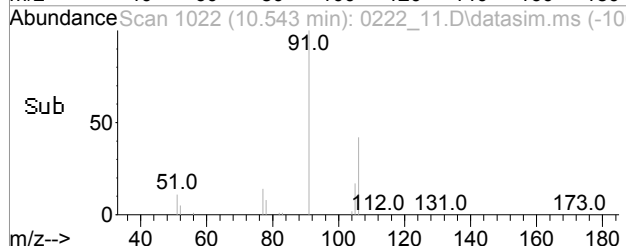
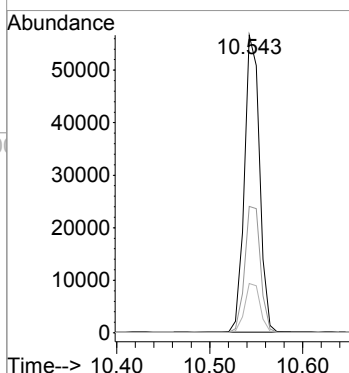
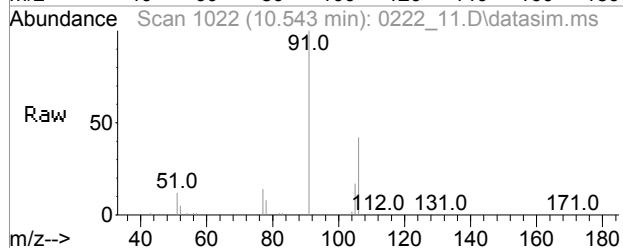
#111
m,p-Xylene(sim)
Concen: 3.25 ppbv
RT: 10.288 min Scan# 988
Delta R.T. -0.037 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

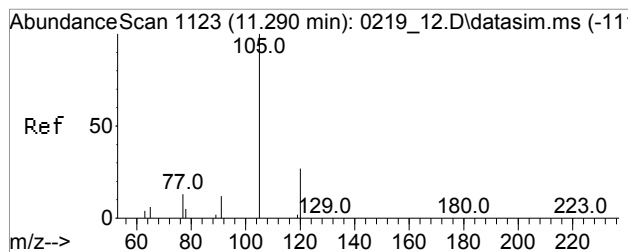
Tgt Ion: 91 Resp: 113717
Ion Ratio Lower Upper
91 100
106 48.5 43.6 53.2
105 20.4 16.6 25.0



#114
o-Xylene(sim)
Concen: 1.63 ppbv
RT: 10.543 min Scan# 1022
Delta R.T. -0.051 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

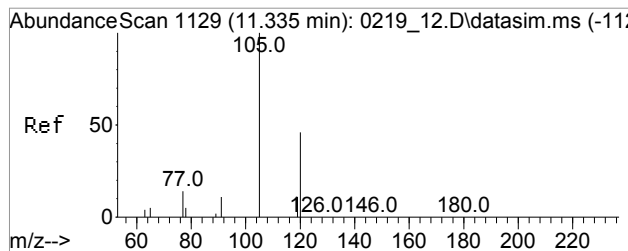
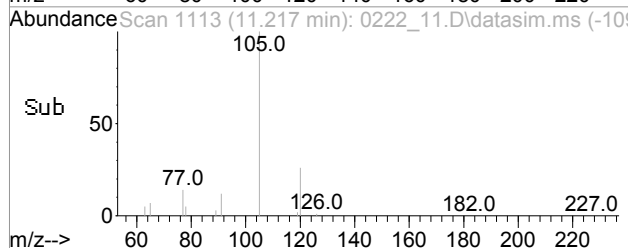
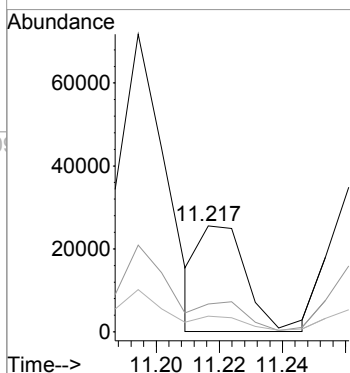
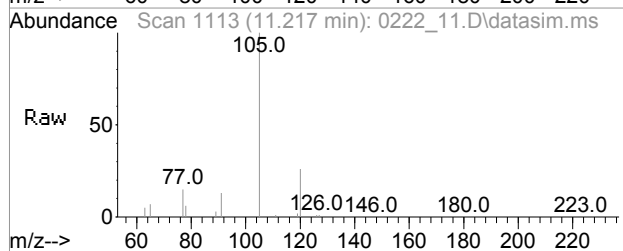
Tgt Ion: 91 Resp: 64016
Ion Ratio Lower Upper
91 100
106 44.1 36.0 54.0
105 16.9 13.8 20.8





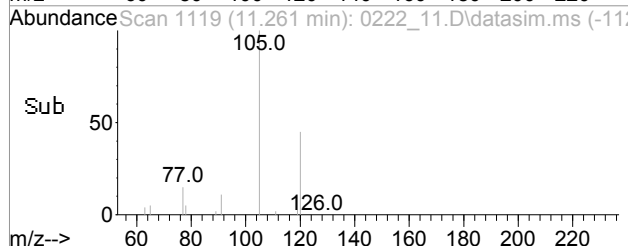
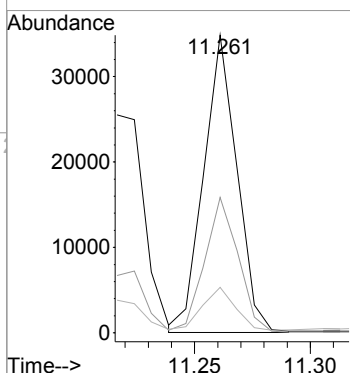
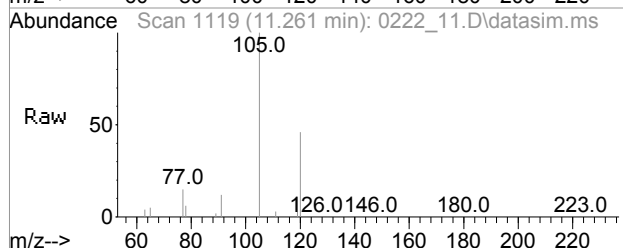
#117
4-Ethyltoluene(sim)
Concen: 0.54 ppbv m
RT: 11.217 min Scan# 1113
Delta R.T. -0.079 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

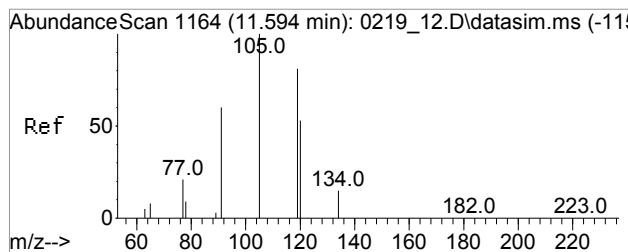
Tgt Ion:105 Resp: 27136
Ion Ratio Lower Upper
105 100
120 55.1 23.3 34.9#
77 16.9 10.0 15.0#



#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.80 ppbv m
RT: 11.261 min Scan# 1119
Delta R.T. -0.074 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

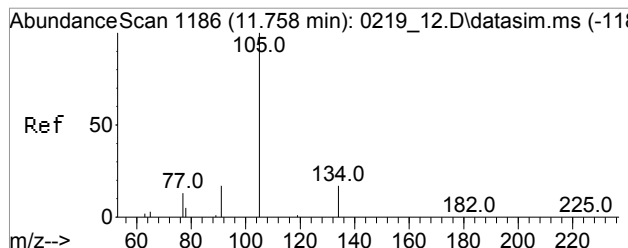
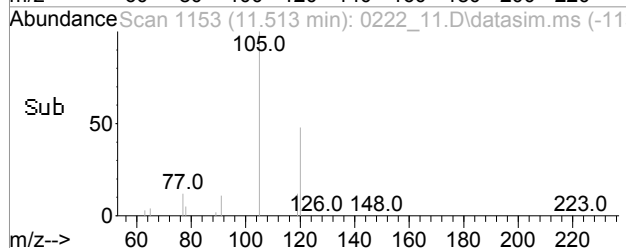
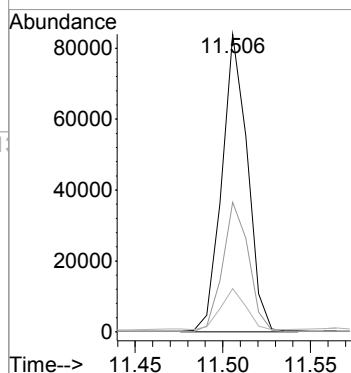
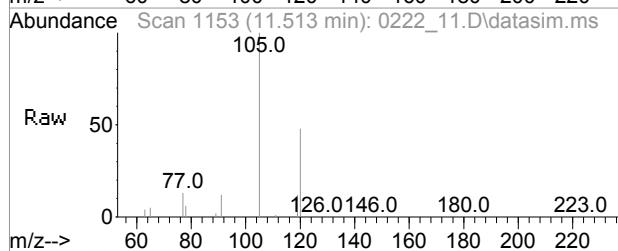
Tgt Ion:105 Resp: 34834
Ion Ratio Lower Upper
105 100
120 19.2 10.6 82.0
77 8.5 11.4 17.2#





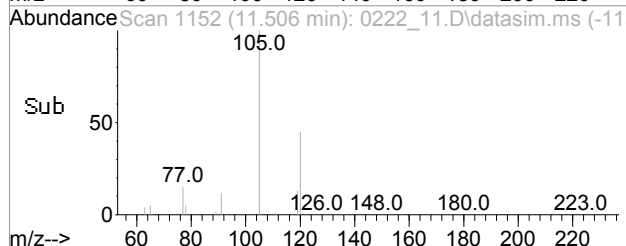
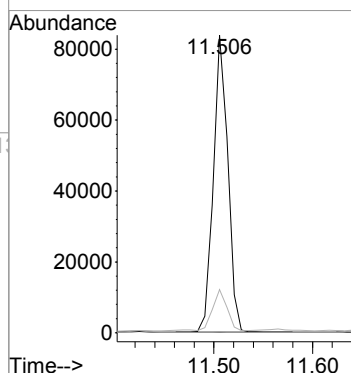
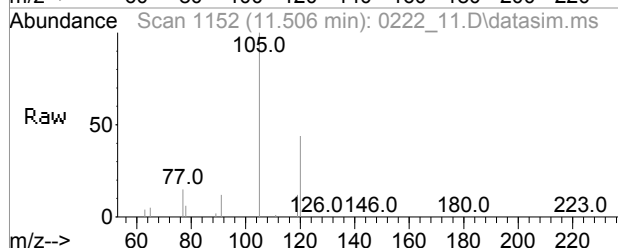
#119
1,2,4-Trimethylbenzene(sim)
Concen: 2.13 ppbv
RT: 11.510 min Scan# 1153
Delta R.T. -0.081 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

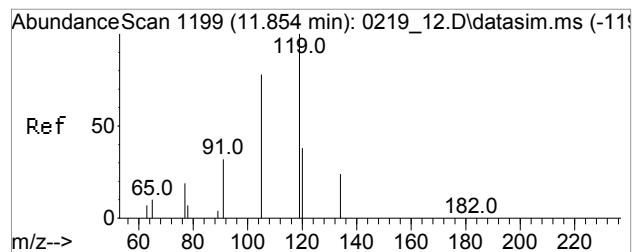
Tgt Ion:105 Resp: 81597
Ion Ratio Lower Upper
105 100
120 45.5 43.5 65.3
77 14.5 20.2 30.4#



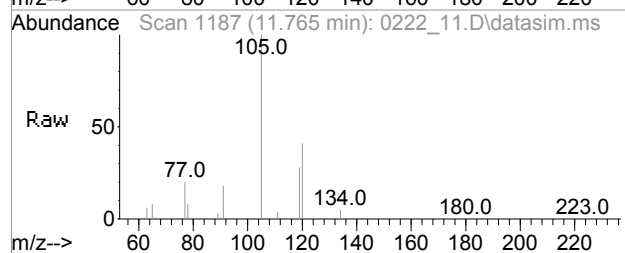
#124
sec-Butylbenzene(sim)
Concen: 1.49 ppbv
RT: 11.506 min Scan# 1152
Delta R.T. -0.081 min
Lab File: 0222_11.D
Acq: 22 Feb 2016 01:49 pm

Tgt Ion:105 Resp: 84975
Ion Ratio Lower Upper
105 100
134 0.2 0.0 35.9
77 14.3 0.0 34.1

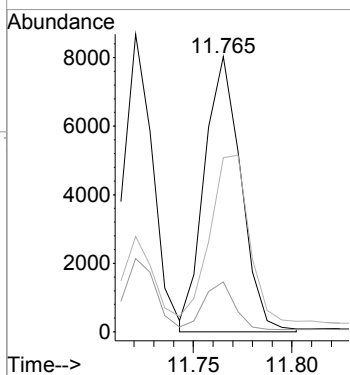
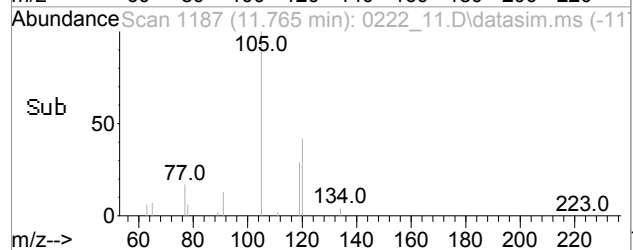




#125
 4-Isopropyltoluene(sim)
 Concen: 0.19 ppbv
 RT: 11.762 min Scan# 1187
 Delta R.T. -0.089 min
 Lab File: 0222_11.D
 Acq: 22 Feb 2016 01:49 pm



Tgt Ion:119 Resp: 10068
 Ion Ratio Lower Upper
 119 100
 134 15.6 18.2 27.4#
 91 75.1 25.8 38.8#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67662 10X</u>
Canister:	<u>368</u>	Lab File ID:	<u>0222_38.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.81	U	5.81	5.81	r
75-71-8	Dichlorodifluoromethane	2.02	U	2.02	2.02	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	11.4	S	5.31	5.31	r
67-64-1	Acetone	29.6	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
75-15-0	Carbon Disulfide	4.06		3.21	3.21	r
156-60-5	Trans-1,2-Dichloroethene	3.93		2.52	2.52	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
156-59-2	Cis-1,2-Dichloroethene	99.9		2.52	2.52	r
110-54-3	Hexane	2.84	U	2.84	2.84	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	31.3		0.466	0.466	r
142-82-5	Heptane	2.44	U	2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	2.66	U	2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	840	E	0.369	0.369	
95-63-6	1,2,4-Trimethylbenzene	2.67		2.04	2.04	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67662 10X</u>
Canister:	<u>368</u>	Lab File ID:	<u>0222_38.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>10</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r
67-66-3	Chloroform(sim)	2.05	U	2.05	2.05	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-41-4	Ethylbenzene(sim)	2.30	U	2.30	2.30	r
179601-23-1	m,p-Xylene(sim)	2.30	U	2.30	2.30	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
95-47-6	o-Xylene(sim)	2.30	U	2.30	2.30	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
622-96-8	4-Ethyltoluene(sim)	2.04	U	2.04	2.04	r
108-67-8	1,3,5-Trimethylbenzene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
135-98-8	sec-Butylbenzene(sim)	1.82	U	1.82	1.82	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_38.D
 Acq On : 23 Feb 2016 11:57 am
 Operator : CORTEX\ms
 Client ID : SS-1
 Lab ID : BK67662 10X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 14:15:21 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

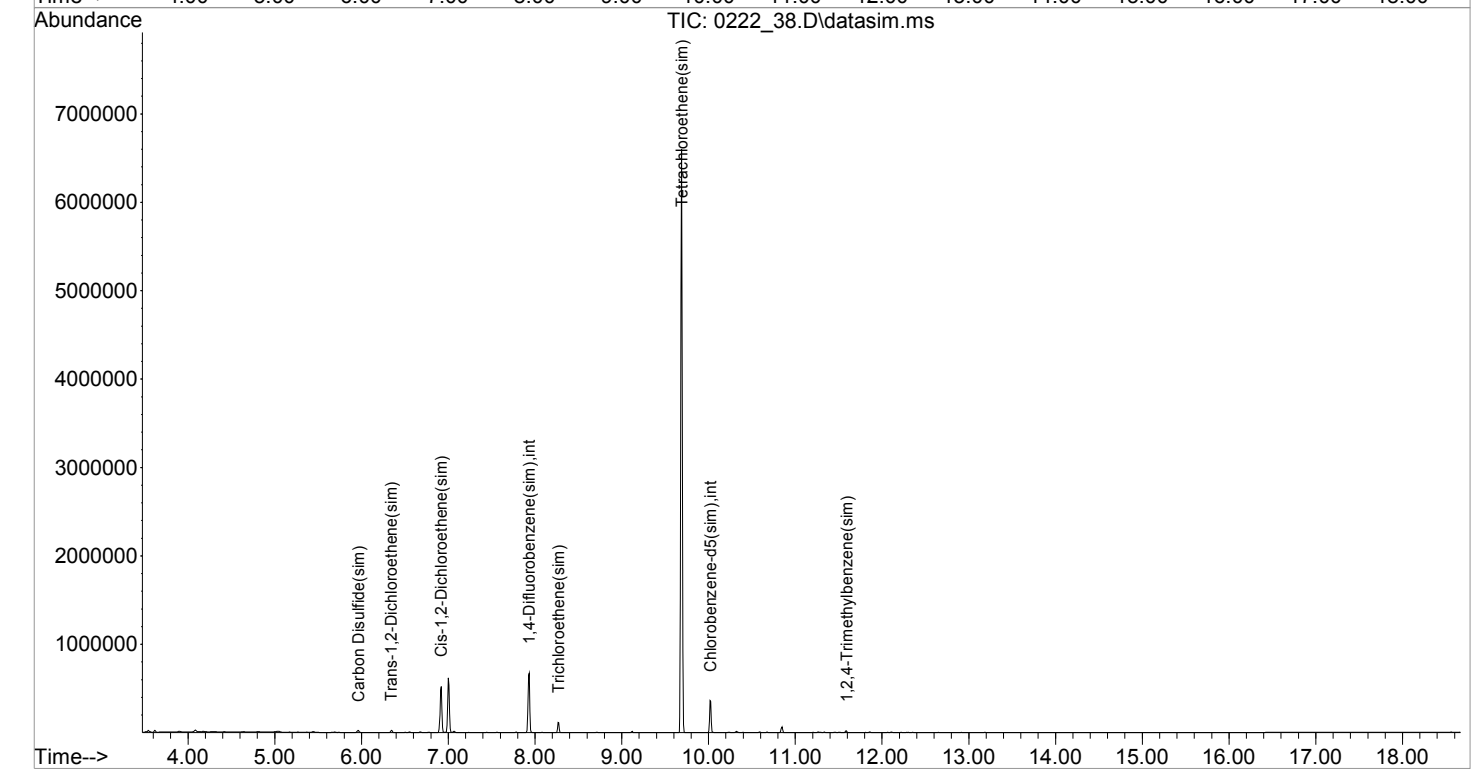
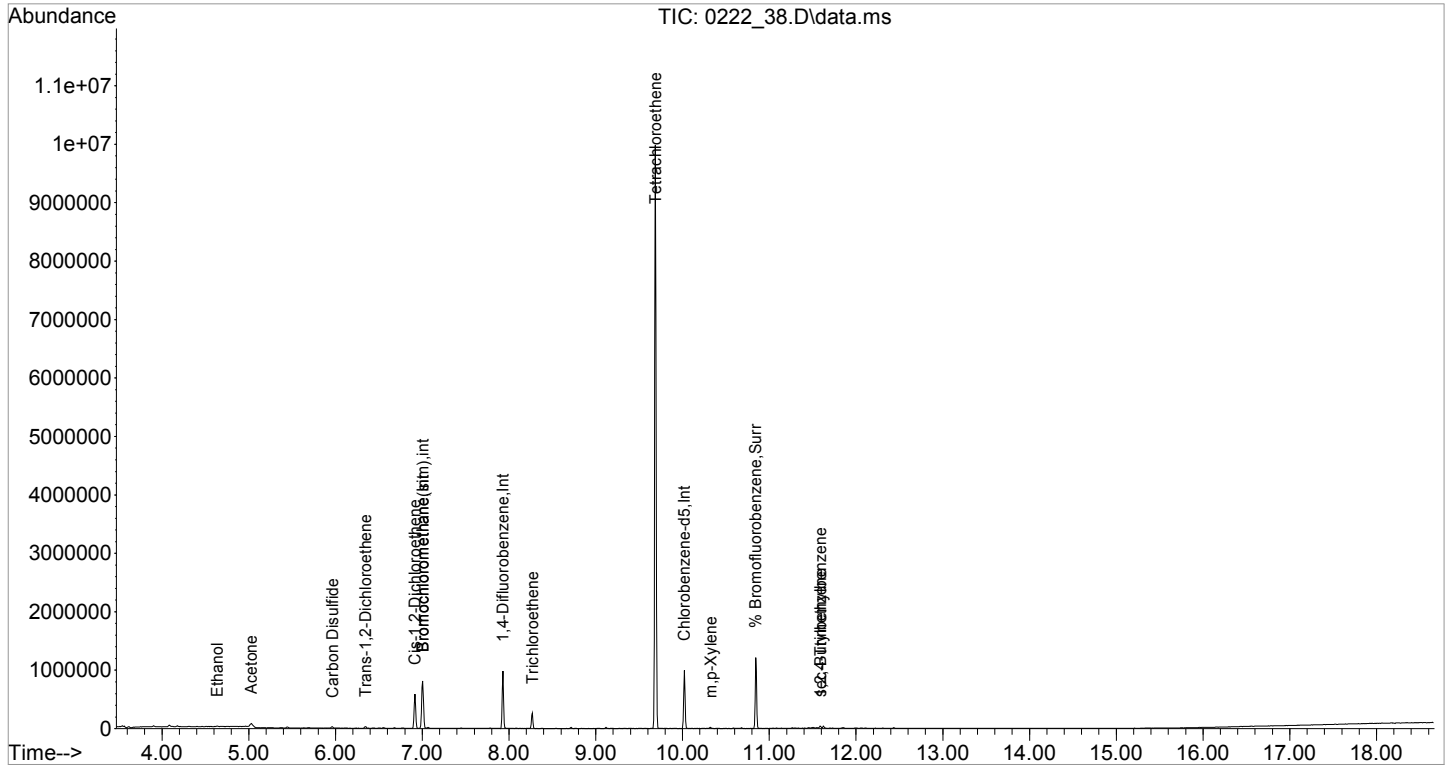
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

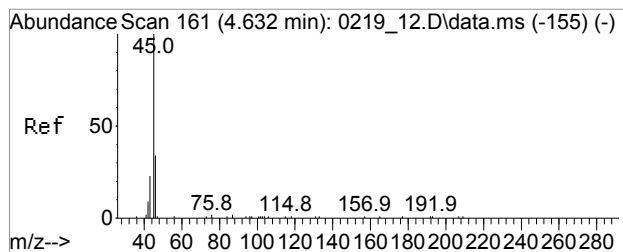
Internal Standards						
1) Bromochloromethane	7.006	130	162701	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	451794	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	190588	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	162701	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	545209	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	207262	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	262674	10.437	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 104.40%		
Target Compounds						
					Qvalue	
10) Ethanol	4.639	45	5867	1.138	ppbv	93
11) Acetone	5.029	43	85577	2.955	ppbv	90
19) Carbon Disulfide	5.964	76	26636	0.405	ppbv	97
21) Trans-1,2-Dichloroethene	6.345	61	12671	0.393	ppbv	95
25) Cis-1,2-Dichloroethene	6.915	61	252037	9.993	ppbv	91
38) Trichloroethene	8.270	130	49084	3.128	ppbv	95
51) Tetrachloroethene	9.687	166	1917540	84.215	ppbv	99
56) m,p-Xylene	10.325	91	8632	0.247	ppbv	96
67) 1,2,4-Trimethylbenzene	11.592	105	10624	0.267	ppbv#	89
72) sec-Butylbenzene	11.592	105	10624	0.200	ppbv#	74
89] Carbon Disulfide(sim)	5.964	76	26636	0.403	ppbv	97
91] Trans-1,2-Dichloroethe...	6.345	61	12671	0.374	ppbv	95
93] Cis-1,2-Dichloroethene...	6.915	61	252037	9.491	ppbv	91
99] Trichloroethene(sim)	8.270	130	49084	2.628	ppbv	94
105] Tetrachloroethene(sim)	9.687	166	1917540	83.636	ppbv	99
119] 1,2,4-Trimethylbenzene...	11.592	105	10624	0.240	ppbv#	89

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_38.D
Acq On : 23 Feb 2016 11:57 am
Operator : CORTEX\ms
Client ID : SS-1
Lab ID : BK67662 10X
ALS Vial : 1 Sample Multiplier: 1

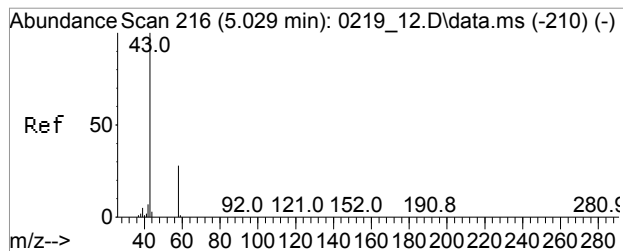
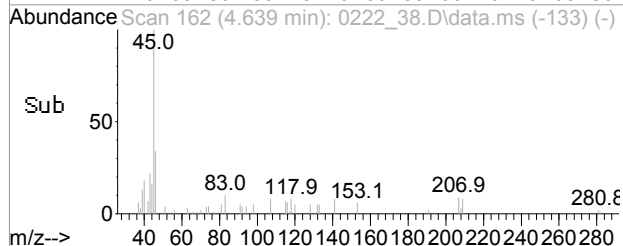
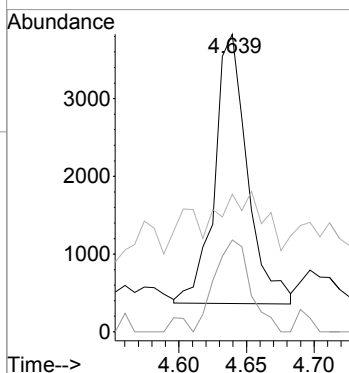
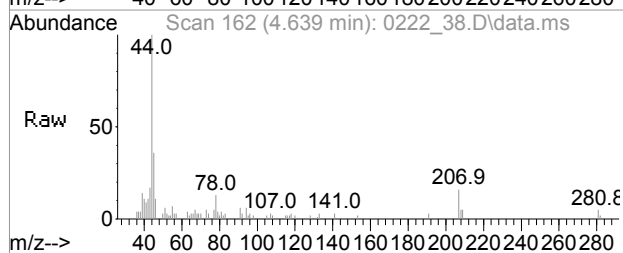
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Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





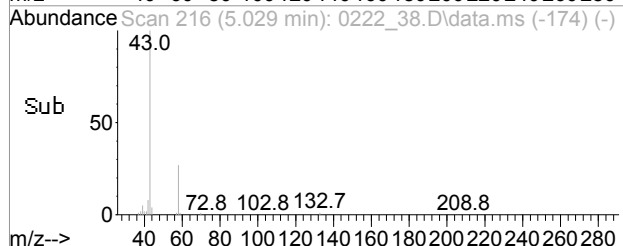
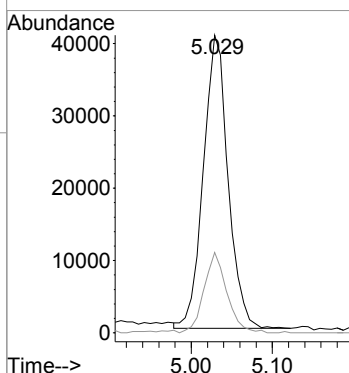
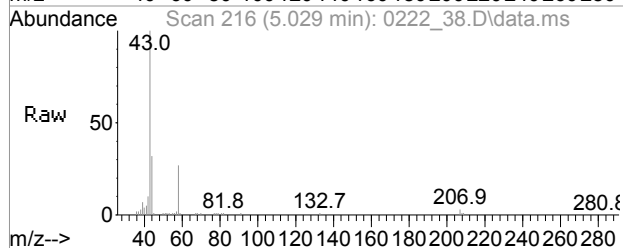
#10
Ethanol
Concen: 1.14 ppbv
RT: 4.639 min Scan# 162
Delta R.T. 0.007 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

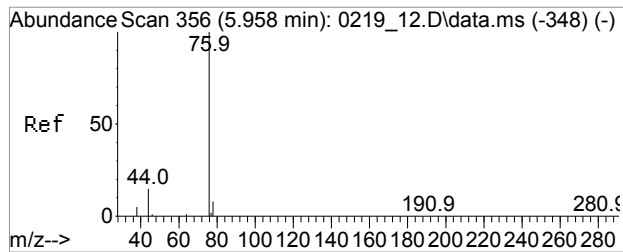
Tgt Ion: 45 Resp: 5867
Ion Ratio Lower Upper
45 100
46 39.8 28.5 42.7
43 28.1 19.7 29.5



#11
Acetone
Concen: 2.95 ppbv
RT: 5.029 min Scan# 216
Delta R.T. -0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

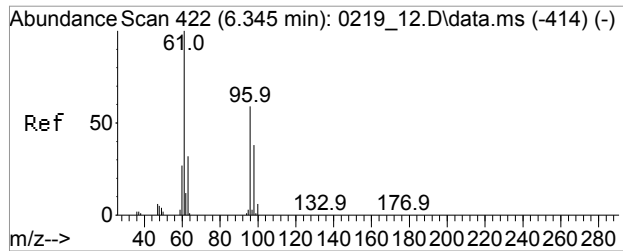
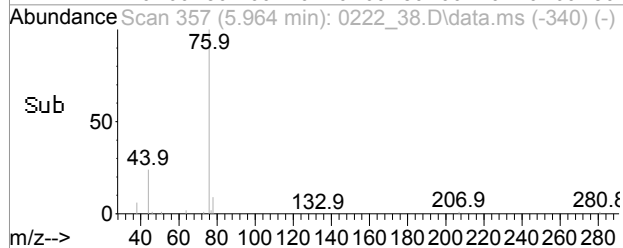
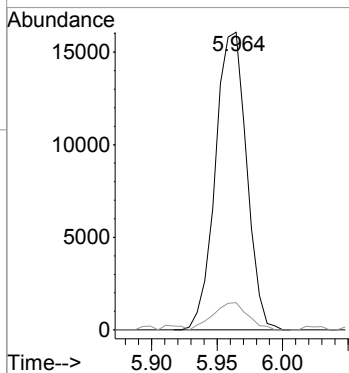
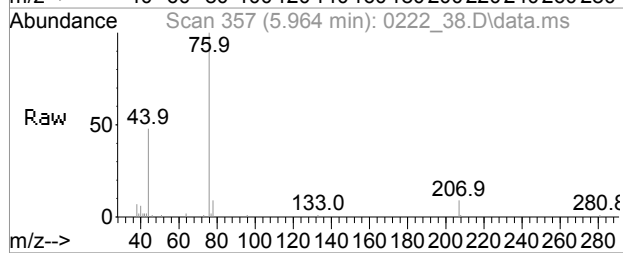
Tgt Ion: 43 Resp: 85577
Ion Ratio Lower Upper
43 100
58 25.3 24.8 37.2





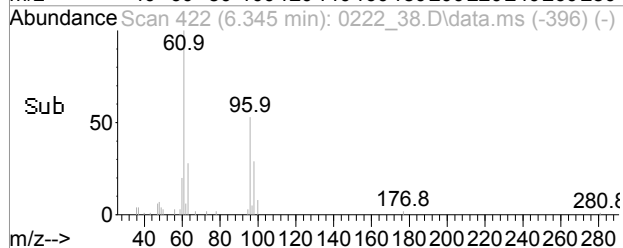
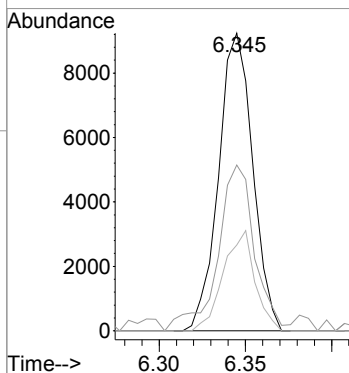
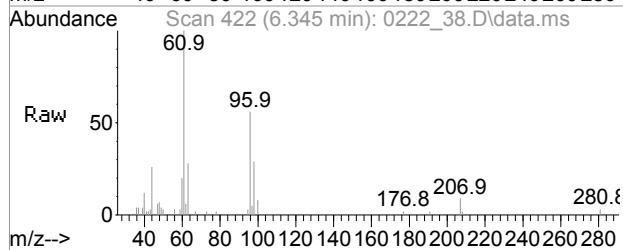
#19
Carbon Disulfide
Concen: 0.41 ppbv
RT: 5.964 min Scan# 357
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

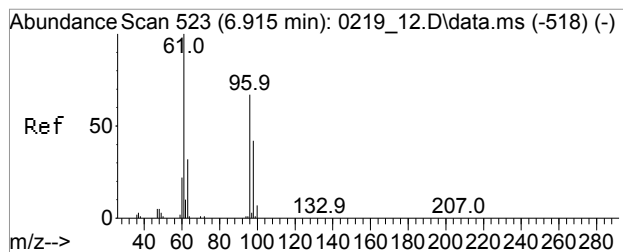
Tgt Ion: 76 Resp: 26636
Ion Ratio Lower Upper
76 100
78 10.3 7.3 10.9



#21
Trans-1,2-Dichloroethene
Concen: 0.39 ppbv
RT: 6.345 min Scan# 422
Delta R.T. -0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

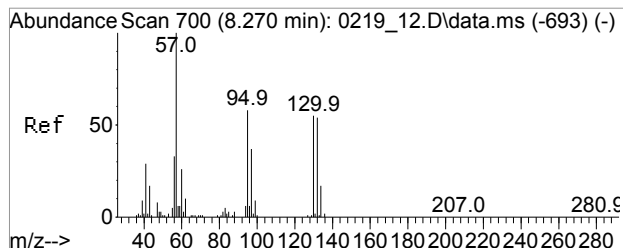
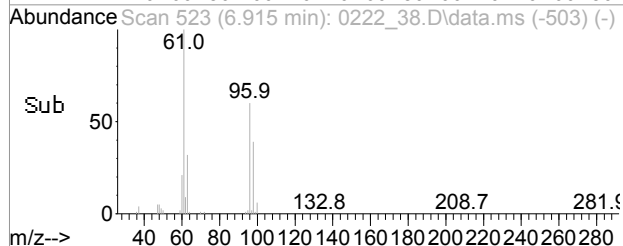
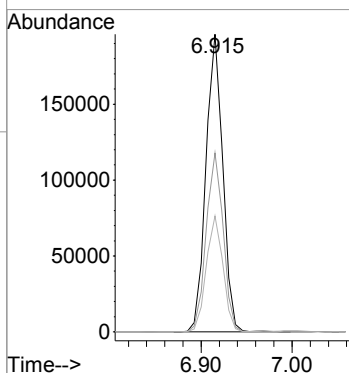
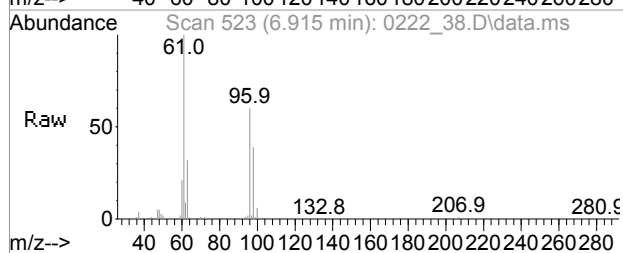
Tgt Ion: 61 Resp: 12671
Ion Ratio Lower Upper
61 100
96 60.1 48.4 72.6
98 31.1 30.6 45.8





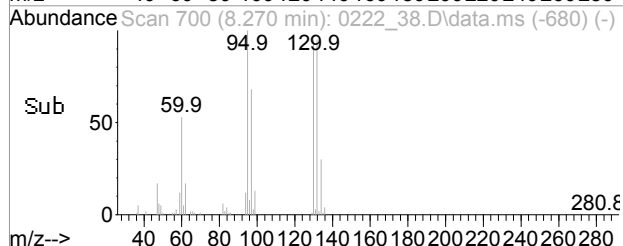
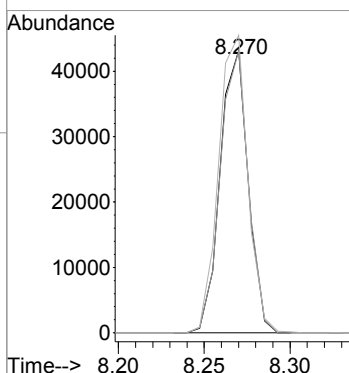
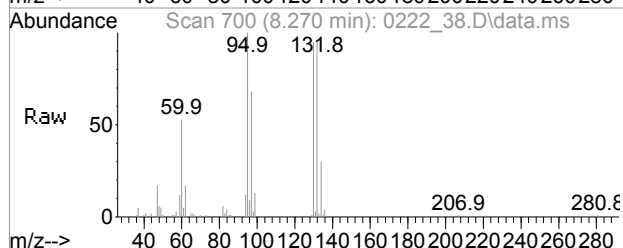
#25
Cis-1,2-Dichloroethene
Concen: 9.99 ppbv
RT: 6.915 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

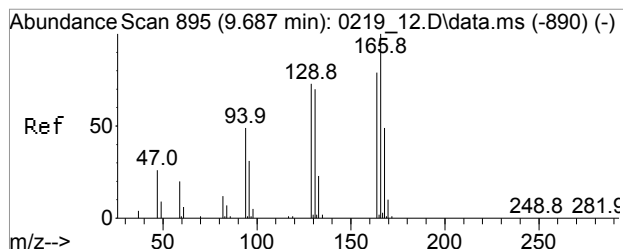
Tgt Ion: 61 Resp: 252037
Ion Ratio Lower Upper
61 100
96 61.0 55.1 82.7
98 38.8 35.7 53.5



#38
Trichloroethene
Concen: 3.13 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

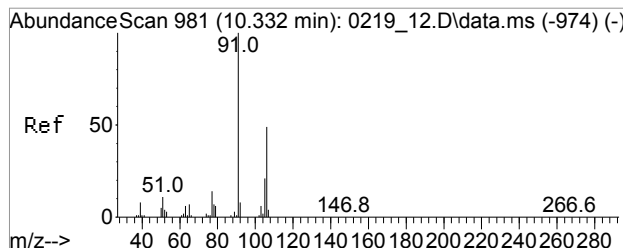
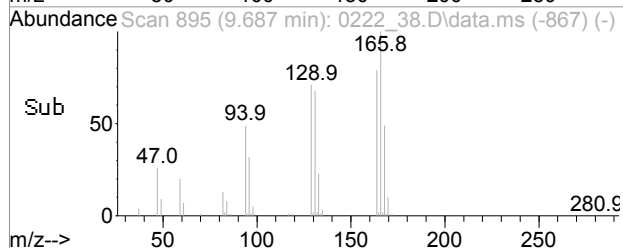
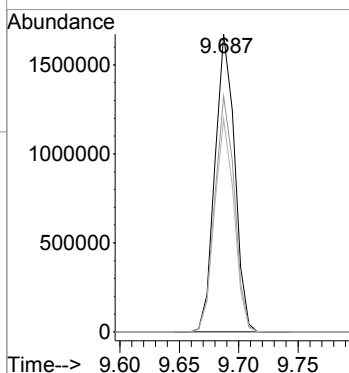
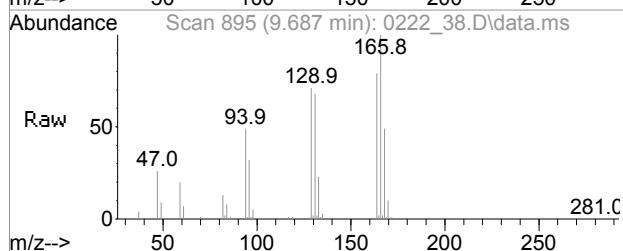
Tgt Ion: 130 Resp: 49084
Ion Ratio Lower Upper
130 100
132 100.0 77.2 115.8
95 109.7 82.7 124.1





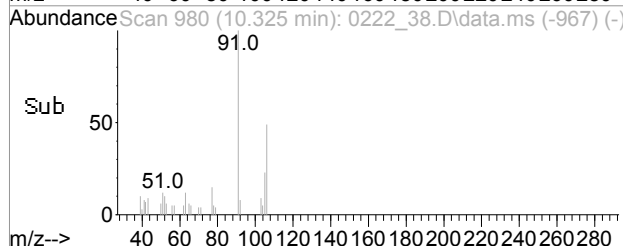
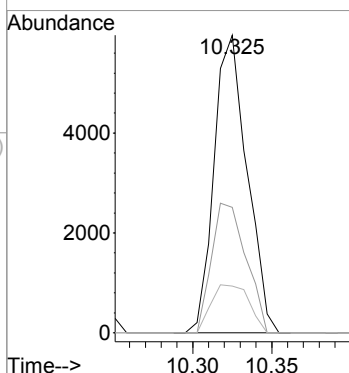
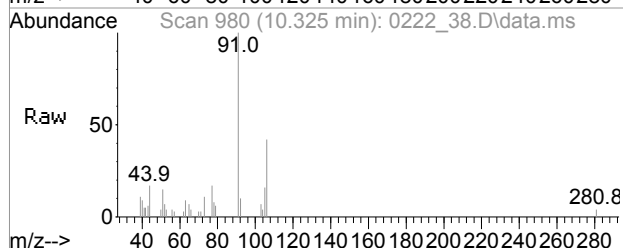
#51
Tetrachloroethene
Concen: 84.22 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

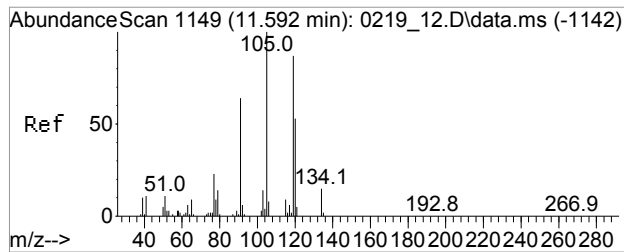
Tgt Ion: 166 Resp: 1917540
Ion Ratio Lower Upper
166 100
164 78.8 62.2 93.4
129 70.9 56.6 84.8



#56
m,p-Xylene
Concen: 0.25 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

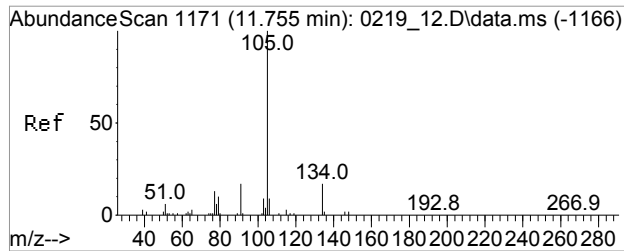
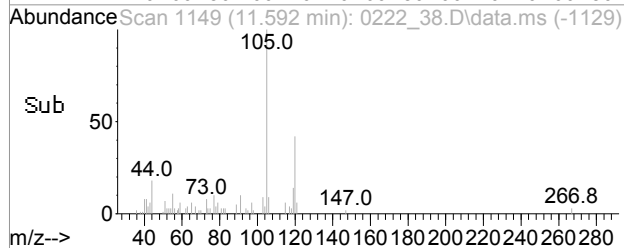
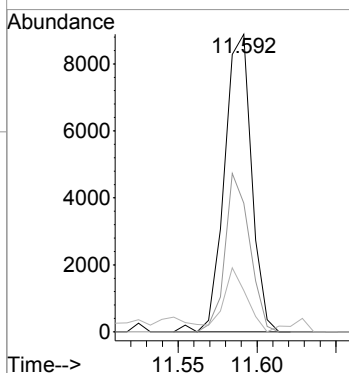
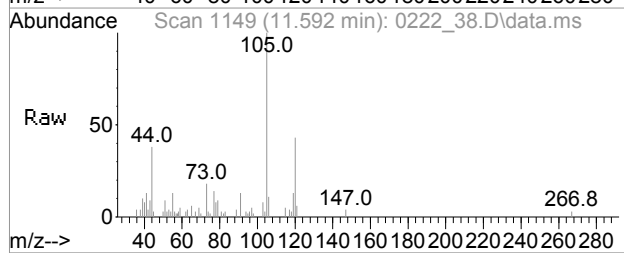
Tgt Ion: 91 Resp: 8632
Ion Ratio Lower Upper
91 100
106 45.5 38.7 58.1
105 18.5 16.6 25.0





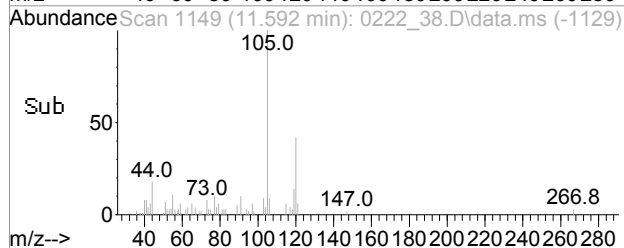
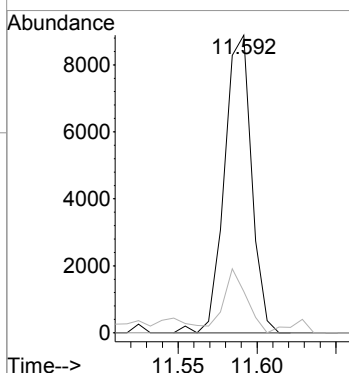
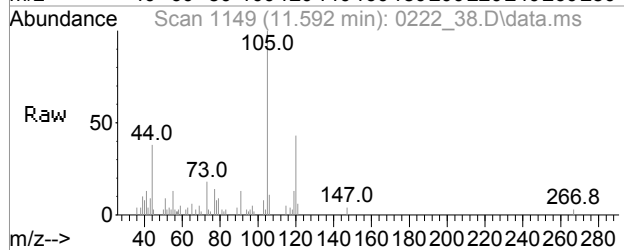
#67
1,2,4-Trimethylbenzene
Concen: 0.27 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

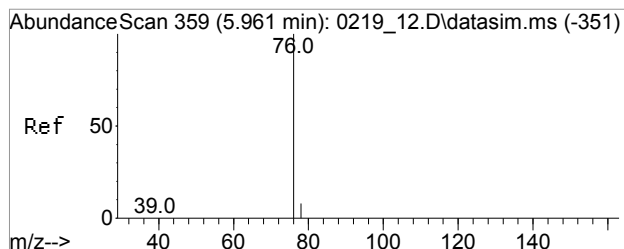
Tgt Ion:105 Resp: 10624
Ion Ratio Lower Upper
105 100
120 48.2 43.5 65.3
77 17.7 20.2 30.4#



#72
sec-Butylbenzene
Concen: 0.20 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

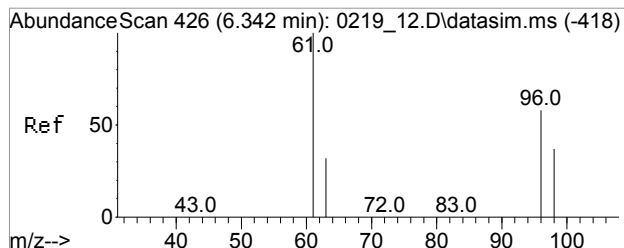
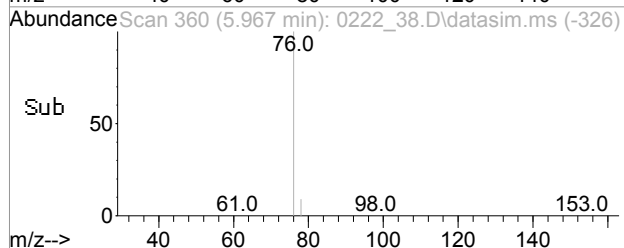
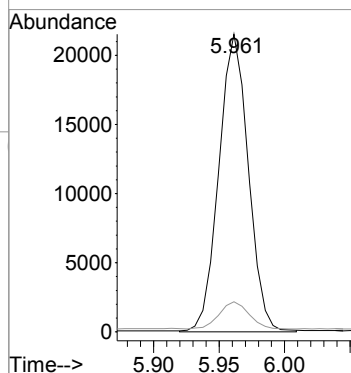
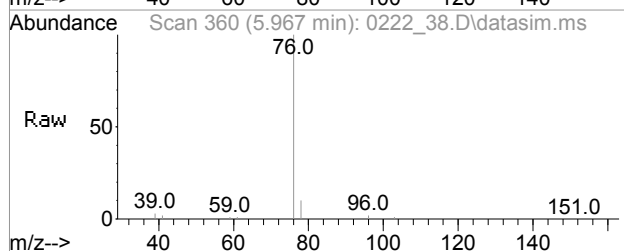
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Ion Ratio Lower Upper
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134 0.0 13.7 20.5#
77 17.7 11.0 16.4#





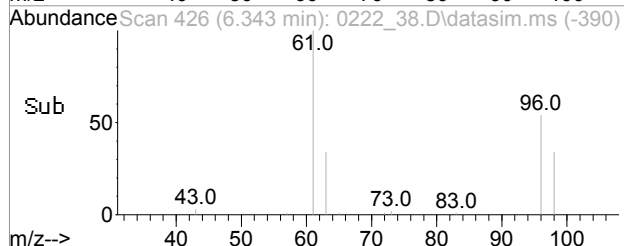
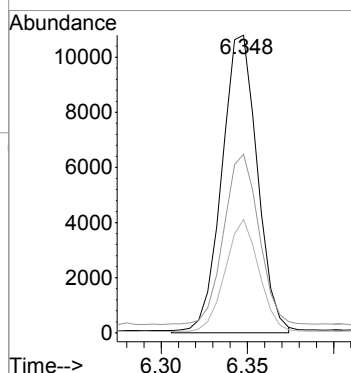
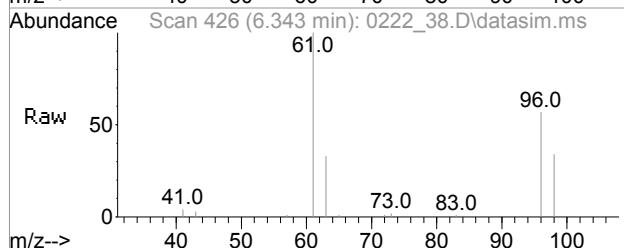
#89
Carbon Disulfide(sim)
Concen: 0.40 ppbv
RT: 5.964 min Scan# 360
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

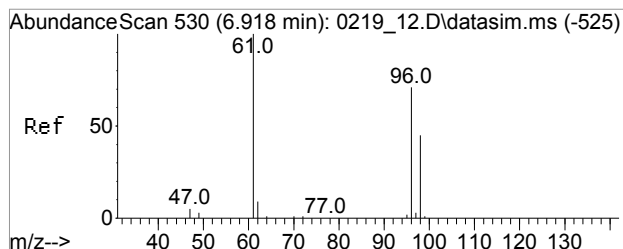
Tgt Ion: 76 Resp: 26636
Ion Ratio Lower Upper
76 100
78 10.3 7.3 10.9



#91
Trans-1,2-Dichloroethene(sim)
Concen: 0.37 ppbv
RT: 6.345 min Scan# 426
Delta R.T. -0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

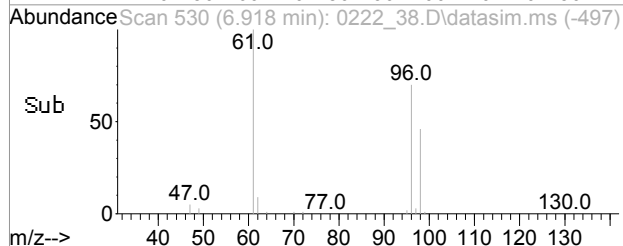
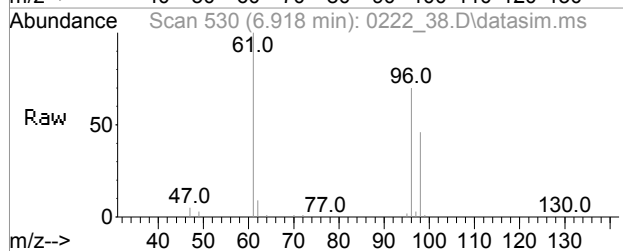
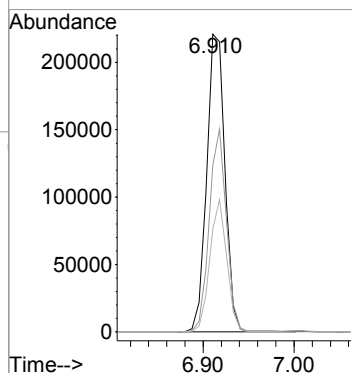
Tgt Ion: 61 Resp: 12671
Ion Ratio Lower Upper
61 100
96 60.1 48.4 72.6
98 31.1 30.6 45.8





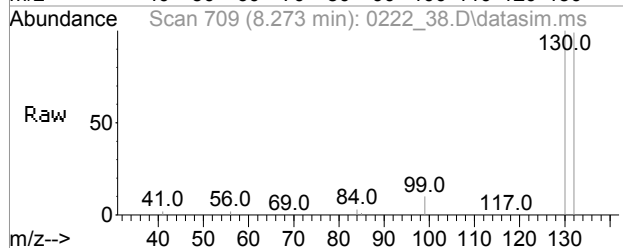
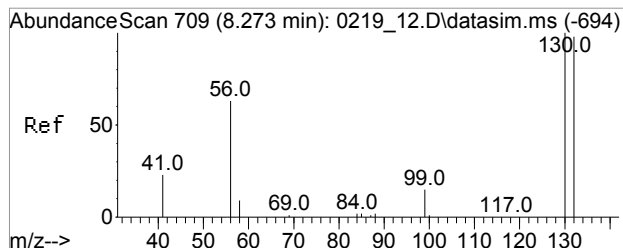
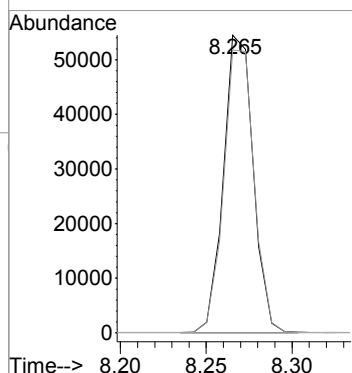
#93
Cis-1,2-Dichloroethene(sim)
Concen: 9.49 ppbv
RT: 6.915 min Scan# 530
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

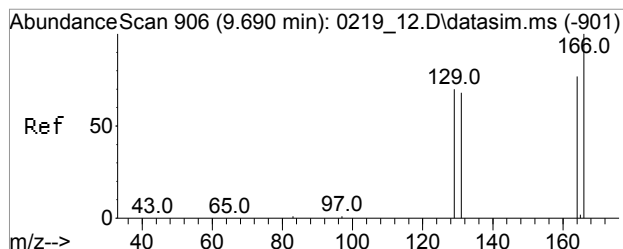
Tgt Ion	Ratio	Lower	Upper
61	100		
96	61.0	55.1	82.7
98	38.8	35.7	53.5



#99
Trichloroethene(sim)
Concen: 2.63 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

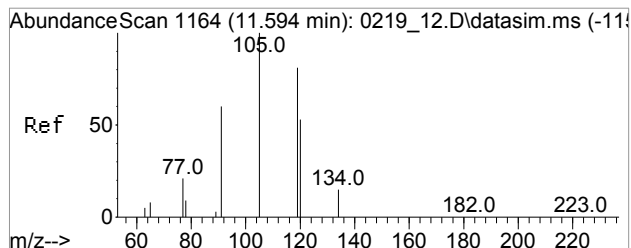
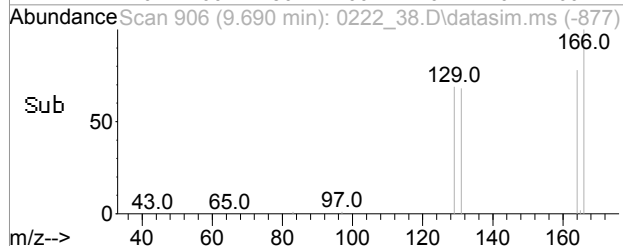
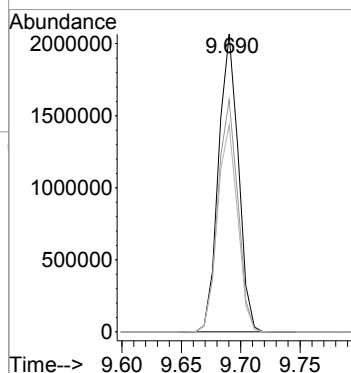
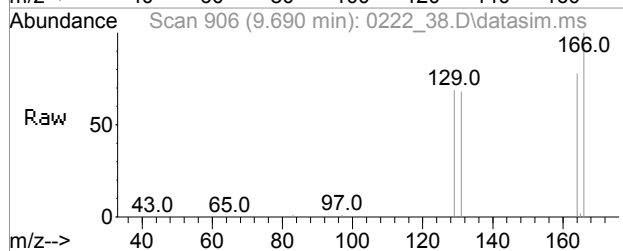
Tgt Ion	Ratio	Lower	Upper
130	100		
132	100.0	77.2	115.8
97	73.9	53.5	80.3





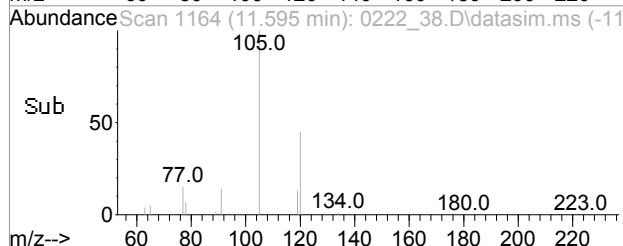
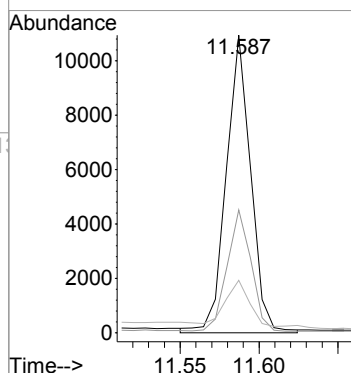
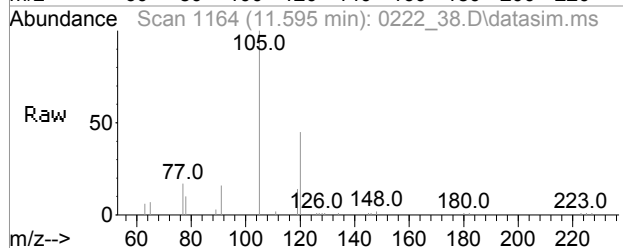
#105
Tetrachloroethene(sim)
Concen: 83.64 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

Tgt Ion:166 Resp: 1917540
Ion Ratio Lower Upper
166 100
164 78.8 57.8 97.8
129 70.9 50.7 90.7



#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.24 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_38.D
Acq: 23 Feb 2016 11:57 am

Tgt Ion:105 Resp: 10624
Ion Ratio Lower Upper
105 100
120 48.2 43.5 65.3
77 17.7 20.2 30.4#



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67662 30X
Canister:	368	Lab File ID:	0222_50.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
		Date Analyzed:	02/23/16
Matrix:	AIR	Dilution Factor:	30

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_50.D
 Acq On : 23 Feb 2016 07:53 pm
 Operator : CORTEX\ms
 Client ID : SS-1 DIL
 Lab ID : BK67662 30X
 ALS Vial : 1 Sample Multiplier: 1

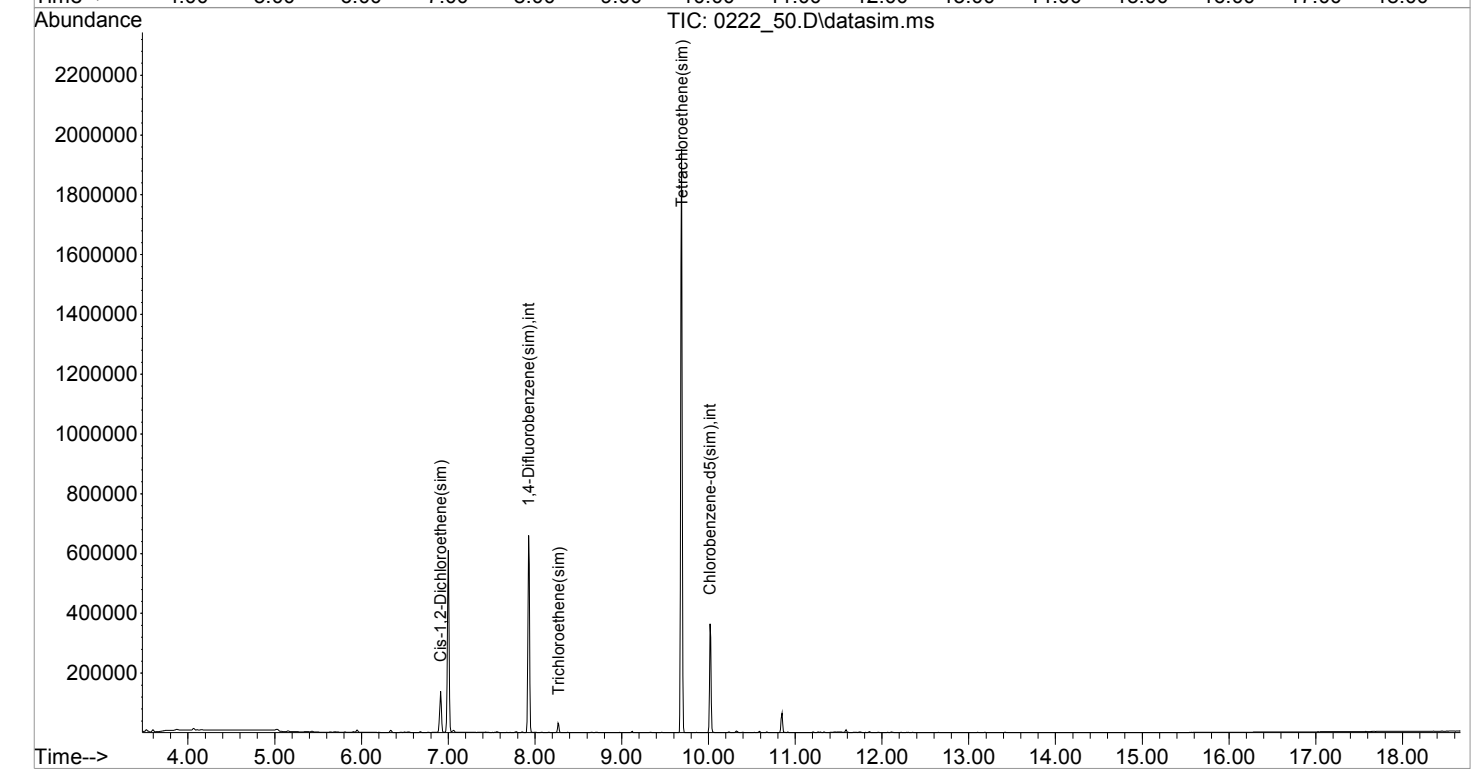
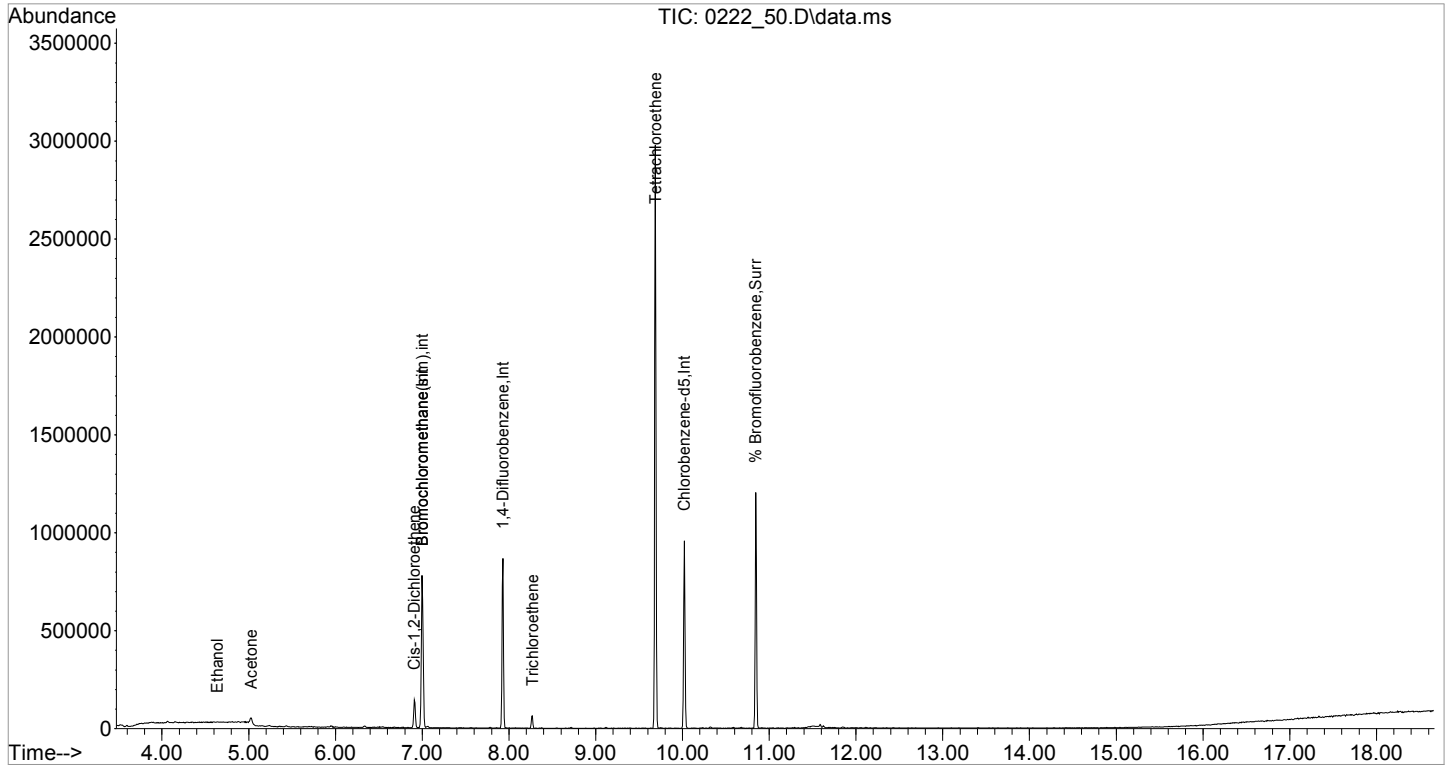
Quant Time: Feb 24 08:28:11 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

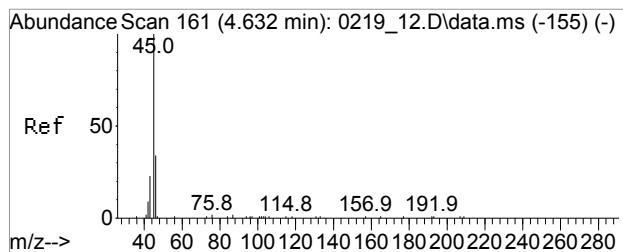
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.998	130	154608	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	410103	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	185577	10.000	ng	0.00
79) Bromochloromethane(sim)	6.998	130	154608	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	503254	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	195947	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	249683	10.189	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.90%
Target Compounds						
					Qvalue	
10) Ethanol	4.639	45	3092	0.631	ppbv#	82
11) Acetone	5.029	43	27903	1.014	ppbv	92
25) Cis-1,2-Dichloroethene	6.908	61	64869	2.707	ppbv	89
38) Trichloroethene	8.270	130	12133	0.852	ppbv	93
51) Tetrachloroethene	9.688	166	517442	25.035	ppbv	98
93] Cis-1,2-Dichloroethene...	6.908	61	64869	2.571	ppbv	89
99] Trichloroethene(sim)	8.270	130	12133	0.704	ppbv	97
105] Tetrachloroethene(sim)	9.688	166	517442	24.450	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_50.D
Acq On : 23 Feb 2016 07:53 pm
Operator : CORTEX\ms
Client ID : SS-1 DIL
Lab ID : BK67662 30X
ALS Vial : 1 Sample Multiplier: 1

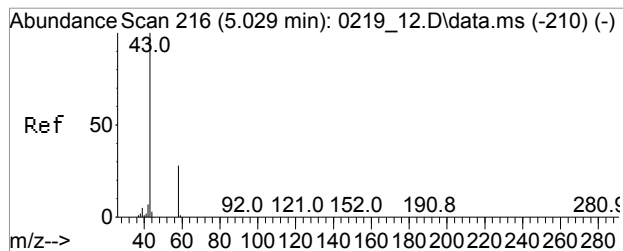
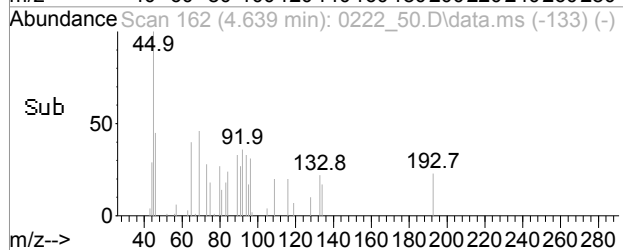
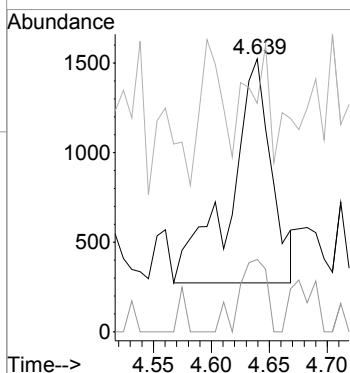
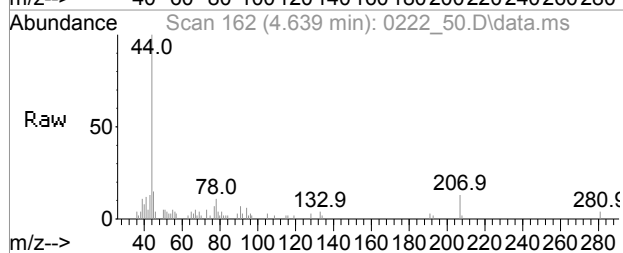
Quant Time: Feb 24 08:28:11 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





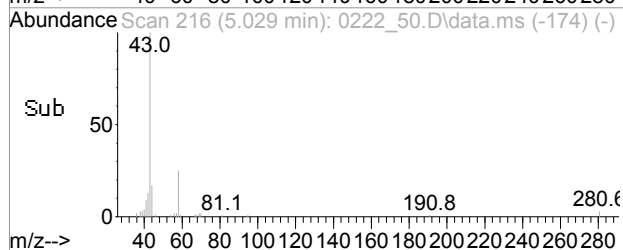
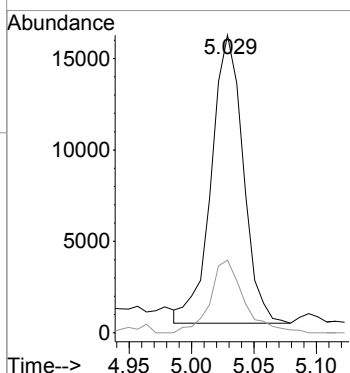
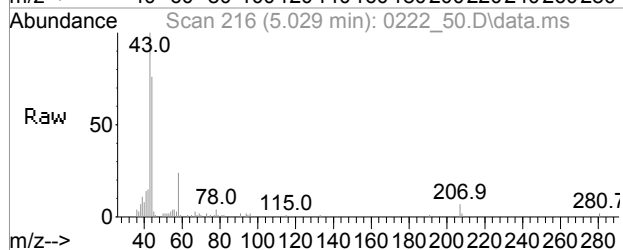
#10
Ethanol
Concen: 0.63 ppbv
RT: 4.639 min Scan# 162
Delta R.T. 0.007 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

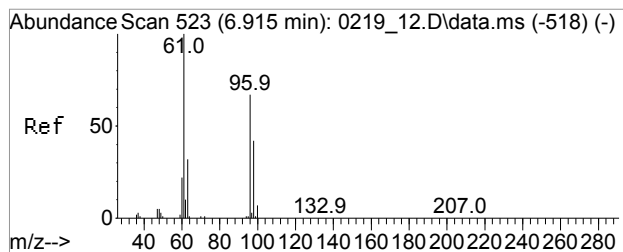
Tgt Ion: 45 Resp: 3092
Ion Ratio Lower Upper
45 100
46 22.0 28.5 42.7#
43 30.3 19.7 29.5#



#11
Acetone
Concen: 1.01 ppbv
RT: 5.029 min Scan# 216
Delta R.T. -0.000 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

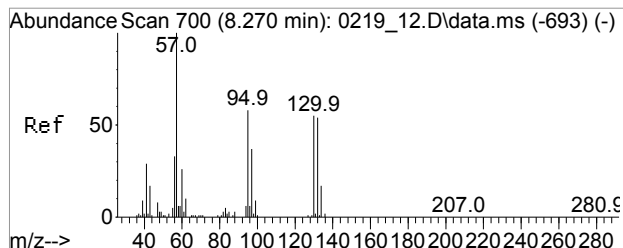
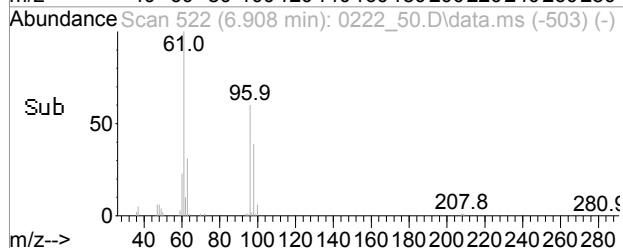
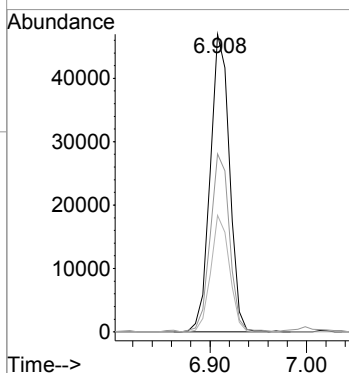
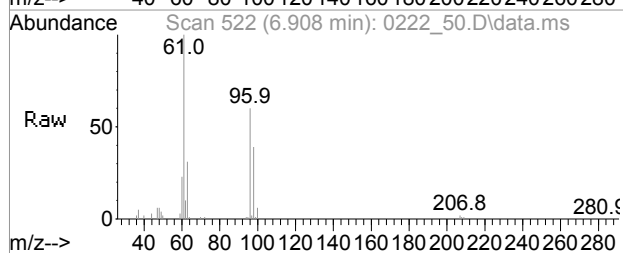
Tgt Ion: 43 Resp: 27903
Ion Ratio Lower Upper
43 100
58 26.8 24.8 37.2





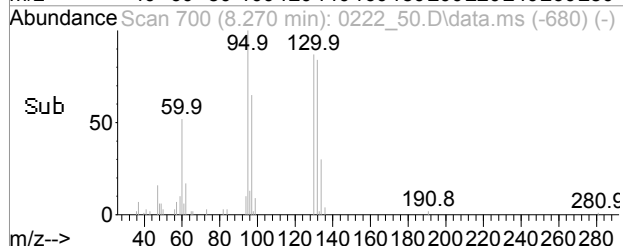
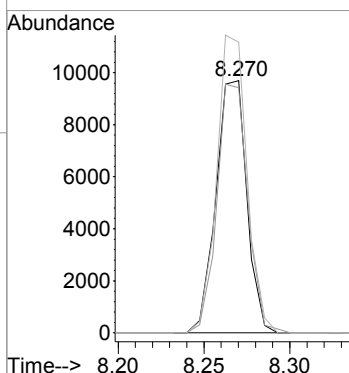
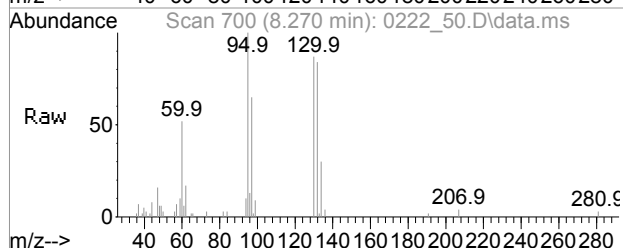
#25
Cis-1,2-Dichloroethene
Concen: 2.71 ppbv
RT: 6.908 min Scan# 522
Delta R.T. -0.007 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

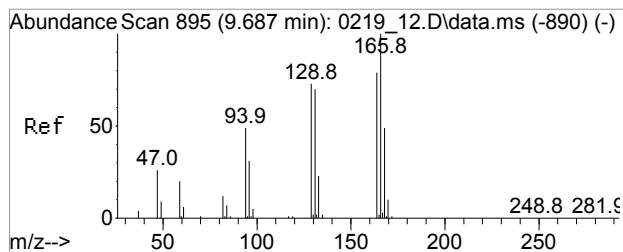
Tgt Ion: 61 Resp: 64869
Ion Ratio Lower Upper
61 100
96 60.0 55.1 82.7
98 37.9 35.7 53.5



#38
Trichloroethene
Concen: 0.85 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

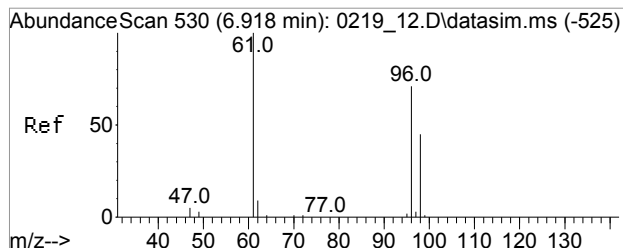
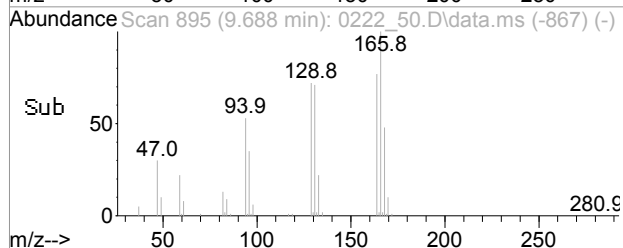
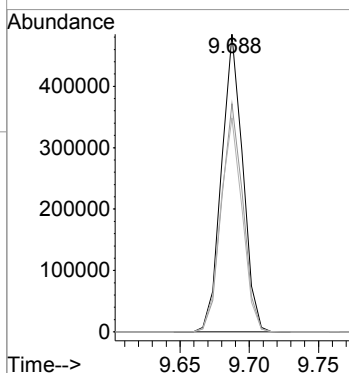
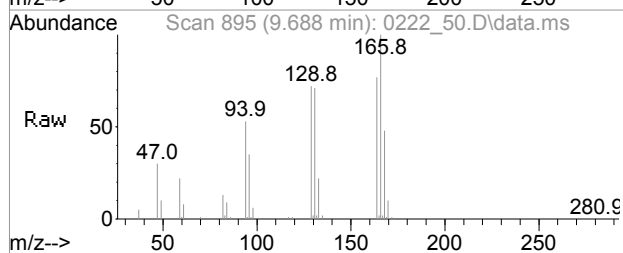
Tgt Ion: 130 Resp: 12133
Ion Ratio Lower Upper
130 100
132 97.8 77.2 115.8
95 115.7 82.7 124.1





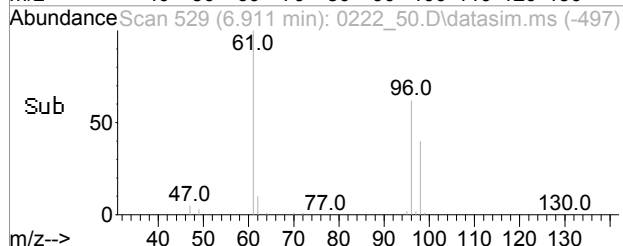
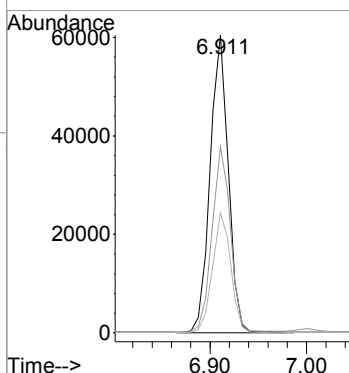
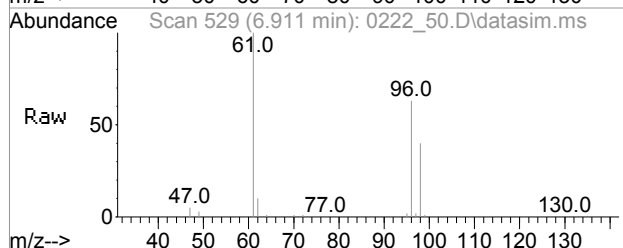
#51
Tetrachloroethene
Concen: 25.04 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

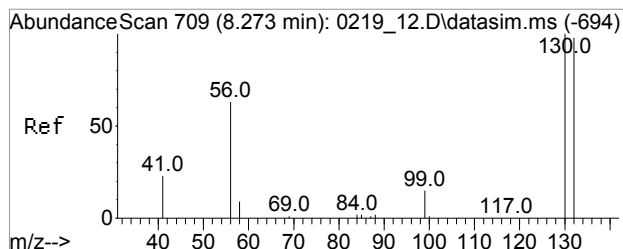
Tgt Ion: 166 Resp: 517442
Ion Ratio Lower Upper
166 100
164 77.4 62.2 93.4
129 73.6 56.6 84.8



#93
Cis-1,2-Dichloroethene(sim)
Concen: 2.57 ppbv
RT: 6.908 min Scan# 529
Delta R.T. -0.007 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

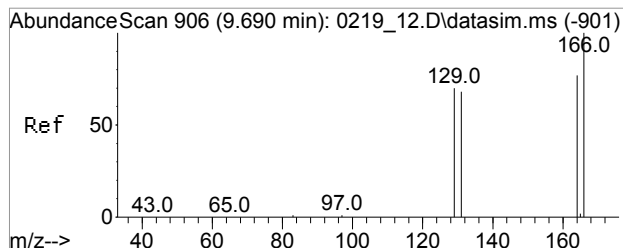
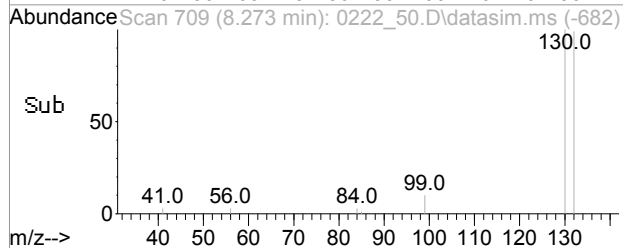
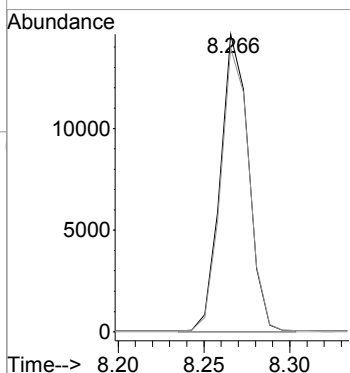
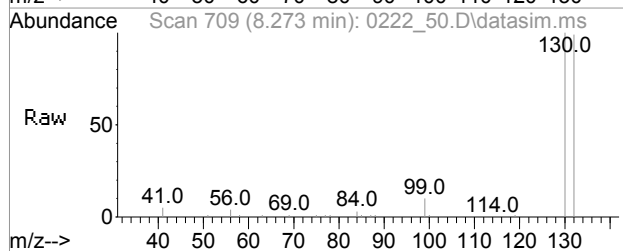
Tgt Ion: 61 Resp: 64869
Ion Ratio Lower Upper
61 100
96 60.0 55.1 82.7
98 37.9 35.7 53.5





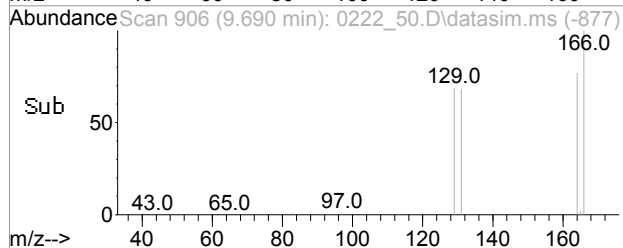
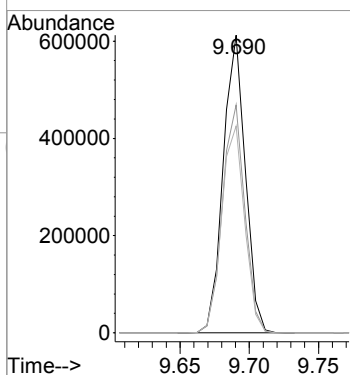
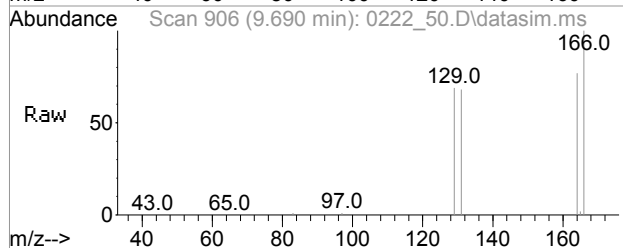
#99
Trichloroethene(sim)
Concen: 0.70 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

Tgt Ion:130 Resp: 12133
Ion Ratio Lower Upper
130 100
132 97.2 77.2 115.8
97 71.5 53.5 80.3



#105
Tetrachloroethene(sim)
Concen: 24.45 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_50.D
Acq: 23 Feb 2016 07:53 pm

Tgt Ion:166 Resp: 517442
Ion Ratio Lower Upper
166 100
164 77.4 57.8 97.8
129 73.6 50.7 90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-4
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67663 10X</u>	
Canister:	<u>12867</u>	Lab File ID:	<u>0222_39.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>10</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.81	U	5.81	5.81	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	5.31	U	5.31	5.31	r
67-64-1	Acetone	16.6	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
156-60-5	Trans-1,2-Dichloroethene	8.81		2.52	2.52	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
156-59-2	Cis-1,2-Dichloroethene	159		2.52	2.52	r
110-54-3	Hexane	2.84	U	2.84	2.84	r
67-66-3	Chloroform	2.42		2.05	2.05	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	105		0.466	0.466	r
142-82-5	Heptane	2.44	U	2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	3.54		2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	610	E	0.369	0.369	
95-63-6	1,2,4-Trimethylbenzene	4.30		2.04	2.04	r
135-98-8	sec-Butylbenzene	1.82	U	1.82	1.82	r
75-71-8	Dichlorodifluoromethane(sim)	2.02	U	2.02	2.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-4
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67663 10X</u>	
Canister:	<u>12867</u>	Lab File ID:	<u>0222_39.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received:
				<u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>10</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-15-0	Carbon Disulfide(sim)	3.21	U	3.21	3.21	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-41-4	Ethylbenzene(sim)	2.30	U	2.30	2.30	r
179601-23-1	m,p-Xylene(sim)	3.60		2.30	2.30	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
95-47-6	o-Xylene(sim)	2.30	U	2.30	2.30	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
622-96-8	4-Ethyltoluene(sim)	2.04	U	2.04	2.04	r
108-67-8	1,3,5-Trimethylbenzene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_39.D
 Acq On : 23 Feb 2016 12:33 pm
 Operator : CORTEX\ms
 Client ID : SS-4
 Lab ID : BK67663 10X
 ALS Vial : 1 Sample Multiplier: 1

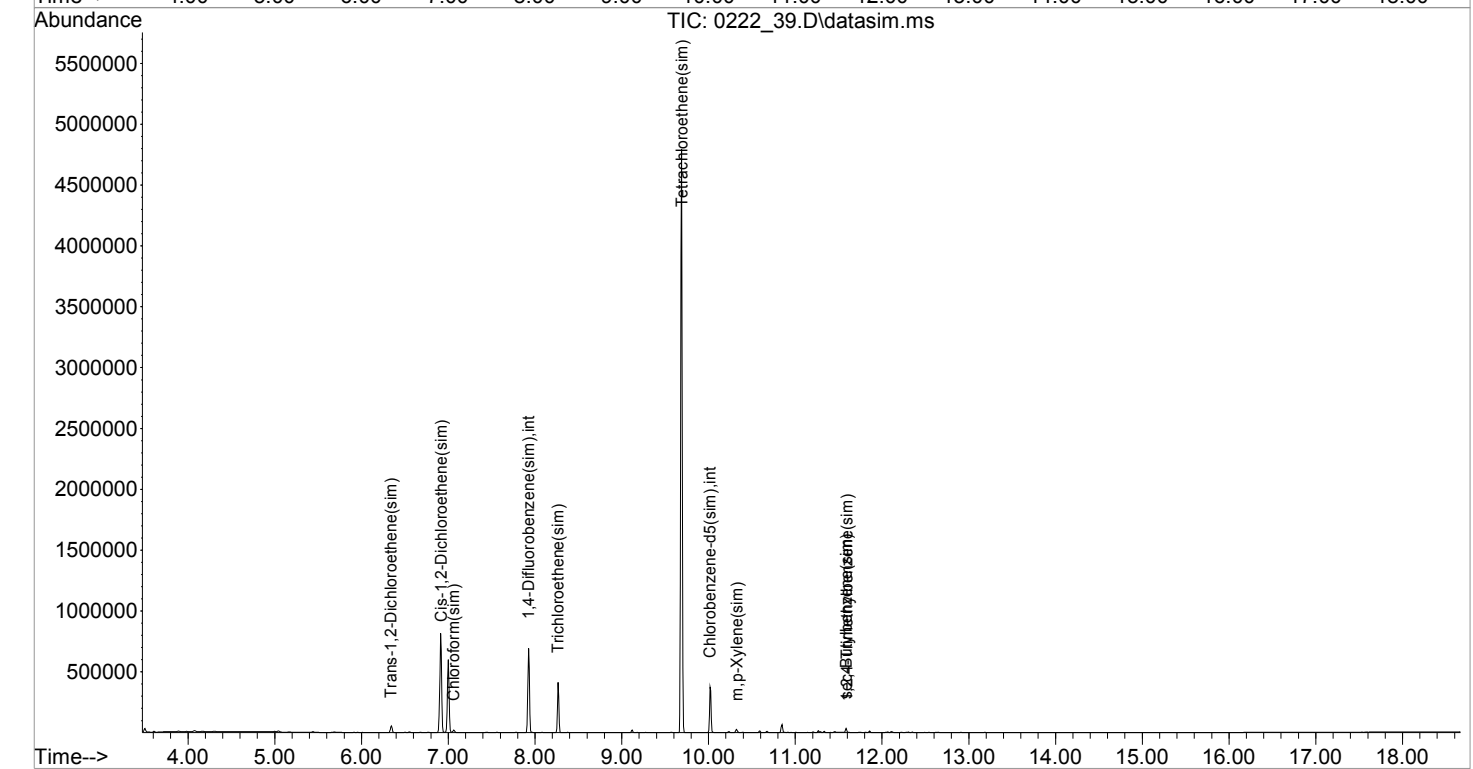
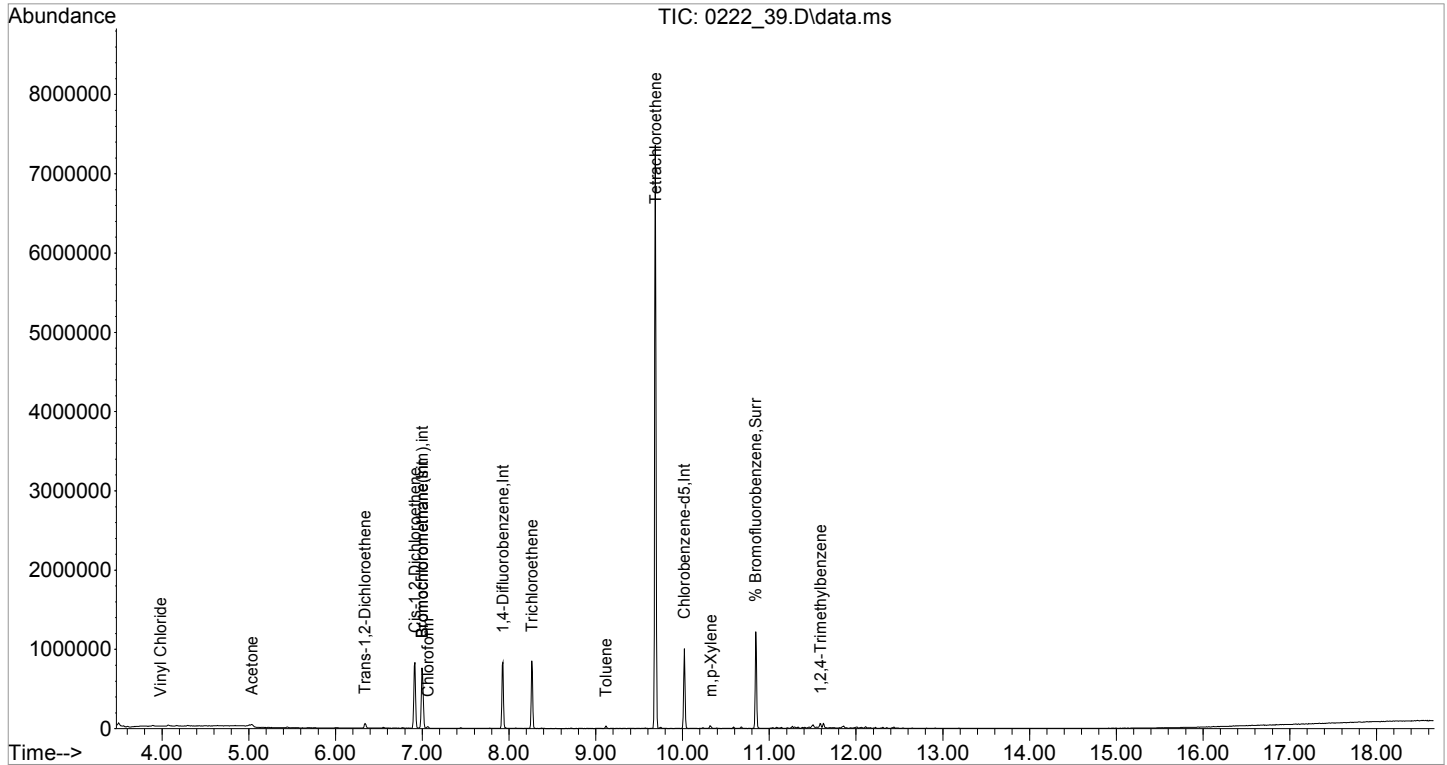
Quant Time: Feb 23 14:16:35 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

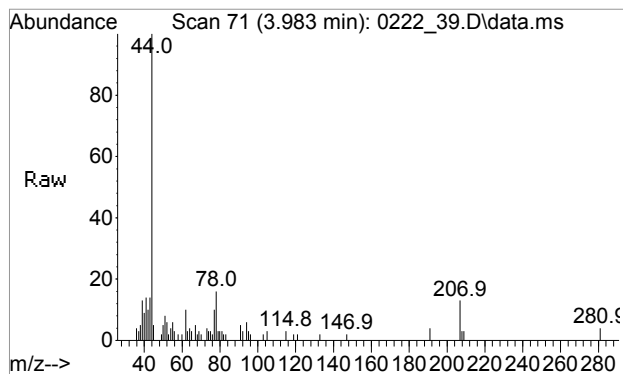
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.998	130	156916	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	440849	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	192551	10.000	ng	0.00
79) Bromochloromethane(sim)	6.998	130	156916	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	531791	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	207132	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	258003	10.147	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	= 101.50%	
Target Compounds						
					Qvalue	
6) Vinyl Chloride	3.983	62	1672	0.101	ppbv	83
11) Acetone	5.036	43	46236	1.655	ppbv#	86
21) Trans-1,2-Dichloroethene	6.340	61	27434	0.881	ppbv	96
25) Cis-1,2-Dichloroethene	6.915	61	387668	15.938	ppbv	92
27) Chloroform	7.067	83	8956	0.242	ppbv	92
38) Trichloroethene	8.263	130	161408	10.543	ppbv	96
47) Toluene	9.117	91	11743	0.354	ppbv#	97
51) Tetrachloroethene	9.687	166	1363327	61.362	ppbv	100
56) m,p-Xylene	10.325	91	14599	0.414	ppbv	96
67) 1,2,4-Trimethylbenzene	11.592	105	17321	0.430	ppbv	89
91] Trans-1,2-Dichloroethe...	6.340	61	27434	0.839	ppbv	95
93] Cis-1,2-Dichloroethene...	6.915	61	387668	15.136	ppbv	92
94] Chloroform(sim)	7.062	83	11446	0.251	ppbv#	97
99] Trichloroethene(sim)	8.263	130	161408	8.859	ppbv	95
105] Tetrachloroethene(sim)	9.687	166	1363327	60.964	ppbv	100
111] m,p-Xylene(sim)	10.325	91	14599	0.360	ppbv	96
119] 1,2,4-Trimethylbenzene...	11.592	105	17321	0.392	ppbv	89
124] sec-Butylbenzene(sim)	11.587	105	17422	0.265	ppbv	80

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_39.D
Acq On : 23 Feb 2016 12:33 pm
Operator : CORTEX\ms
Client ID : SS-4
Lab ID : BK67663 10X
ALS Vial : 1 Sample Multiplier: 1

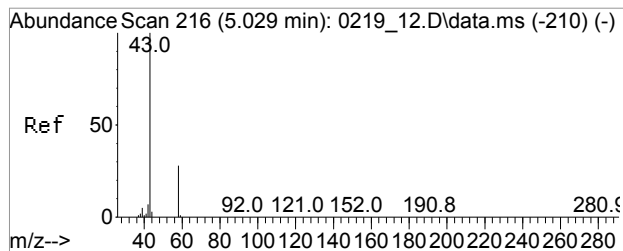
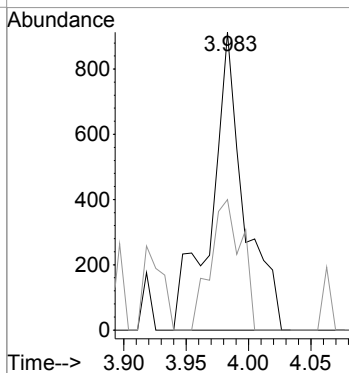
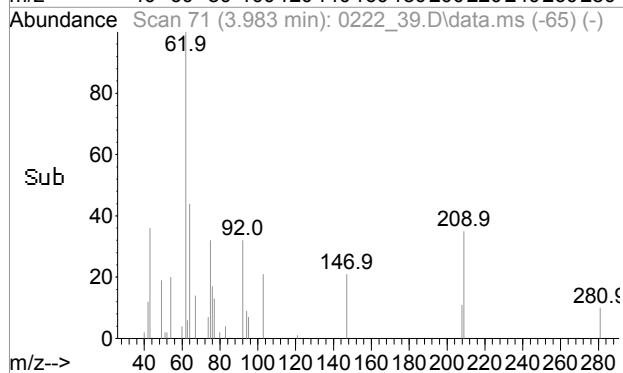
Quant Time: Feb 23 14:16:35 2016
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Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





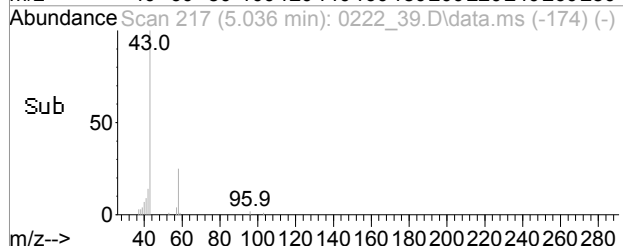
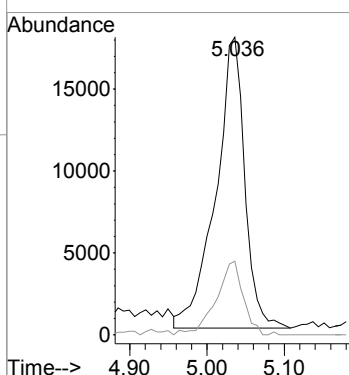
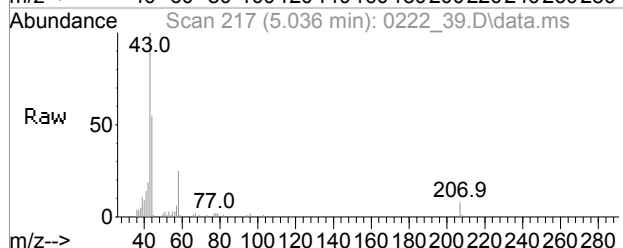
#6
Vinyl Chloride
Concen: Below Cal
RT: 3.983 min Scan# 71
Delta R.T. -0.014 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

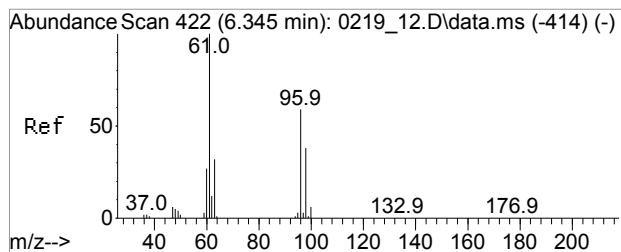
Tgt Ion: 62 Resp: 1672
Ion Ratio Lower Upper
62 100
64 41.8 12.3 52.3



#11
Acetone
Concen: 1.66 ppbv
RT: 5.036 min Scan# 217
Delta R.T. 0.007 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

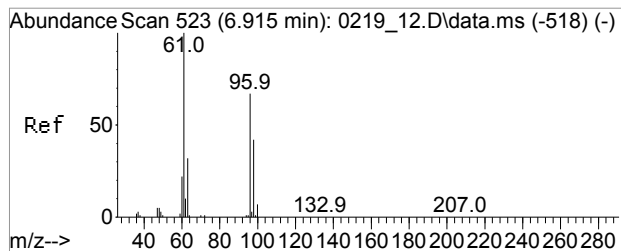
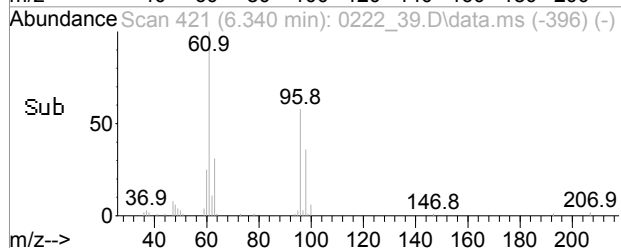
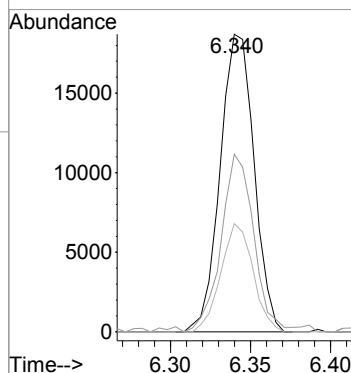
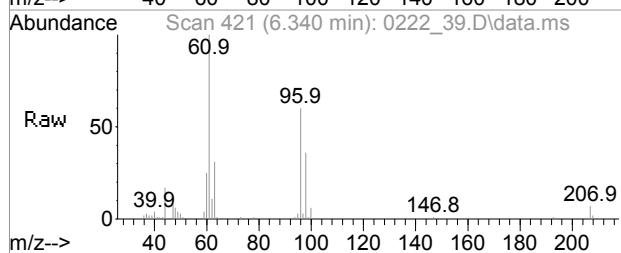
Tgt Ion: 43 Resp: 46236
Ion Ratio Lower Upper
43 100
58 23.6 24.8 37.2#





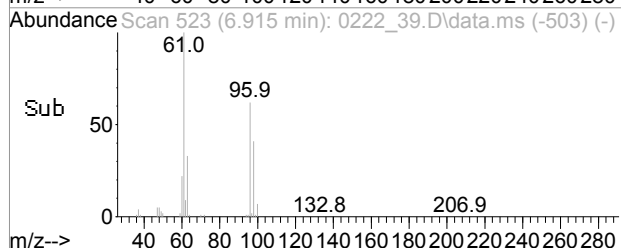
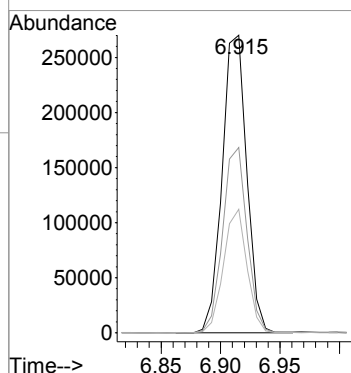
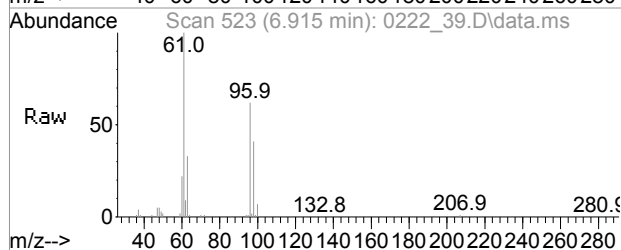
#21
 Trans-1,2-Dichloroethene
 Concen: 0.88 ppbv
 RT: 6.340 min Scan# 421
 Delta R.T. -0.005 min
 Lab File: 0222_39.D
 Acq: 23 Feb 2016 12:33 pm

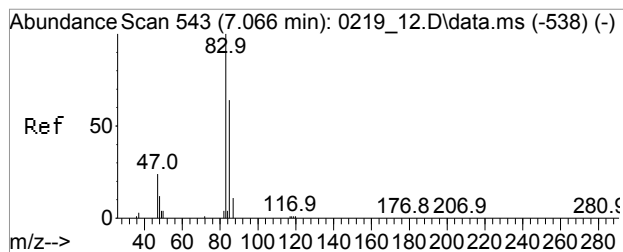
Tgt Ion:	61	Resp:	27434
Ion	Ratio	Lower	Upper
61	100		
96	58.3	48.4	72.6
98	34.5	30.6	45.8



#25
 Cis-1,2-Dichloroethene
 Concen: 15.94 ppbv
 RT: 6.915 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: 0222_39.D
 Acq: 23 Feb 2016 12:33 pm

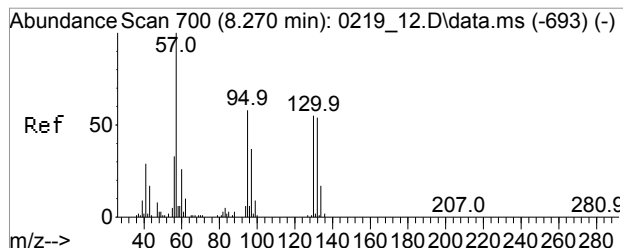
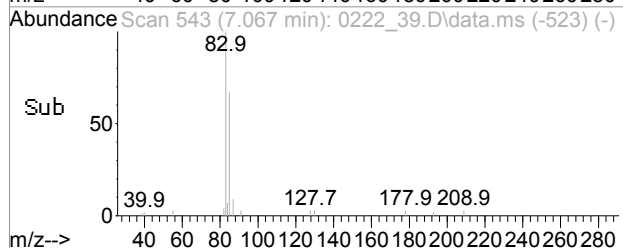
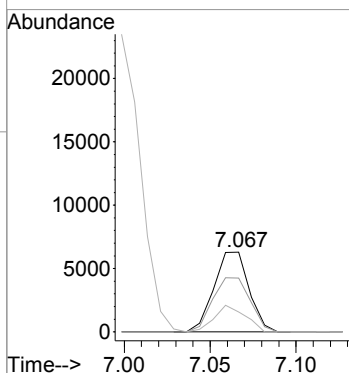
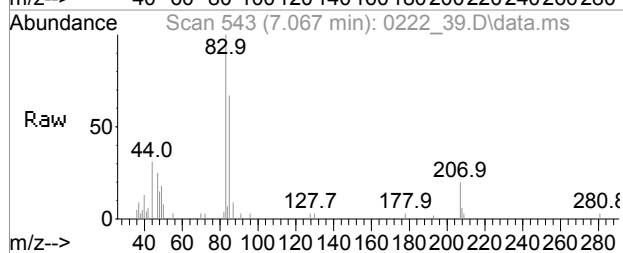
Tgt Ion:	61	Resp:	387668
Ion	Ratio	Lower	Upper
61	100		
96	61.5	55.1	82.7
98	39.7	35.7	53.5





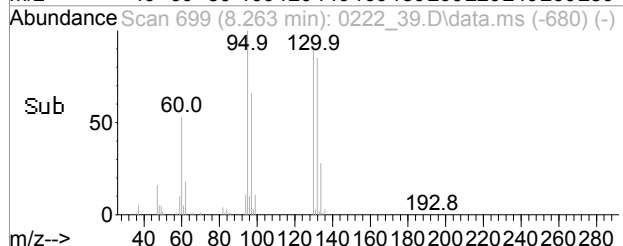
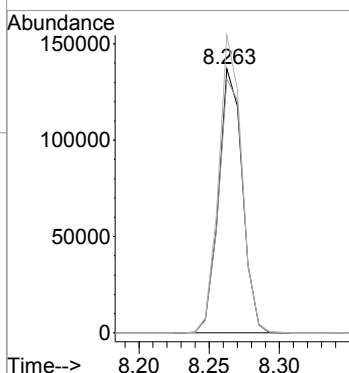
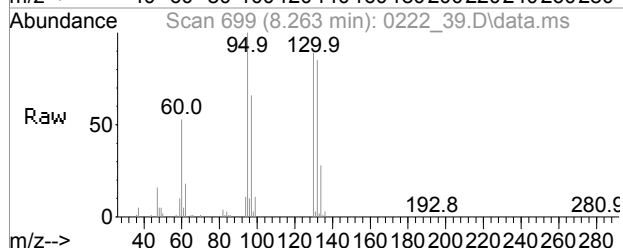
#27
Chloroform
Concen: 0.24 ppbv
RT: 7.067 min Scan# 543
Delta R.T. 0.001 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

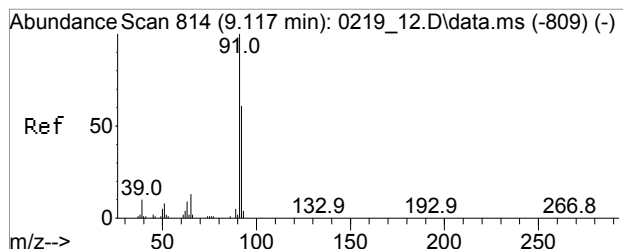
Tgt Ion	Ratio	Lower	Upper
83	100		
85	72.3	46.0	86.0
47	29.4	4.6	44.6



#38
Trichloroethene
Concen: 10.54 ppbv
RT: 8.263 min Scan# 699
Delta R.T. -0.007 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

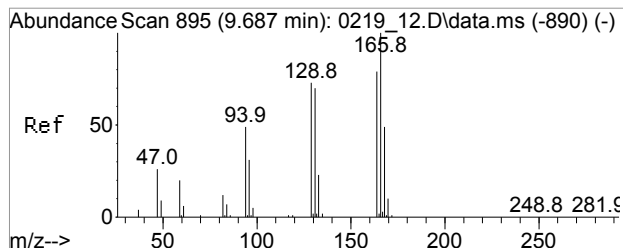
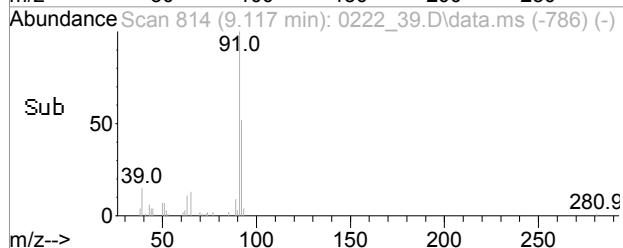
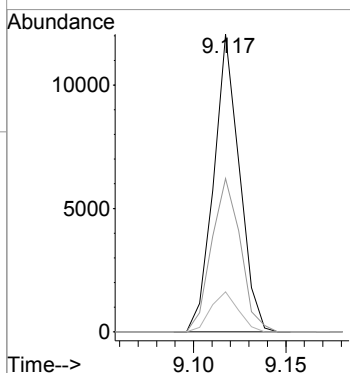
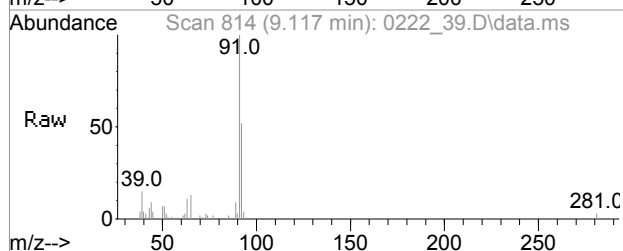
Tgt Ion	Ratio	Lower	Upper
130	100		
132	99.0	77.2	115.8
95	109.7	82.7	124.1





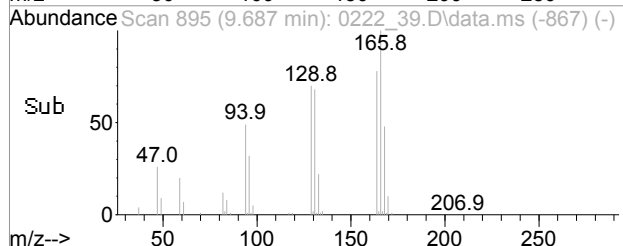
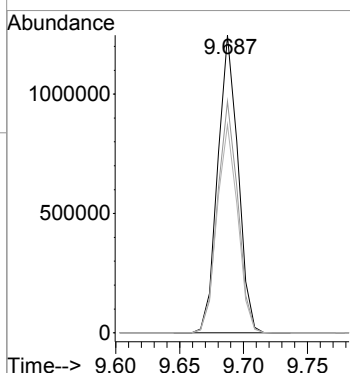
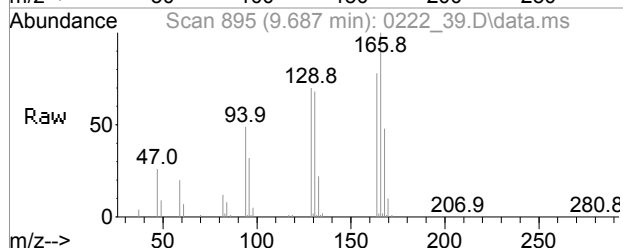
#47
Toluene
Concen: 0.35 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

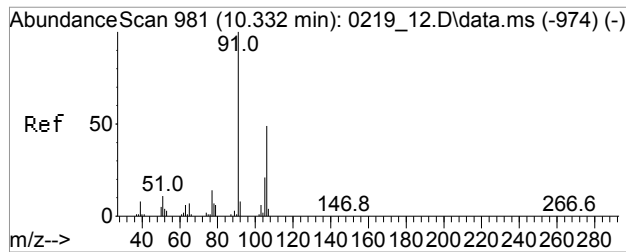
Tgt Ion: 91 Resp: 11743
Ion Ratio Lower Upper
91 100
92 57.8 47.7 71.5
65 14.3 9.5 14.3#



#51
Tetrachloroethene
Concen: 61.36 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

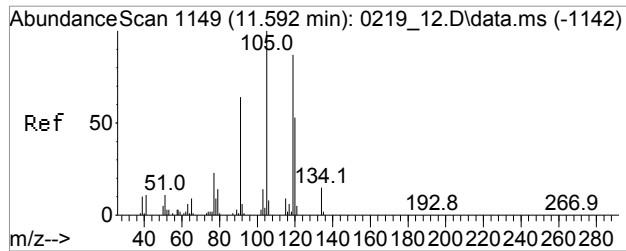
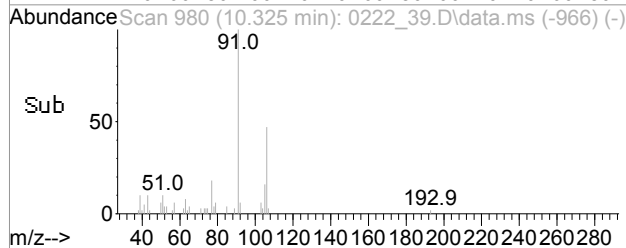
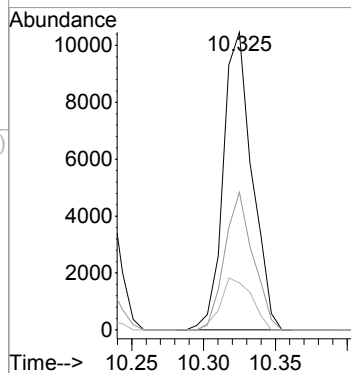
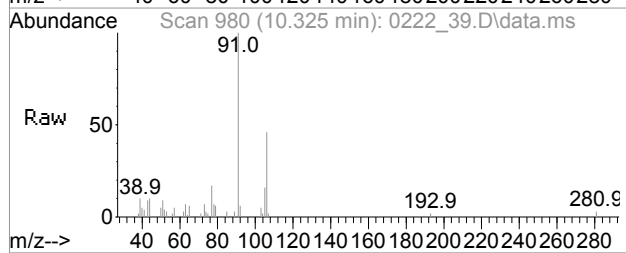
Tgt Ion: 166 Resp: 1363327
Ion Ratio Lower Upper
166 100
164 77.9 62.2 93.4
129 71.4 56.6 84.8





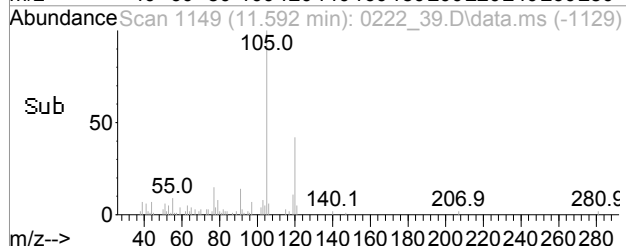
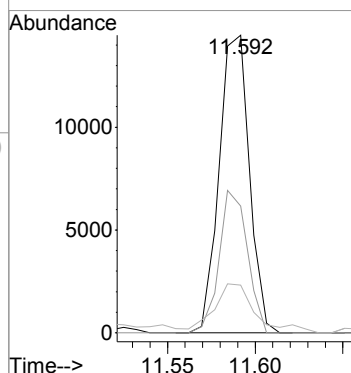
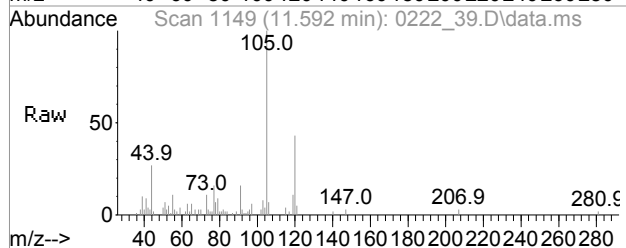
#56
m,p-Xylene
Concen: 0.41 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

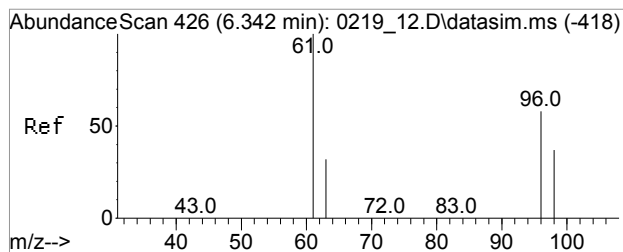
Tgt Ion: 91 Resp: 14599
Ion Ratio Lower Upper
91 100
106 45.6 38.7 58.1
105 18.9 16.6 25.0



#67
1,2,4-Trimethylbenzene
Concen: 0.43 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

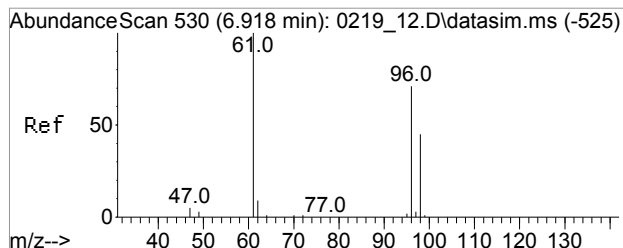
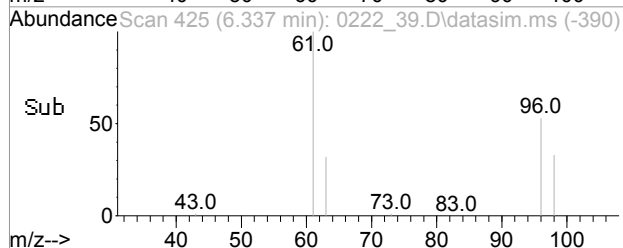
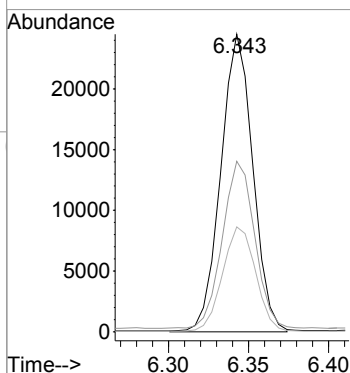
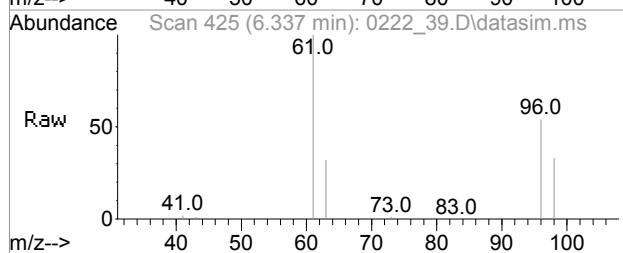
Tgt Ion: 105 Resp: 17321
Ion Ratio Lower Upper
105 100
120 44.6 43.5 65.3
77 22.3 20.2 30.4





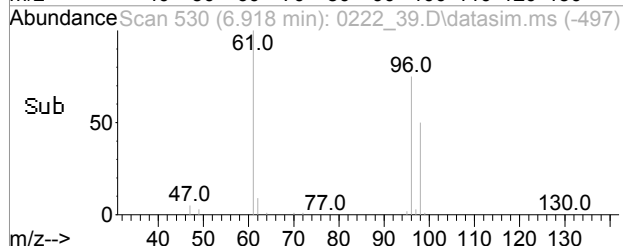
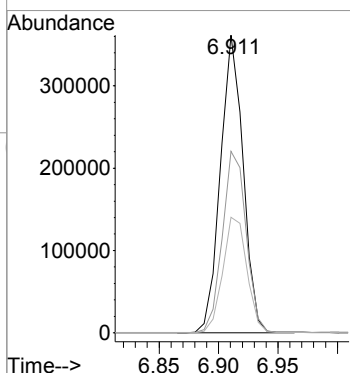
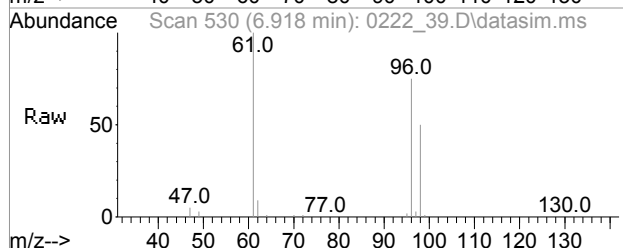
#91
 Trans-1,2-Dichloroethene(sim)
 Concen: 0.84 ppbv
 RT: 6.340 min Scan# 425
 Delta R.T. -0.005 min
 Lab File: 0222_39.D
 Acq: 23 Feb 2016 12:33 pm

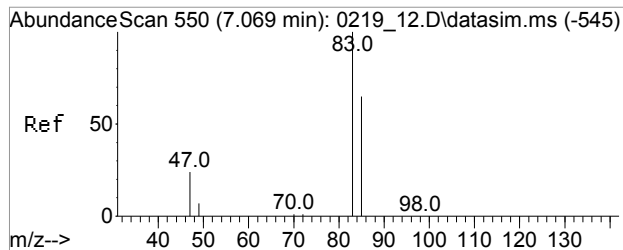
Tgt Ion: 61 Resp: 27434
 Ion Ratio Lower Upper
 61 100
 96 57.5 48.4 72.6
 98 34.5 30.6 45.8



#93
 Cis-1,2-Dichloroethene(sim)
 Concen: 15.14 ppbv
 RT: 6.915 min Scan# 530
 Delta R.T. 0.000 min
 Lab File: 0222_39.D
 Acq: 23 Feb 2016 12:33 pm

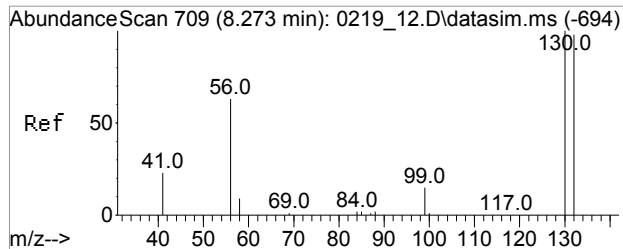
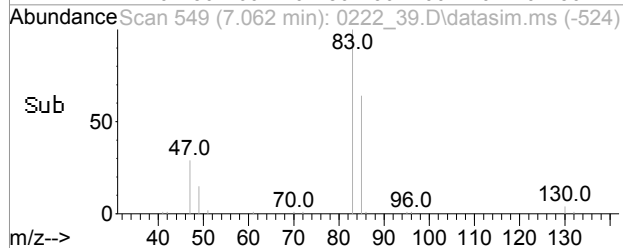
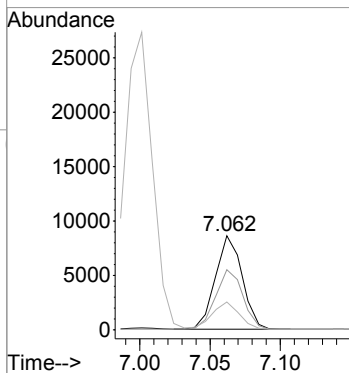
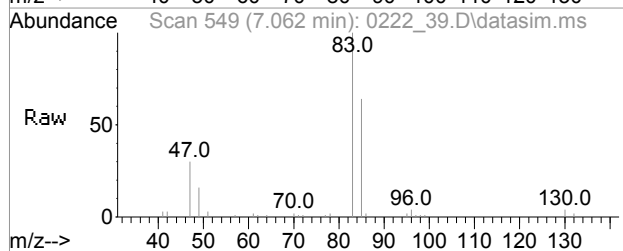
Tgt Ion: 61 Resp: 387668
 Ion Ratio Lower Upper
 61 100
 96 61.5 55.1 82.7
 98 39.7 35.7 53.5





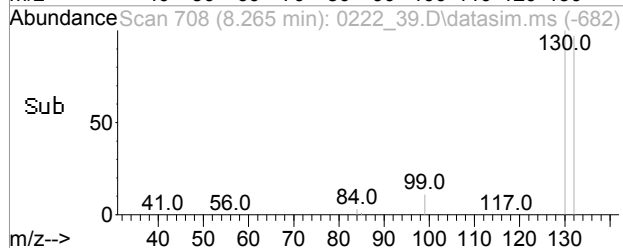
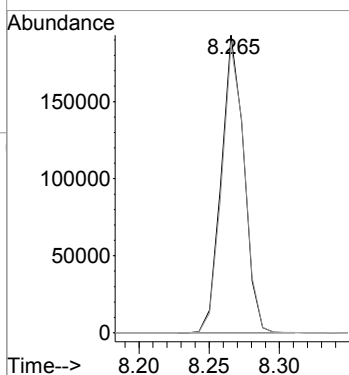
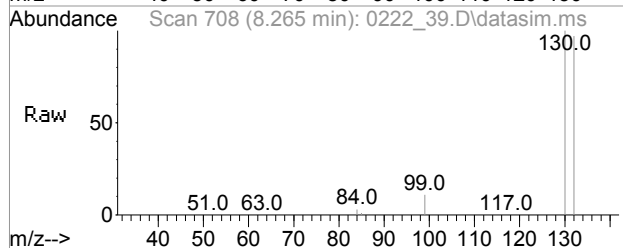
#94
Chloroform(sim)
Concen: 0.25 ppbv
RT: 7.062 min Scan# 549
Delta R.T. -0.007 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

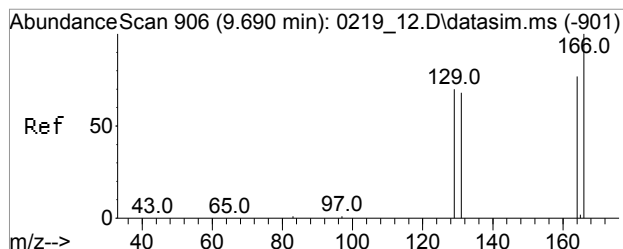
Tgt Ion: 83 Resp: 11446
Ion Ratio Lower Upper
83 100
85 65.1 62.7 67.9
47 29.8 19.4 29.0#



#99
Trichloroethene(sim)
Concen: 8.86 ppbv
RT: 8.263 min Scan# 708
Delta R.T. -0.007 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

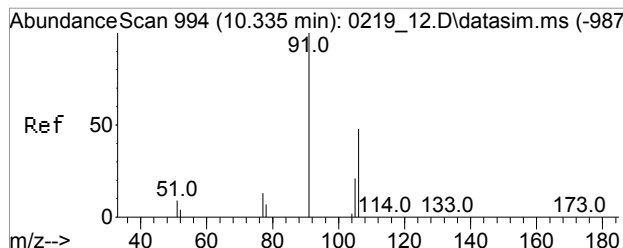
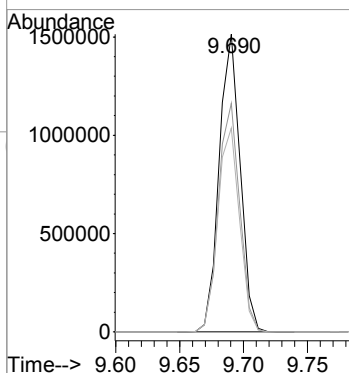
Tgt Ion:130 Resp: 161408
Ion Ratio Lower Upper
130 100
132 99.0 77.2 115.8
97 73.2 53.5 80.3





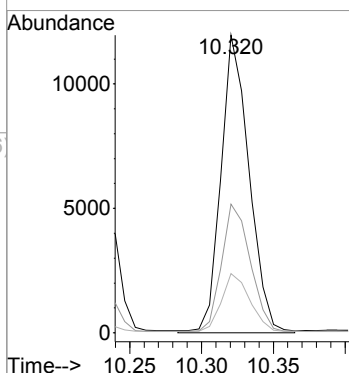
#105
Tetrachloroethene(sim)
Concen: 60.96 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

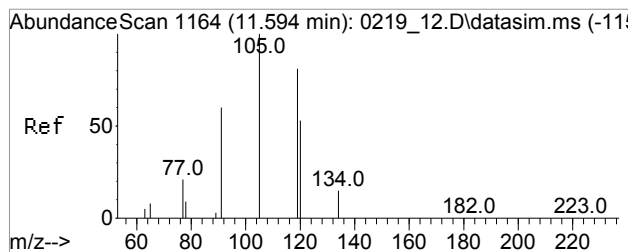
Tgt Ion:166 Resp: 1363327
Ion Ratio Lower Upper
166 100
164 77.9 57.8 97.8
129 71.4 50.7 90.7



#111
m,p-Xylene(sim)
Concen: 0.36 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

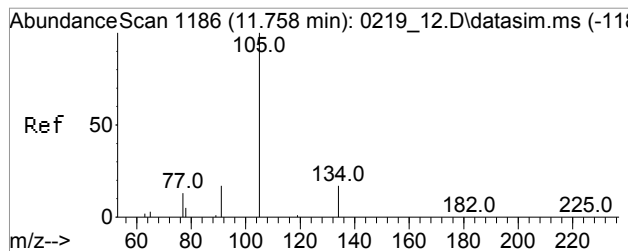
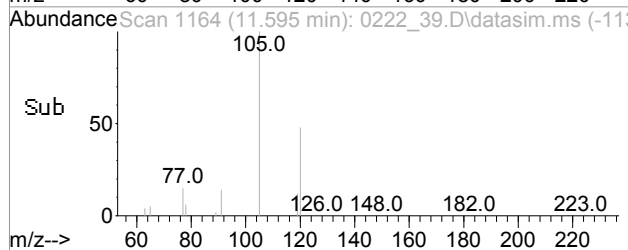
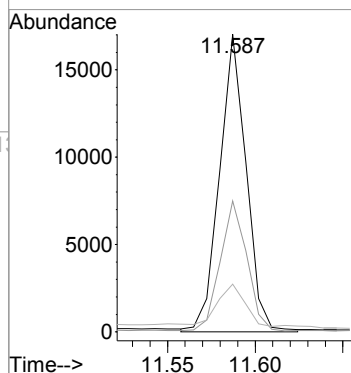
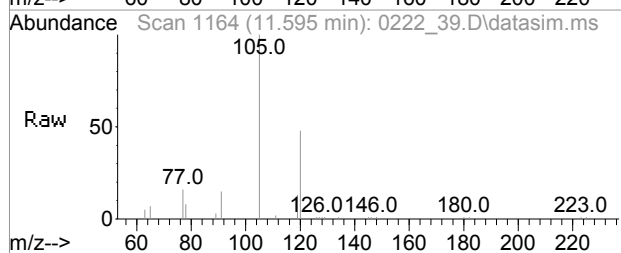
Tgt Ion: 91 Resp: 14599
Ion Ratio Lower Upper
91 100
106 45.6 43.6 53.2
105 18.9 16.6 25.0





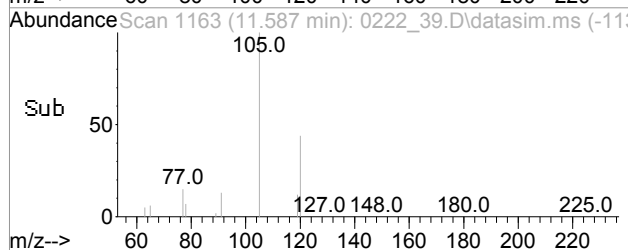
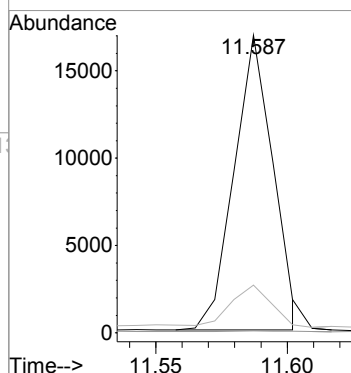
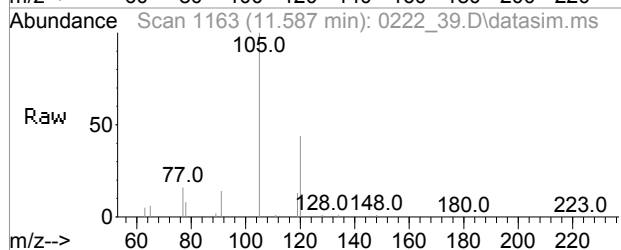
#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.39 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	43.5	65.3
77	22.3	20.2	30.4



#124
sec-Butylbenzene(sim)
Concen: 0.26 ppbv
RT: 11.587 min Scan# 1163
Delta R.T. 0.000 min
Lab File: 0222_39.D
Acq: 23 Feb 2016 12:33 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.3	0.0	35.9
77	13.5	0.0	34.1



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67663 30X
Canister:	12867	Lab File ID:	0222_51.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
		Date Analyzed:	02/23/16
Matrix:	AIR	Dilution Factor:	30

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_51.D
 Acq On : 23 Feb 2016 08:29 pm
 Operator : CORTEX\ms
 Client ID : SS-4 DIL
 Lab ID : BK67663 30X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:28:16 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

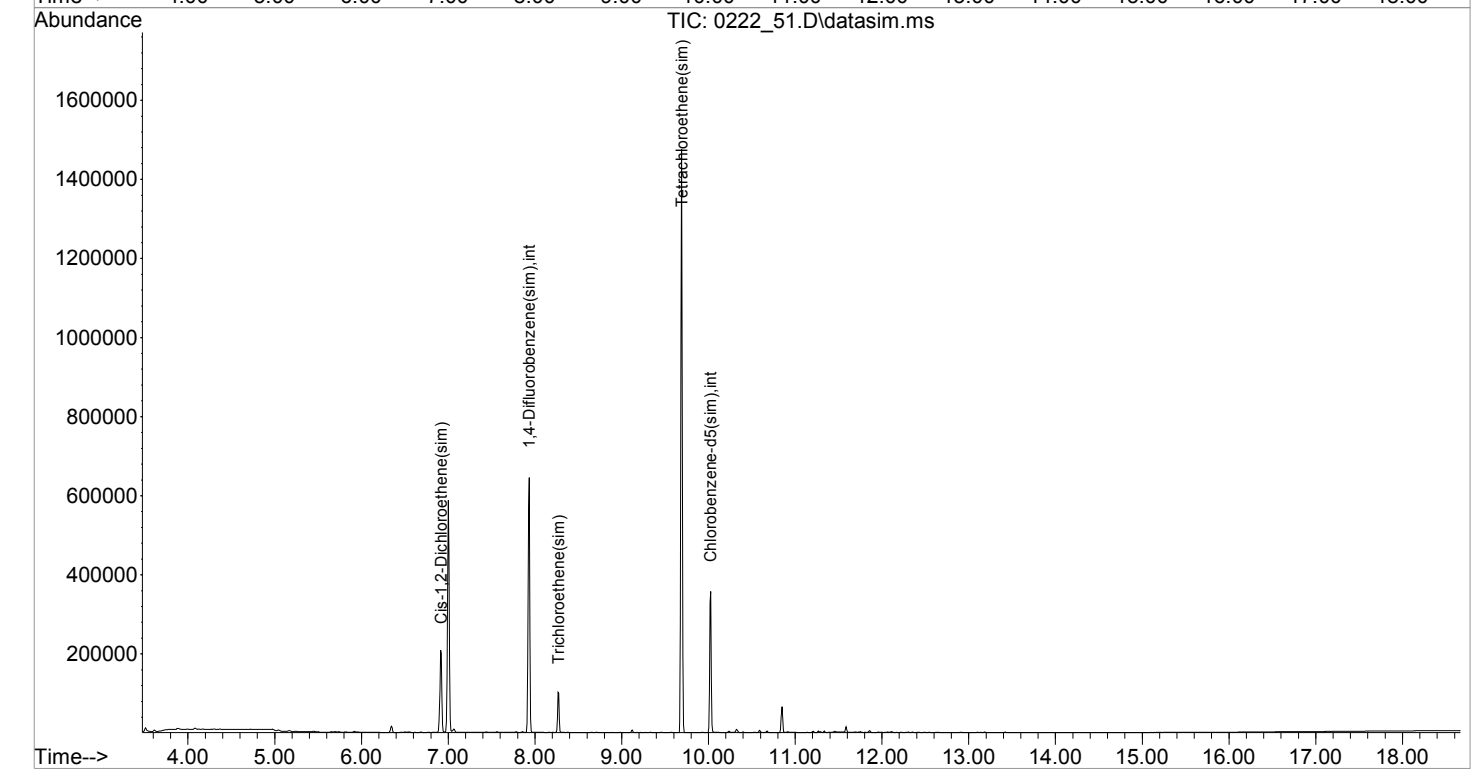
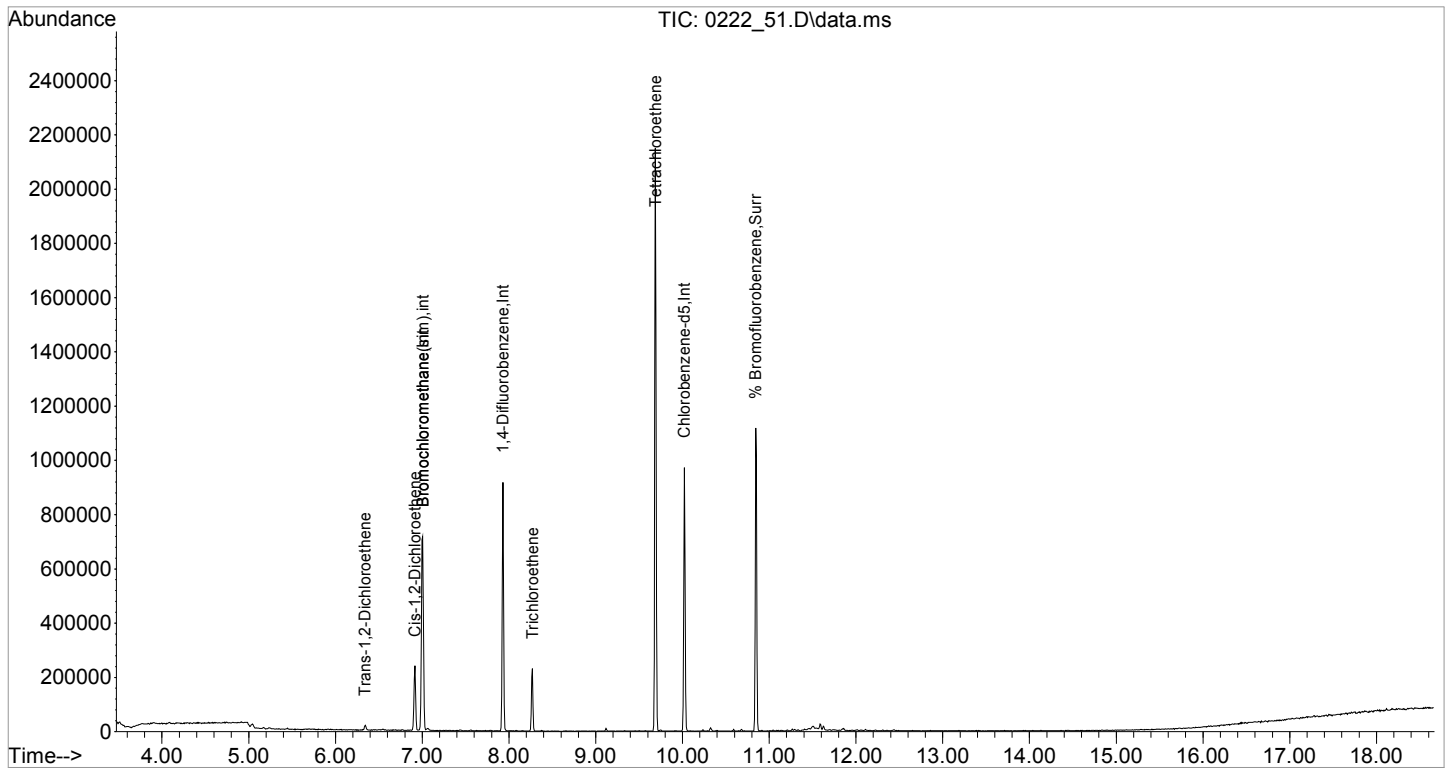
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

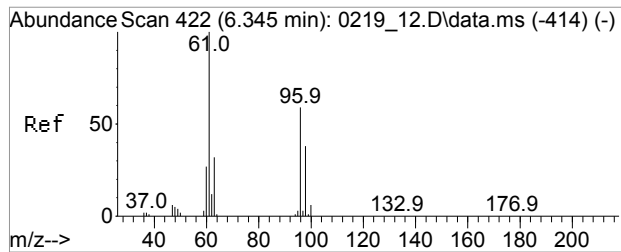
Internal Standards						
1) Bromochloromethane	7.006	130	155283	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	413676	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	184019	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	155283	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	504718	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	196808	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	254072	10.456	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.60%
Target Compounds						
						Qvalue
21) Trans-1,2-Dichloroethene	6.340	61	7995	0.260	ppbv	93
25) Cis-1,2-Dichloroethene	6.915	61	106294	4.416	ppbv	89
38) Trichloroethene	8.270	130	44044	3.066	ppbv	96
51) Tetrachloroethene	9.688	166	372163	17.851	ppbv	97
93] Cis-1,2-Dichloroethene...	6.915	61	106294	4.194	ppbv	89
99] Trichloroethene(sim)	8.270	130	44044	2.547	ppbv	98
105] Tetrachloroethene(sim)	9.688	166	372163	17.535	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_51.D
Acq On : 23 Feb 2016 08:29 pm
Operator : CORTEX\ms
Client ID : SS-4 DIL
Lab ID : BK67663 30X
ALS Vial : 1 Sample Multiplier: 1

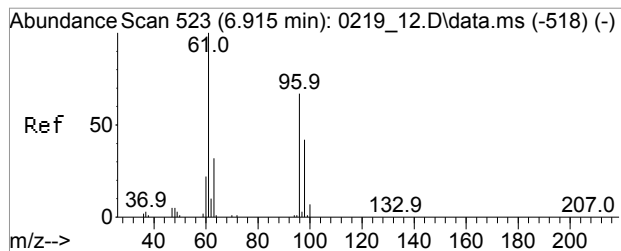
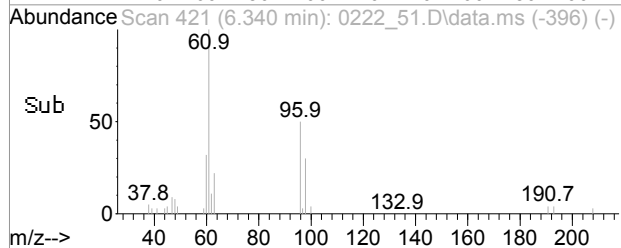
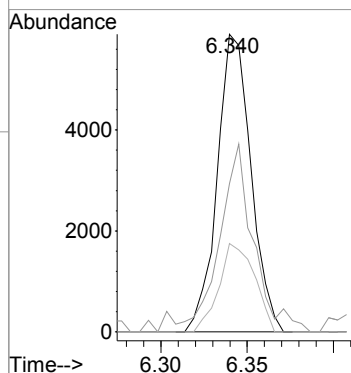
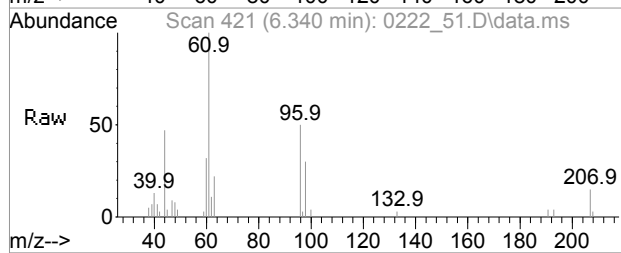
Quant Time: Feb 24 08:28:16 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





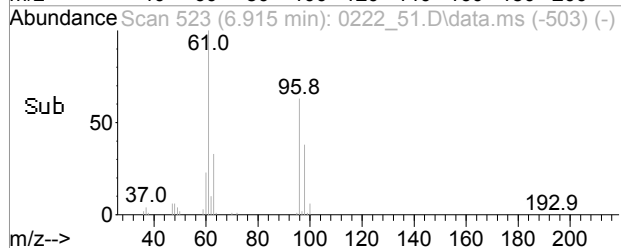
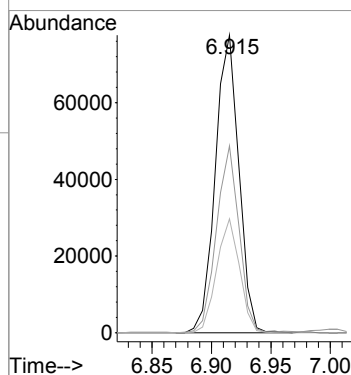
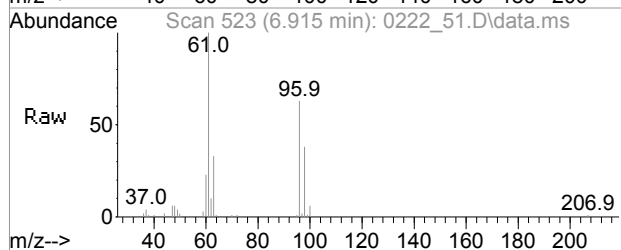
#21
 Trans-1,2-Dichloroethene
 Concen: 0.26 ppbv
 RT: 6.340 min Scan# 421
 Delta R.T. -0.005 min
 Lab File: 0222_51.D
 Acq: 23 Feb 2016 08:29 pm

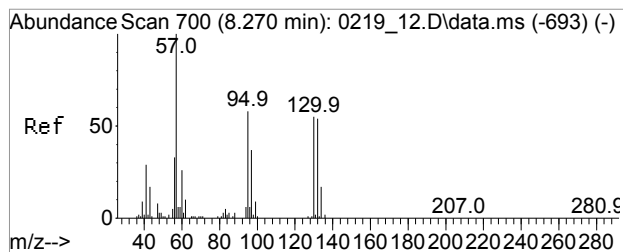
Tgt Ion: 61 Resp: 7995
 Ion Ratio Lower Upper
 61 100
 96 63.4 48.4 72.6
 98 31.3 30.6 45.8



#25
 Cis-1,2-Dichloroethene
 Concen: 4.42 ppbv
 RT: 6.915 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: 0222_51.D
 Acq: 23 Feb 2016 08:29 pm

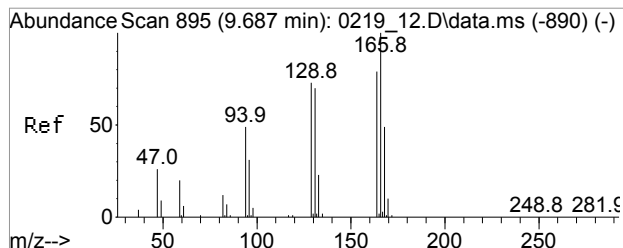
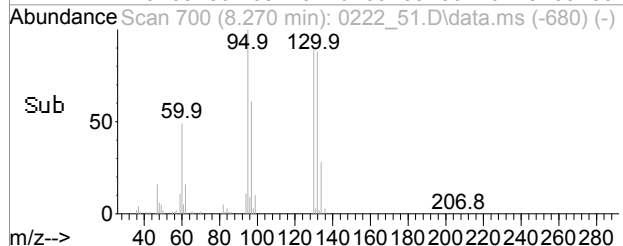
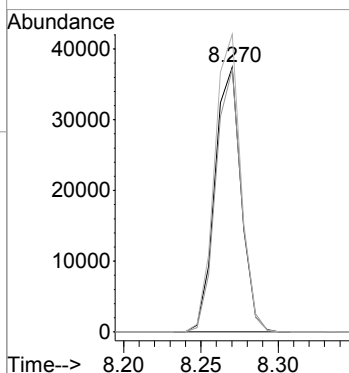
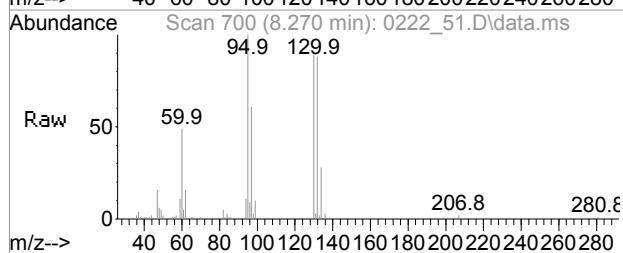
Tgt Ion: 61 Resp: 106294
 Ion Ratio Lower Upper
 61 100
 96 60.5 55.1 82.7
 98 37.4 35.7 53.5





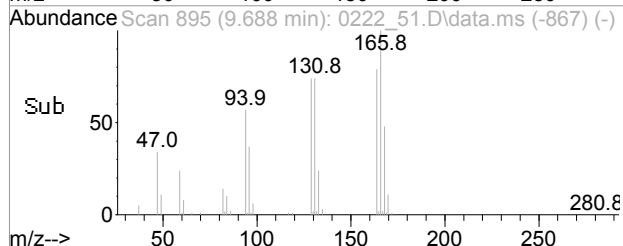
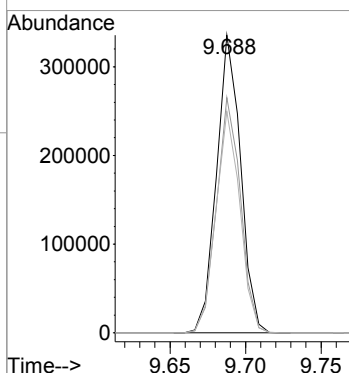
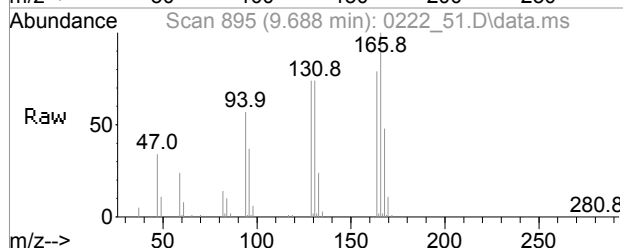
#38
Trichloroethene
Concen: 3.07 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_51.D
Acq: 23 Feb 2016 08:29 pm

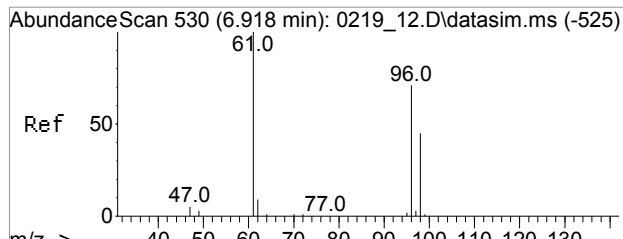
Tgt Ion:130 Resp: 44044
Ion Ratio Lower Upper
130 100
132 96.7 77.2 115.8
95 111.8 82.7 124.1



#51
Tetrachloroethene
Concen: 17.85 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_51.D
Acq: 23 Feb 2016 08:29 pm

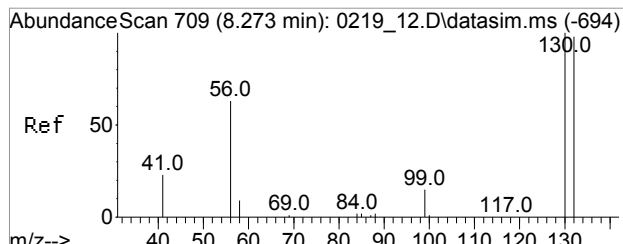
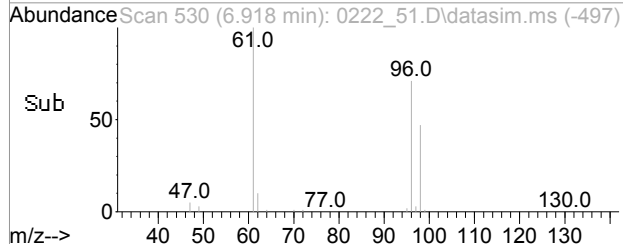
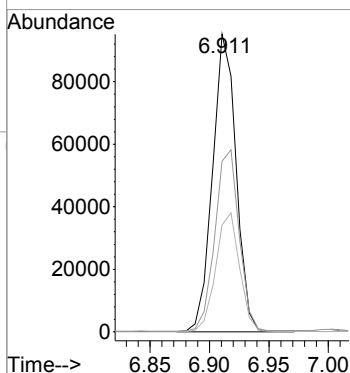
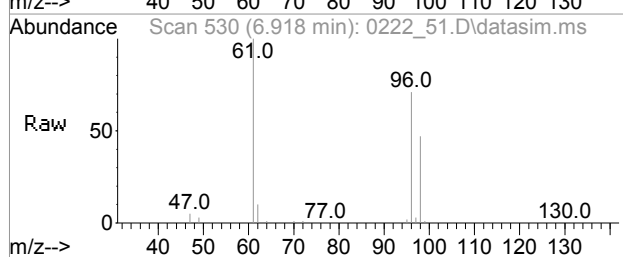
Tgt Ion:166 Resp: 372163
Ion Ratio Lower Upper
166 100
164 79.0 62.2 93.4
129 74.5 56.6 84.8





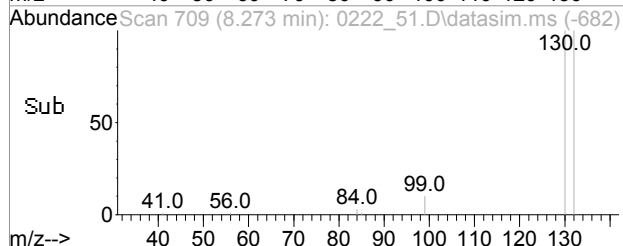
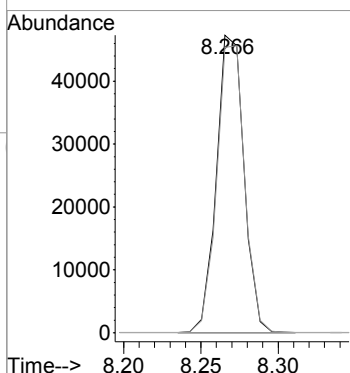
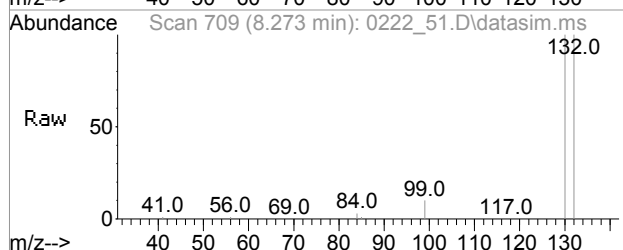
#93
Cis-1,2-Dichloroethene(sim)
Concen: 4.19 ppbv
RT: 6.915 min Scan# 530
Delta R.T. 0.000 min
Lab File: 0222_51.D
Acq: 23 Feb 2016 08:29 pm

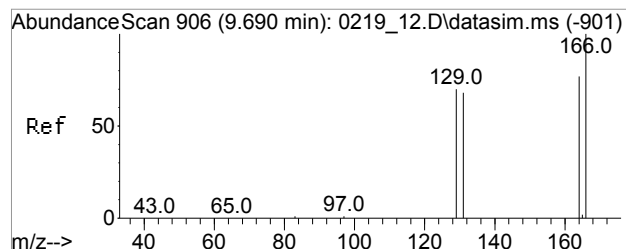
Tgt Ion: 61 Resp: 106294
Ion Ratio Lower Upper
61 100
96 60.5 55.1 82.7
98 37.4 35.7 53.5



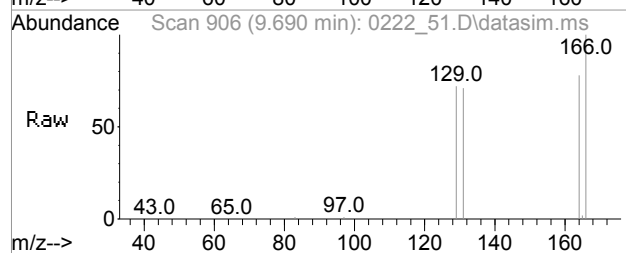
#99
Trichloroethene(sim)
Concen: 2.55 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_51.D
Acq: 23 Feb 2016 08:29 pm

Tgt Ion:130 Resp: 44044
Ion Ratio Lower Upper
130 100
132 96.9 77.2 115.8
97 69.5 53.5 80.3



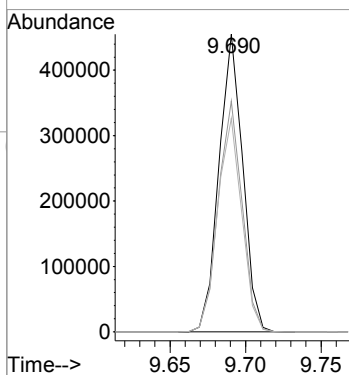
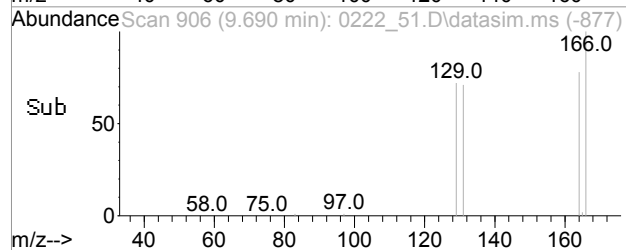


#105
Tetrachloroethene(sim)
Concen: 17.53 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_51.D
Acq: 23 Feb 2016 08:29 pm



Tgt Ion:166 Resp: 372163

Ion	Ratio	Lower	Upper
166	100		
164	79.0	57.8	97.8
129	74.5	50.7	90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67664</u>
Canister:	<u>13650</u>	Lab File ID:	<u>0222_12.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.586		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.477		0.202	0.202	r
74-87-3	Chloromethane	0.585		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	36.7	S	0.531	0.531	r
67-64-1	Acetone	2.80	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.237		0.178	0.178	r
67-63-0	Isopropylalcohol	0.496	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.280		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.834		0.037	0.037	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.079		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67664</u>
Canister:	<u>13650</u>	Lab File ID:	<u>0222_12.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_12.D
 Acq On : 22 Feb 2016 06:09 pm
 Operator : CORTEX\ms
 Client ID : IA-1
 Lab ID : BK67664
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:10:08 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

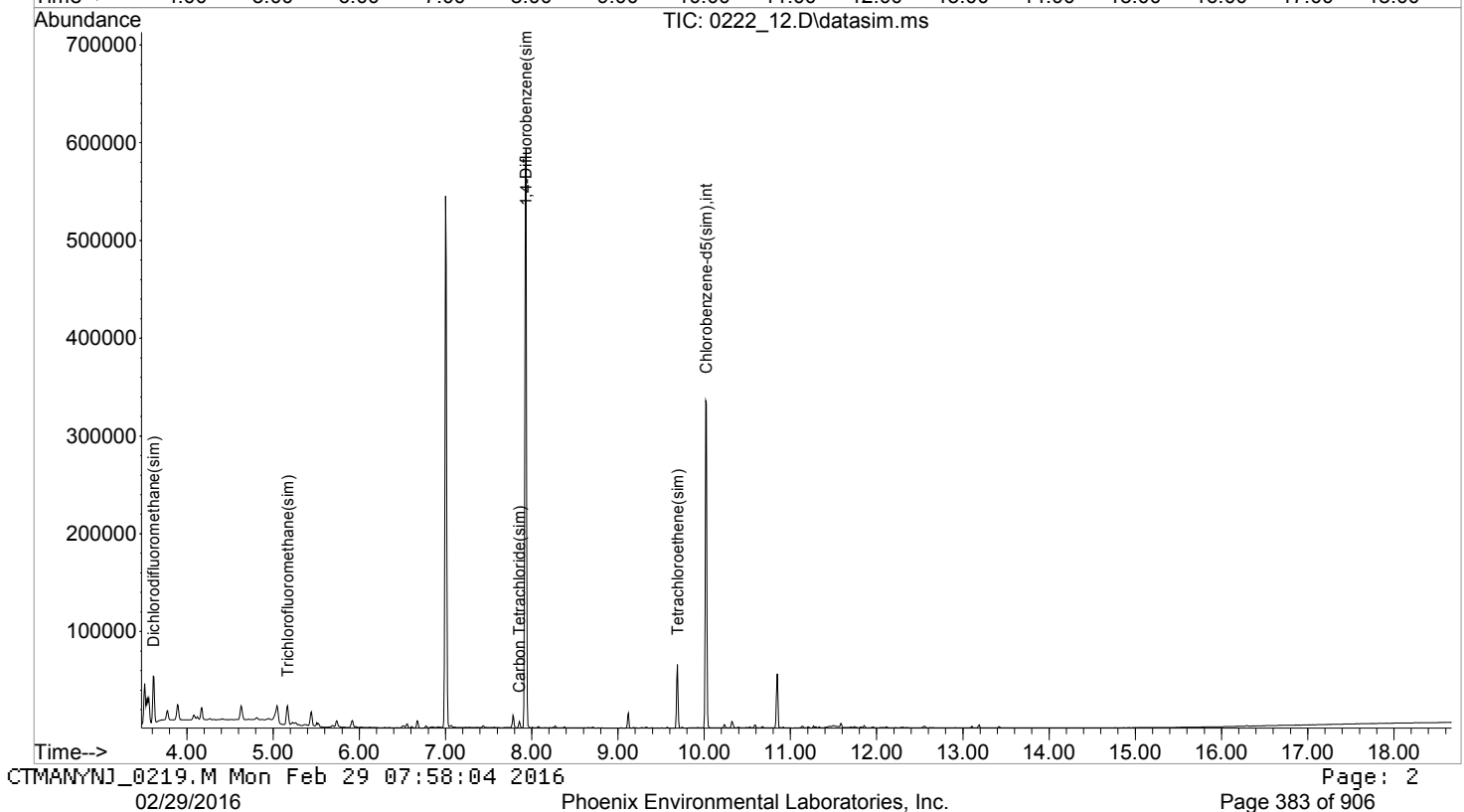
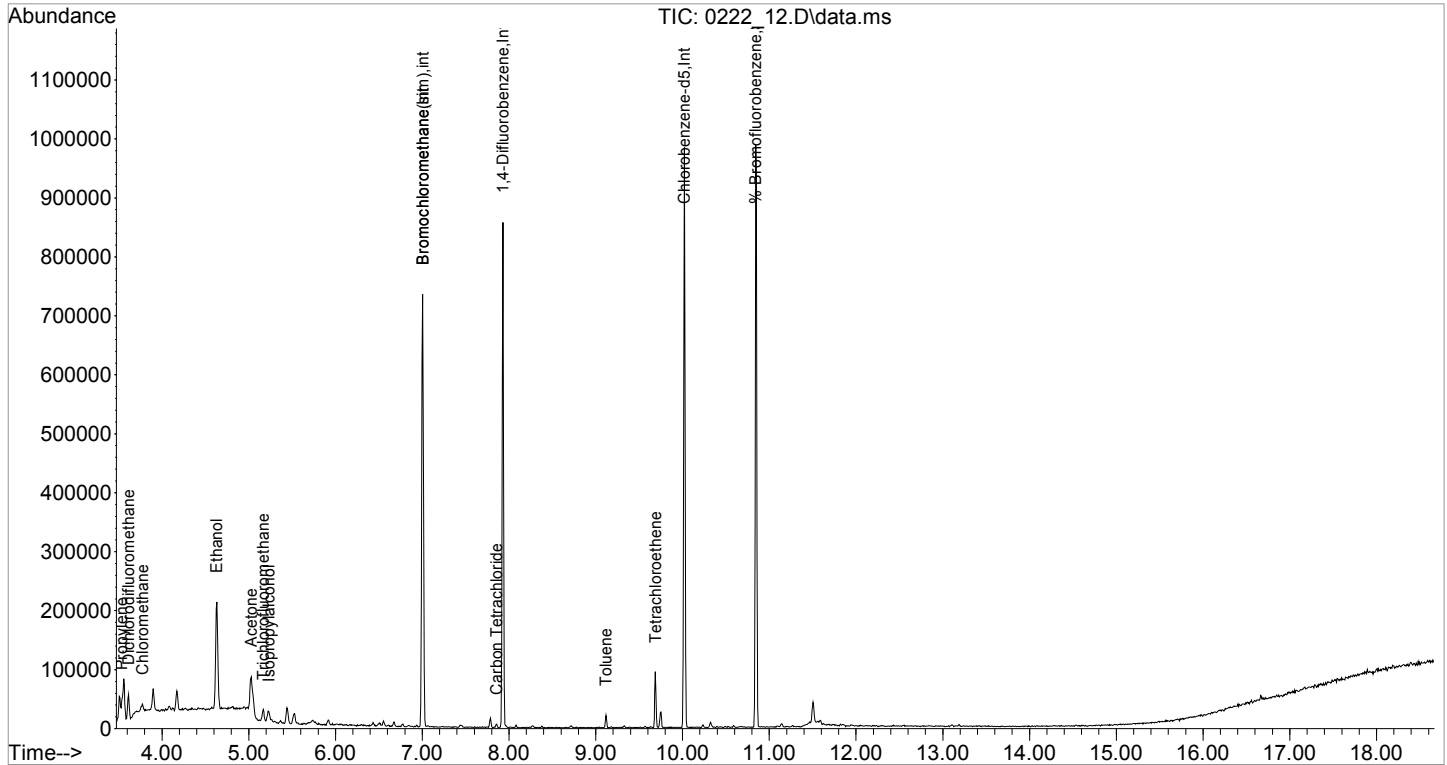
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

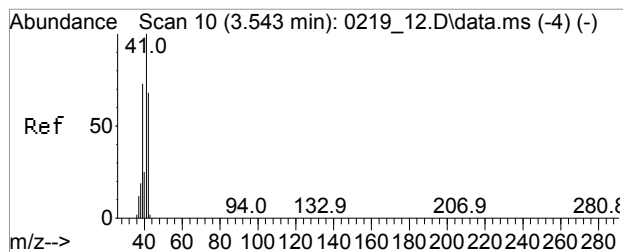
Internal Standards						
1) Bromochloromethane	7.006	130	155555	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	408423	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	185919	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	155555	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	487941	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	199421	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	229590	9.352	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.50%	
Target Compounds						
					Qvalue	
2) Propylene	3.536	41	14157	0.586	ppbv#	27
3) Dichlorodifluoromethane	3.615	85	31595	0.477	ppbv#	96
4) Chloromethane	3.774	52	3139	0.584	ppbv#	85
10) Ethanol	4.632	45	181137	36.745	ppbv	97
11) Acetone	5.029	43	77394	2.795	ppbv	90
12) Trichlorofluoromethane	5.166	101	13865	0.237	ppbv#	95
13) Isopropylalcohol	5.231	45	25137	0.496	ppbv#	91
33) Carbon Tetrachloride	7.854	117	2515	0.081	ppbv	93
47) Toluene	9.117	91	8599	0.280	ppbv	98
51) Tetrachloroethene	9.687	166	17171	0.834	ppbv	98
80] Dichlorodifluoromethan...	3.611	85	40947	0.498	ppbv	99
84] Trichlorofluoromethane...	5.169	101	17951	0.241	ppbv	100
87] Carbon Tetrachloride(sim)	7.854	117	2515	0.079	ppbv#	93
105] Tetrachloroethene(sim)	9.687	166	17171	0.837	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_12.D
Acq On : 22 Feb 2016 06:09 pm
Operator : CORTEX\jms
Client ID : IA-1
Lab ID : BK67664
ALS Vial : 1 Sample Multiplier: 1

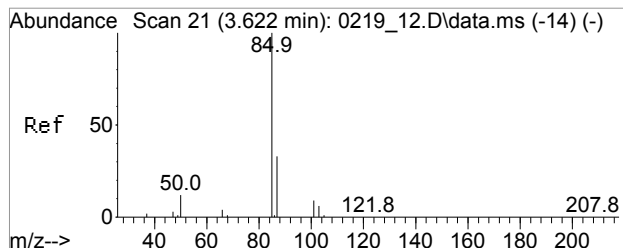
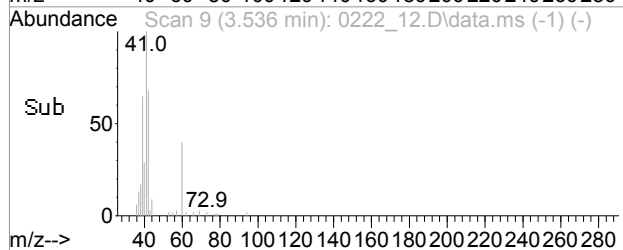
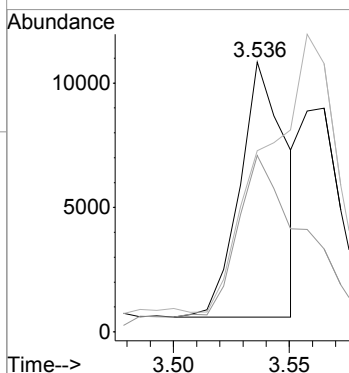
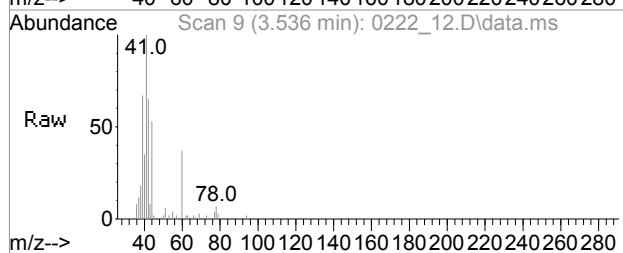
Quant Time: Feb 23 08:10:08 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





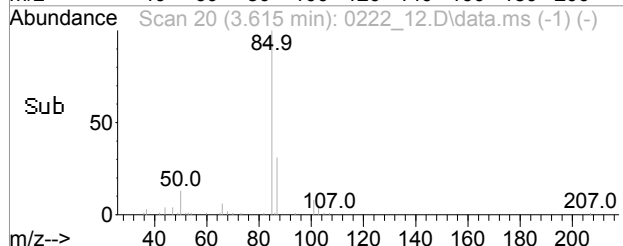
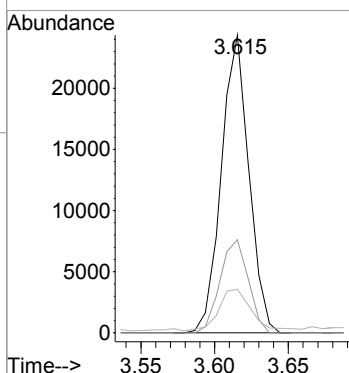
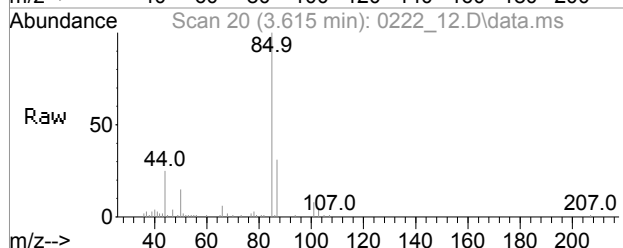
#2
Propylene
Concen: 0.59 ppbv
RT: 3.536 min Scan# 9
Delta R.T. -0.014 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

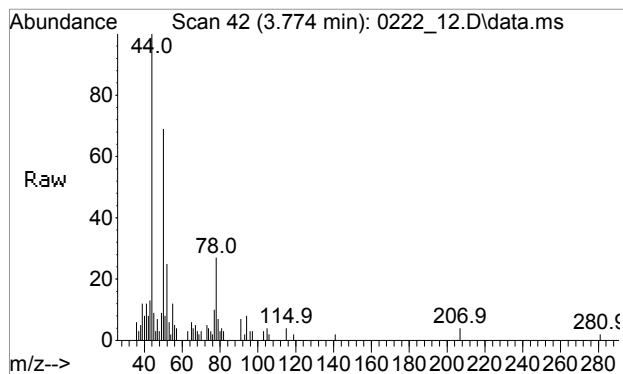
Tgt Ion: 41 Resp: 14157
Ion Ratio Lower Upper
41 100
42 88.0 52.7 79.1#
39 169.7 59.1 88.7#



#3
Dichlorodifluoromethane
Concen: 0.48 ppbv
RT: 3.615 min Scan# 20
Delta R.T. -0.015 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

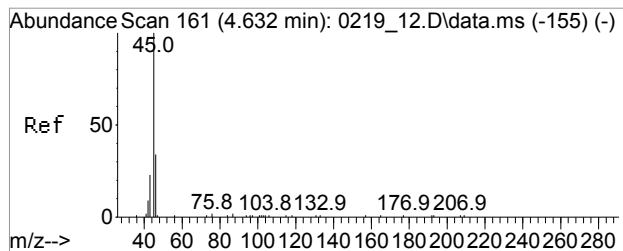
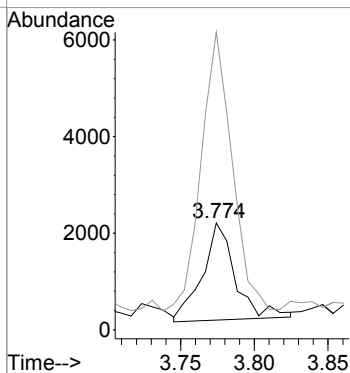
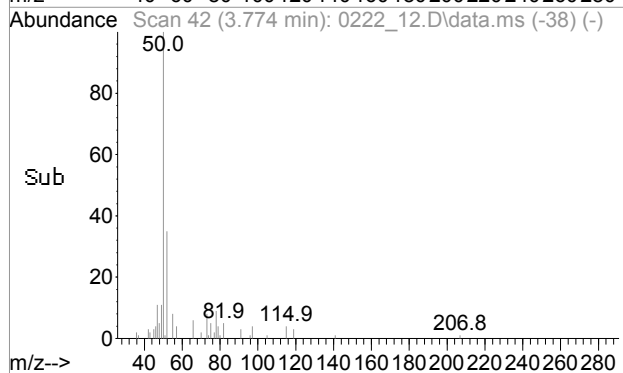
Tgt Ion: 85 Resp: 31595
Ion Ratio Lower Upper
85 100
87 32.0 26.1 39.1
50 17.2 10.5 15.7#





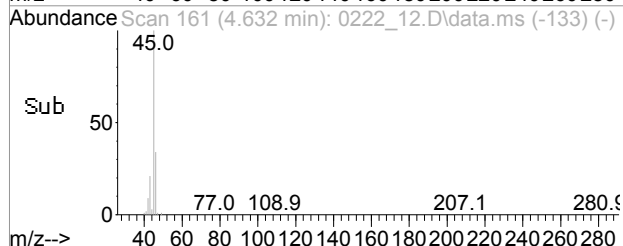
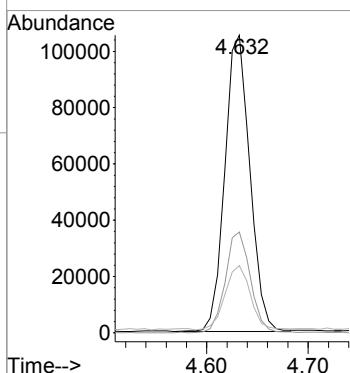
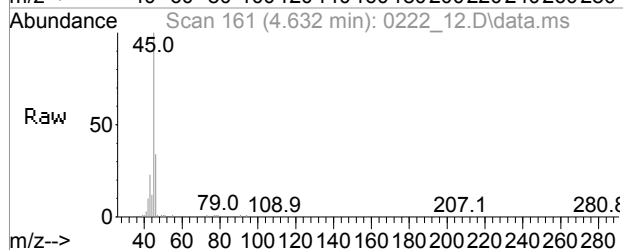
#4
Chloromethane
Concen: 0.58 ppbv
RT: 3.774 min Scan# 42
Delta R.T. -0.014 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

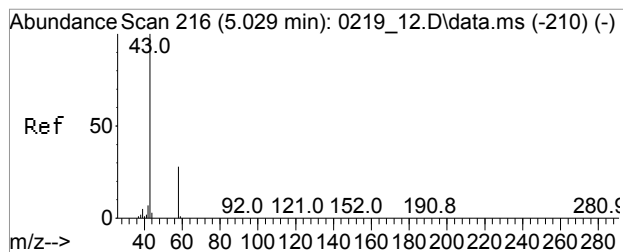
Tgt Ion: 52 Resp: 3139
Ion Ratio Lower Upper
52 100
50 274.0 284.4 324.4#



#10
Ethanol
Concen: 36.74 ppbv
RT: 4.632 min Scan# 161
Delta R.T. 0.000 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

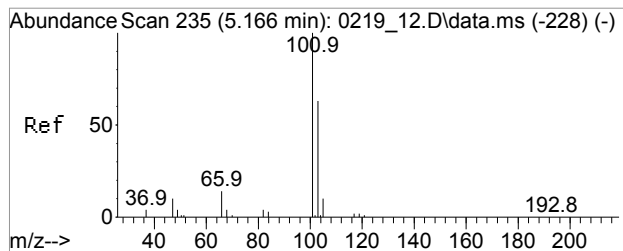
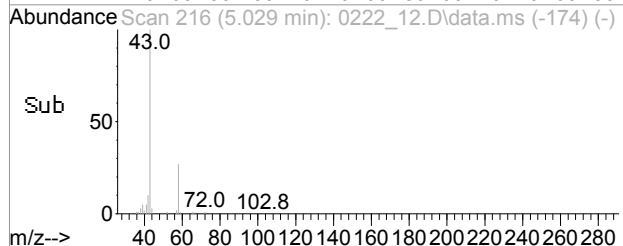
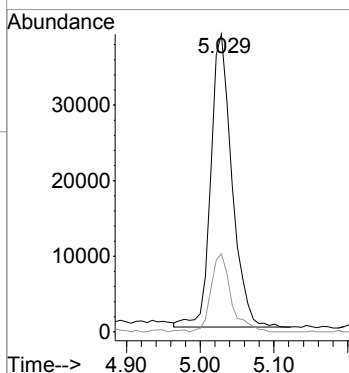
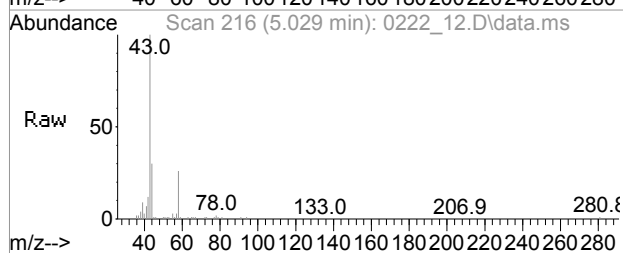
Tgt Ion: 45 Resp: 181137
Ion Ratio Lower Upper
45 100
46 34.2 28.5 42.7
43 22.1 19.7 29.5





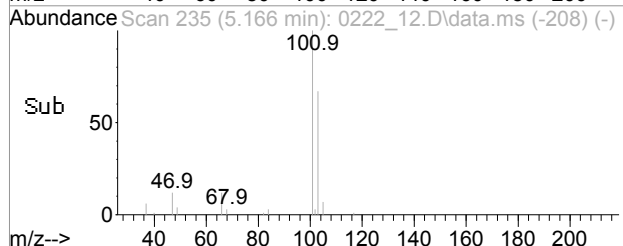
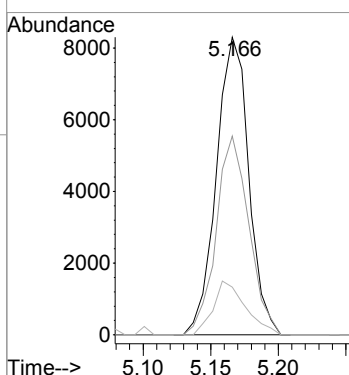
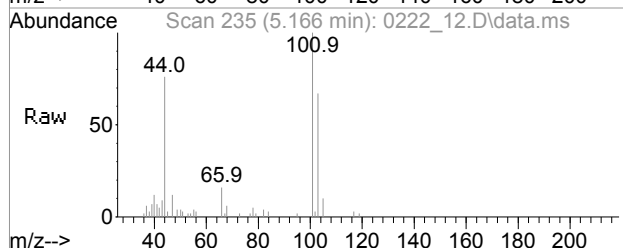
#11
Acetone
Concen: 2.79 ppbv
RT: 5.029 min Scan# 216
Delta R.T. -0.000 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

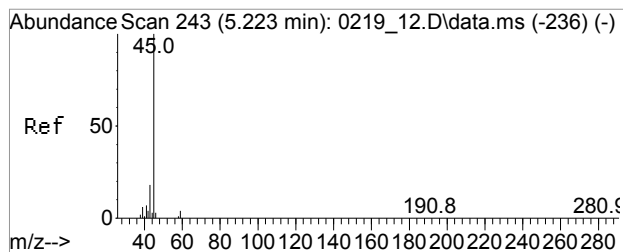
Tgt Ion: 43 Resp: 77394
Ion Ratio Lower Upper
43 100
58 25.3 24.8 37.2



#12
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

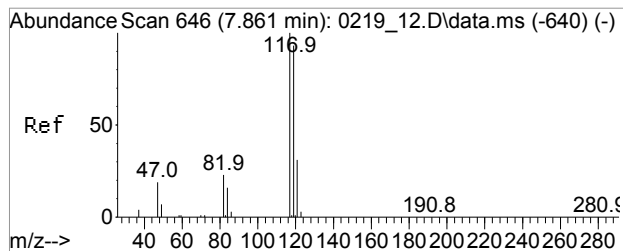
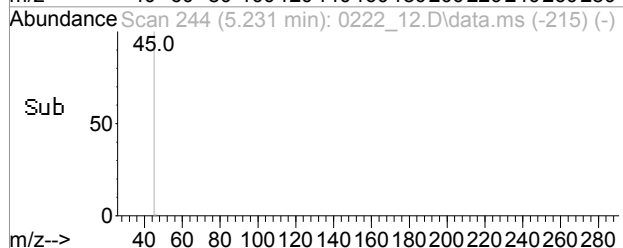
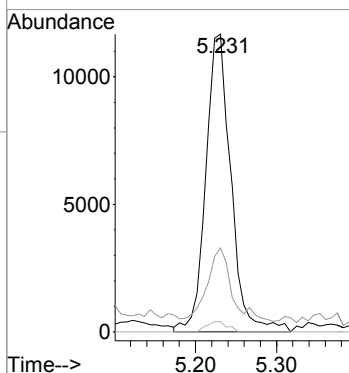
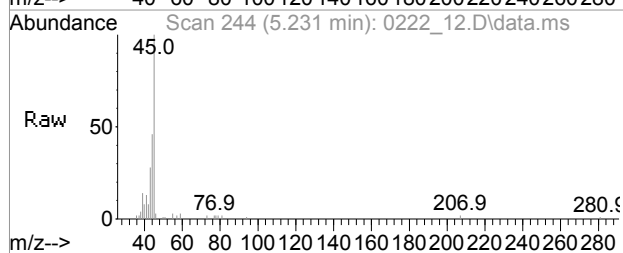
Tgt Ion: 101 Resp: 13865
Ion Ratio Lower Upper
101 100
103 67.5 51.8 77.8
66 18.0 11.1 16.7#





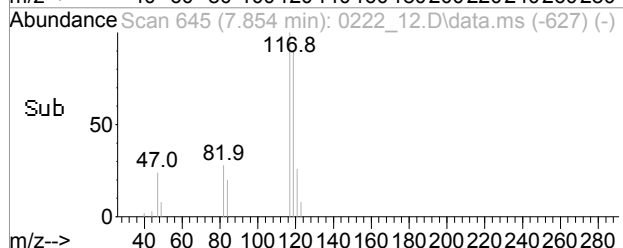
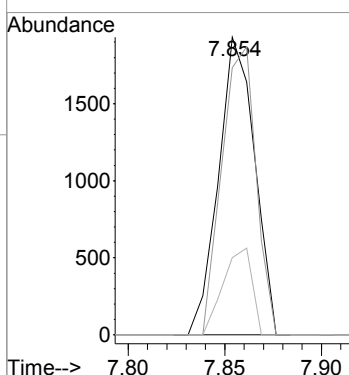
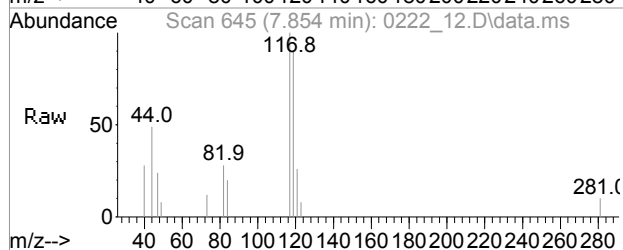
#13
Isopropylalcohol
Concen: 0.50 ppbv
RT: 5.231 min Scan# 244
Delta R.T. 0.008 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

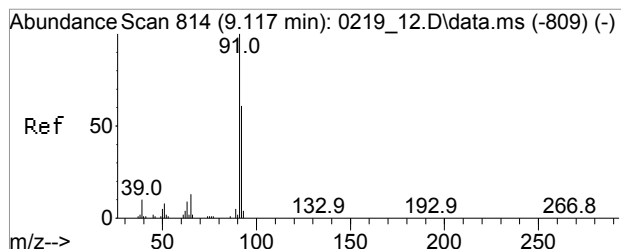
Tgt Ion: 45 Resp: 25137
Ion Ratio Lower Upper
45 100
43 23.8 15.4 23.0#
59 2.9 3.0 4.4#



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

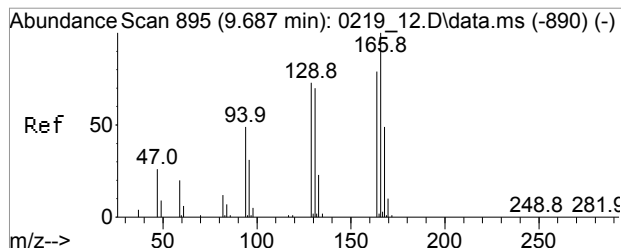
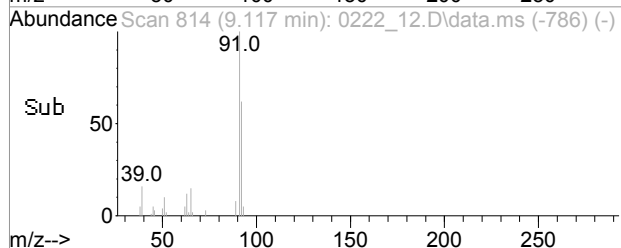
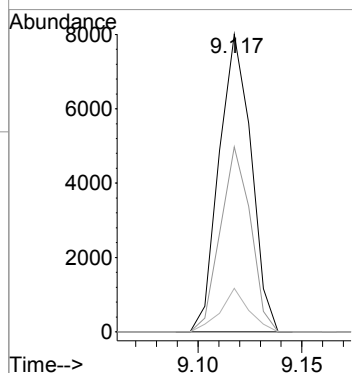
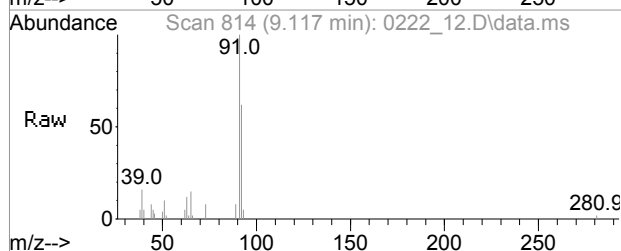
Tgt Ion: 117 Resp: 2515
Ion Ratio Lower Upper
117 100
119 91.5 75.9 115.9
121 23.3 10.8 50.8





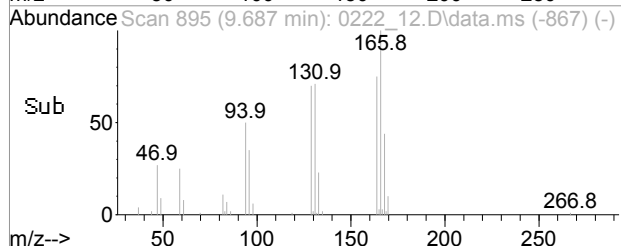
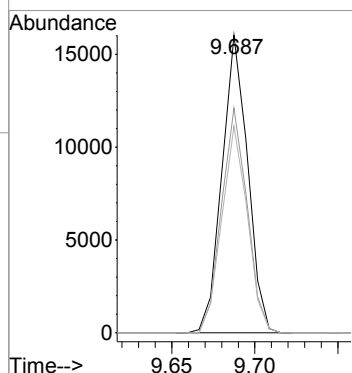
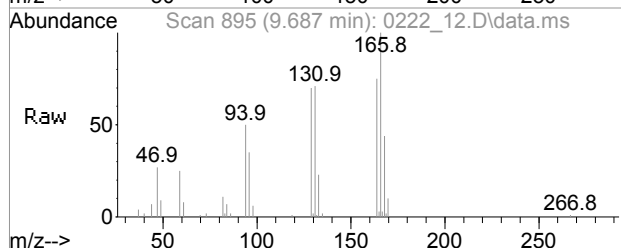
#47
Toluene
Concen: 0.28 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

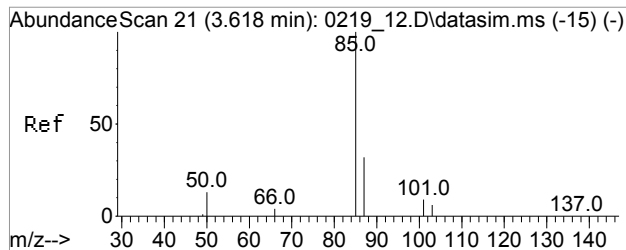
Tgt Ion: 91 Resp: 8599
Ion Ratio Lower Upper
91 100
92 58.6 47.7 71.5
65 13.1 9.5 14.3



#51
Tetrachloroethene
Concen: 0.83 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

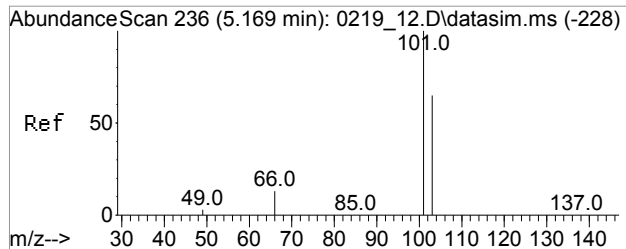
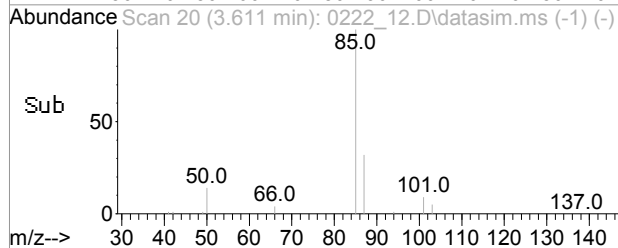
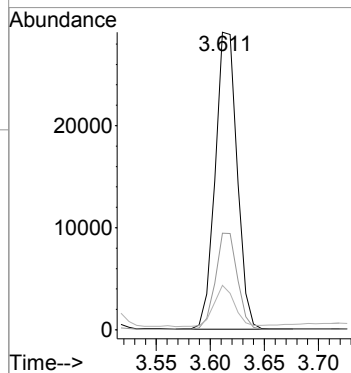
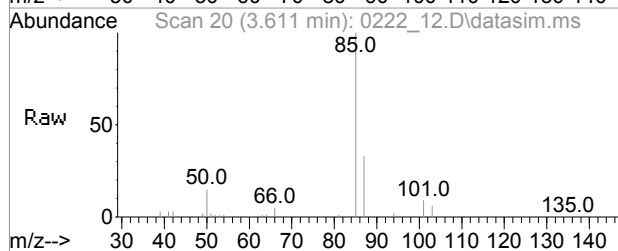
Tgt Ion: 166 Resp: 17171
Ion Ratio Lower Upper
166 100
164 75.6 62.2 93.4
129 69.7 56.6 84.8





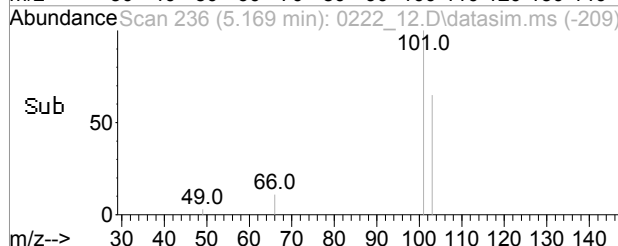
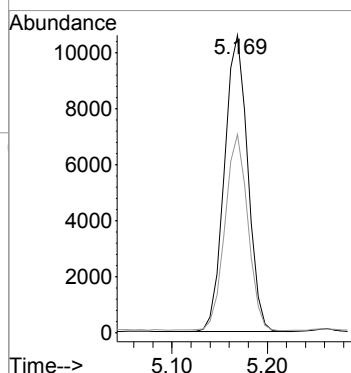
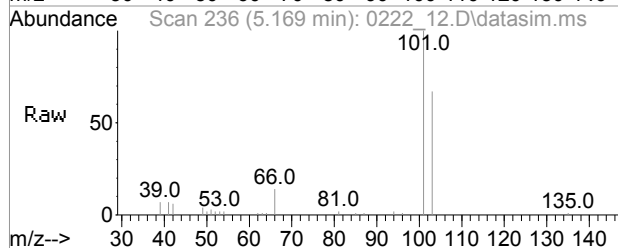
#80
Dichlorodifluoromethane(sim)
Concen: 0.50 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

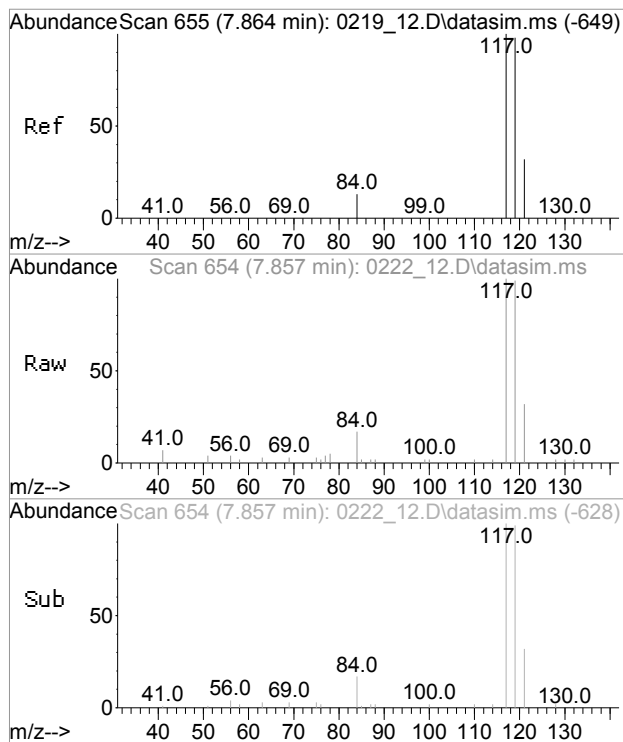
Tgt Ion: 85 Resp: 40947
Ion Ratio Lower Upper
85 100
87 32.4 12.7 52.7
50 13.1 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.24 ppbv
RT: 5.169 min Scan# 236
Delta R.T. -0.007 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

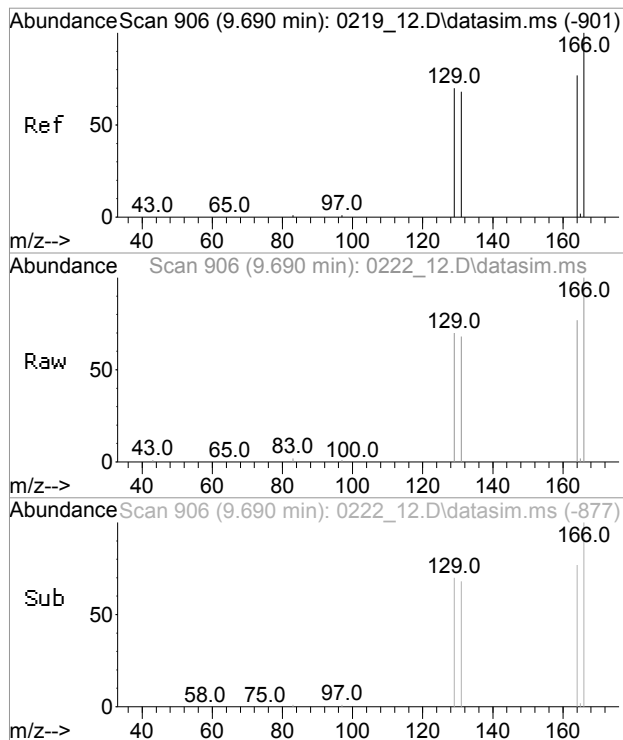
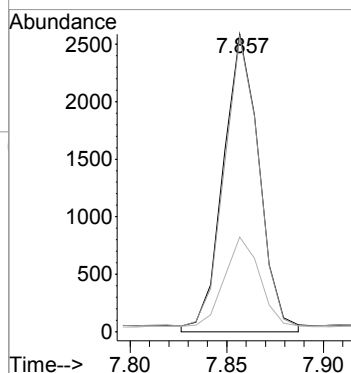
Tgt Ion:101 Resp: 17951
Ion Ratio Lower Upper
101 100
103 65.1 52.0 78.0





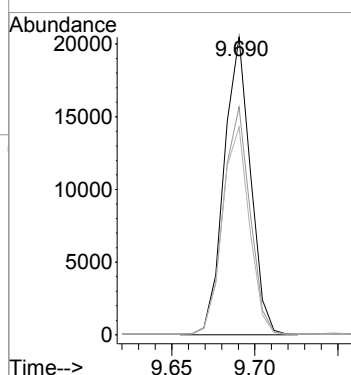
#87
Carbon Tetrachloride(sim)
Concen: 0.08 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

Tgt Ion:117 Resp: 2515
Ion Ratio Lower Upper
117 100
119 91.5 76.7 115.1
121 23.3 24.6 37.0#



#105
Tetrachloroethene(sim)
Concen: 0.84 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_12.D
Acq: 22 Feb 2016 06:09 pm

Tgt Ion:166 Resp: 17171
Ion Ratio Lower Upper
166 100
164 75.6 57.8 97.8
129 69.7 50.7 90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67665</u>
Canister:	<u>12862</u>	Lab File ID:	<u>0222_36.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
		Date Received:	<u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.568		0.202	0.202	r
74-87-3	Chloromethane	0.576		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.59	S	0.531	0.531	r
67-64-1	Acetone	2.79	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.261		0.178	0.178	r
67-63-0	Isopropylalcohol	0.467	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.455		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.092		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67665</u>
Canister:	<u>12862</u>	Lab File ID:	<u>0222_36.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.099		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_36.D
 Acq On : 23 Feb 2016 10:43 am
 Operator : CORTEX\ms
 Client ID : IA-7
 Lab ID : BK67665
 ALS Vial : 1 Sample Multiplier: 1

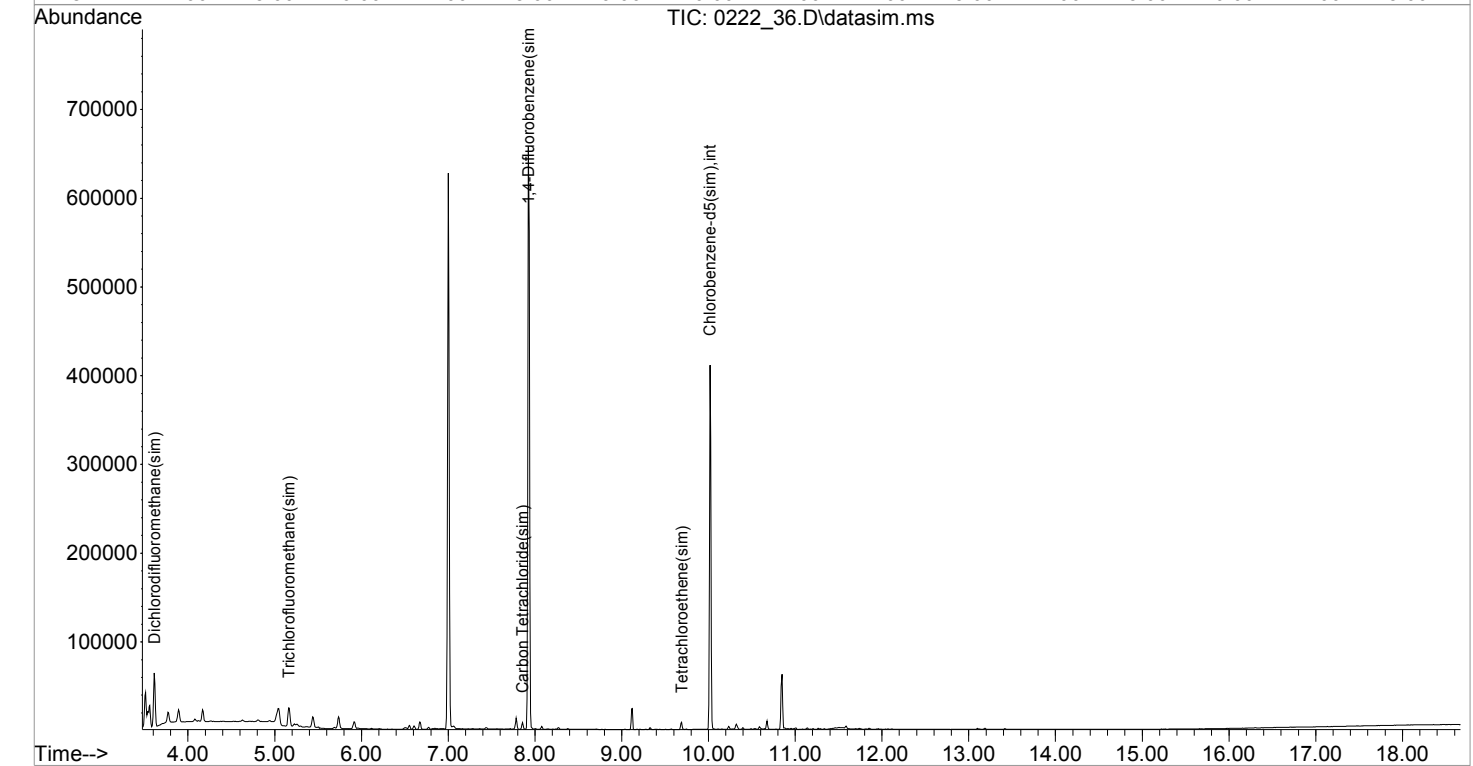
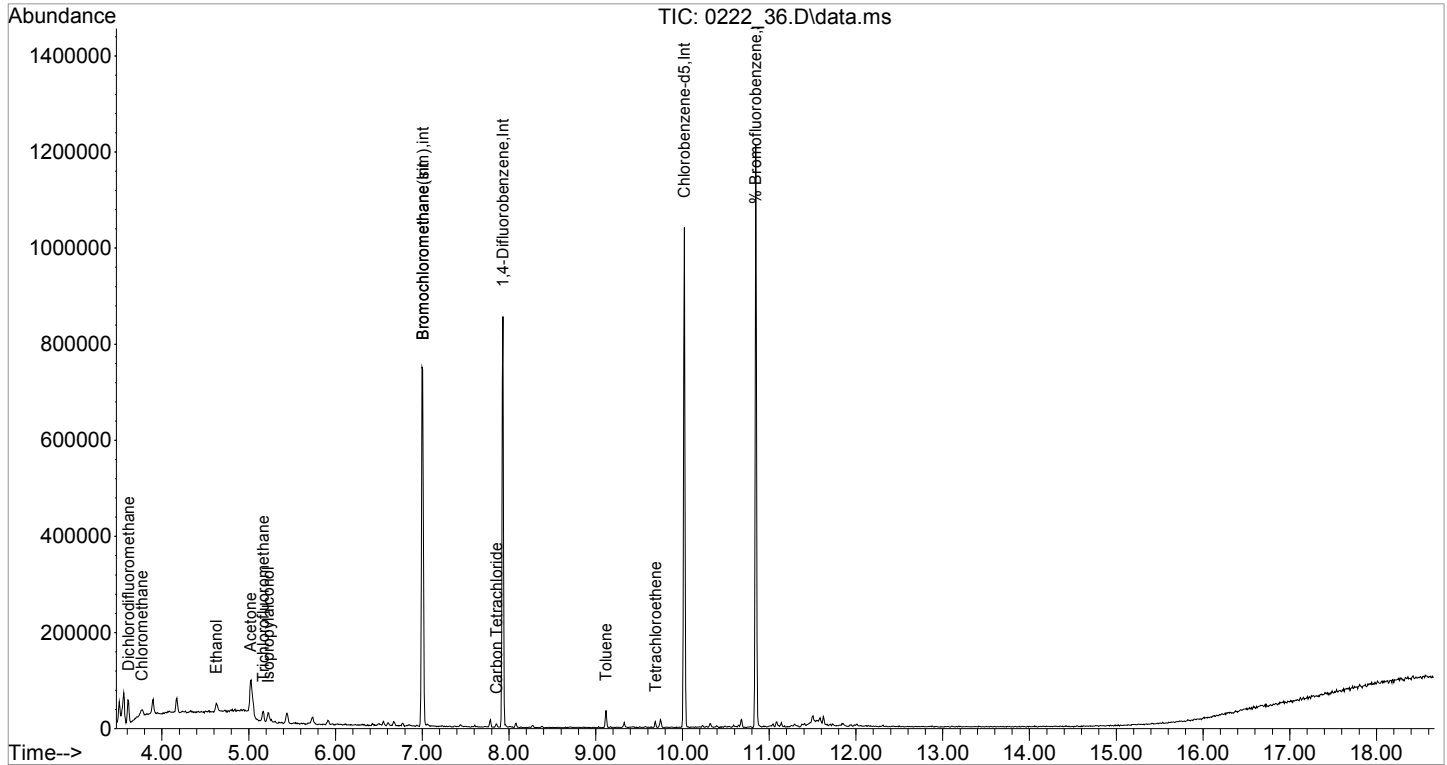
Quant Time: Feb 23 14:12:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

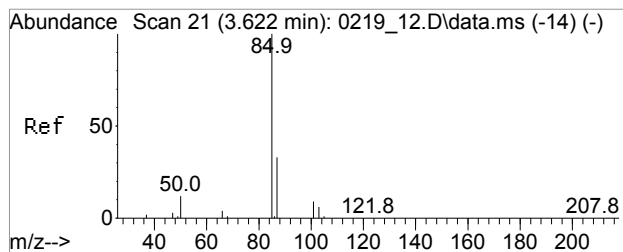
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	157654	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	415507	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	202560	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	157654	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	507731	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	218925	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	251329	9.396	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	94.00%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.616	85	38088	0.568	ppbv	97
4) Chloromethane	3.767	52	3134m	0.576	ppbv	
10) Ethanol	4.625	45	17944	3.592	ppbv	98
11) Acetone	5.022	43	78388	2.793	ppbv	91
12) Trichlorofluoromethane	5.166	101	15460	0.261	ppbv#	97
13) Isopropylalcohol	5.224	45	23972	0.467	ppbv#	91
33) Carbon Tetrachloride	7.854	117	2978	0.094	ppbv	97
47) Toluene	9.118	91	14229	0.455	ppbv	96
51) Tetrachloroethene	9.688	166	2288	0.109	ppbv	92
80] Dichlorodifluoromethan...	3.611	85	48300	0.580	ppbv	99
84] Trichlorofluoromethane...	5.162	101	20176	0.267	ppbv	99
87] Carbon Tetrachloride(sim)	7.854	117	2978	0.092	ppbv	97
105] Tetrachloroethene(sim)	9.688	166	2106	0.099	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_36.D
Acq On : 23 Feb 2016 10:43 am
Operator : CORTEX\ms
Client ID : IA-7
Lab ID : BK67665
ALS Vial : 1 Sample Multiplier: 1

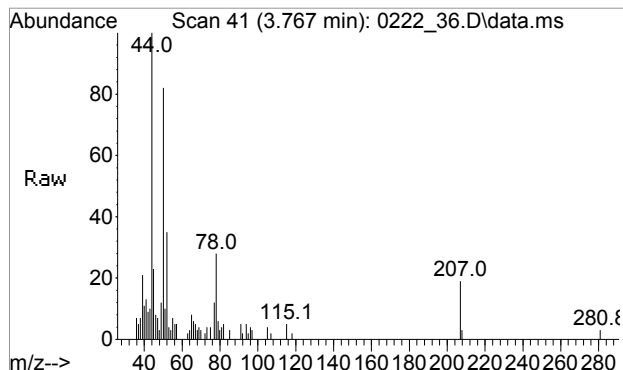
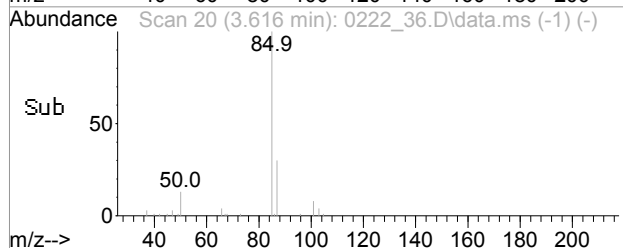
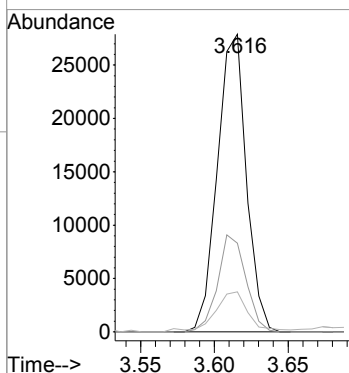
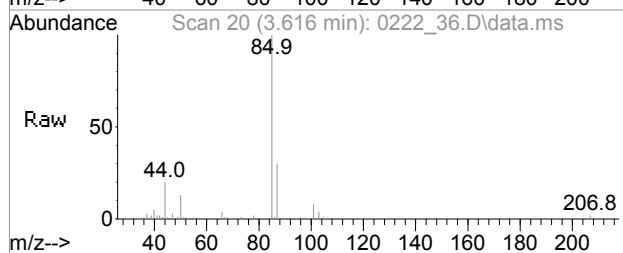
Quant Time: Feb 23 14:12:10 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





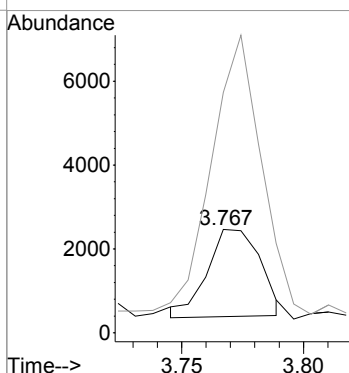
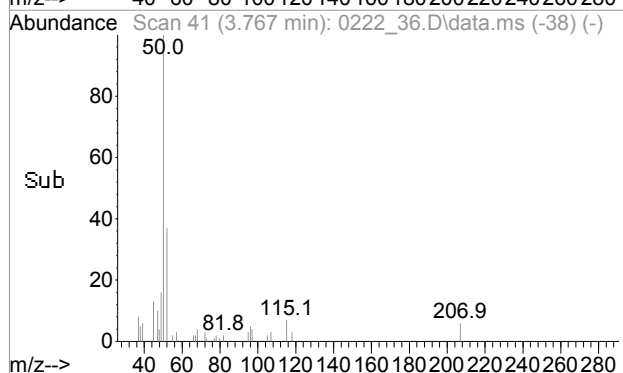
#3
Dichlorodifluoromethane
Concen: 0.57 ppbv
RT: 3.616 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

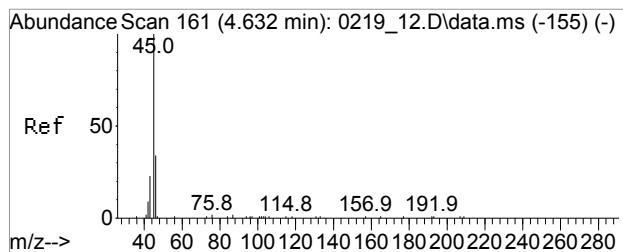
Tgt Ion: 85 Resp: 38088
Ion Ratio Lower Upper
85 100
87 31.7 26.1 39.1
50 15.7 10.5 15.7



#4
Chloromethane
Concen: 0.58 ppbv m
RT: 3.767 min Scan# 41
Delta R.T. -0.021 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

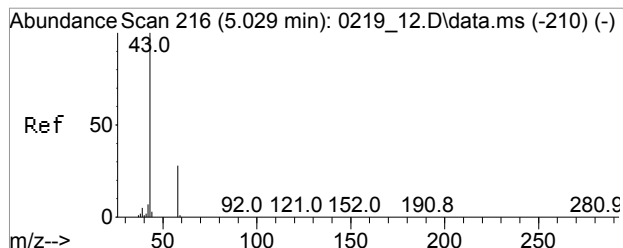
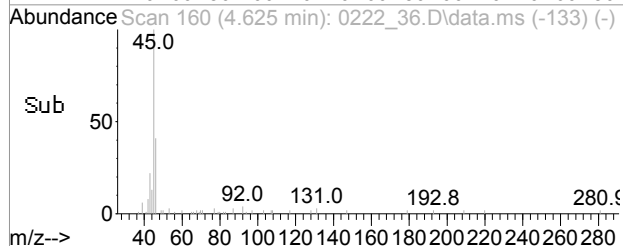
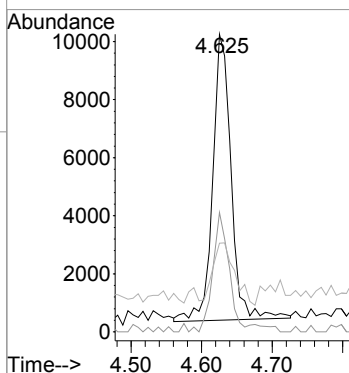
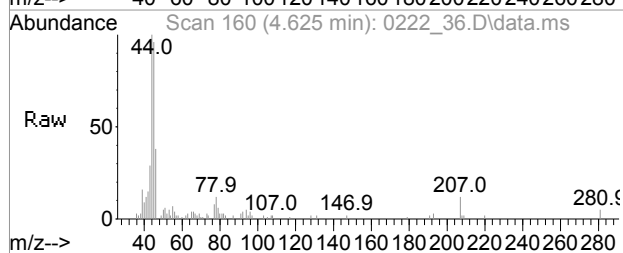
Tgt Ion: 52 Resp: 3134
Ion Ratio Lower Upper
52 100
50 320.4 284.4 324.4





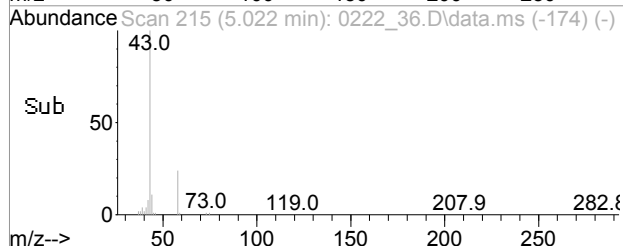
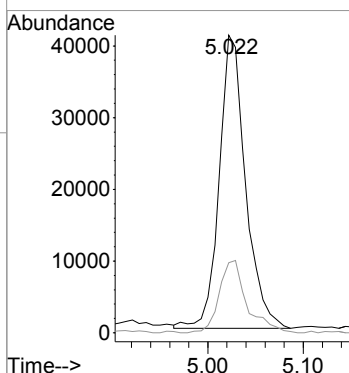
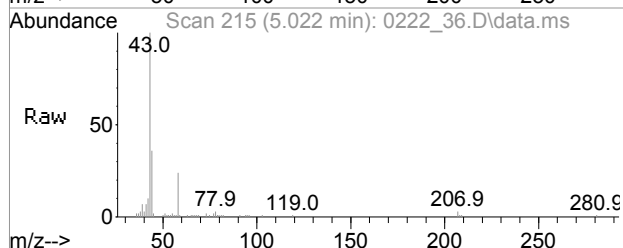
#10
Ethanol
Concen: 3.59 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

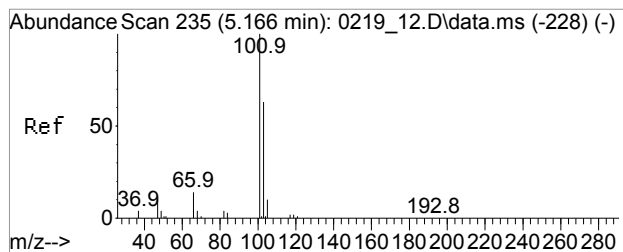
Tgt Ion: 45 Resp: 17944
Ion Ratio Lower Upper
45 100
46 36.4 28.5 42.7
43 26.0 19.7 29.5



#11
Acetone
Concen: 2.79 ppbv
RT: 5.022 min Scan# 215
Delta R.T. -0.007 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

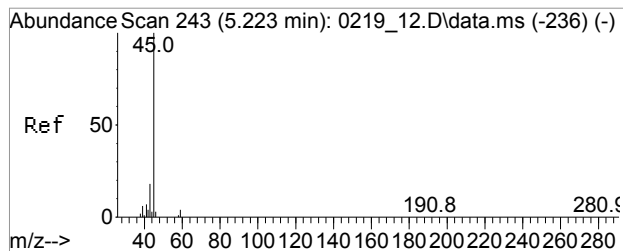
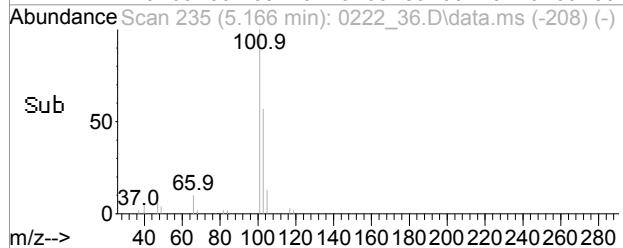
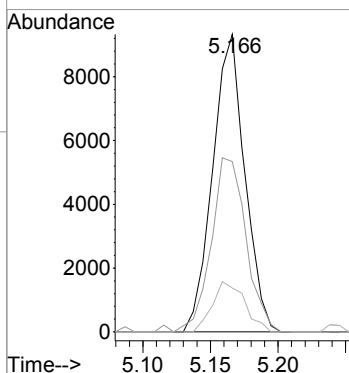
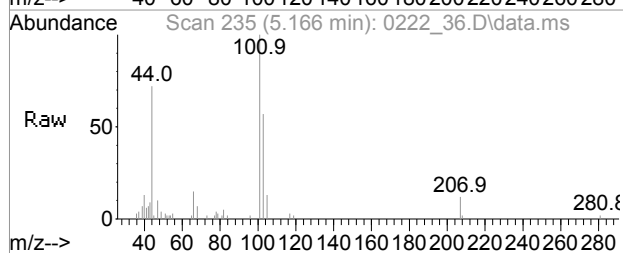
Tgt Ion: 43 Resp: 78388
Ion Ratio Lower Upper
43 100
58 25.9 24.8 37.2





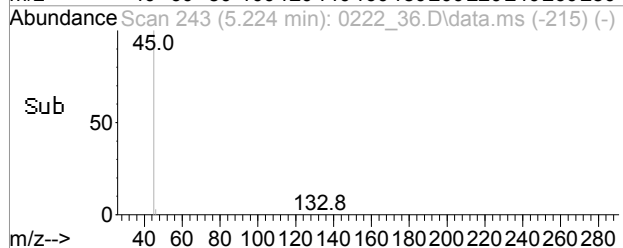
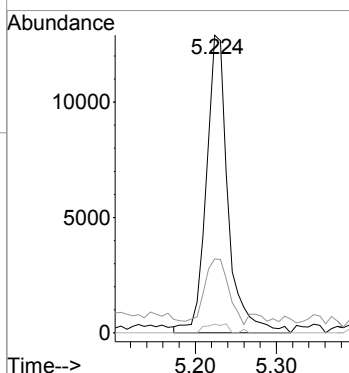
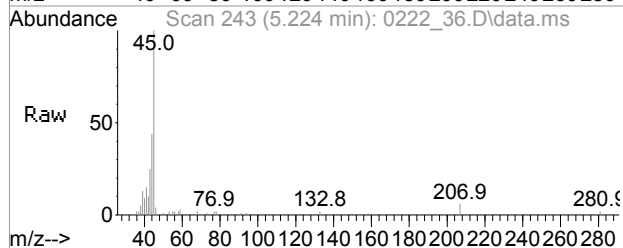
#12
Trichlorofluoromethane
Concen: 0.26 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

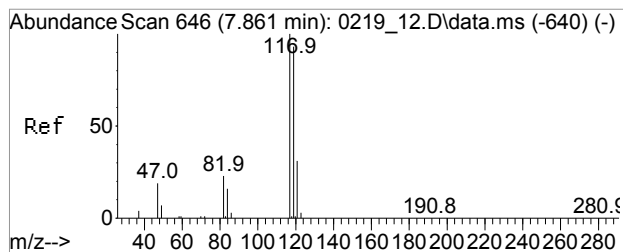
Tgt Ion: 101 Resp: 15460
Ion Ratio Lower Upper
101 100
103 63.6 51.8 77.8
66 17.0 11.1 16.7#



#13
Isopropylalcohol
Concen: 0.47 ppbv
RT: 5.224 min Scan# 243
Delta R.T. 0.001 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

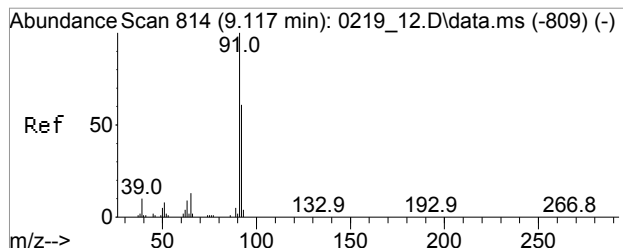
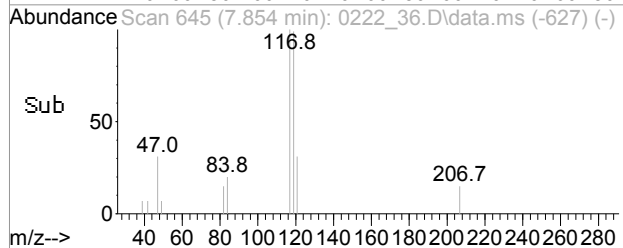
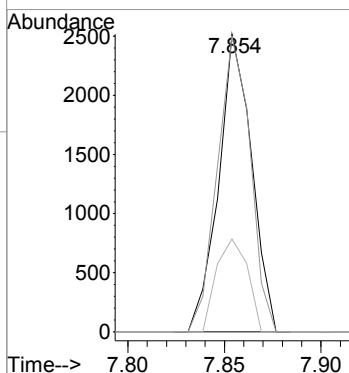
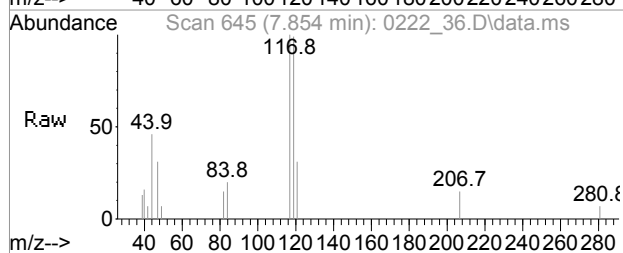
Tgt Ion: 45 Resp: 23972
Ion Ratio Lower Upper
45 100
43 24.1 15.4 23.0#
59 3.0 3.0 4.4





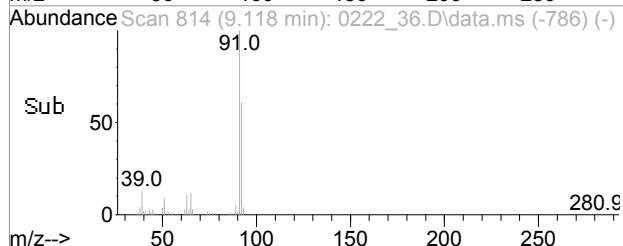
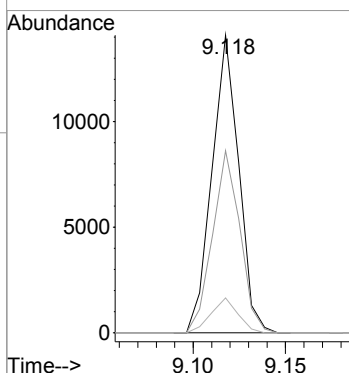
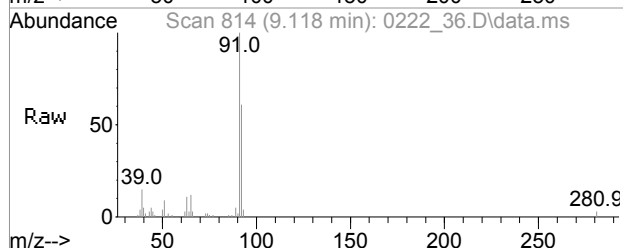
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

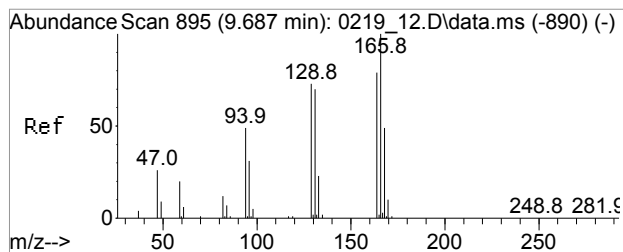
Tgt Ion: 117 Resp: 2978
Ion Ratio Lower Upper
117 100
119 99.3 75.9 115.9
121 29.6 10.8 50.8



#47
Toluene
Concen: 0.46 ppbv
RT: 9.118 min Scan# 814
Delta R.T. 0.001 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

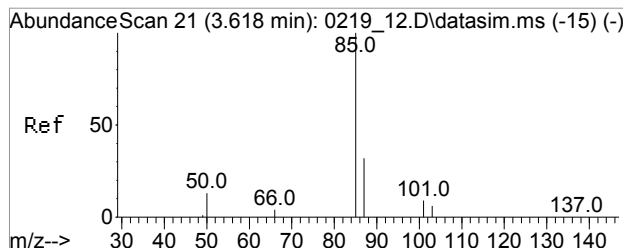
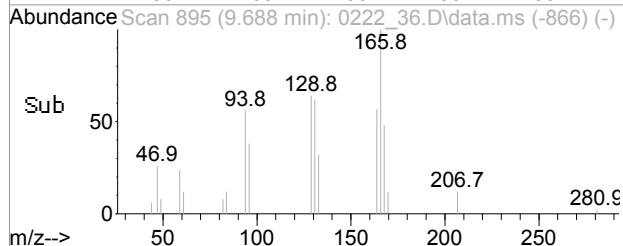
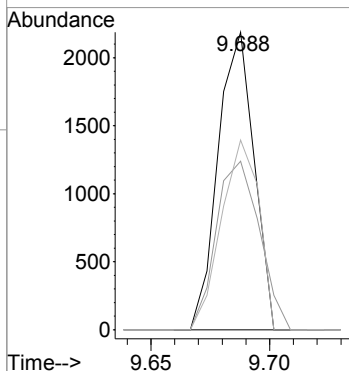
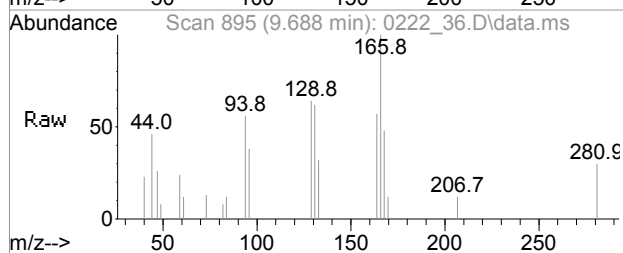
Tgt Ion: 91 Resp: 14229
Ion Ratio Lower Upper
91 100
92 63.0 47.7 71.5
65 11.8 9.5 14.3





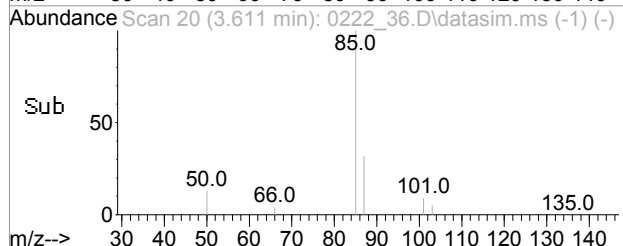
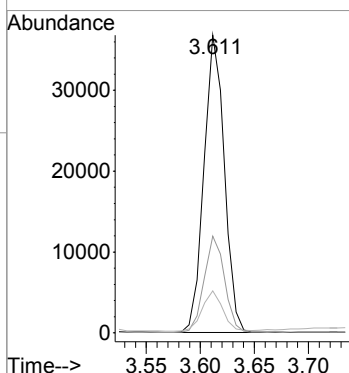
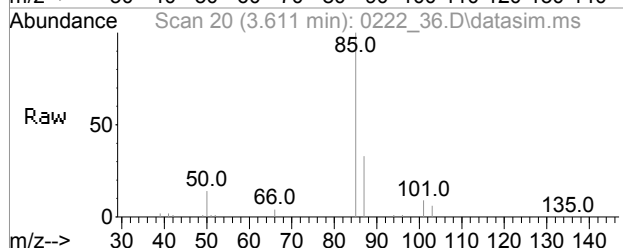
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Tetrachloroethene
Concen: Below Cal
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

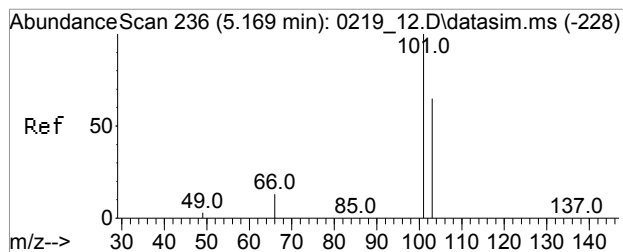
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Ion Ratio Lower Upper
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164 68.6 62.2 93.4
129 67.0 56.6 84.8



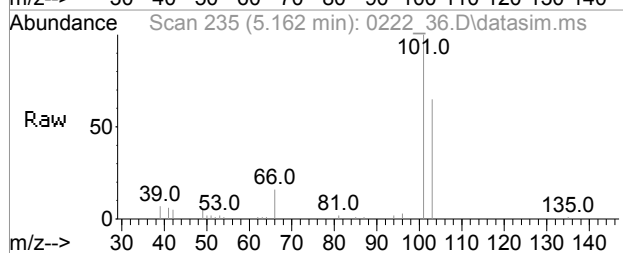
#80
Dichlorodifluoromethane(sim)
Concen: 0.58 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

Tgt Ion: 85 Resp: 48300
Ion Ratio Lower Upper
85 100
87 32.3 12.7 52.7
50 13.5 0.0 32.3

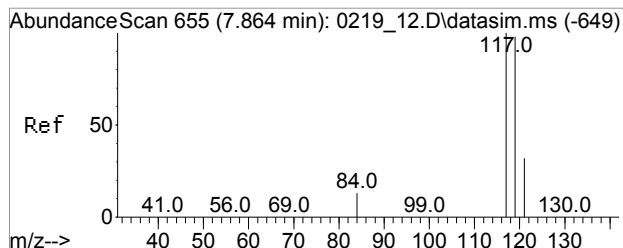
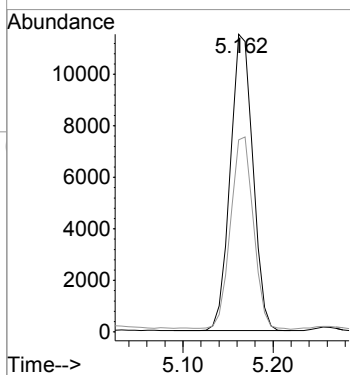
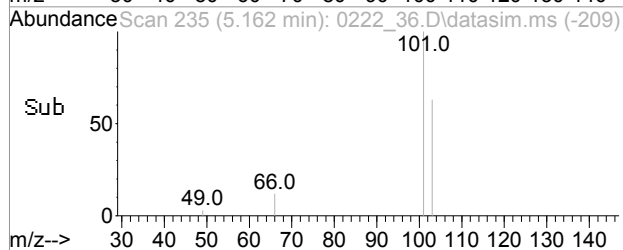




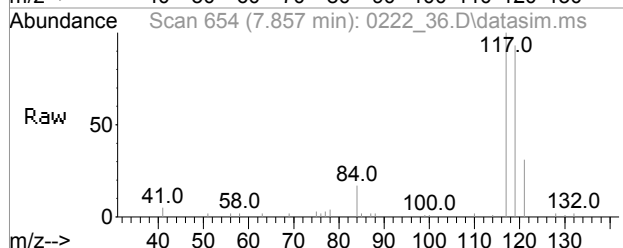
#84
Trichlorofluoromethane(sim)
Concen: 0.27 ppbv
RT: 5.162 min Scan# 235
Delta R.T. -0.014 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am



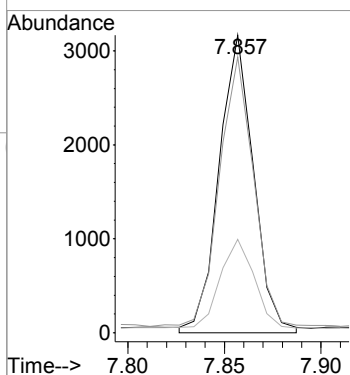
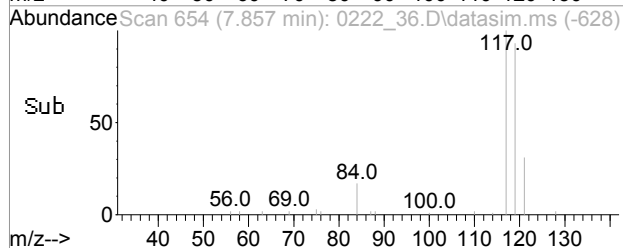
Tgt Ion:101 Resp: 20176
Ion Ratio Lower Upper
101 100
103 65.5 52.0 78.0

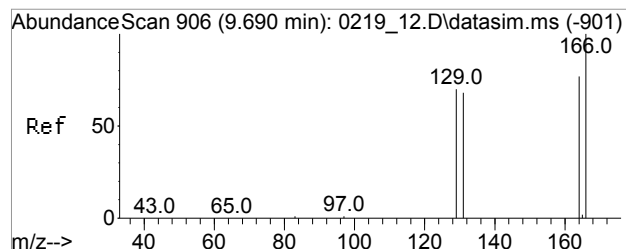


#87
Carbon Tetrachloride(sim)
Concen: 0.09 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am

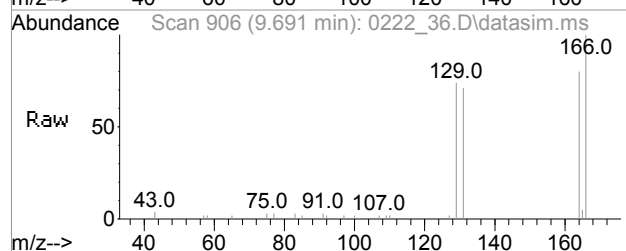


Tgt Ion:117 Resp: 2978
Ion Ratio Lower Upper
117 100
119 99.3 76.7 115.1
121 29.6 24.6 37.0

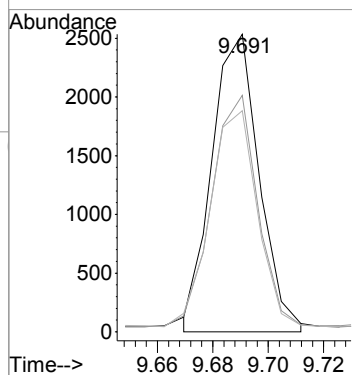
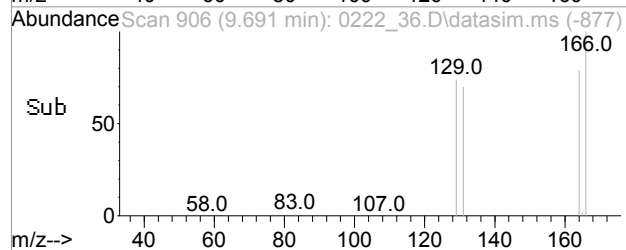




#105
Tetrachloroethene(sim)
Concen: 0.10 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_36.D
Acq: 23 Feb 2016 10:43 am



Tgt Ion:166 Resp: 2106
Ion Ratio Lower Upper
166 100
164 74.5 57.8 97.8
129 72.8 50.7 90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666</u>
Canister:	<u>492</u>	Lab File ID:	<u>0222_14.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.500		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	7.31	S	0.531	0.531	r
67-64-1	Acetone	9.32	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.387		0.178	0.178	r
67-63-0	Isopropylalcohol	0.522	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.358		0.339	0.339	r
110-54-3	Hexane	1.92	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.927		0.313	0.313	r
110-82-7	Cyclohexane	1.15		0.291	0.291	r
142-82-5	Heptane	1.40		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	4.87		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
100-41-4	Ethylbenzene	1.08		0.230	0.230	r
179601-23-1	m,p-Xylene	3.54		0.230	0.230	r
95-47-6	o-Xylene	1.69		0.230	0.230	r
622-96-8	4-Ethyltoluene	0.530		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.854		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.92		0.204	0.204	r
135-98-8	sec-Butylbenzene	2.20		0.182	0.182	r
99-87-6	4-Isopropyltoluene	0.239		0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666</u>
Canister:	<u>492</u>	Lab File ID:	<u>0222_14.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
56-23-5	Carbon Tetrachloride(sim)	0.068		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.058		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_14.D
 Acq On : 22 Feb 2016 08:22 pm
 Operator : CORTEX\ms
 Client ID : AA-3
 Lab ID : BK67666
 ALS Vial : 1 Sample Multiplier: 1

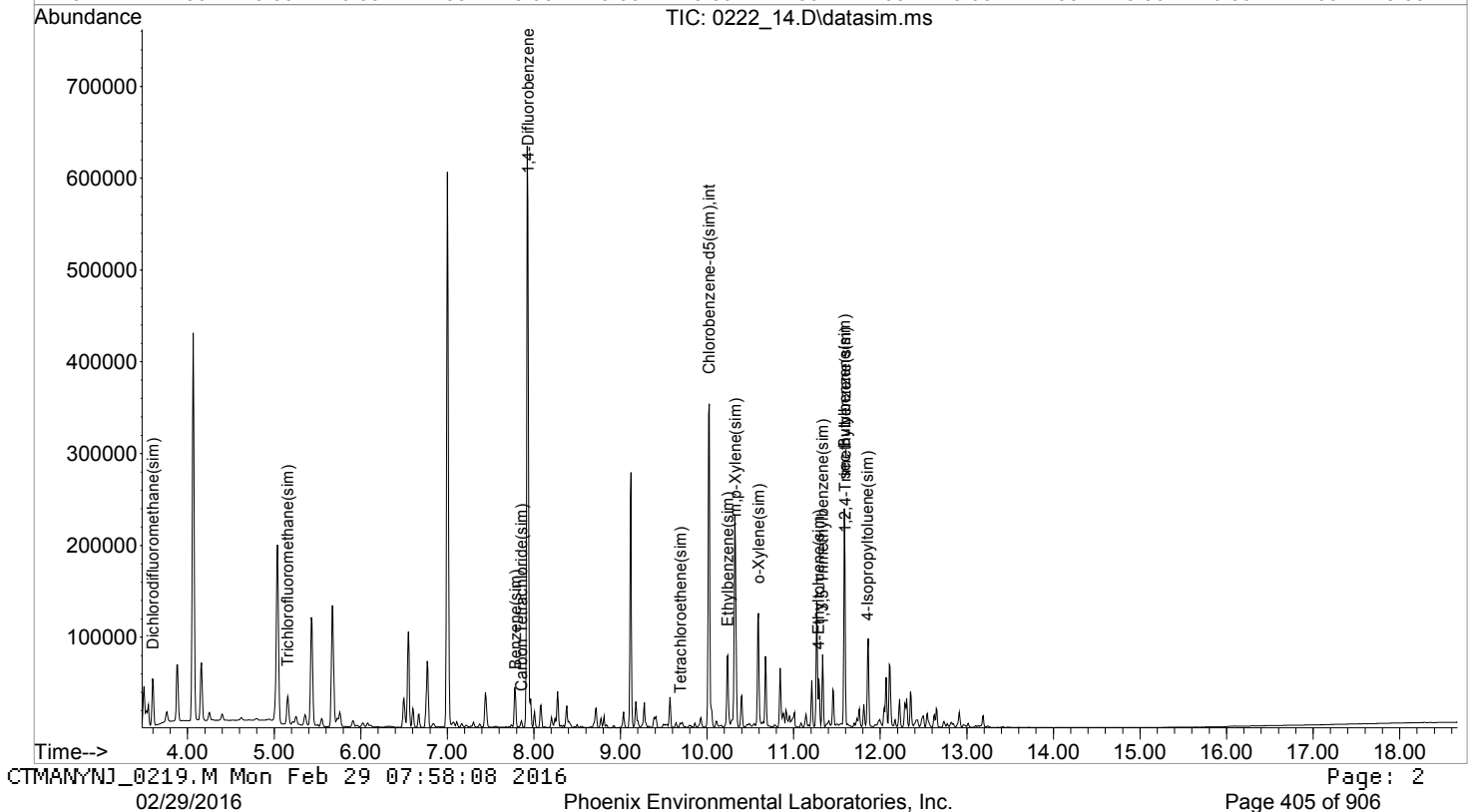
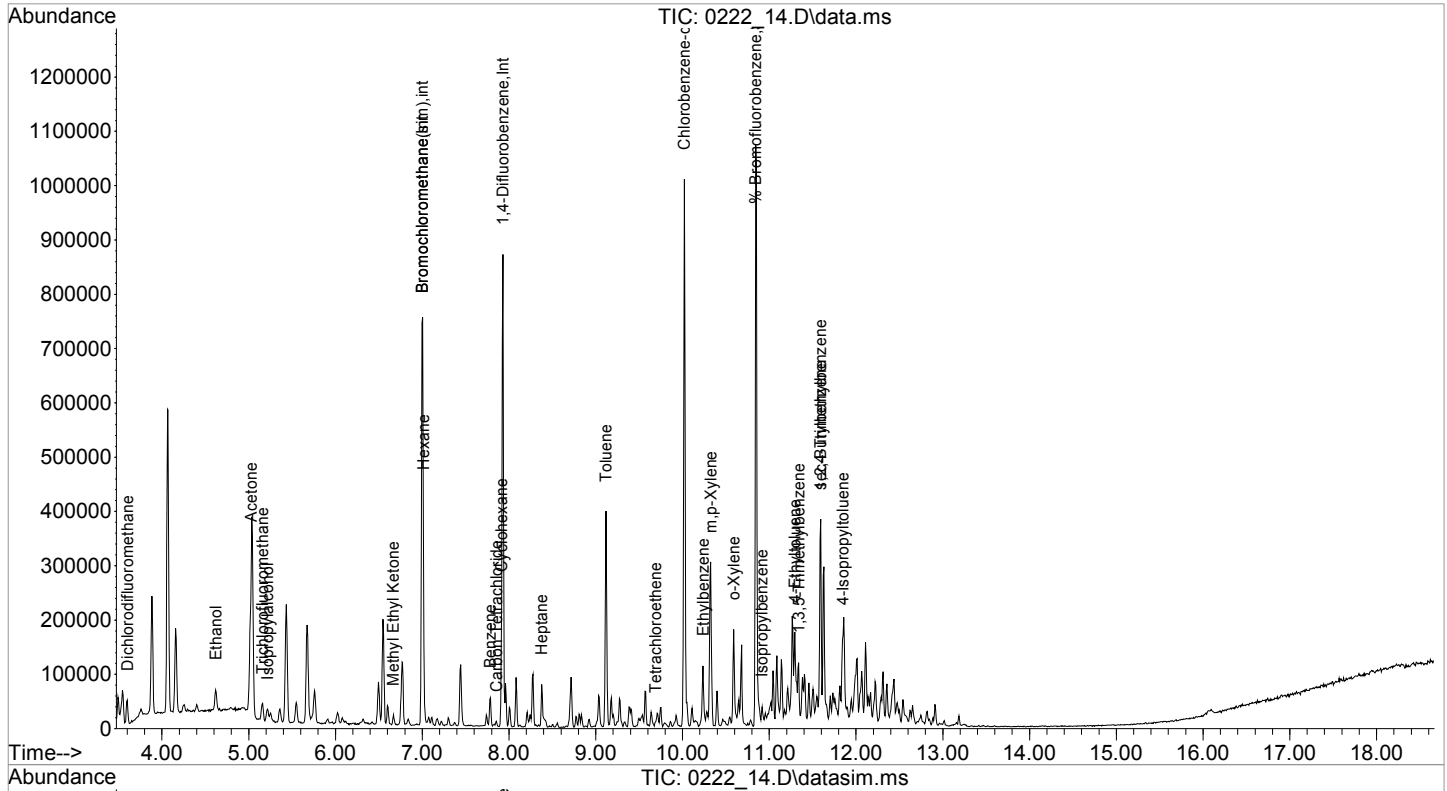
Quant Time: Feb 23 08:12:46 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

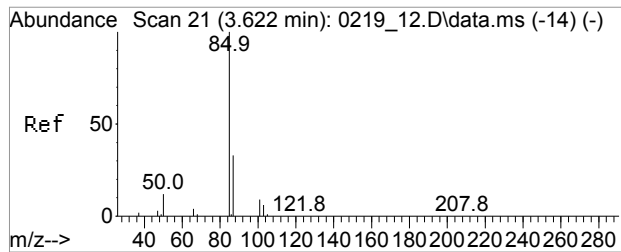
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.998	130	156018	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	416273	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	195073	10.000	ng	0.00
79) Bromochloromethane(sim)	6.998	130	156018	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	496308	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	209099	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	253825	9.854	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.50%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.601	85	33184	0.500	ppbv	98
10) Ethanol	4.618	45	36155	7.312	ppbv	98
11) Acetone	5.029	43	258767	9.317	ppbv#	78
12) Trichlorofluoromethane	5.159	101	22685	0.386	ppbv	99
13) Isopropylalcohol	5.216	45	26495	0.522	ppbv#	92
24) Methyl Ethyl Ketone	6.668	43	13608	0.358	ppbv#	92
26) Hexane	7.013	57	38297	1.919	ppbv	85
32) Benzene	7.785	78	30840	0.927	ppbv	99
33) Carbon Tetrachloride	7.853	117	2161	0.069	ppbv	90
34) Cyclohexane	7.914	41	9952	1.149	ppbv#	45
42) Heptane	8.376	43	18966	1.403	ppbv	97
47) Toluene	9.117	91	152355	4.866	ppbv	98
51) Tetrachloroethene	9.687	166	1212	0.058	ppbv	86
55) Ethylbenzene	10.236	91	51407	1.077	ppbv	98
56) m,p-Xylene	10.324	91	126678	3.542	ppbv	98
60) o-Xylene	10.591	91	65309	1.691	ppbv	98
63) Isopropylbenzene	10.917	105	10042	0.204	ppbv#	90
65) 4-Ethyltoluene	11.295	105	28254m	0.530	ppbv	
66) 1,3,5-Trimethylbenzene	11.339	105	37838	0.853	ppbv	99
67) 1,2,4-Trimethylbenzene	11.591	105	119269	2.924	ppbv#	85
72) sec-Butylbenzene	11.591	105	119269	2.199	ppbv#	75
73) 4-Isopropyltoluene	11.851	119	12842	0.239	ppbv#	62
80] Dichlorodifluoromethan...	3.597	85	41691	0.506	ppbv	99
84] Trichlorofluoromethane...	5.154	101	29411	0.393	ppbv	99
87] Carbon Tetrachloride(sim)	7.853	117	2161	0.068	ppbv	90
95] Benzene(sim)	7.785	78	30840	0.837	ppbv	99
105] Tetrachloroethene(sim)	9.687	166	1212	0.058	ppbv	86
110] Ethylbenzene(sim)	10.238	91	56065	0.998	ppbv	99
111] m,p-Xylene(sim)	10.324	91	126678	3.098	ppbv	98
114] o-Xylene(sim)	10.594	91	72432	1.582	ppbv	98
117] 4-Ethyltoluene(sim)	11.290	105	27437m	0.466	ppbv	
118] 1,3,5-Trimethylbenzene...	11.335	105	40890	0.800	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.591	105	119269	2.673	ppbv#	85
124] sec-Butylbenzene(sim)	11.587	105	128167	1.929	ppbv	80
125] 4-Isopropyltoluene(sim)	11.851	119	12842	0.206	ppbv#	62

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_14.D
Acq On : 22 Feb 2016 08:22 pm
Operator : CORTEX\ms
Client ID : AA-3
Lab ID : BK67666
ALS Vial : 1 Sample Multiplier: 1

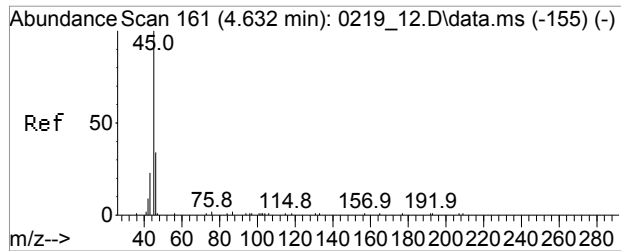
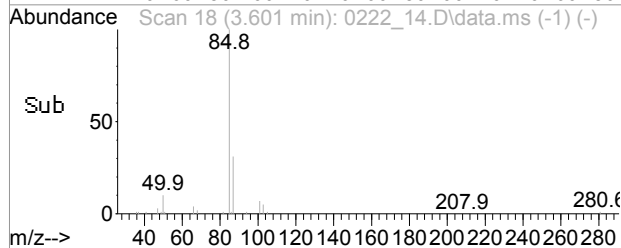
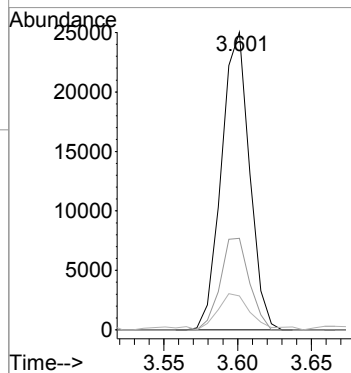
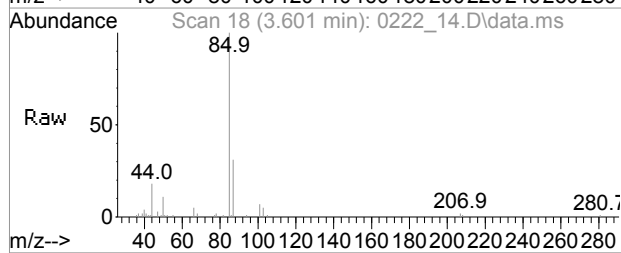
Quant Time: Feb 23 08:12:46 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





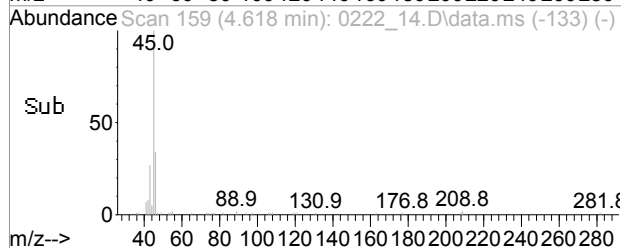
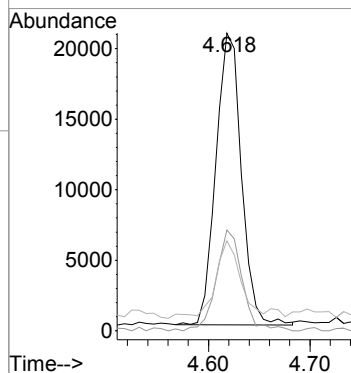
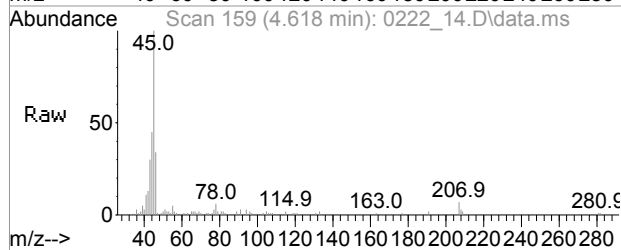
#3
Dichlorodifluoromethane
Concen: 0.50 ppbv
RT: 3.601 min Scan# 18
Delta R.T. -0.029 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

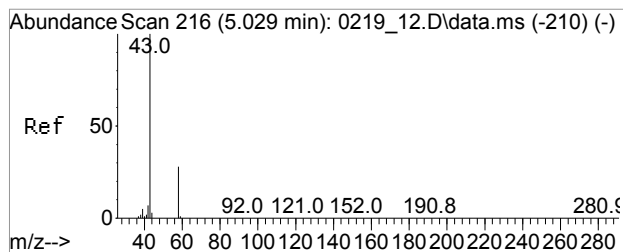
Tgt Ion: 85 Resp: 33184
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1
50 14.2 10.5 15.7



#10
Ethanol
Concen: 7.31 ppbv
RT: 4.618 min Scan# 159
Delta R.T. -0.014 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

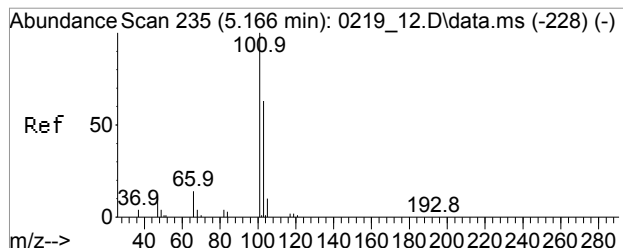
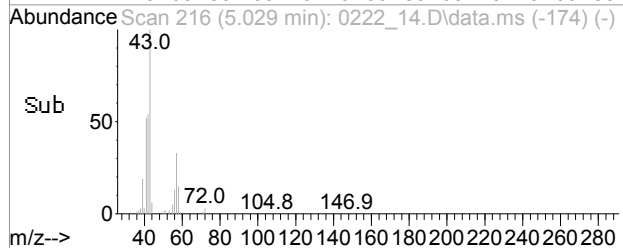
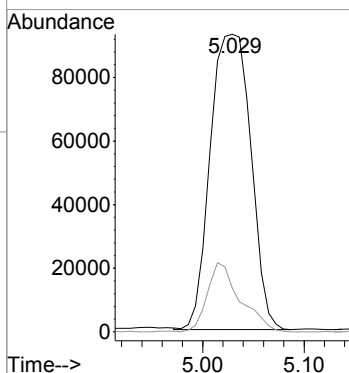
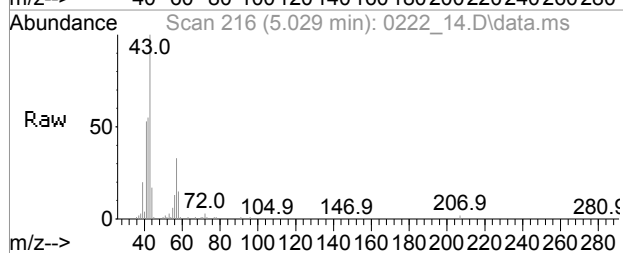
Tgt Ion: 45 Resp: 36155
Ion Ratio Lower Upper
45 100
46 35.3 28.5 42.7
43 26.3 19.7 29.5





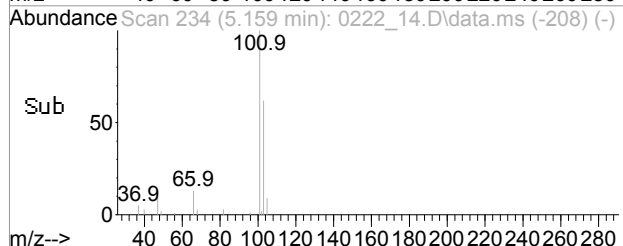
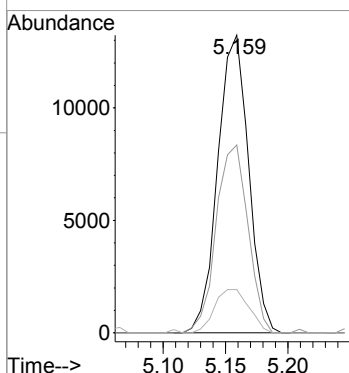
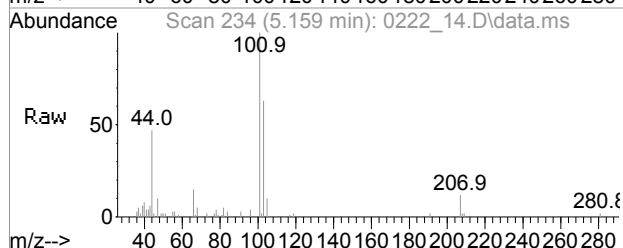
#11
Acetone
Concen: 9.32 ppbv
RT: 5.029 min Scan# 216
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

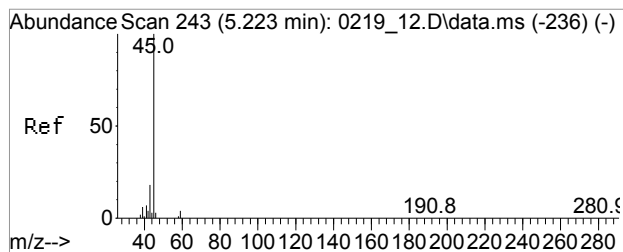
Tgt Ion: 43 Resp: 258767
Ion Ratio Lower Upper
43 100
58 19.0 24.8 37.2#



#12
Trichlorofluoromethane
Concen: 0.39 ppbv
RT: 5.159 min Scan# 234
Delta R.T. -0.014 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

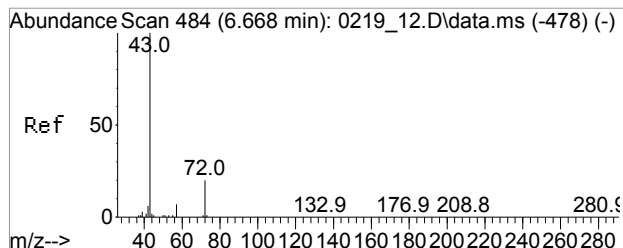
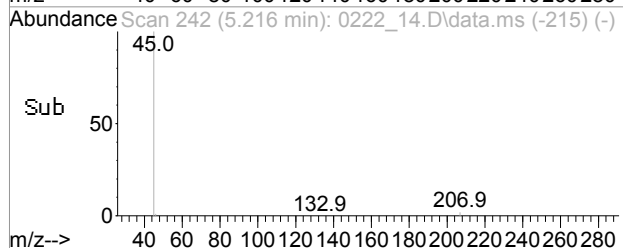
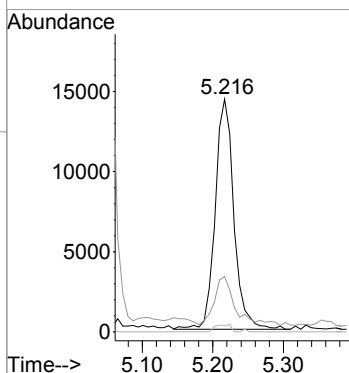
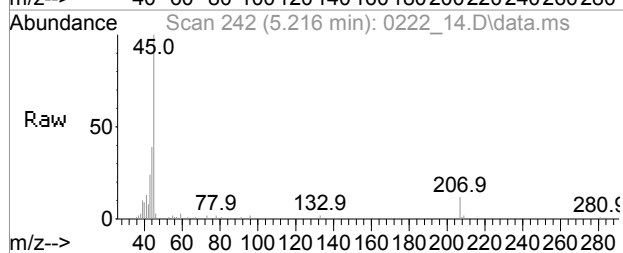
Tgt Ion: 101 Resp: 22685
Ion Ratio Lower Upper
101 100
103 65.0 51.8 77.8
66 16.3 11.1 16.7





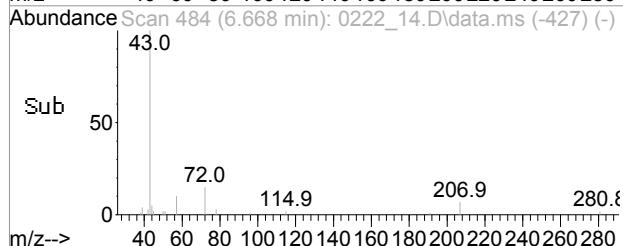
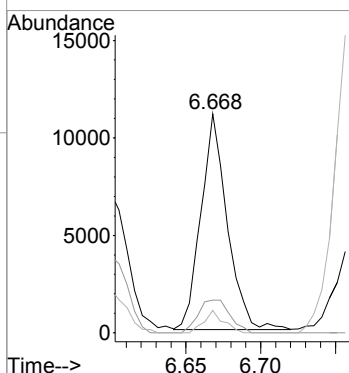
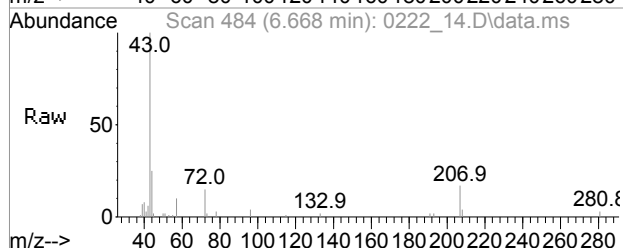
#13
Isopropylalcohol
Concen: 0.52 ppbv
RT: 5.216 min Scan# 242
Delta R.T. -0.007 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

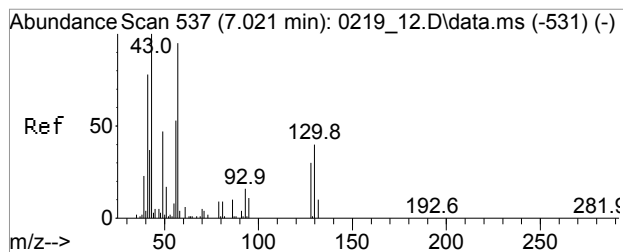
Tgt Ion: 45 Resp: 26495
Ion Ratio Lower Upper
45 100
43 23.3 15.4 23.0#
59 2.7 3.0 4.4#



#24
Methyl Ethyl Ketone
Concen: 0.36 ppbv
RT: 6.668 min Scan# 484
Delta R.T. -0.005 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

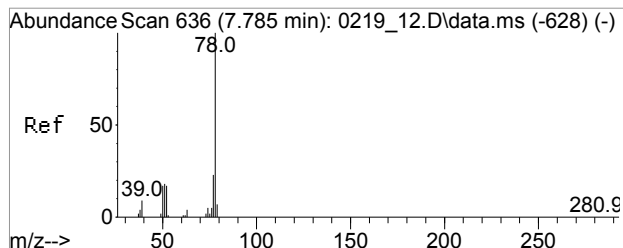
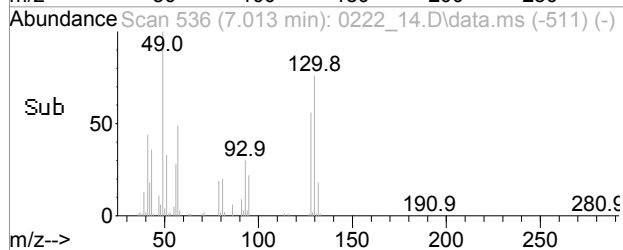
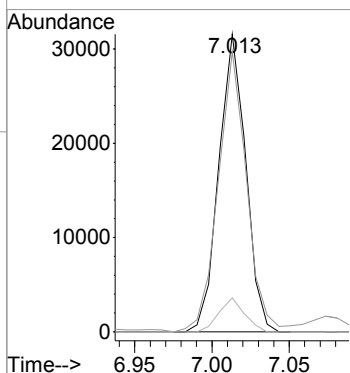
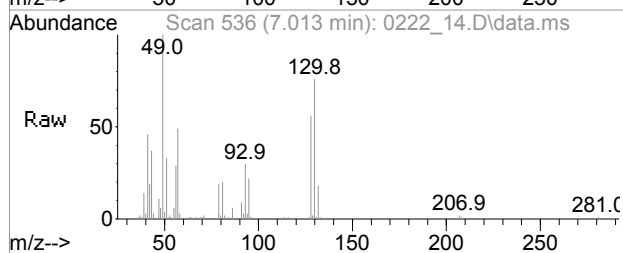
Tgt Ion: 43 Resp: 13608
Ion Ratio Lower Upper
43 100
72 18.2 15.9 23.9
57 0.0 5.6 8.4#





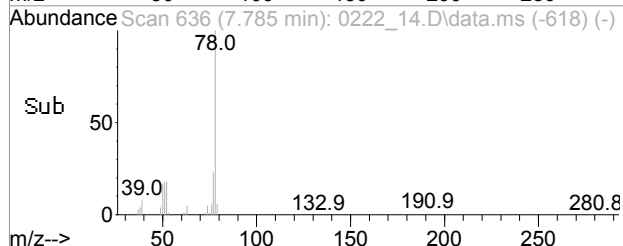
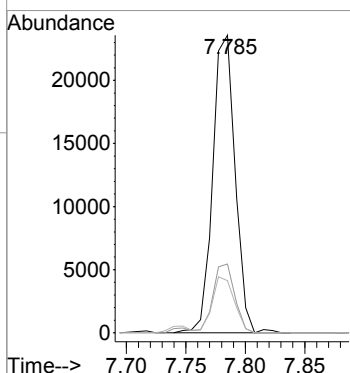
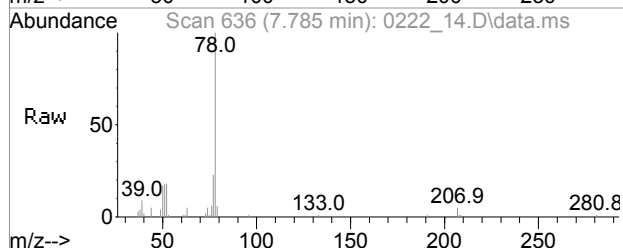
#26
Hexane
Concen: 1.92 ppbv
RT: 7.013 min Scan# 536
Delta R.T. -0.008 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

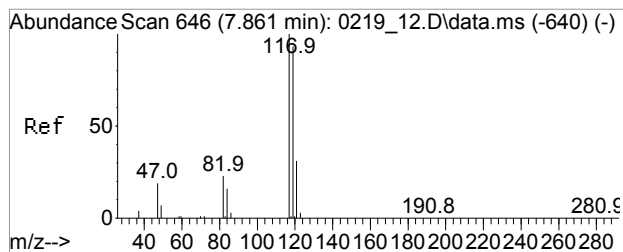
Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.6	67.4	101.2
86	10.8	9.3	13.9



#32
Benzene
Concen: 0.93 ppbv
RT: 7.785 min Scan# 636
Delta R.T. 0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

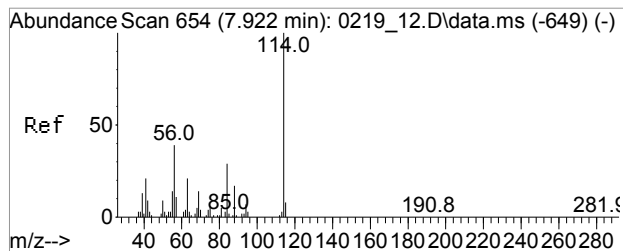
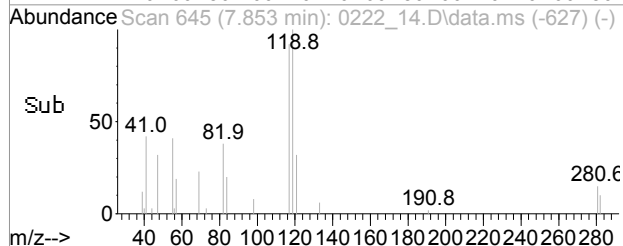
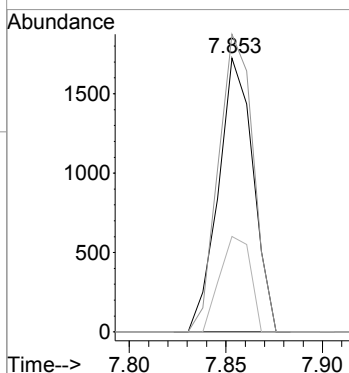
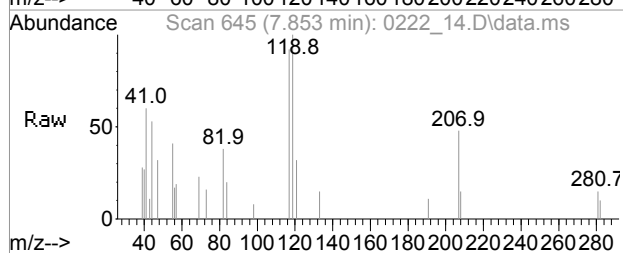
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.6	27.8
51	18.7	14.9	22.3





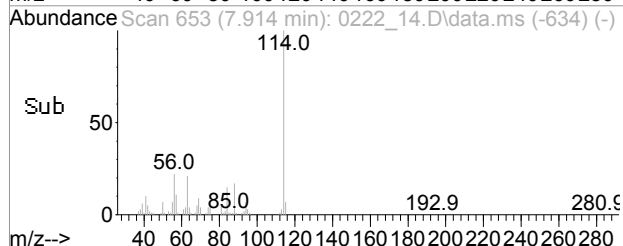
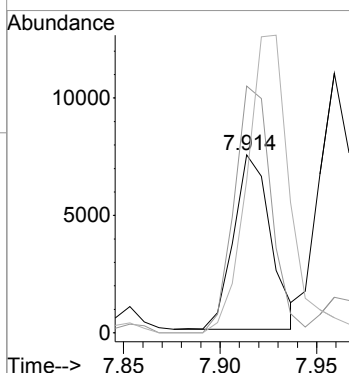
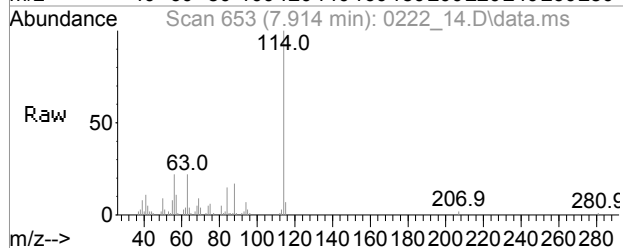
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.853 min Scan# 645
Delta R.T. -0.008 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

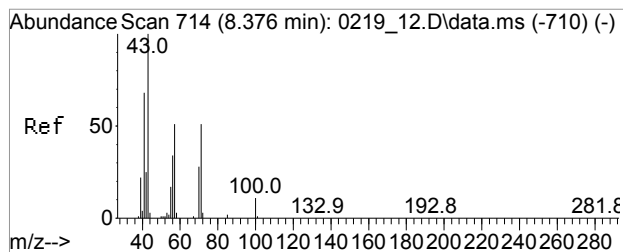
Tgt Ion	Ratio	Lower	Upper
117	100		
119	109.3	75.9	115.9
121	30.7	10.8	50.8



#34
Cyclohexane
Concen: 1.15 ppbv
RT: 7.914 min Scan# 653
Delta R.T. -0.008 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

Tgt Ion	Ratio	Lower	Upper
41	100		
84	141.0	111.0	166.6
69	198.5	52.8	79.2#

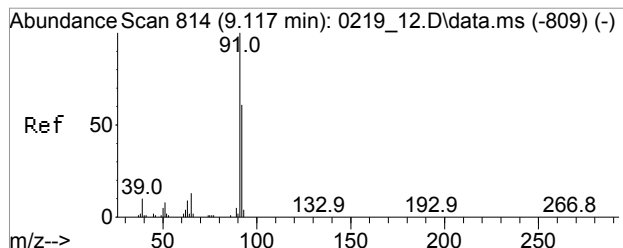
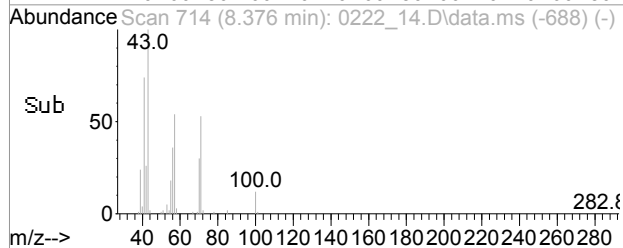
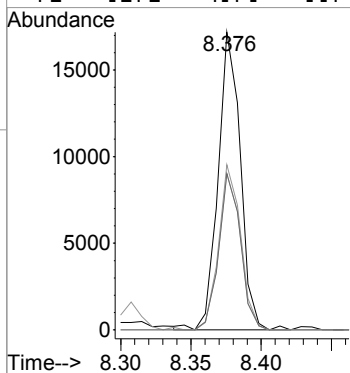
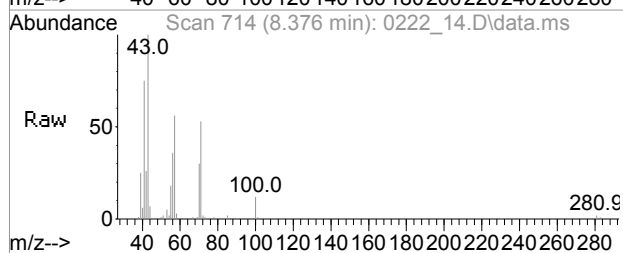




#42
Heptane
Concen: 1.40 ppbv
RT: 8.376 min Scan# 714
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

Tgt Ion: 43 Resp: 18966

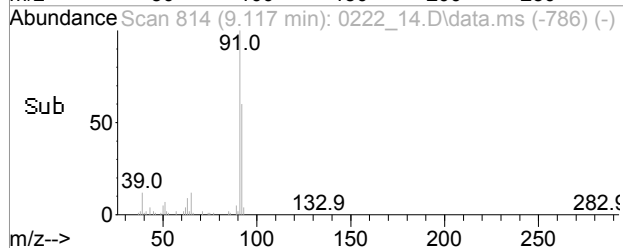
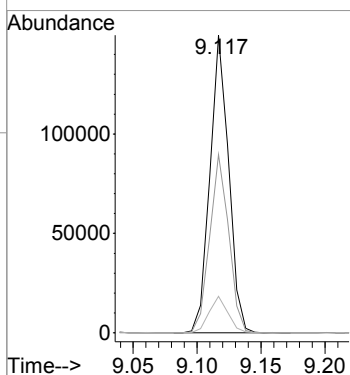
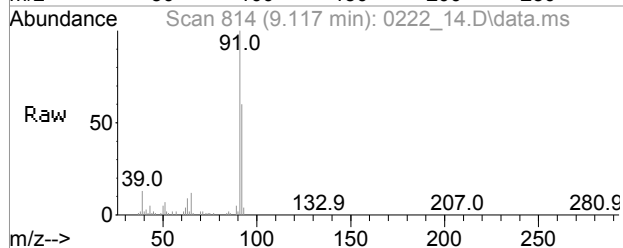
Ion	Ratio	Lower	Upper
43	100		
57	54.6	43.0	64.4
71	51.2	43.6	65.4
71	51.2	43.6	65.4

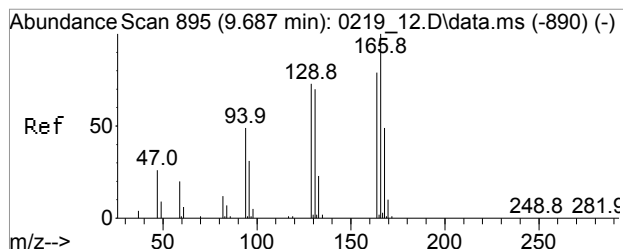


#47
Toluene
Concen: 4.87 ppbv
RT: 9.117 min Scan# 814
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

Tgt Ion: 91 Resp: 152355

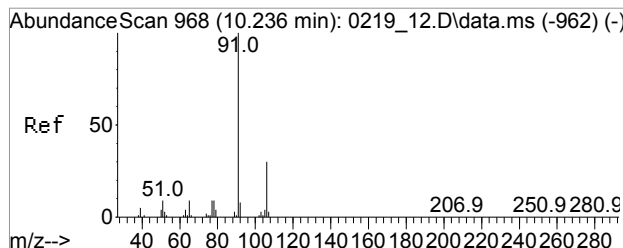
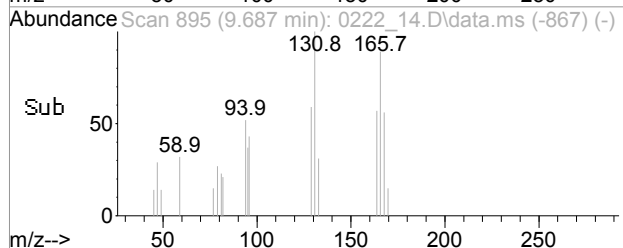
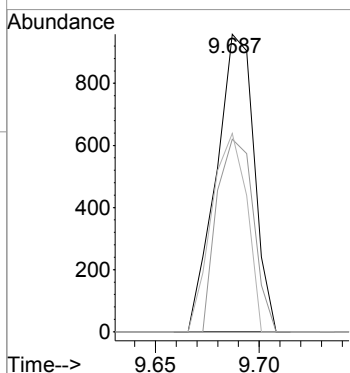
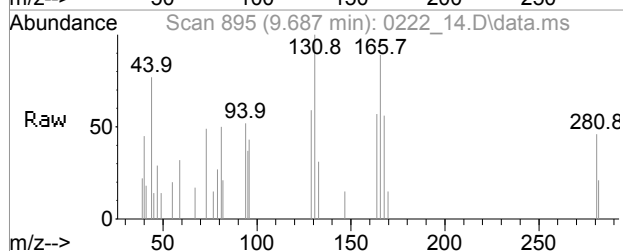
Ion	Ratio	Lower	Upper
91	100		
92	60.9	47.7	71.5
65	12.4	9.5	14.3





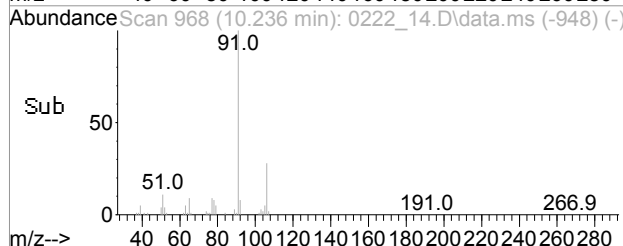
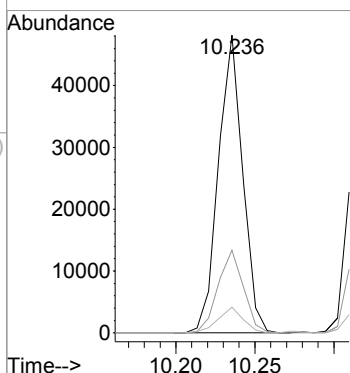
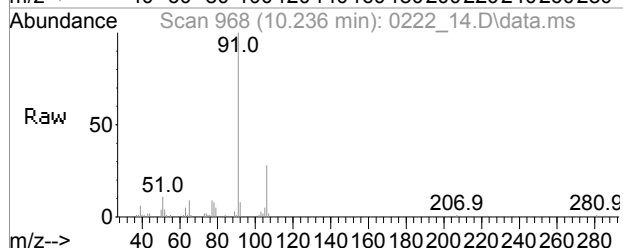
#51
Tetrachloroethene
Concen: Below Cal
RT: 9.687 min Scan# 895
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

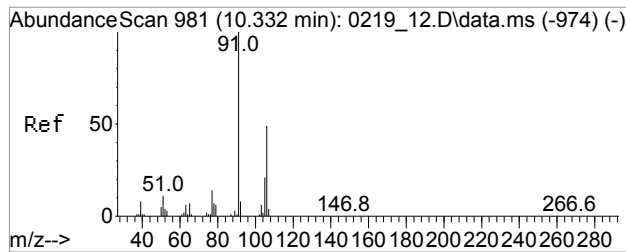
Tgt Ion	Ratio	Lower	Upper
166	100		
164	62.7	62.2	93.4
129	62.2	56.6	84.8



#55
Ethylbenzene
Concen: 1.08 ppbv
RT: 10.236 min Scan# 968
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

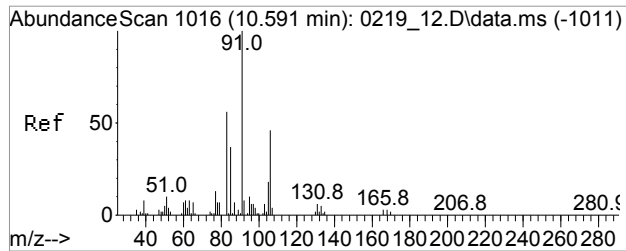
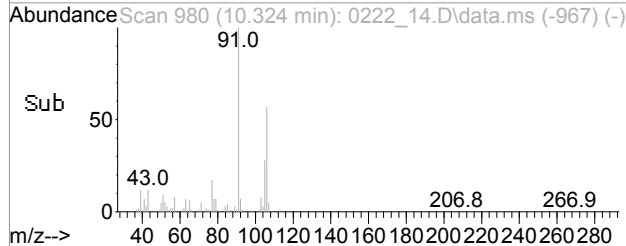
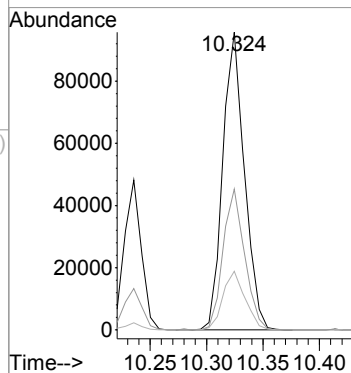
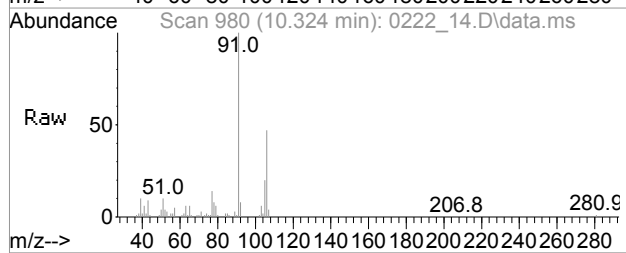
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.1	10.8	50.8
77	8.9	0.0	28.9





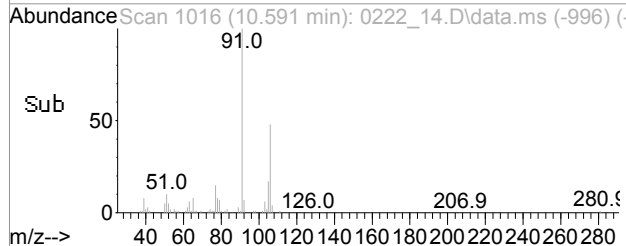
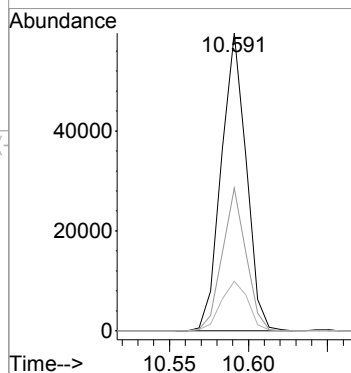
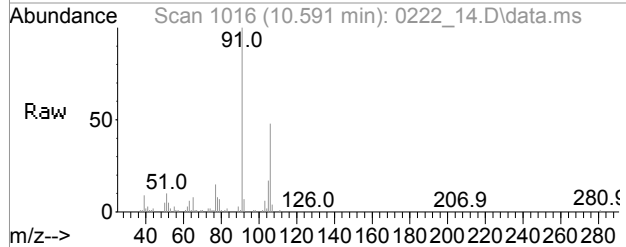
#56
m,p-Xylene
Concen: 3.54 ppbv
RT: 10.324 min Scan# 980
Delta R.T. -0.001 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

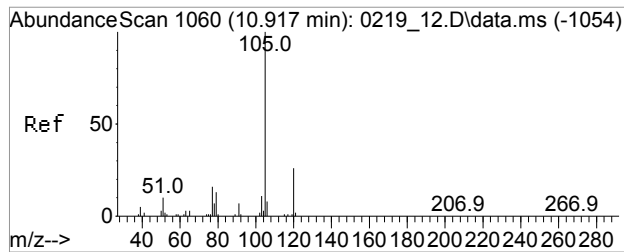
Tgt Ion: 91 Resp: 126678
Ion Ratio Lower Upper
91 100
106 47.1 38.7 58.1
105 20.2 16.6 25.0



#60
o-Xylene
Concen: 1.69 ppbv
RT: 10.591 min Scan# 1016
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

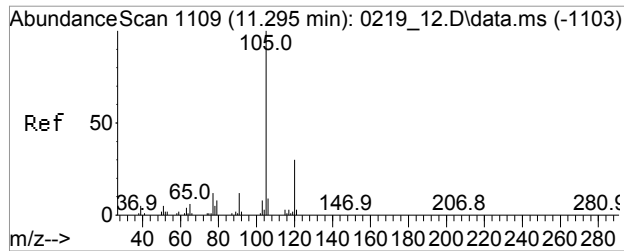
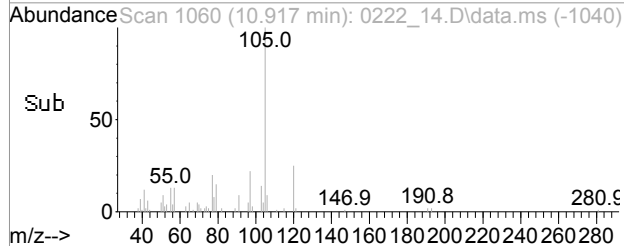
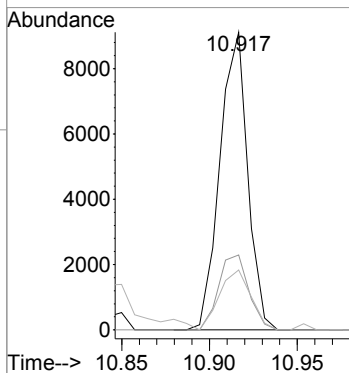
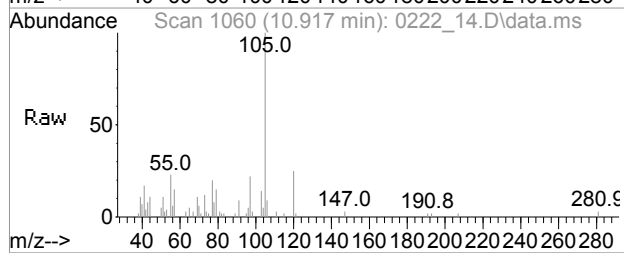
Tgt Ion: 91 Resp: 65309
Ion Ratio Lower Upper
91 100
106 45.7 37.4 56.2
105 18.0 14.1 21.1





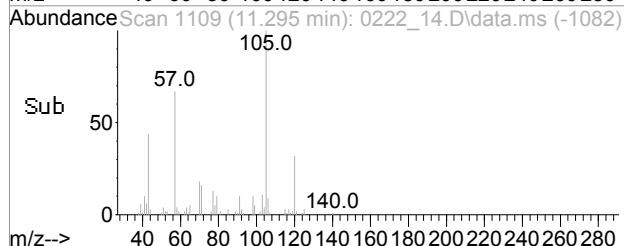
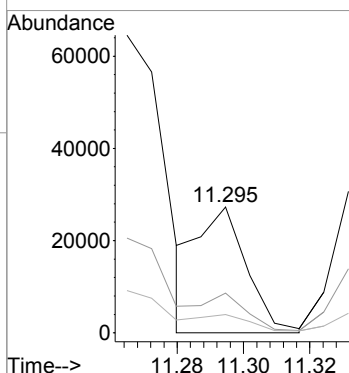
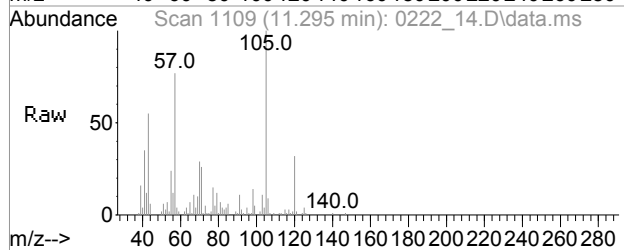
#63
Isopropylbenzene
Concen: 0.20 ppbv
RT: 10.917 min Scan# 1060
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

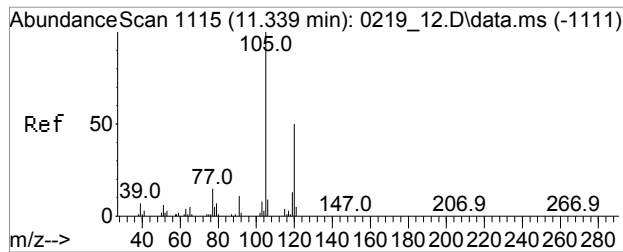
Tgt Ion:105 Resp: 10042
Ion Ratio Lower Upper
105 100
120 27.4 19.4 29.2
77 22.8 13.2 19.8#



#65
4-Ethyltoluene
Concen: 0.53 ppbv m
RT: 11.295 min Scan# 1109
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

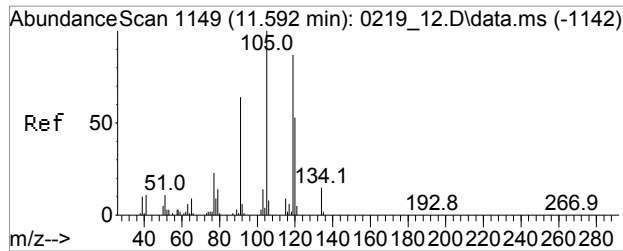
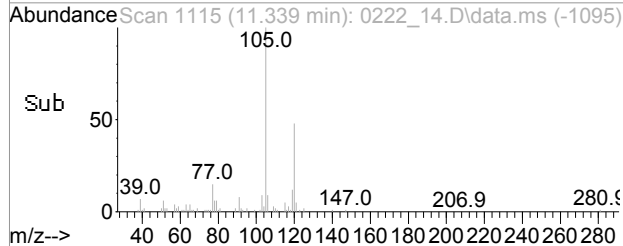
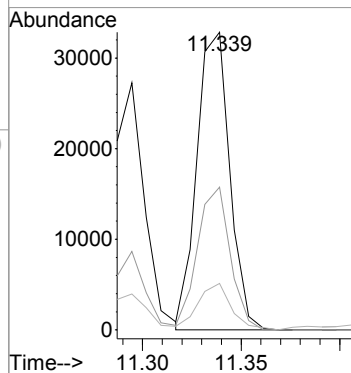
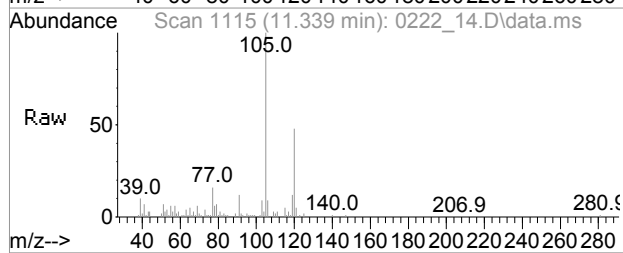
Tgt Ion:105 Resp: 28254
Ion Ratio Lower Upper
105 100
120 114.2 23.3 34.9#
77 52.2 10.0 15.0#





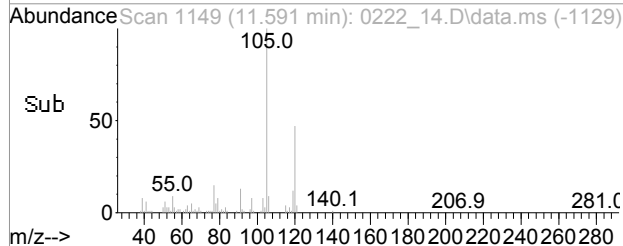
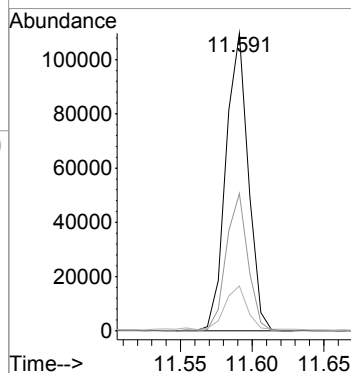
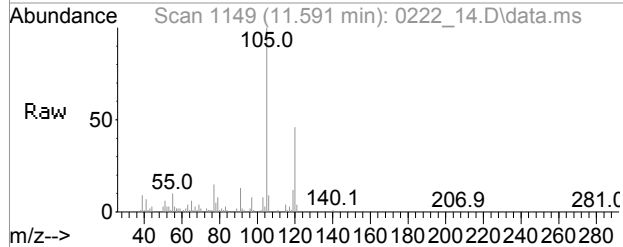
#66
1,3,5-Trimethylbenzene
Concen: 0.85 ppbv
RT: 11.339 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

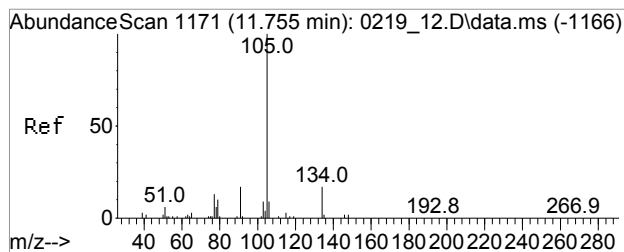
Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.9	38.6	57.8
77	15.8	11.3	16.9



#67
1,2,4-Trimethylbenzene
Concen: 2.92 ppbv
RT: 11.591 min Scan# 1149
Delta R.T. 0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

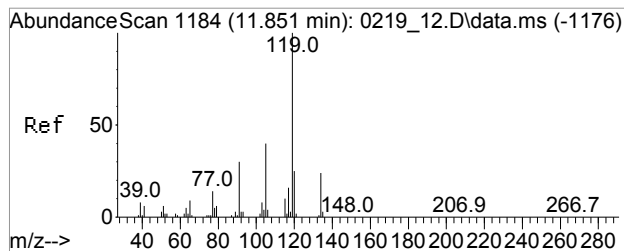
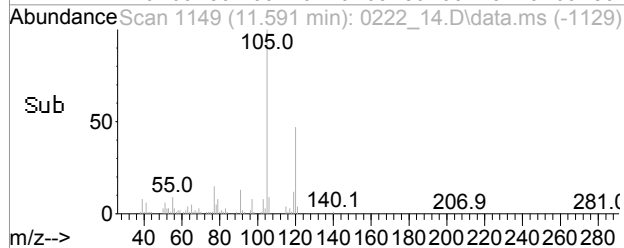
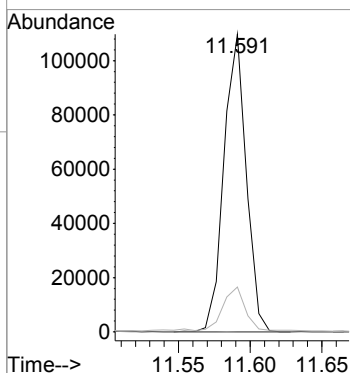
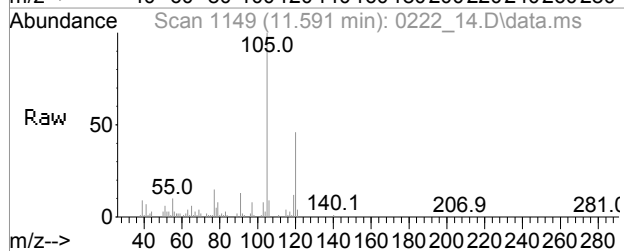
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	43.5	65.3
77	16.2	20.2	30.4#





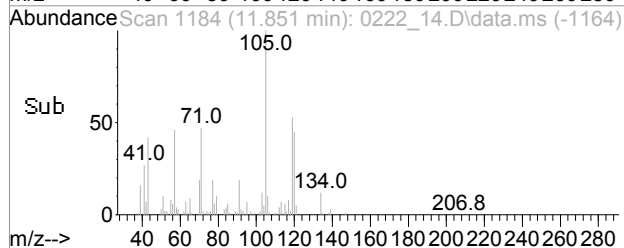
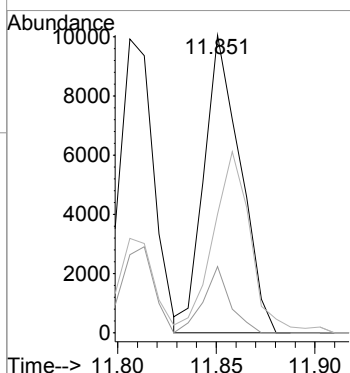
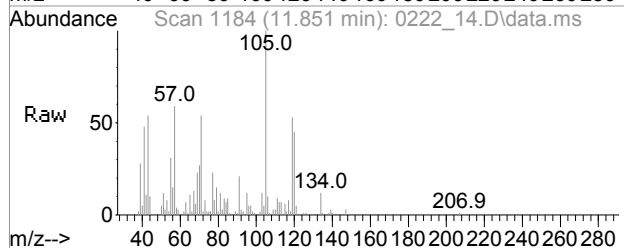
#72
 sec-Butylbenzene
 Concen: 2.20 ppbv
 RT: 11.591 min Scan# 1149
 Delta R.T. 0.000 min
 Lab File: 0222_14.D
 Acq: 22 Feb 2016 08:22 pm

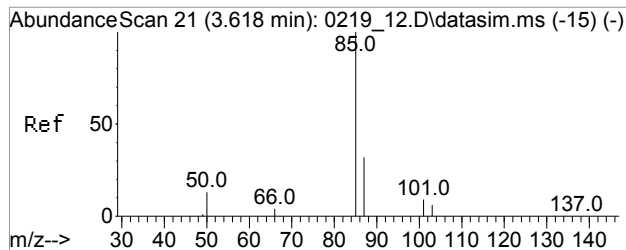
Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.1	13.7	20.5#
77	16.2	11.0	16.4



#73
 4-Isopropyltoluene
 Concen: 0.24 ppbv
 RT: 11.851 min Scan# 1184
 Delta R.T. -0.000 min
 Lab File: 0222_14.D
 Acq: 22 Feb 2016 08:22 pm

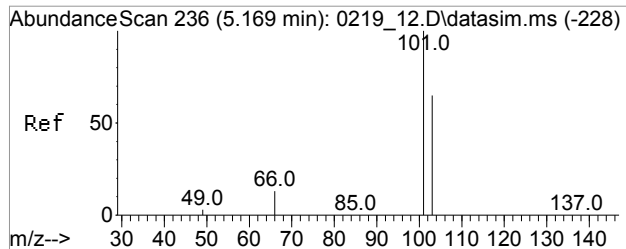
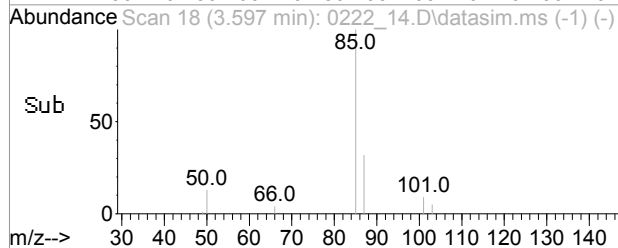
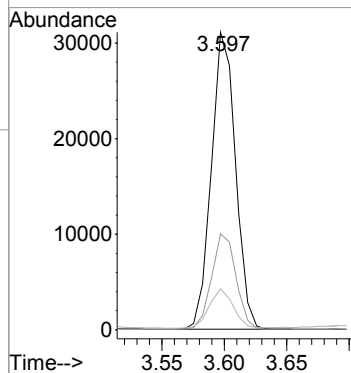
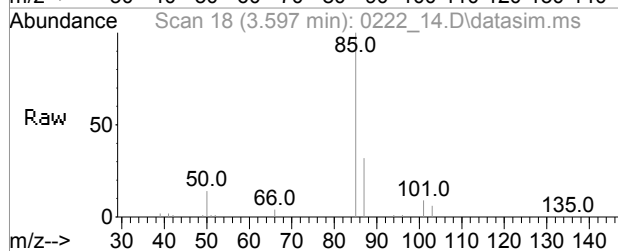
Tgt Ion	Ratio	Lower	Upper
119	100		
134	16.5	18.2	27.4#
91	63.7	25.8	38.8#





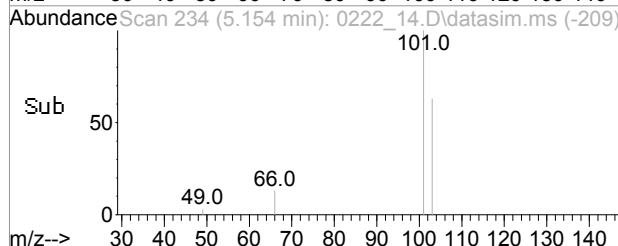
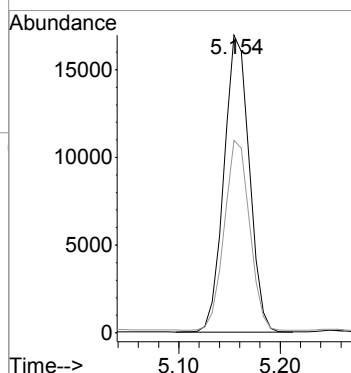
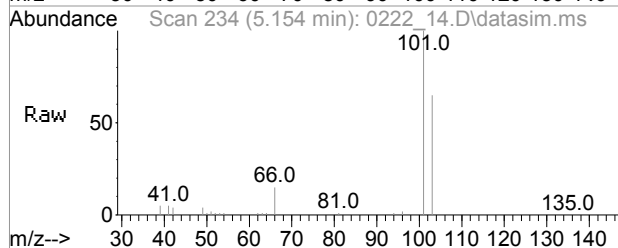
#80
Dichlorodifluoromethane(sim)
Concen: 0.51 ppbv
RT: 3.597 min Scan# 18
Delta R.T. -0.028 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

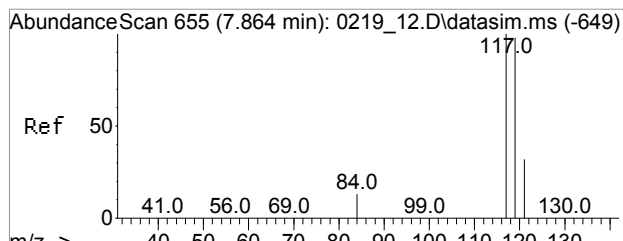
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.7	52.7
50	13.2	0.0	32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.39 ppbv
RT: 5.154 min Scan# 234
Delta R.T. -0.022 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

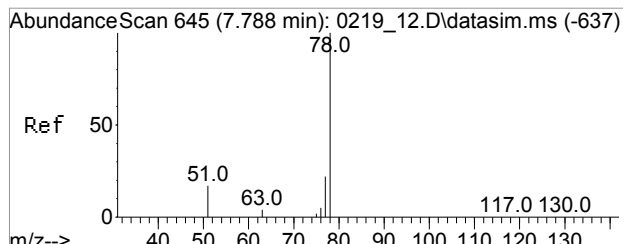
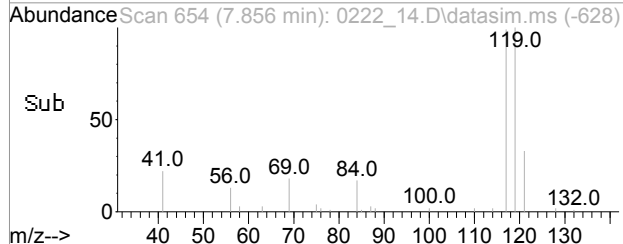
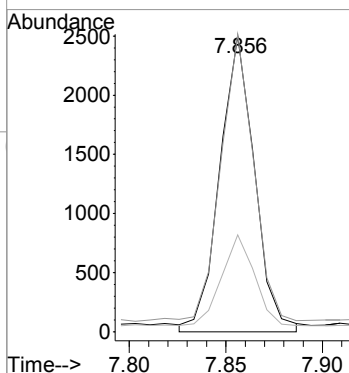
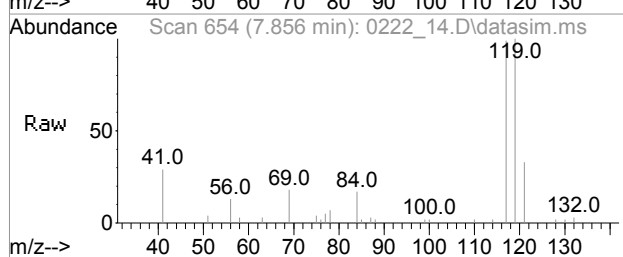
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.0	78.0





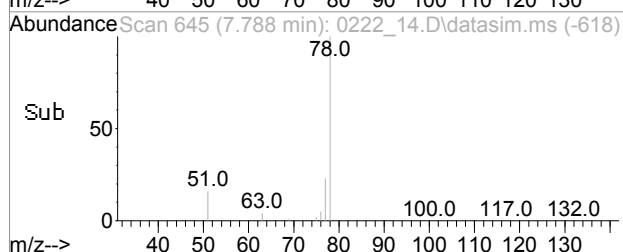
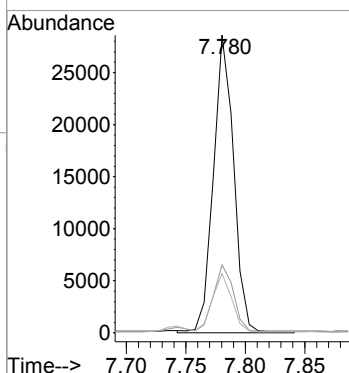
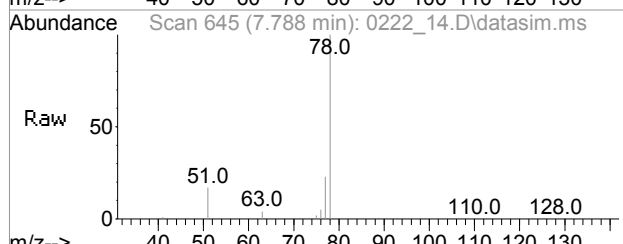
#87
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 7.853 min Scan# 654
Delta R.T. -0.008 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

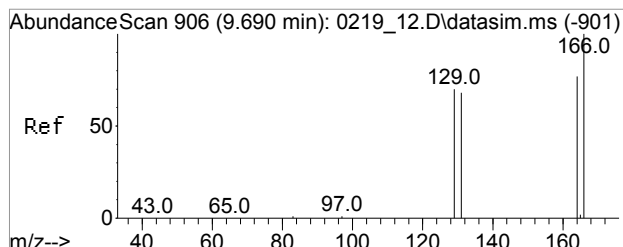
Tgt Ion:	117	Resp:	2161
Ion	Ratio	Lower	Upper
117	100		
119	109.3	76.7	115.1
121	30.7	24.6	37.0



#95
Benzene(sim)
Concen: 0.84 ppbv
RT: 7.785 min Scan# 645
Delta R.T. 0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

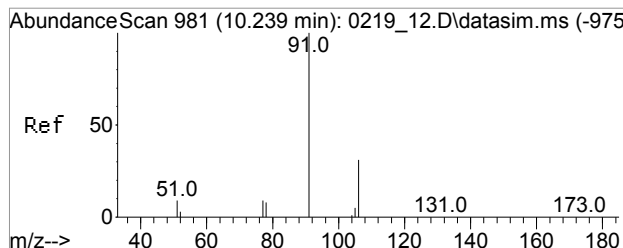
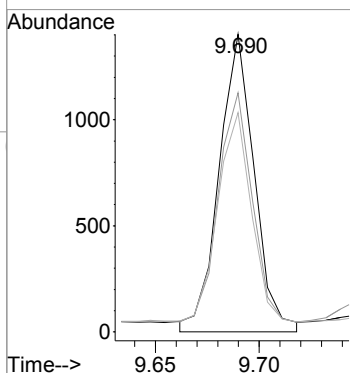
Tgt Ion:	78	Resp:	30840
Ion	Ratio	Lower	Upper
78	100		
77	23.8	22.0	24.4
51	18.7	14.9	22.3





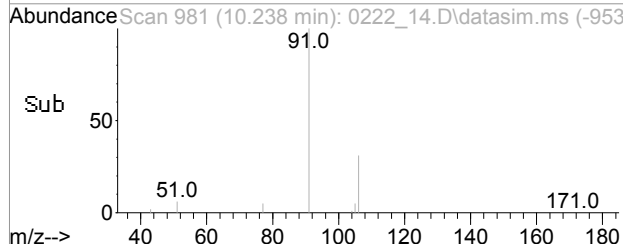
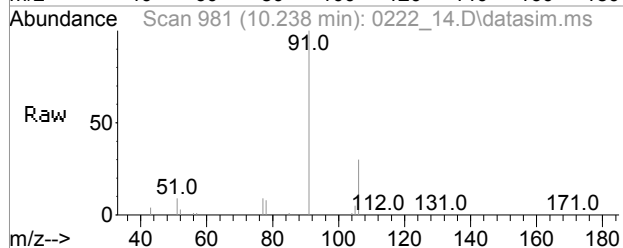
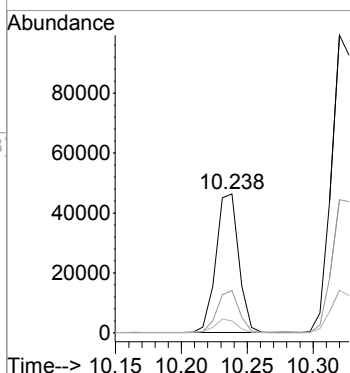
#105
Tetrachloroethene(sim)
Concen: 0.06 ppbv
RT: 9.687 min Scan# 906
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

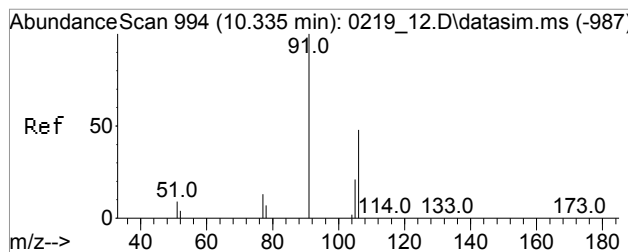
Tgt Ion: 166 Resp: 1212
Ion Ratio Lower Upper
166 100
164 62.7 57.8 97.8
129 62.2 50.7 90.7



#110
Ethylbenzene(sim)
Concen: 1.00 ppbv
RT: 10.238 min Scan# 981
Delta R.T. 0.007 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

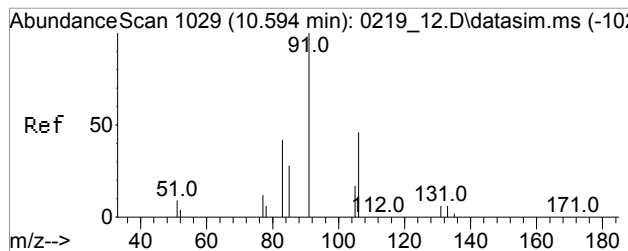
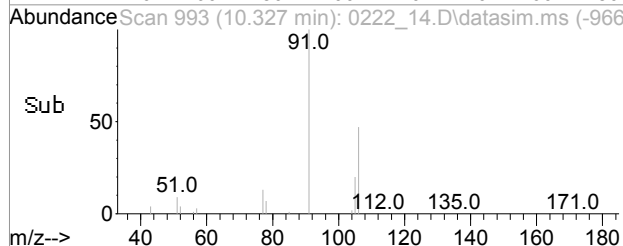
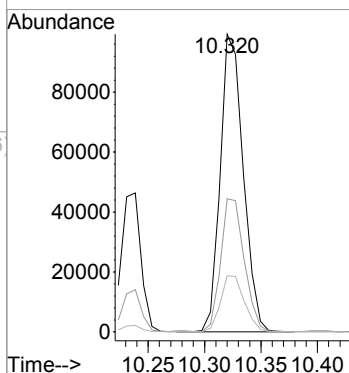
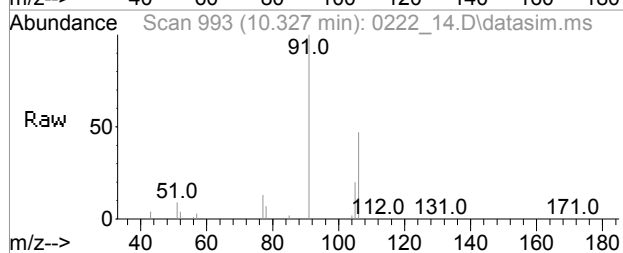
Tgt Ion: 91 Resp: 56065
Ion Ratio Lower Upper
91 100
106 29.2 24.0 36.0
77 9.5 7.3 10.9





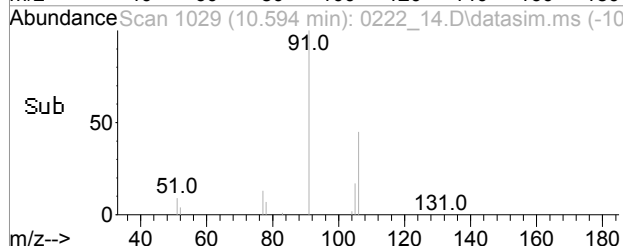
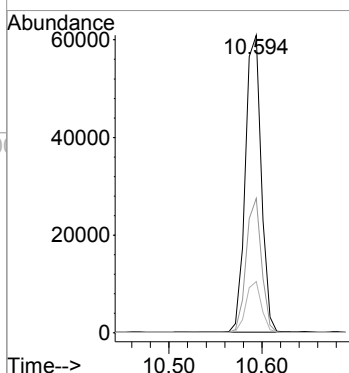
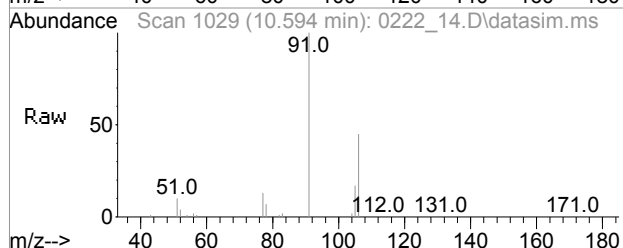
#111
m,p-Xylene(sim)
Concen: 3.10 ppbv
RT: 10.324 min Scan# 993
Delta R.T. -0.001 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

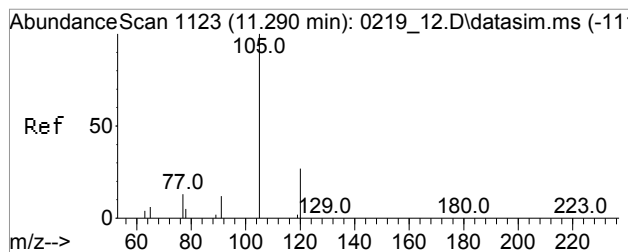
Tgt Ion: 91	Resp: 126678
Ion Ratio	Lower Upper
91 100	
106 47.1	43.6 53.2
105 20.2	16.6 25.0



#114
o-Xylene(sim)
Concen: 1.58 ppbv
RT: 10.594 min Scan# 1029
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

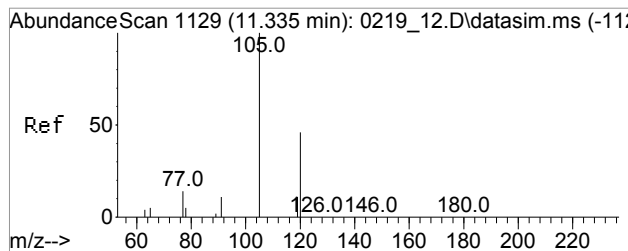
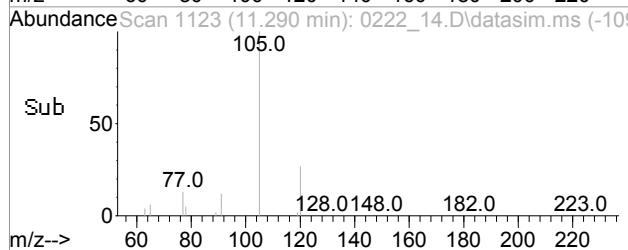
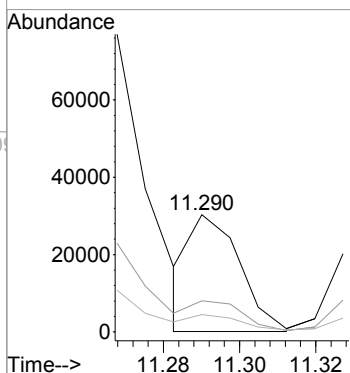
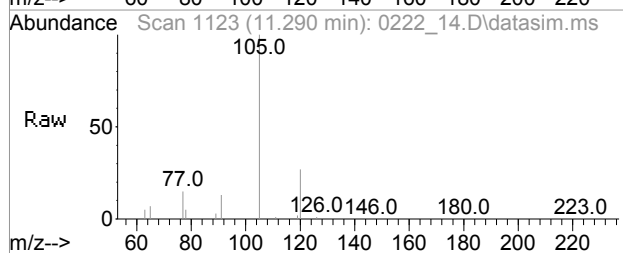
Tgt Ion: 91	Resp: 72432
Ion Ratio	Lower Upper
91 100	
106 43.5	36.0 54.0
105 16.8	13.8 20.8





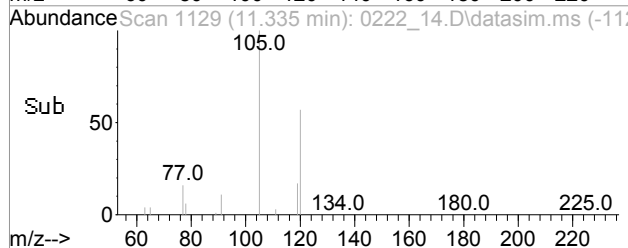
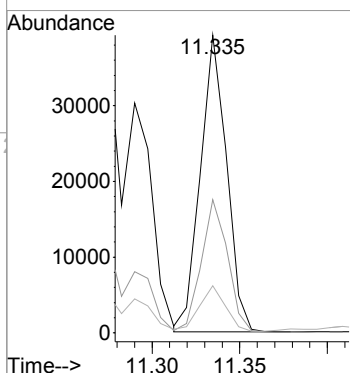
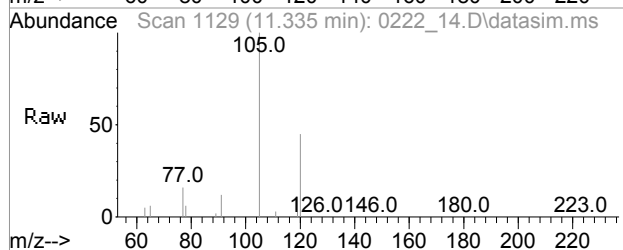
#117
4-Ethyltoluene(sim)
Concen: 0.47 ppbv m
RT: 11.290 min Scan# 1123
Delta R.T. -0.005 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

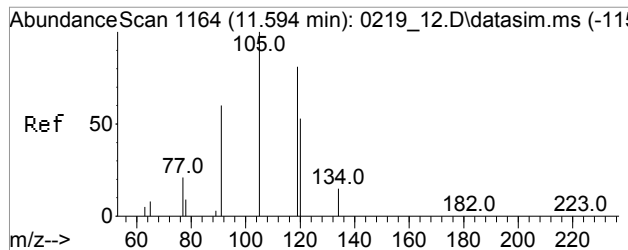
Tgt Ion:105 Resp: 27437
Ion Ratio Lower Upper
105 100
120 117.6 23.3 34.9#
77 53.7 10.0 15.0#



#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.80 ppbv
RT: 11.335 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

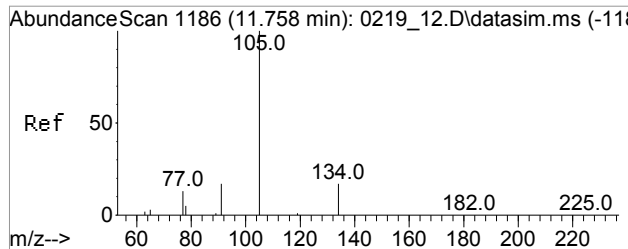
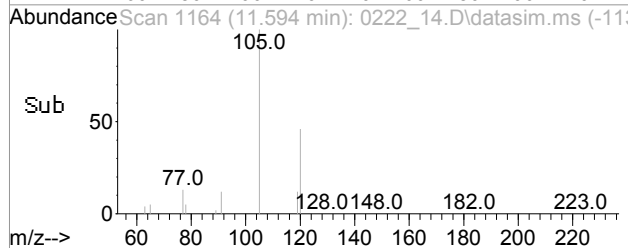
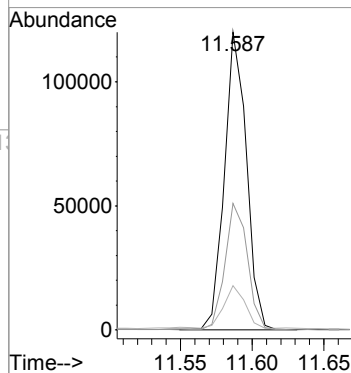
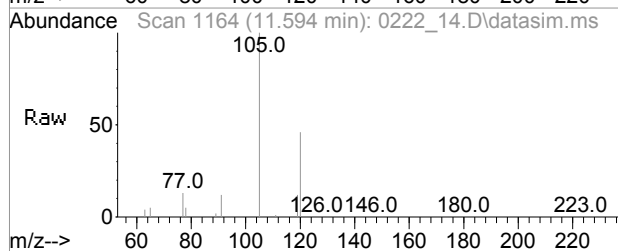
Tgt Ion:105 Resp: 40890
Ion Ratio Lower Upper
105 100
120 45.0 10.6 82.0
77 15.0 11.4 17.2





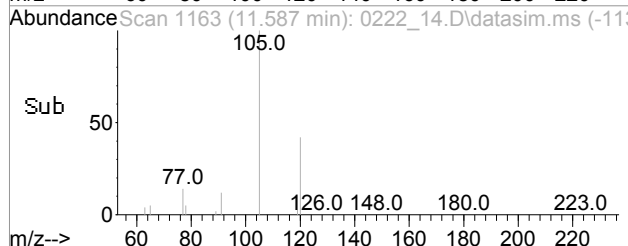
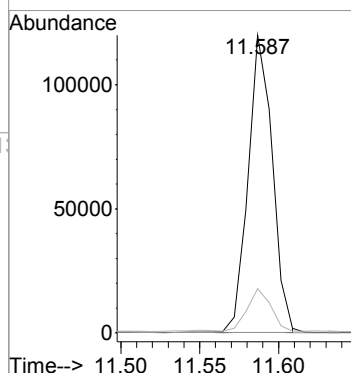
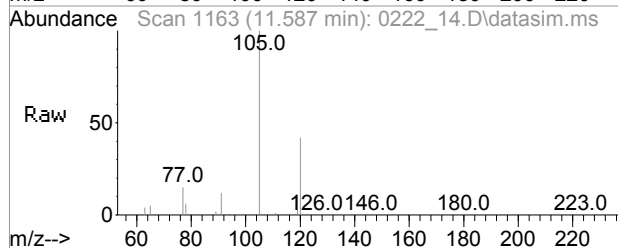
#119
1,2,4-Trimethylbenzene(sim)
Concen: 2.67 ppbv
RT: 11.591 min Scan# 1164
Delta R.T. 0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

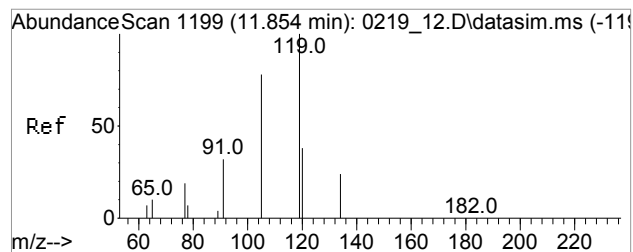
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	43.5	65.3
77	16.2	20.2	30.4



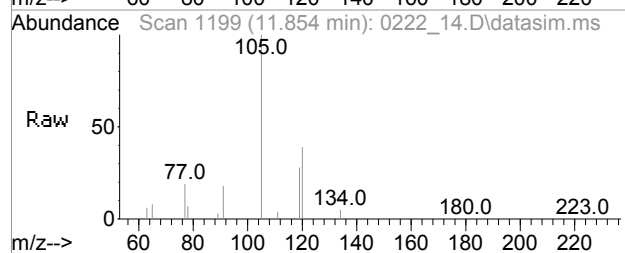
#124
sec-Butylbenzene(sim)
Concen: 1.93 ppbv
RT: 11.587 min Scan# 1163
Delta R.T. -0.000 min
Lab File: 0222_14.D
Acq: 22 Feb 2016 08:22 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.1	0.0	35.9
77	14.6	0.0	34.1

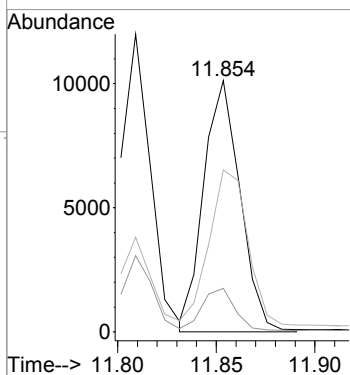
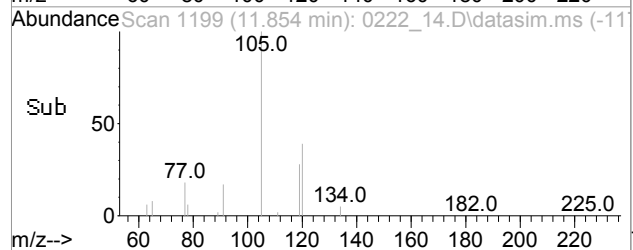




#125
 4-Isopropyltoluene(sim)
 Concen: 0.21 ppbv
 RT: 11.851 min Scan# 1199
 Delta R.T. -0.000 min
 Lab File: 0222_14.D
 Acq: 22 Feb 2016 08:22 pm



Tgt Ion: 119 Resp: 12842
 Ion Ratio Lower Upper
 119 100
 134 16.5 18.2 27.4#
 91 63.7 25.8 38.8#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67667</u>
Canister:	<u>13651</u>	Lab File ID:	<u>0222_16.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.500		0.202	0.202	r
74-87-3	Chloromethane	0.622		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	2.89	S	0.531	0.531	r
67-64-1	Acetone	2.00	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.222		0.178	0.178	r
67-63-0	Isopropylalcohol	0.518	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.233		0.037	0.037	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.078		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67667</u>
Canister:	<u>13651</u>	Lab File ID:	<u>0222_16.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_16.D
 Acq On : 22 Feb 2016 09:39 pm
 Operator : CORTEX\ms
 Client ID : IA-4
 Lab ID : BK67667
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:19:12 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

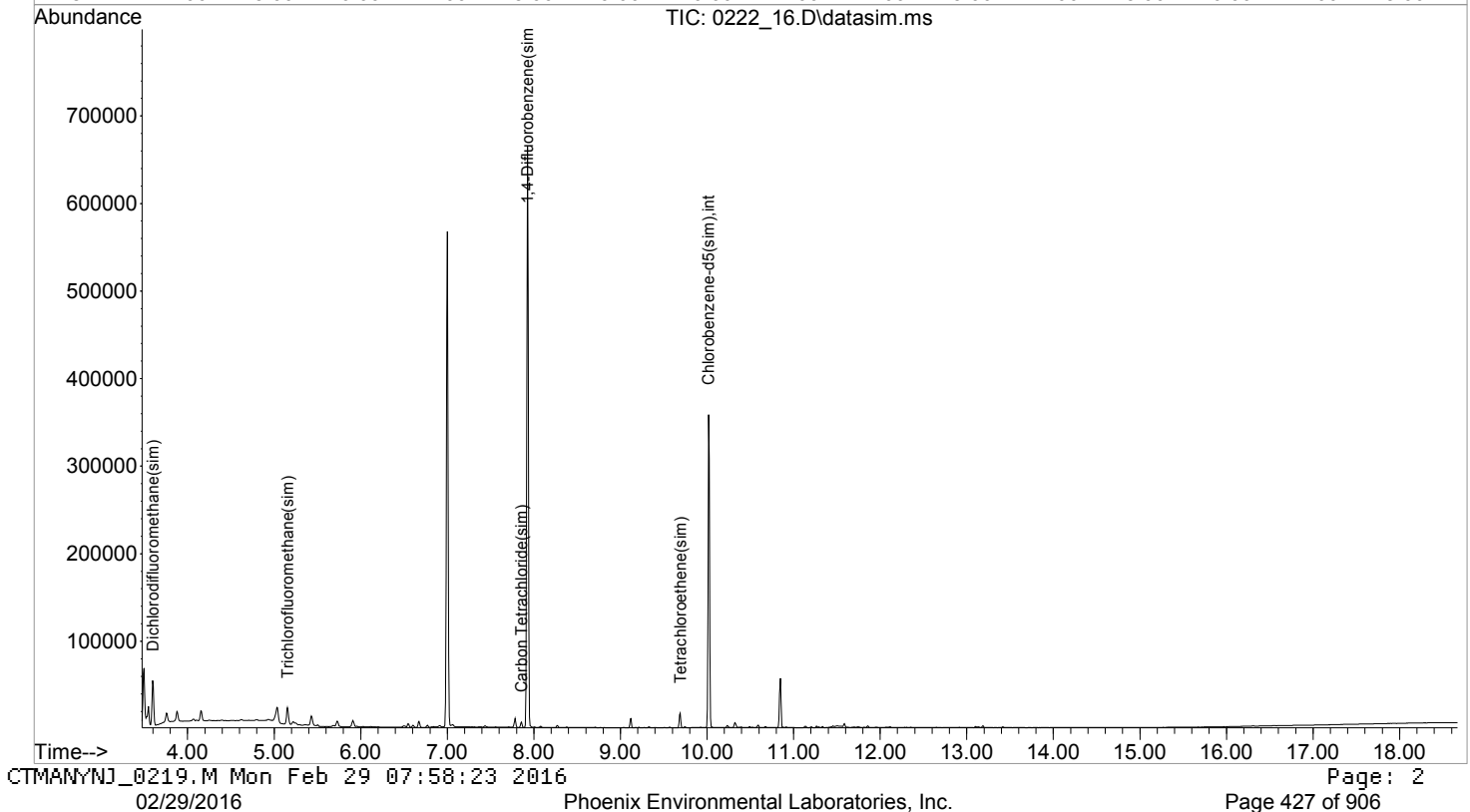
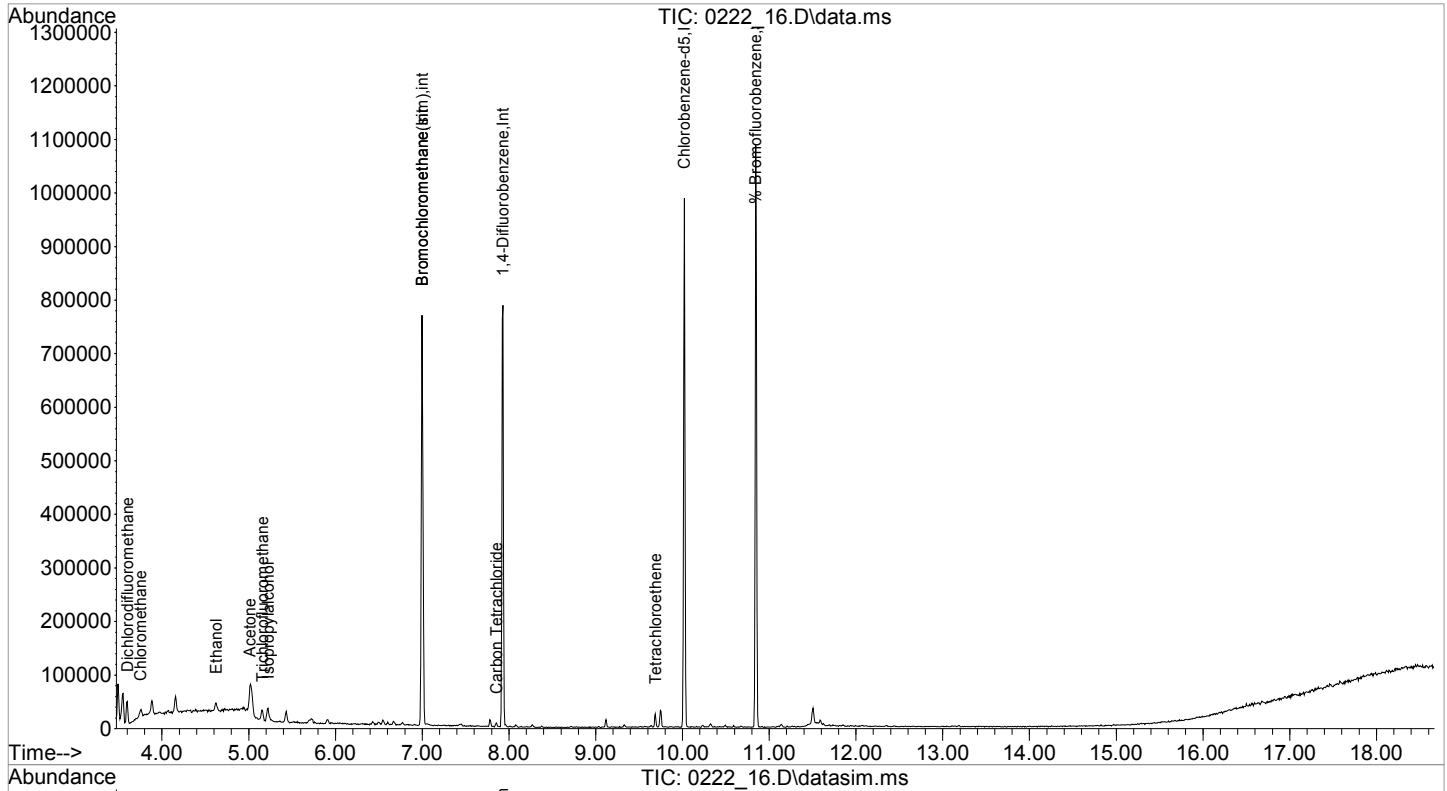
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

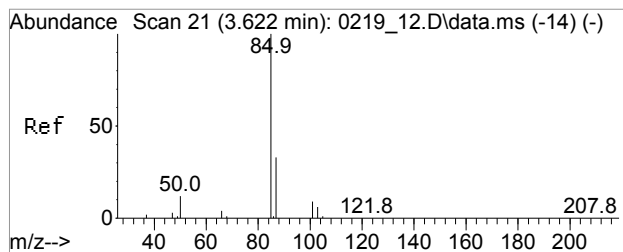
Internal Standards						
1) Bromochloromethane	6.999	130	157747	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	419570	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	186088	10.000	ng	0.00
79) Bromochloromethane(sim)	6.999	130	157747	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	500853	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	200939	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	235971	9.603	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.00%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.601	85	33564	0.500	ppbv	97
4) Chloromethane	3.753	52	3386	0.622	ppbv	95
10) Ethanol	4.625	45	14444	2.889	ppbv#	94
11) Acetone	5.015	43	56172	2.000	ppbv	94
12) Trichlorofluoromethane	5.159	101	13190	0.222	ppbv#	92
13) Isopropylalcohol	5.224	45	26604	0.518	ppbv	96
33) Carbon Tetrachloride	7.854	117	2508	0.079	ppbv	91
51) Tetrachloroethene	9.688	166	4927	0.233	ppbv	98
80] Dichlorodifluoromethan...	3.597	85	42084	0.505	ppbv	100
84] Trichlorofluoromethane...	5.154	101	17815	0.236	ppbv	100
87] Carbon Tetrachloride(sim)	7.854	117	2508	0.078	ppbv	91
105] Tetrachloroethene(sim)	9.688	166	4927	0.234	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_16.D
Acq On : 22 Feb 2016 09:39 pm
Operator : CORTEX\jms
Client ID : IA-4
Lab ID : BK67667
ALS Vial : 1 Sample Multiplier: 1

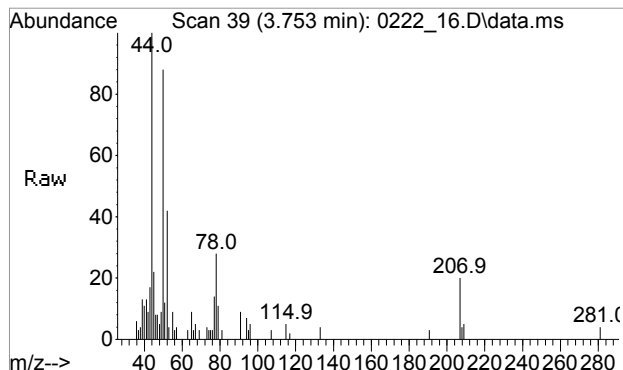
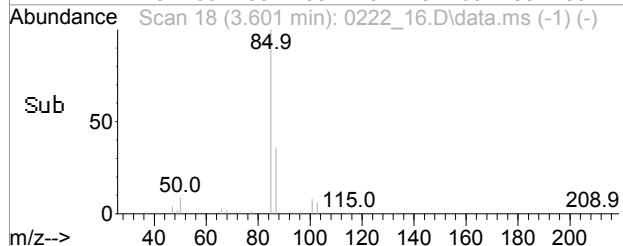
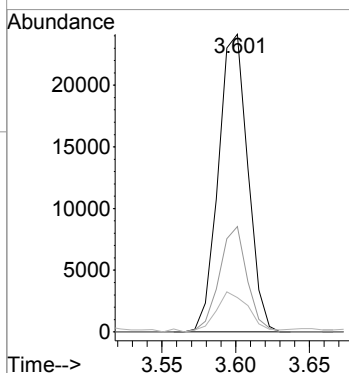
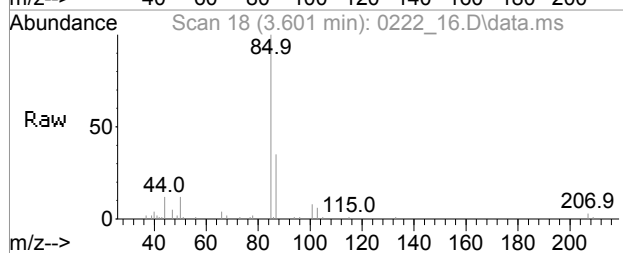
Quant Time: Feb 23 08:19:12 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





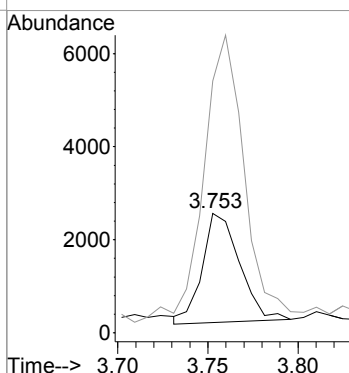
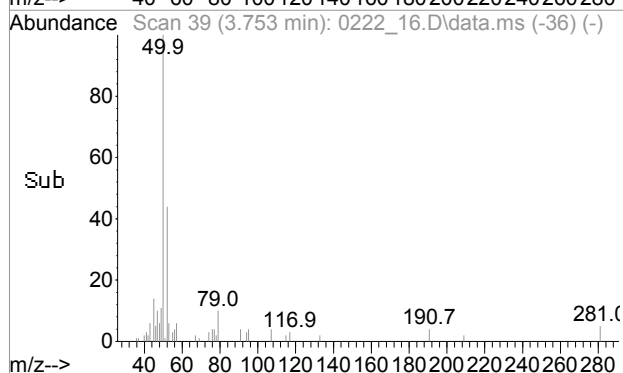
#3
Dichlorodifluoromethane
Concen: 0.50 ppbv
RT: 3.601 min Scan# 18
Delta R.T. -0.029 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

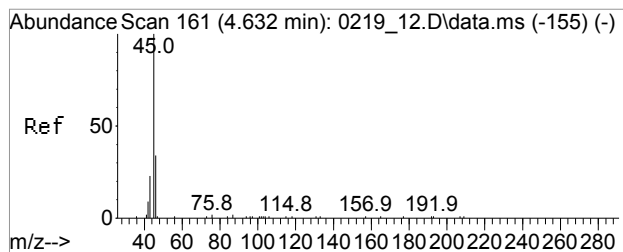
Tgt Ion: 85 Resp: 33564
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1
50 15.2 10.5 15.7



#4
Chloromethane
Concen: 0.62 ppbv
RT: 3.753 min Scan# 39
Delta R.T. -0.035 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

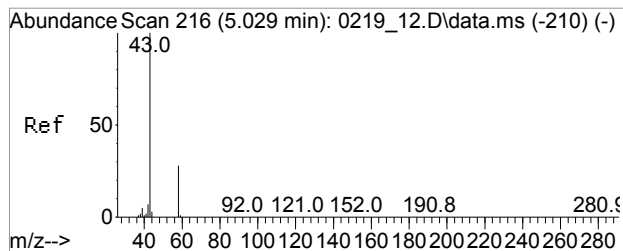
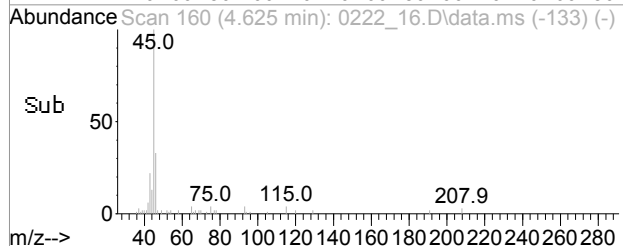
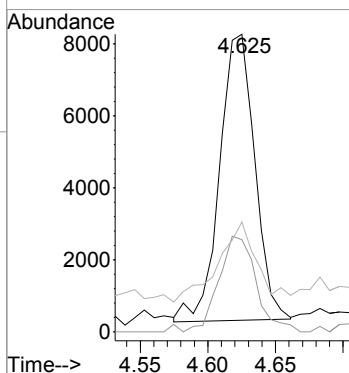
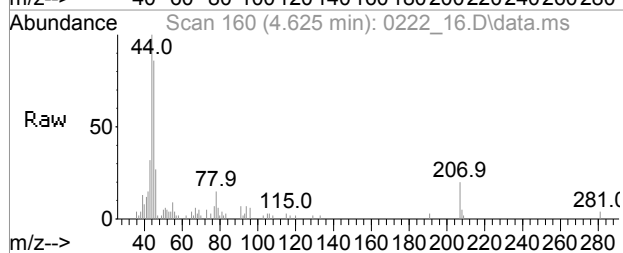
Tgt Ion: 52 Resp: 3386
Ion Ratio Lower Upper
52 100
50 294.4 284.4 324.4





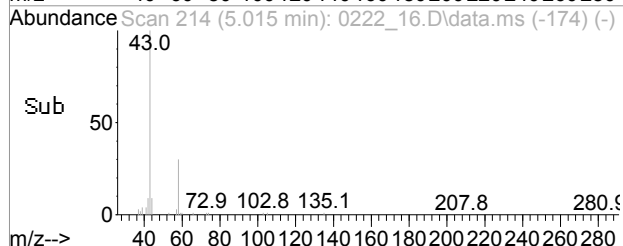
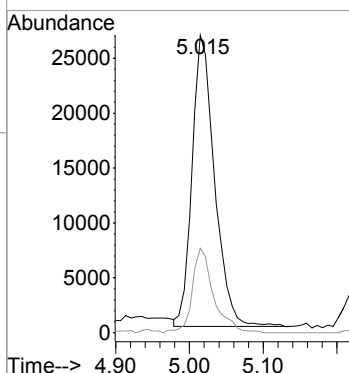
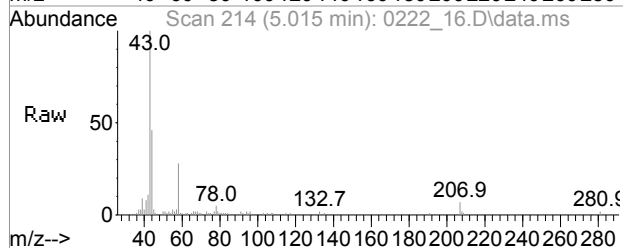
#10
Ethanol
Concen: 2.89 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

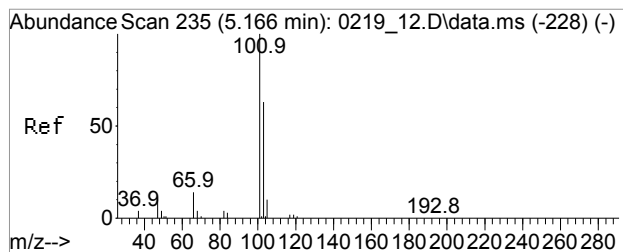
Tgt Ion: 45 Resp: 14444
Ion Ratio Lower Upper
45 100
46 35.3 28.5 42.7
43 31.2 19.7 29.5#



#11
Acetone
Concen: 2.00 ppbv
RT: 5.015 min Scan# 214
Delta R.T. -0.014 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

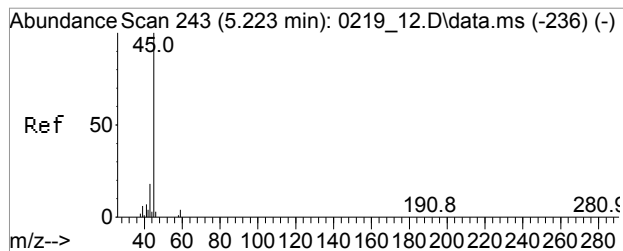
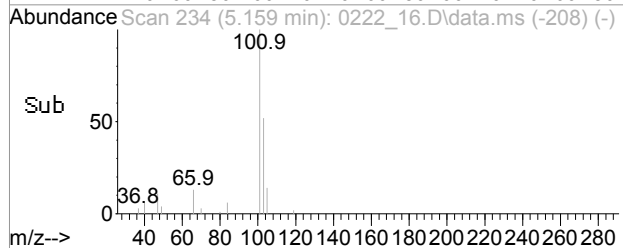
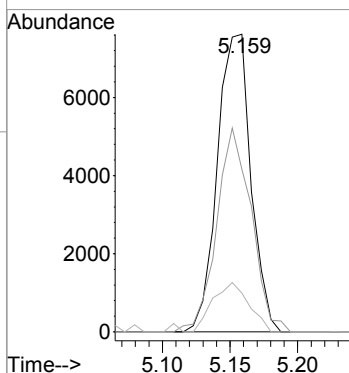
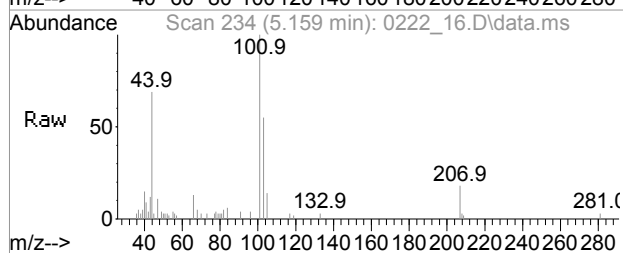
Tgt Ion: 43 Resp: 56172
Ion Ratio Lower Upper
43 100
58 27.8 24.8 37.2





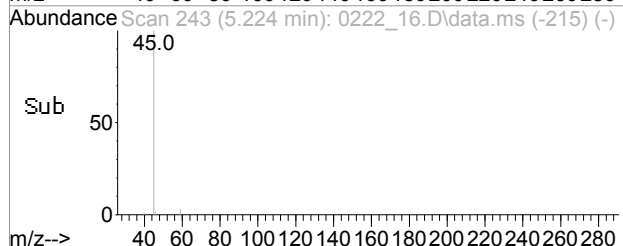
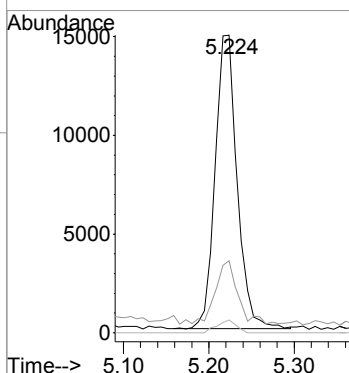
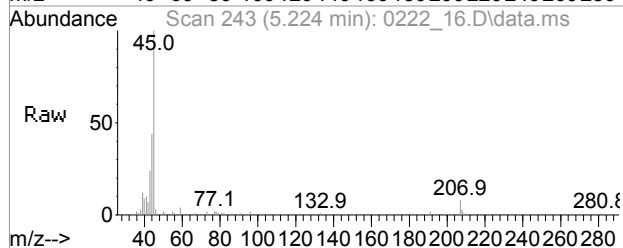
#12
Trichlorofluoromethane
Concen: 0.22 ppbv
RT: 5.159 min Scan# 234
Delta R.T. -0.014 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

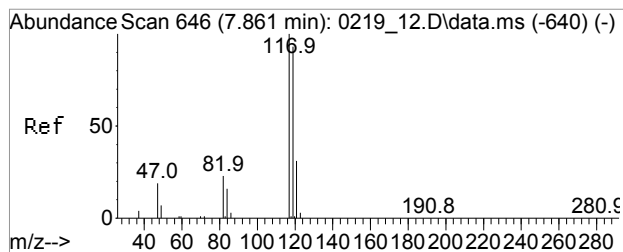
Tgt Ion: 101 Resp: 13190
Ion Ratio Lower Upper
101 100
103 70.7 51.8 77.8
66 17.8 11.1 16.7#



#13
Isopropylalcohol
Concen: 0.52 ppbv
RT: 5.224 min Scan# 243
Delta R.T. 0.001 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

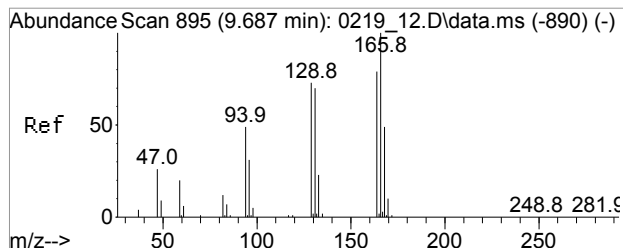
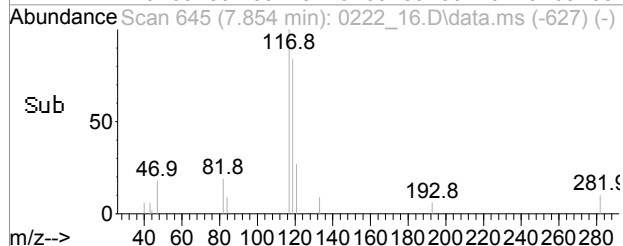
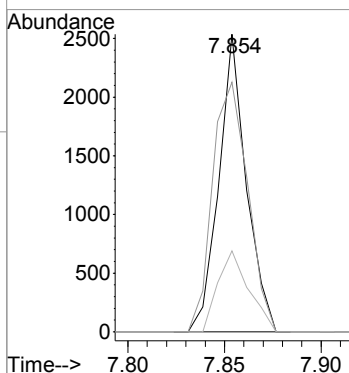
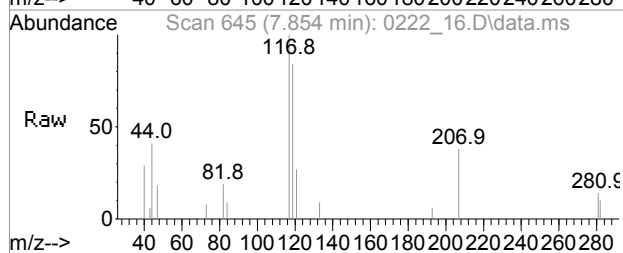
Tgt Ion: 45 Resp: 26604
Ion Ratio Lower Upper
45 100
43 21.1 15.4 23.0
59 3.9 3.0 4.4





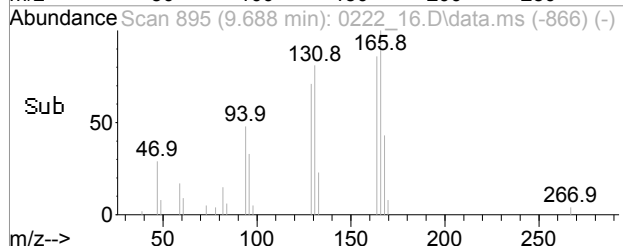
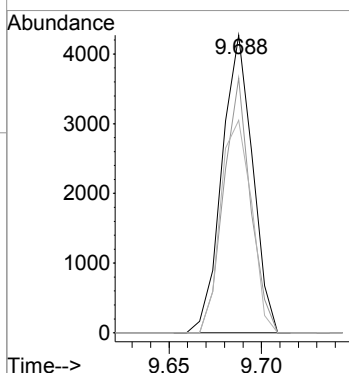
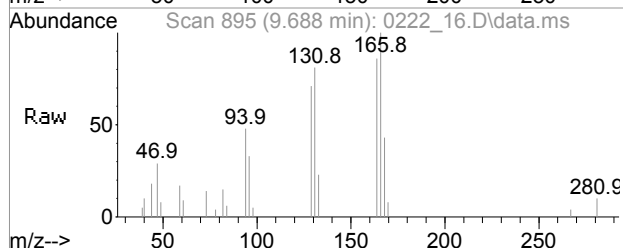
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

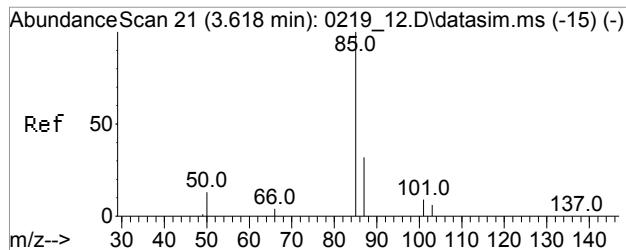
Tgt Ion: 117 Resp: 2508
Ion Ratio Lower Upper
117 100
119 107.9 75.9 115.9
121 30.7 10.8 50.8



#51
Tetrachloroethene
Concen: 0.23 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

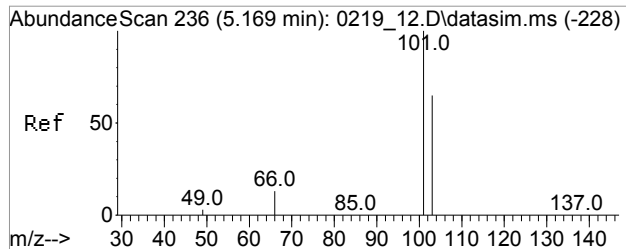
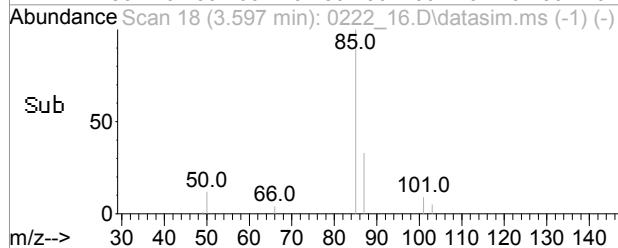
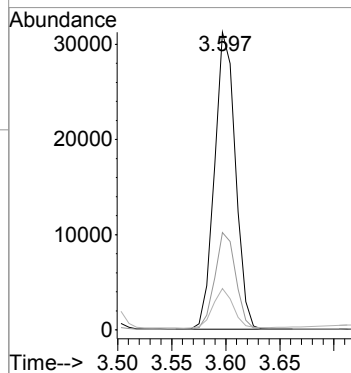
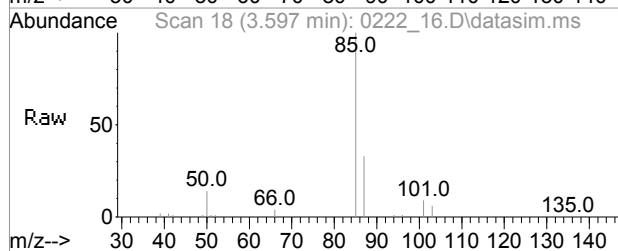
Tgt Ion: 166 Resp: 4927
Ion Ratio Lower Upper
166 100
164 75.4 62.2 93.4
129 72.3 56.6 84.8





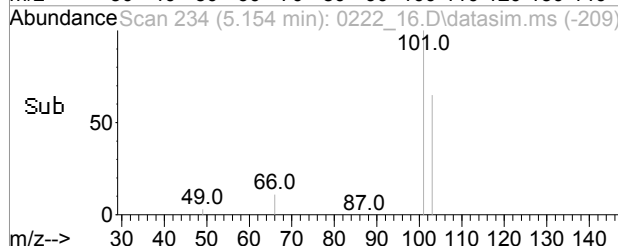
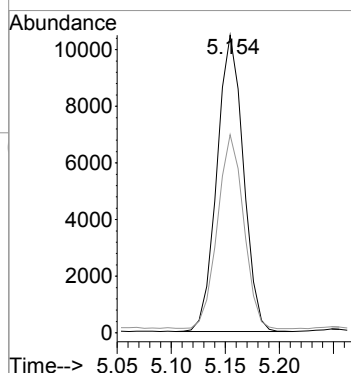
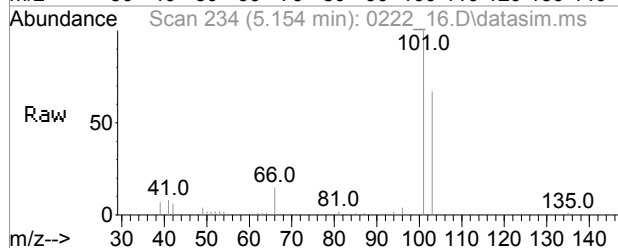
#80
Dichlorodifluoromethane(sim)
Concen: 0.51 ppbv
RT: 3.597 min Scan# 18
Delta R.T. -0.028 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

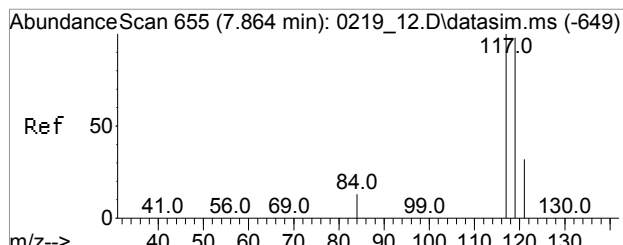
Tgt Ion: 85 Resp: 42084
Ion Ratio Lower Upper
85 100
87 32.7 12.7 52.7
50 13.0 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.24 ppbv
RT: 5.154 min Scan# 234
Delta R.T. -0.022 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

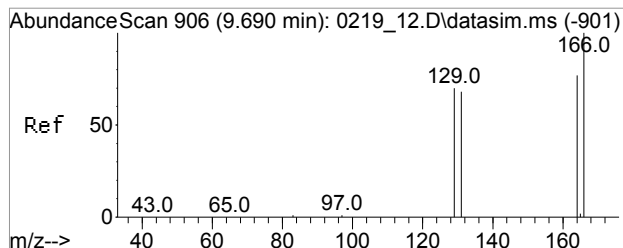
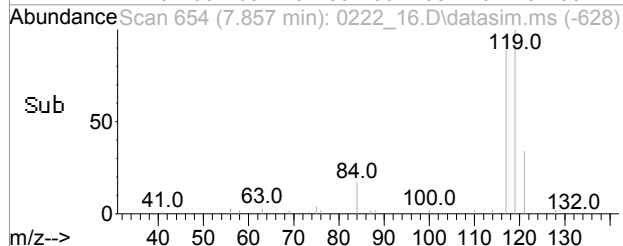
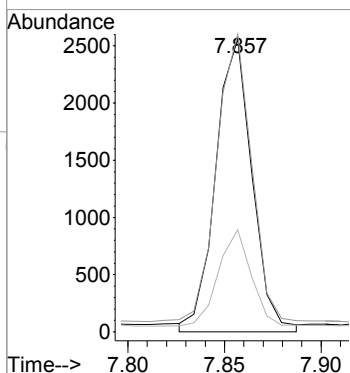
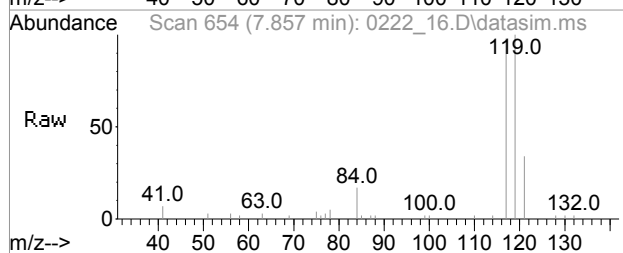
Tgt Ion: 101 Resp: 17815
Ion Ratio Lower Upper
101 100
103 64.6 52.0 78.0





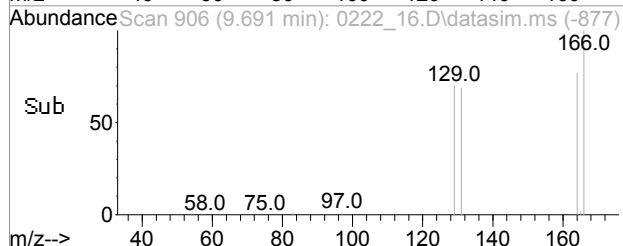
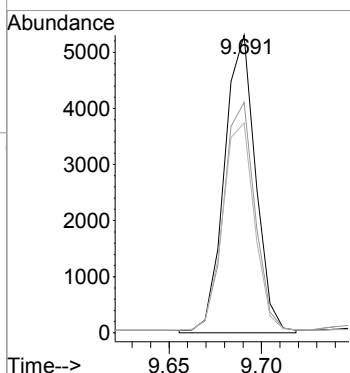
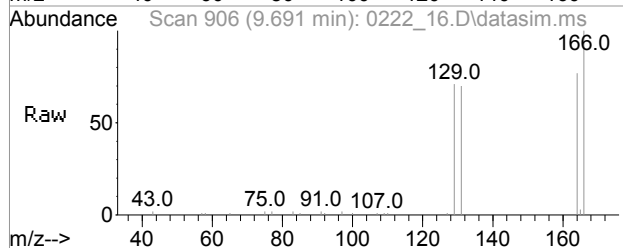
#87
Carbon Tetrachloride(sim)
Concen: 0.08 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

Tgt Ion:117 Resp: 2508
Ion Ratio Lower Upper
117 100
119 107.9 76.7 115.1
121 30.7 24.6 37.0



#105
Tetrachloroethene(sim)
Concen: 0.23 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_16.D
Acq: 22 Feb 2016 09:39 pm

Tgt Ion:166 Resp: 4927
Ion Ratio Lower Upper
166 100
164 75.4 57.8 97.8
129 72.3 50.7 90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-7
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67668</u>	
Canister:	<u>172</u>	Lab File ID:	<u>0222_42.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)			Date Analyzed: <u>02/23/16</u>
Matrix:	<u>AIR</u>		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.598		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	7.91	S	0.531	0.531	r
67-64-1	Acetone	40.0	ES	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.271		0.178	0.178	r
67-63-0	Isopropylalcohol	0.731	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	9.51		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	2.27		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.958		0.252	0.252	r
110-54-3	Hexane	2.02	S	0.284	0.284	r
67-66-3	Chloroform	0.946		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.345		0.313	0.313	r
110-82-7	Cyclohexane	0.413		0.291	0.291	r
79-01-6	Trichloroethene	2.63		0.047	0.047	r
142-82-5	Heptane	0.838		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	2.51		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	110	E	0.037	0.037	
100-41-4	Ethylbenzene	0.815		0.230	0.230	r
179601-23-1	m,p-Xylene	3.30		0.230	0.230	r
95-47-6	o-Xylene	1.60		0.230	0.230	r
622-96-8	4-Ethyltoluene	0.657		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	1.10		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	4.19		0.204	0.204	r
99-87-6	4-Isopropyltoluene	0.300		0.182	0.182	r
104-51-8	n-Butylbenzene	0.182	U	0.182	0.182	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67668</u>
Canister:	<u>172</u>	Lab File ID:	<u>0222_42.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_42.D
 Acq On : 23 Feb 2016 02:58 pm
 Operator : CORTEX\ms
 Client ID : SS-7
 Lab ID : BK67668
 ALS Vial : 1 Sample Multiplier: 1

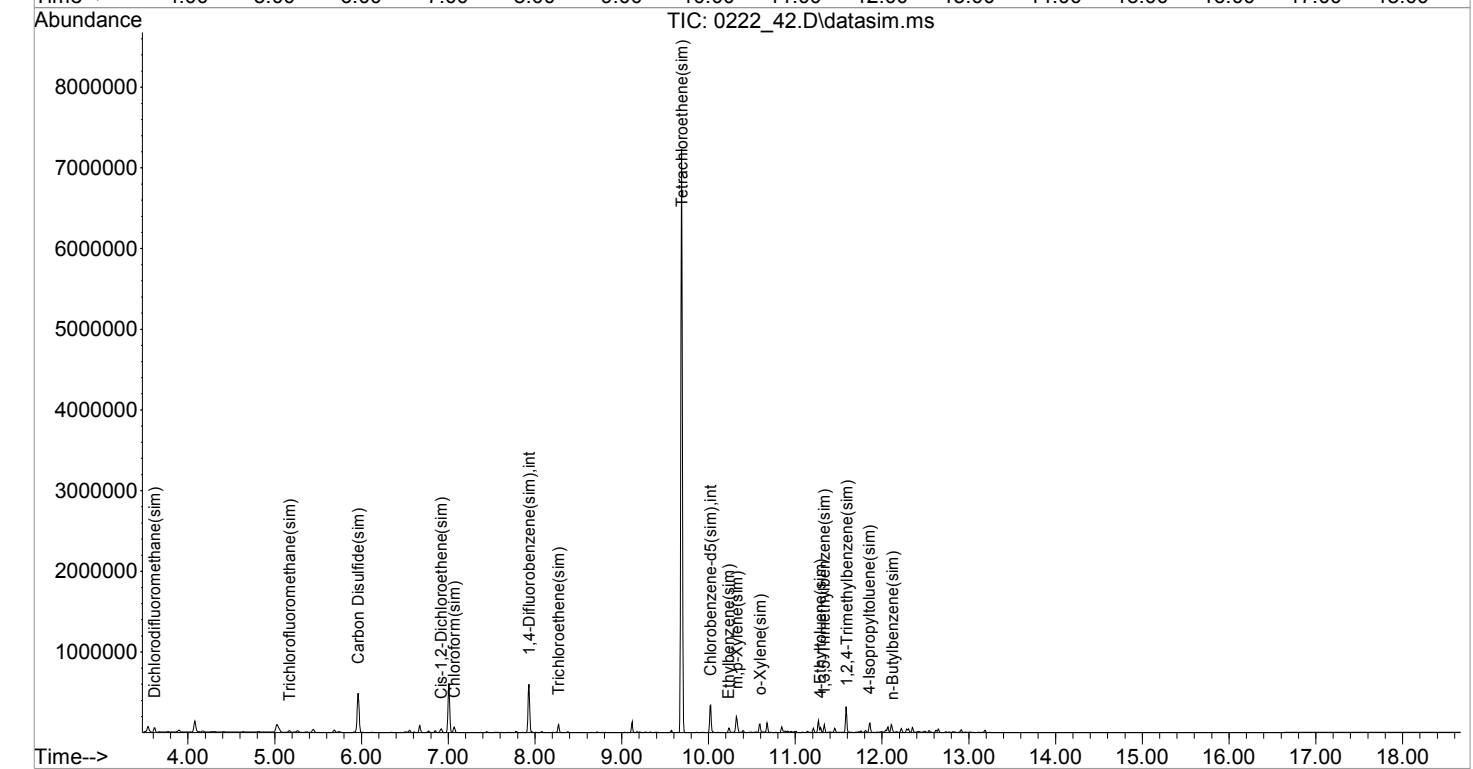
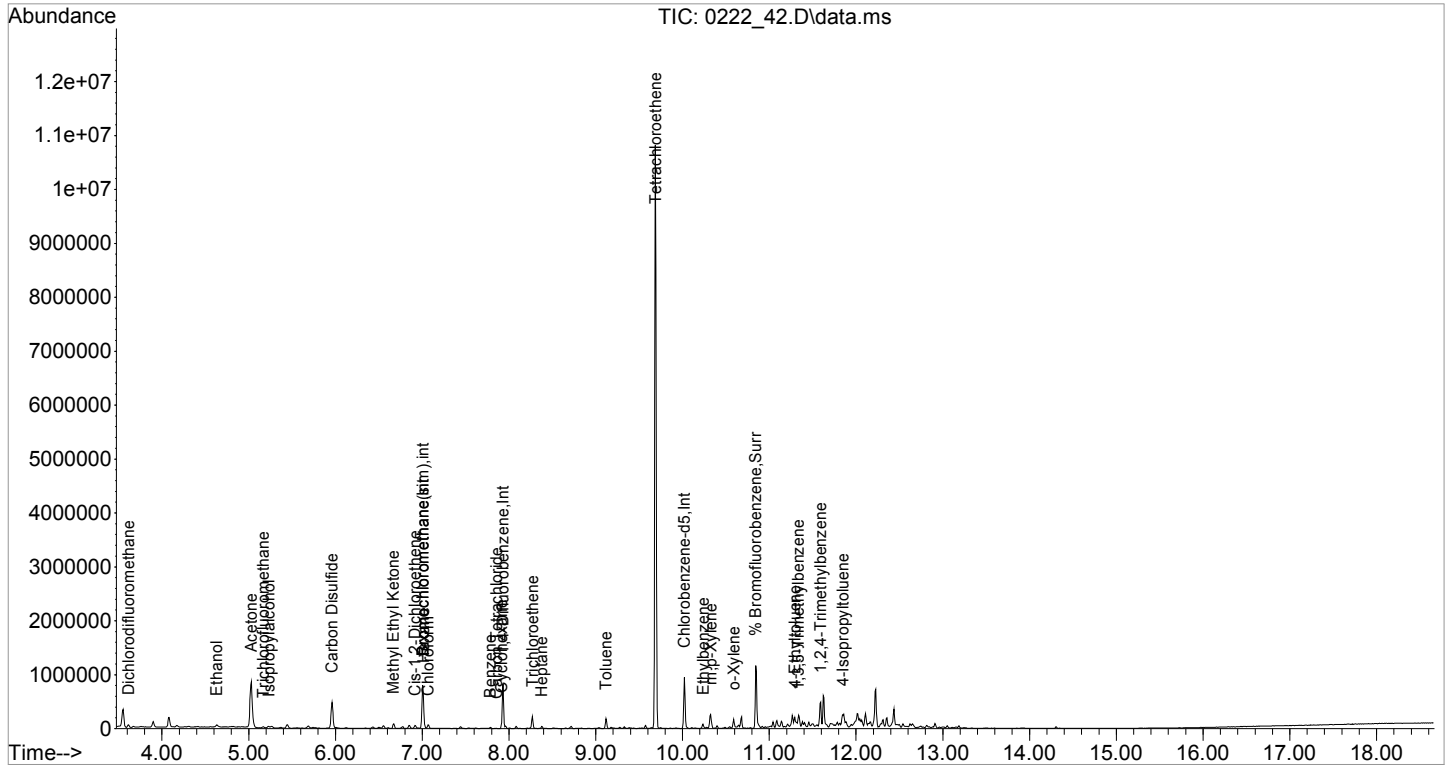
Quant Time: Feb 24 08:46:44 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

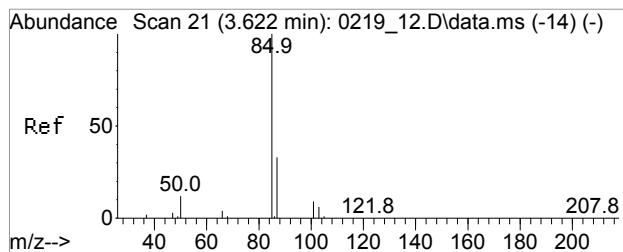
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.005	130	141998	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	374475	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	178687	10.000	ng	0.00
79) Bromochloromethane(sim)	7.005	130	141998	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	454273	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	193483	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	261516	11.083	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	110.80%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.616	85	36102	0.597	ppbv#	97
10) Ethanol	4.632	45	35589	7.909	ppbv#	94
11) Acetone	5.029	43	1021787	40.422	ppbv	93
12) Trichlorofluoromethane	5.166	101	14469	0.271	ppbv#	96
13) Isopropylalcohol	5.231	45	33799	0.731	ppbv#	64
19) Carbon Disulfide	5.959	76	545419	9.514	ppbv	100
24) Methyl Ethyl Ketone	6.668	43	78595	2.273	ppbv	95
25) Cis-1,2-Dichloroethene	6.915	61	21083	0.958	ppbv	92
26) Hexane	7.013	57	36769	2.024	ppbv	86
27) Chloroform	7.066	83	31642	0.946	ppbv	96
32) Benzene	7.785	78	10444	0.345	ppbv#	91
33) Carbon Tetrachloride	7.853	117	1138	0.040	ppbv#	74
34) Cyclohexane	7.914	41	3256m	0.413	ppbv#	
38) Trichloroethene	8.270	130	34132	2.625	ppbv	89
42) Heptane	8.376	43	10191	0.838	ppbv	90
47) Toluene	9.117	91	70725	2.511	ppbv	98
51) Tetrachloroethene	9.687	166	2100989	111.324	ppbv	99
55) Ethylbenzene	10.236	91	35649	0.815	ppbv	96
56) m,p-Xylene	10.324	91	108035	3.298	ppbv	97
60) o-Xylene	10.591	91	56511	1.598	ppbv	98
65) 4-Ethyltoluene	11.295	105	32068m	0.657	ppbv	
66) 1,3,5-Trimethylbenzene	11.332	105	44506	1.096	ppbv#	97
67) 1,2,4-Trimethylbenzene	11.591	105	156623	4.191	ppbv#	84
73) 4-Isopropyltoluene	11.851	119	14791m	0.300	ppbv	
80] Dichlorodifluoromethane...	3.611	85	47371	0.632	ppbv	99
84] Trichlorofluoromethane...	5.169	101	20363	0.299	ppbv	99
89] Carbon Disulfide(sim)	5.959	76	545419	9.462	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	21083	0.910	ppbv	92
94] Chloroform(sim)	7.069	83	40277	0.976	ppbv	98
99] Trichloroethene(sim)	8.270	130	34132	2.193	ppbv	93
105] Tetrachloroethene(sim)	9.687	166	2100989	109.982	ppbv	99
110] Ethylbenzene(sim)	10.231	91	39948	0.768	ppbv	97
111] m,p-Xylene(sim)	10.324	91	108035	2.855	ppbv	97
114] o-Xylene(sim)	10.594	91	62519	1.476	ppbv	97
117] 4-Ethyltoluene(sim)	11.290	105	29651m	0.545	ppbv	
118] 1,3,5-Trimethylbenzene...	11.335	105	49214	1.041	ppbv	96
119] 1,2,4-Trimethylbenzene...	11.591	105	156623	3.793	ppbv#	84
125] 4-Isopropyltoluene(sim)	11.851	119	14790	0.256	ppbv#	55
127] n-Butylbenzene(sim)	12.118	91	24126	0.475	ppbv#	59

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_42.D
Acq On : 23 Feb 2016 02:58 pm
Operator : CORTEX\ms
Client ID : SS-7
Lab ID : BK67668
ALS Vial : 1 Sample Multiplier: 1

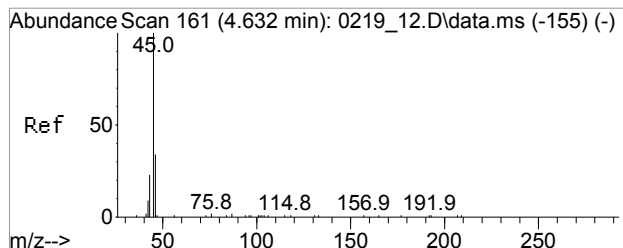
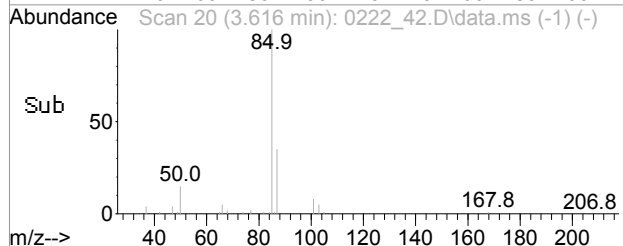
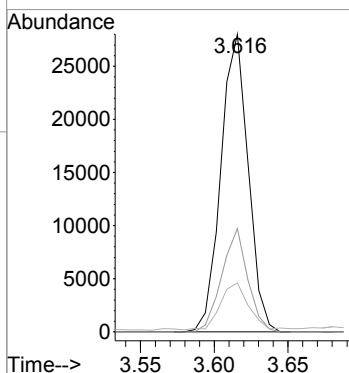
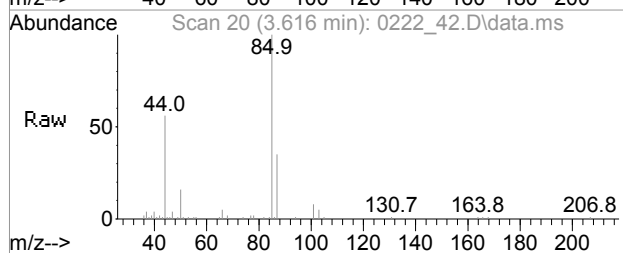
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QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





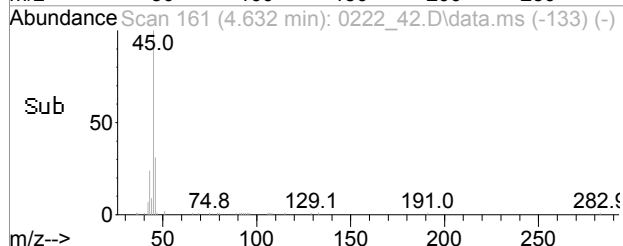
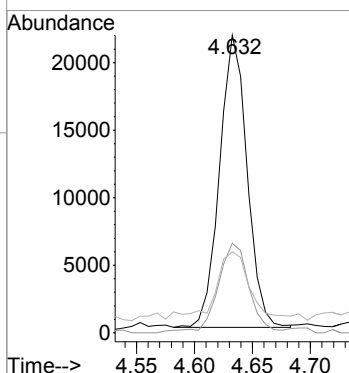
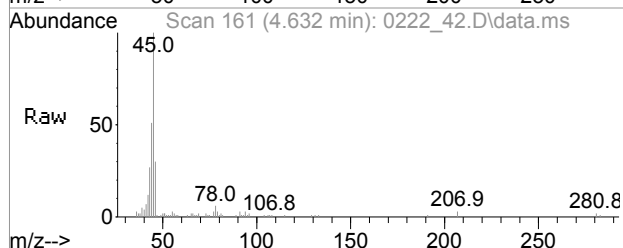
#3
Dichlorodifluoromethane
Concen: 0.60 ppbv
RT: 3.616 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

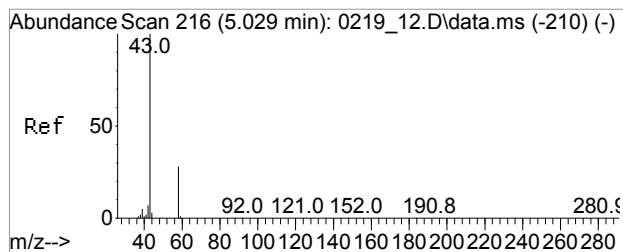
Tgt Ion: 85 Resp: 36102
Ion Ratio Lower Upper
85 100
87 33.0 26.1 39.1
50 16.5 10.5 15.7#



#10
Ethanol
Concen: 7.91 ppbv
RT: 4.632 min Scan# 161
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

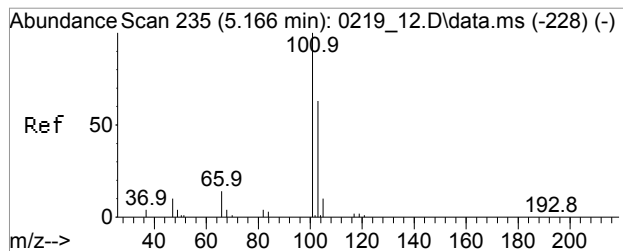
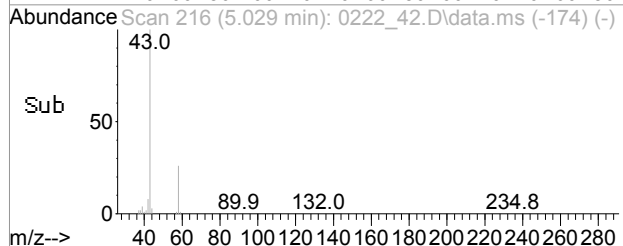
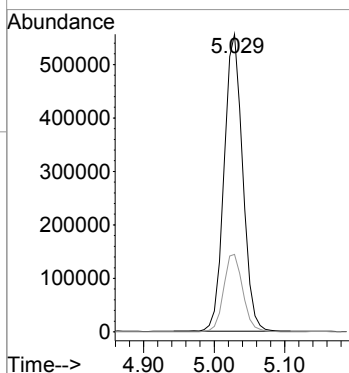
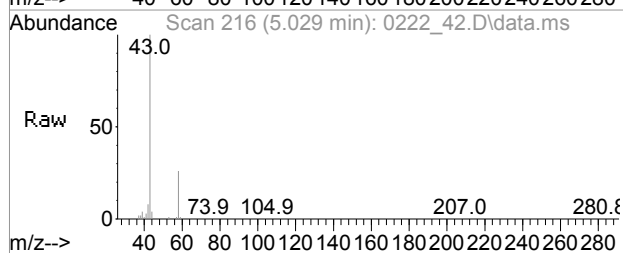
Tgt Ion: 45 Resp: 35589
Ion Ratio Lower Upper
45 100
46 34.6 28.5 42.7
43 30.3 19.7 29.5#





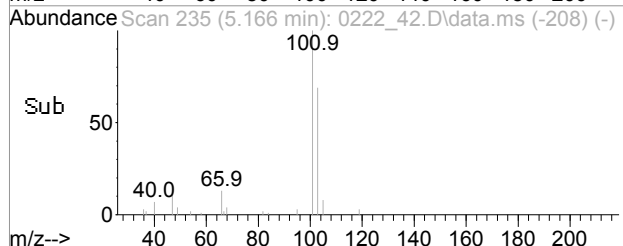
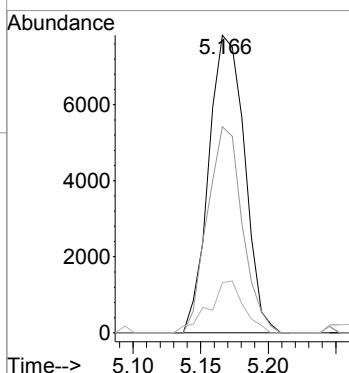
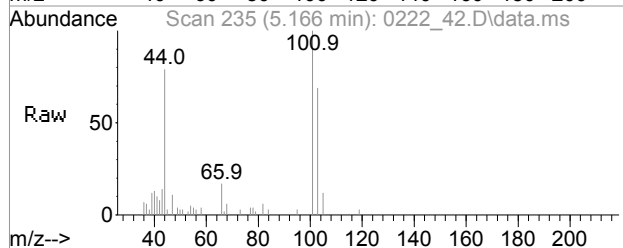
#11
Acetone
Concen: 40.42 ppbv
RT: 5.029 min Scan# 216
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

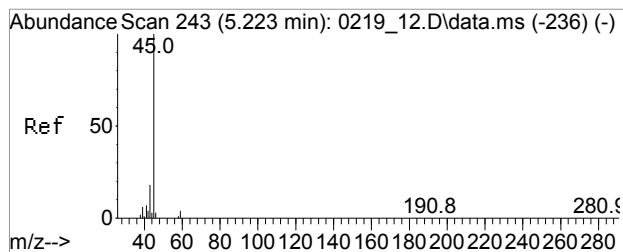
Tgt Ion: 43 Resp: 1021787
Ion Ratio Lower Upper
43 100
58 27.1 24.8 37.2



#12
Trichlorofluoromethane
Concen: 0.27 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

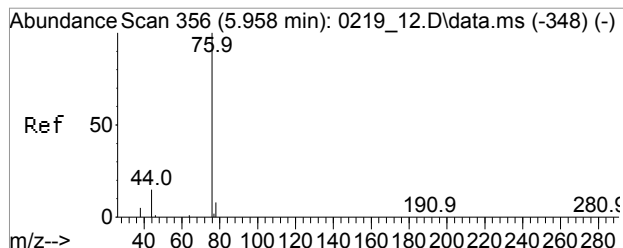
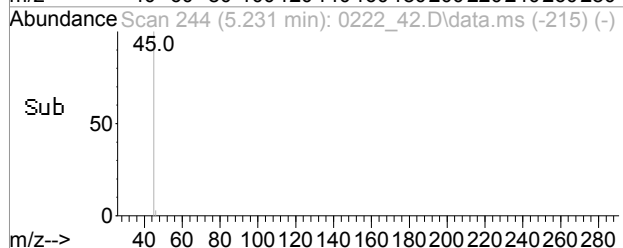
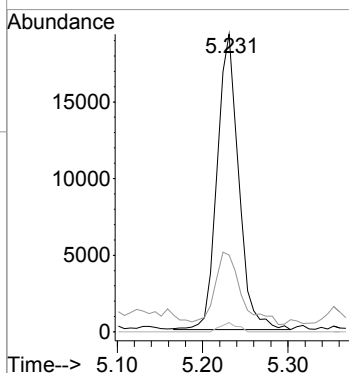
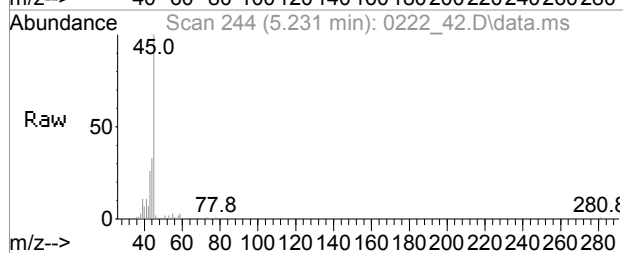
Tgt Ion: 101 Resp: 14469
Ion Ratio Lower Upper
101 100
103 67.4 51.8 77.8
66 16.9 11.1 16.7#





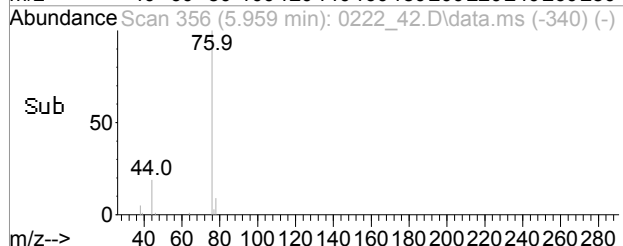
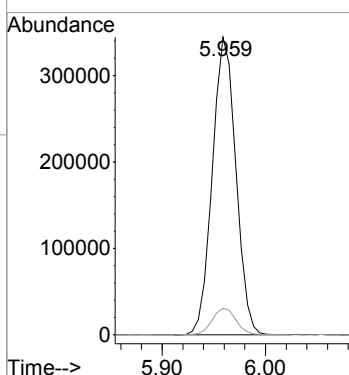
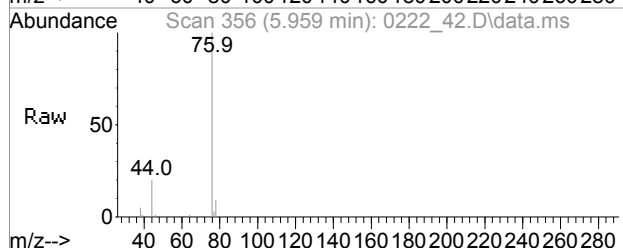
#13
Isopropylalcohol
Concen: 0.73 ppbv
RT: 5.231 min Scan# 244
Delta R.T. 0.008 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

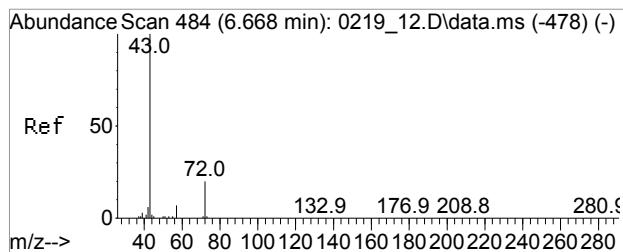
Tgt Ion: 45 Resp: 33799
Ion Ratio Lower Upper
45 100
43 0.0 15.4 23.0#
59 2.5 3.0 4.4#



#19
Carbon Disulfide
Concen: 9.51 ppbv
RT: 5.959 min Scan# 356
Delta R.T. -0.005 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

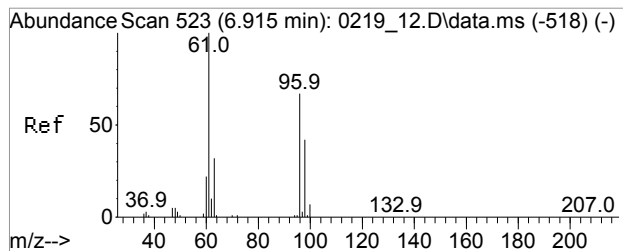
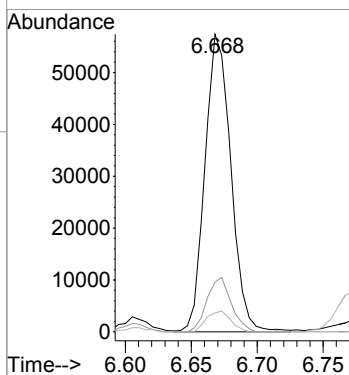
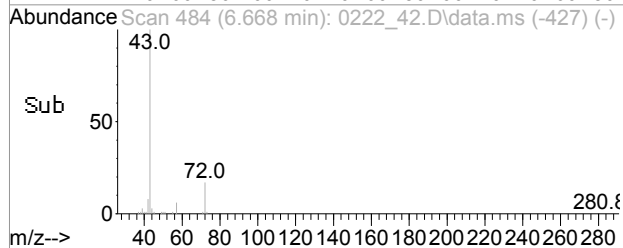
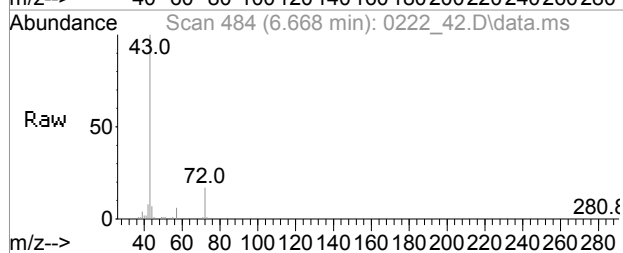
Tgt Ion: 76 Resp: 545419
Ion Ratio Lower Upper
76 100
78 9.2 7.3 10.9





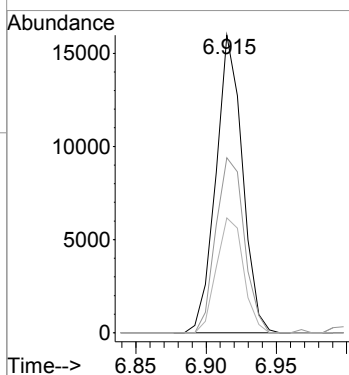
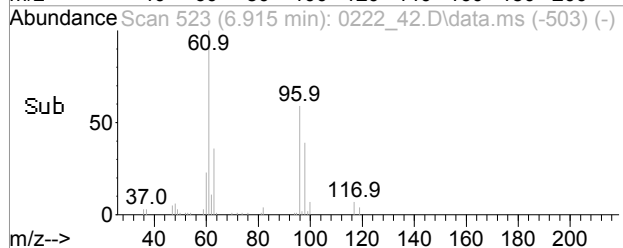
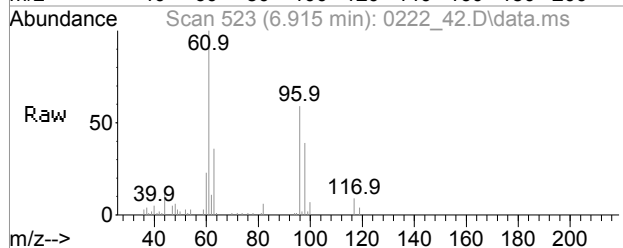
#24
Methyl Ethyl Ketone
Concen: 2.27 ppbv
RT: 6.668 min Scan# 484
Delta R.T. -0.005 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

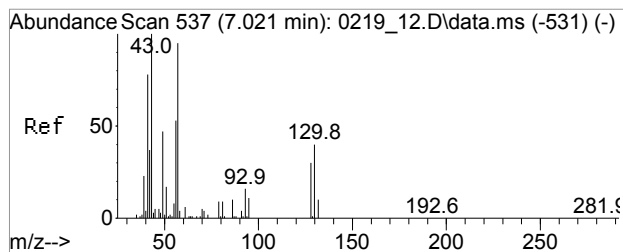
Tgt Ion: 43 Resp: 78595
Ion Ratio Lower Upper
43 100
72 17.1 15.9 23.9
57 6.6 5.6 8.4



#25
Cis-1,2-Dichloroethene
Concen: 0.96 ppbv
RT: 6.915 min Scan# 523
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

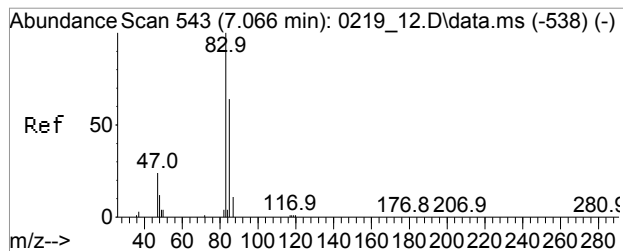
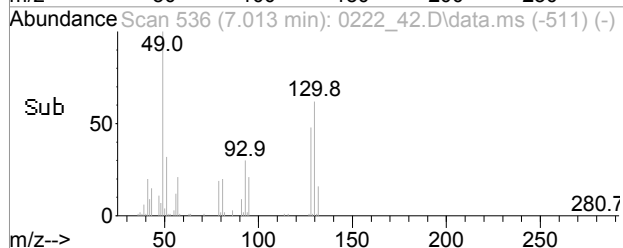
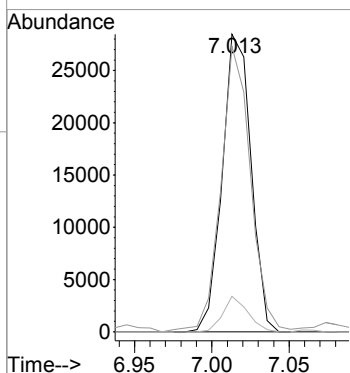
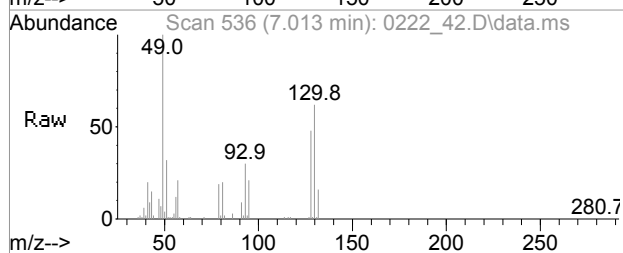
Tgt Ion: 61 Resp: 21083
Ion Ratio Lower Upper
61 100
96 62.8 55.1 82.7
98 39.4 35.7 53.5





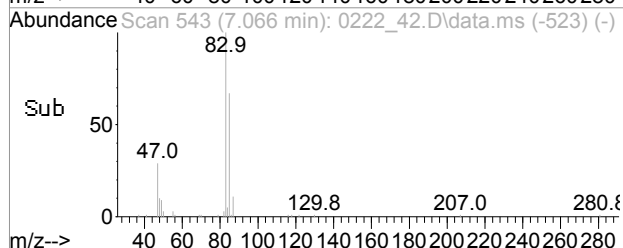
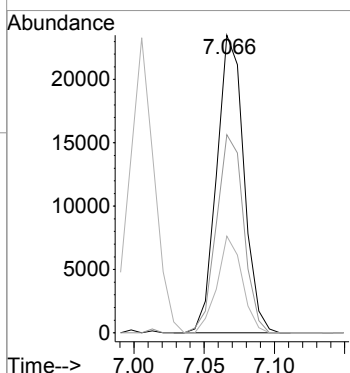
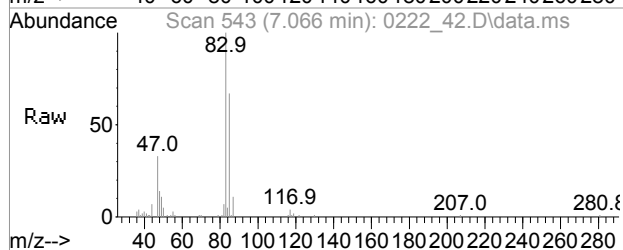
#26
Hexane
Concen: 2.02 ppbv
RT: 7.013 min Scan# 536
Delta R.T. -0.008 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

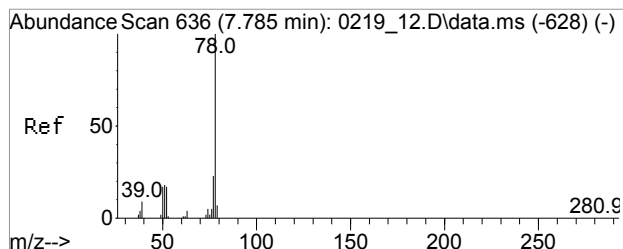
Tgt Ion: 57 Resp: 36769
Ion Ratio Lower Upper
57 100
41 98.9 67.4 101.2
86 10.4 9.3 13.9



#27
Chloroform
Concen: 0.95 ppbv
RT: 7.066 min Scan# 543
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

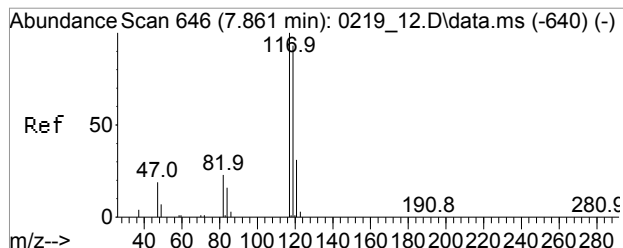
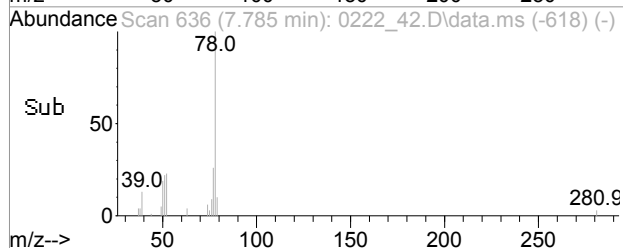
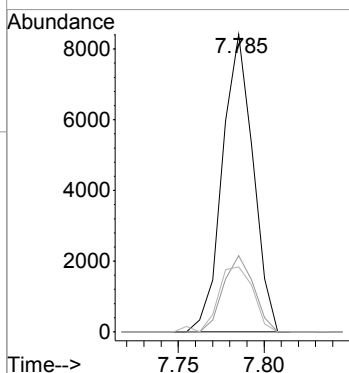
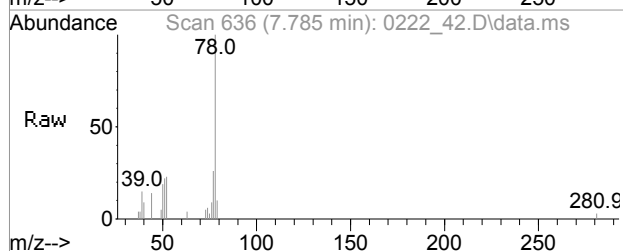
Tgt Ion: 83 Resp: 31642
Ion Ratio Lower Upper
83 100
85 66.8 46.0 86.0
47 30.0 4.6 44.6





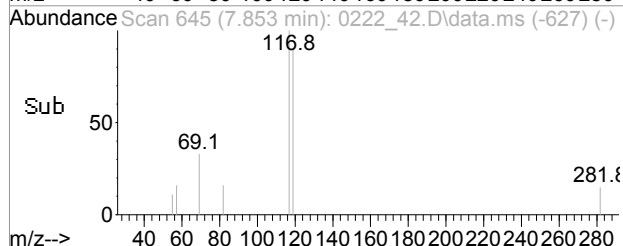
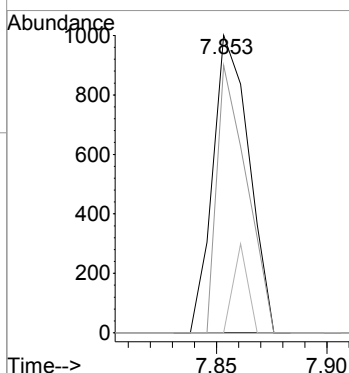
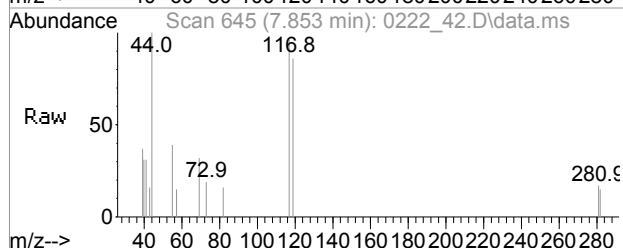
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Benzene
Concen: 0.34 ppbv
RT: 7.785 min Scan# 636
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

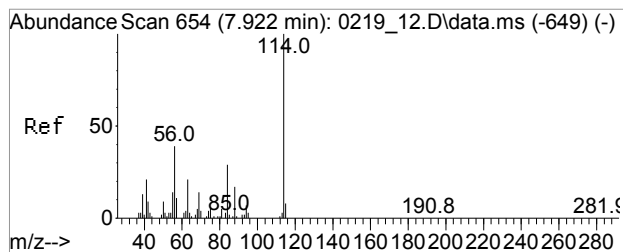
Tgt Ion: 78 Resp: 10444
Ion Ratio Lower Upper
78 100
77 25.5 18.6 27.8
51 25.2 14.9 22.3#



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.853 min Scan# 645
Delta R.T. -0.008 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

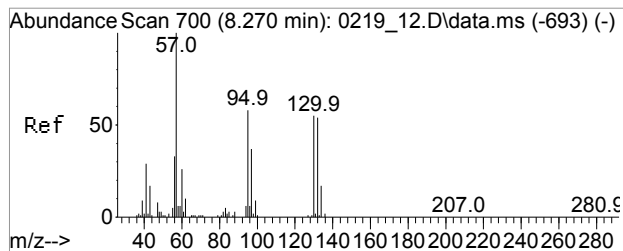
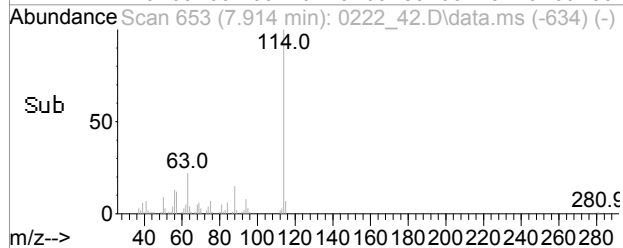
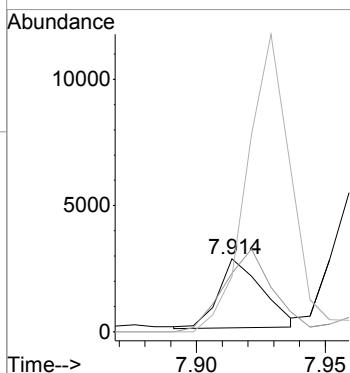
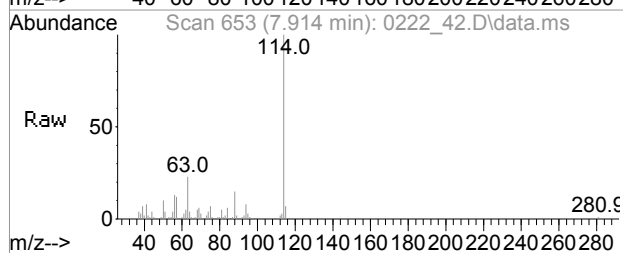
Tgt Ion: 117 Resp: 1138
Ion Ratio Lower Upper
117 100
119 73.7 75.9 115.9#
121 12.0 10.8 50.8





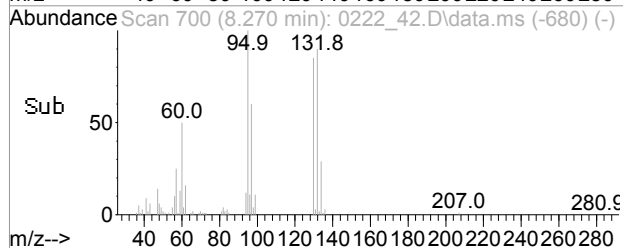
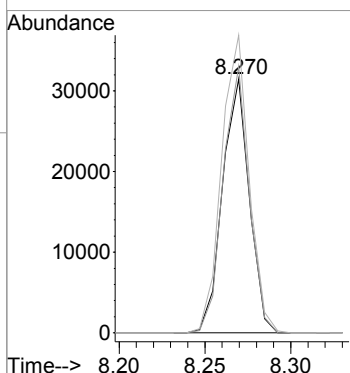
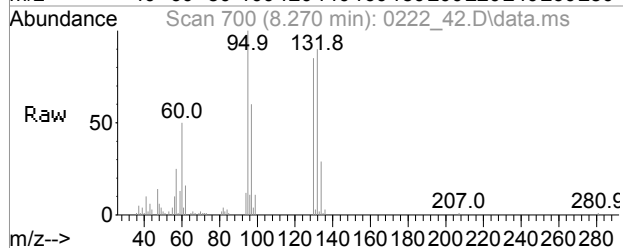
#34
Cyclohexane
Concen: 0.41 ppbv m
RT: 7.914 min Scan# 653
Delta R.T. -0.008 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

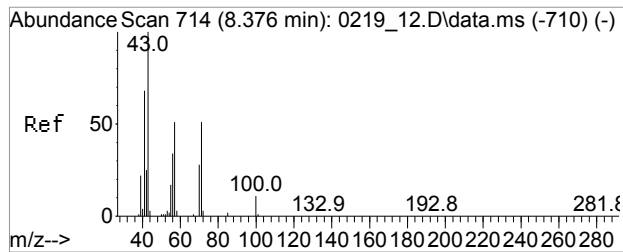
Tgt Ion: 41 Resp: 3256
Ion Ratio Lower Upper
41 100
84 134.2 111.0 166.6
69 439.1 52.8 79.2#



#38
Trichloroethene
Concen: 2.62 ppbv
RT: 8.270 min Scan# 700
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

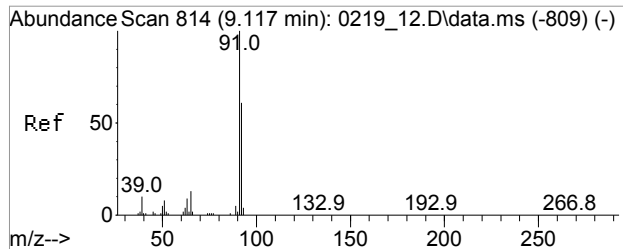
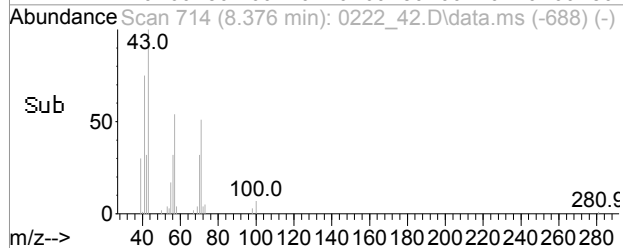
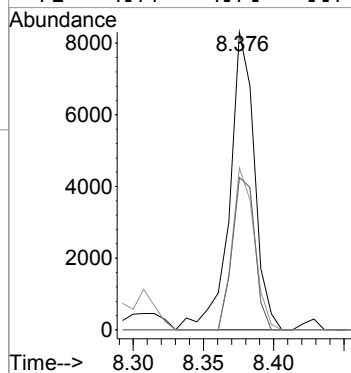
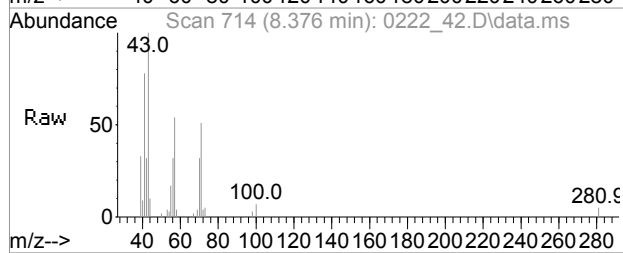
Tgt Ion: 130 Resp: 34132
Ion Ratio Lower Upper
130 100
132 101.9 77.2 115.8
95 120.6 82.7 124.1





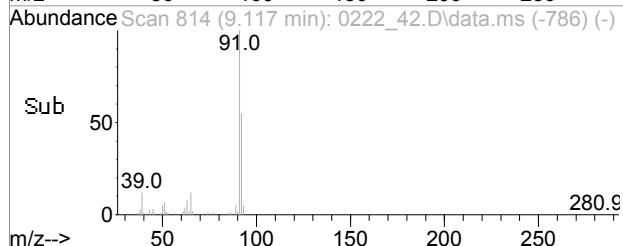
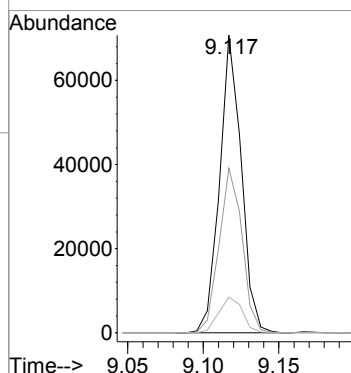
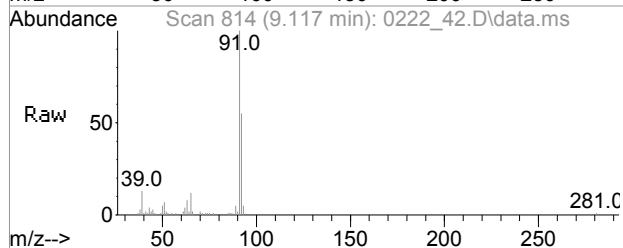
#42
Heptane
Concen: 0.84 ppbv
RT: 8.376 min Scan# 714
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

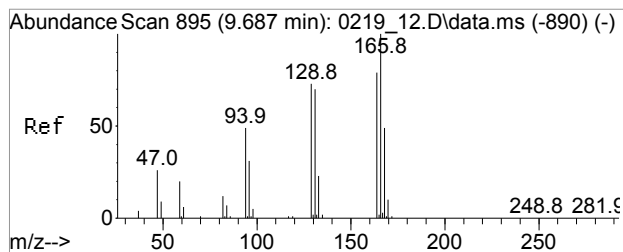
Tgt Ion:	43	Resp:	10191
Ion	Ratio	Lower	Upper
43	100		
57	48.7	43.0	64.4
71	46.7	43.6	65.4
71	46.7	43.6	65.4



#47
Toluene
Concen: 2.51 ppbv
RT: 9.117 min Scan# 814
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

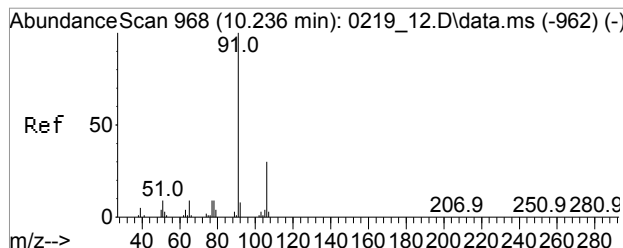
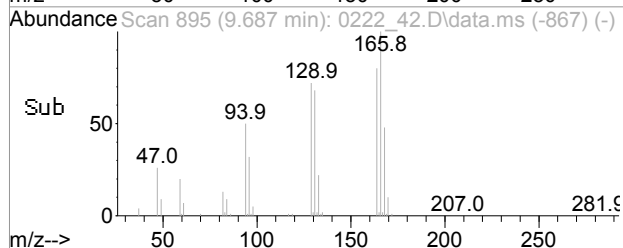
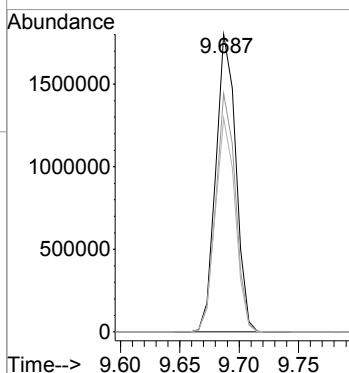
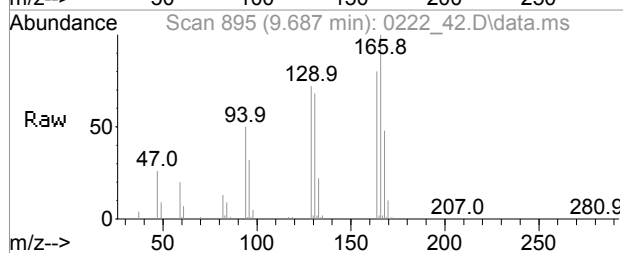
Tgt Ion:	91	Resp:	70725
Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.7	71.5
65	13.1	9.5	14.3





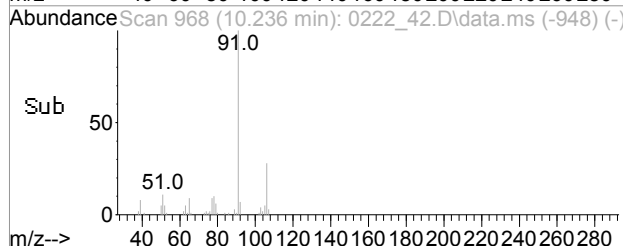
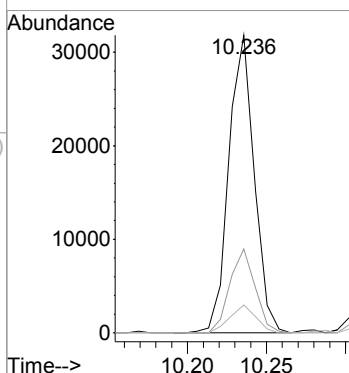
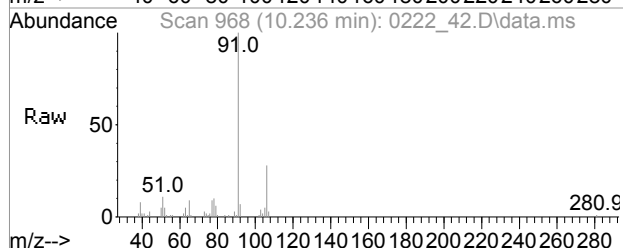
#51
Tetrachloroethene
Concen: 111.32 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

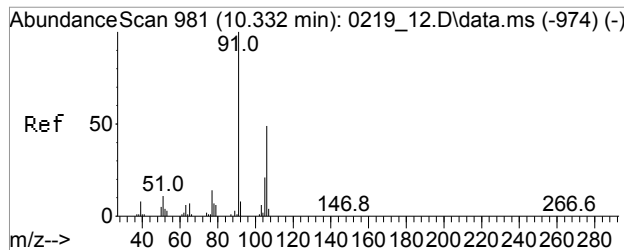
Tgt Ion: 166 Resp: 2100989
Ion Ratio Lower Upper
166 100
164 78.7 62.2 93.4
129 71.3 56.6 84.8



#55
Ethylbenzene
Concen: 0.82 ppbv
RT: 10.236 min Scan# 968
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

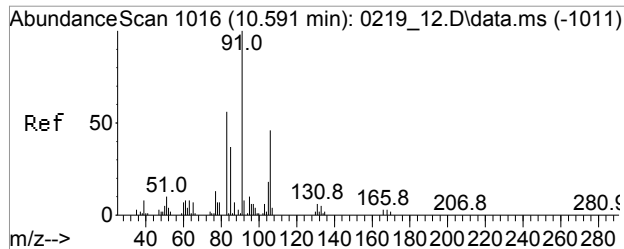
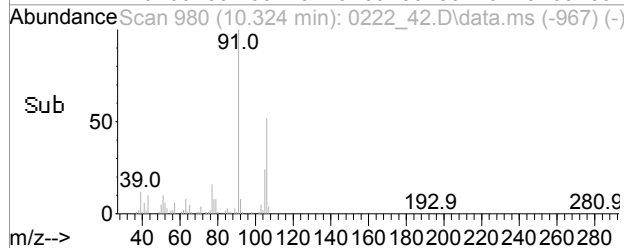
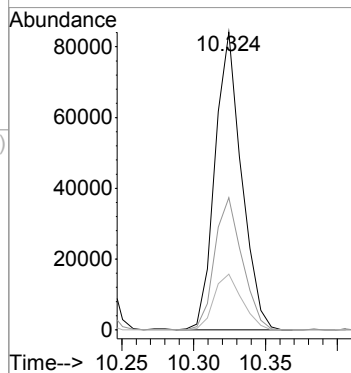
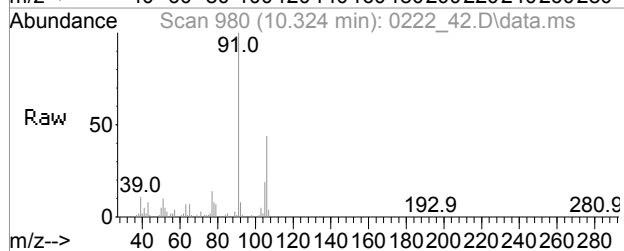
Tgt Ion: 91 Resp: 35649
Ion Ratio Lower Upper
91 100
106 28.1 10.8 50.8
77 9.6 0.0 28.9





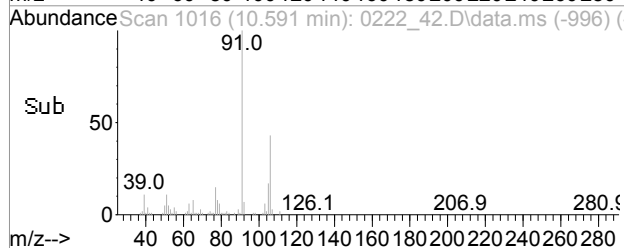
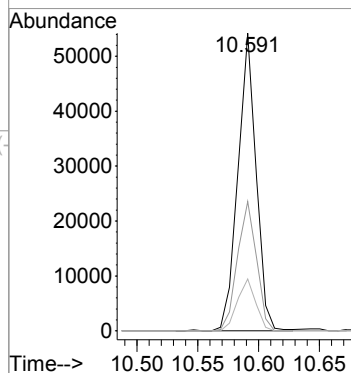
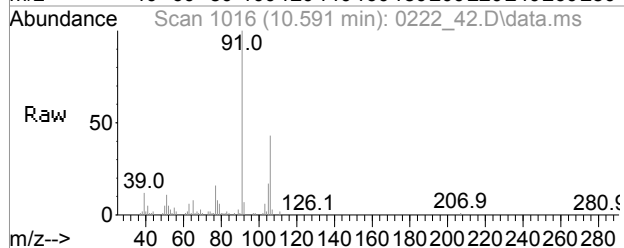
#56
m,p-Xylene
Concen: 3.30 ppbv
RT: 10.324 min Scan# 980
Delta R.T. -0.001 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

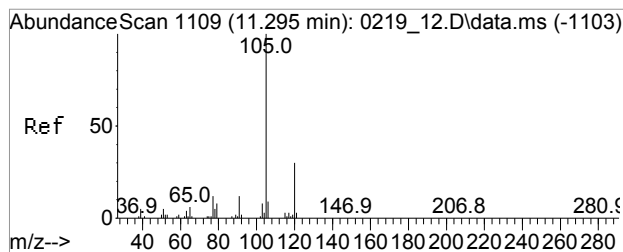
Tgt Ion: 91 Resp: 108035
Ion Ratio Lower Upper
91 100
106 46.1 38.7 58.1
105 19.8 16.6 25.0



#60
o-Xylene
Concen: 1.60 ppbv
RT: 10.591 min Scan# 1016
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

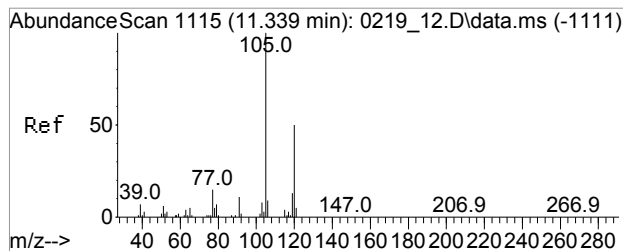
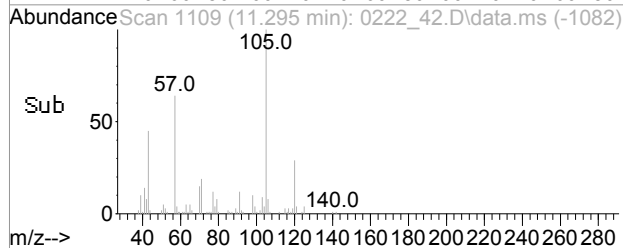
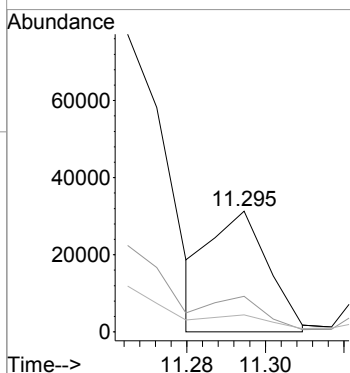
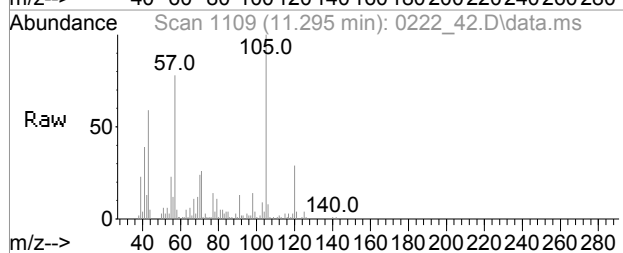
Tgt Ion: 91 Resp: 56511
Ion Ratio Lower Upper
91 100
106 45.4 37.4 56.2
105 17.5 14.1 21.1





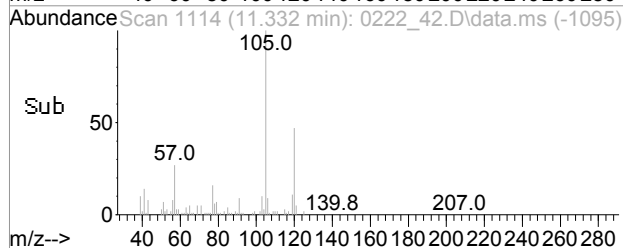
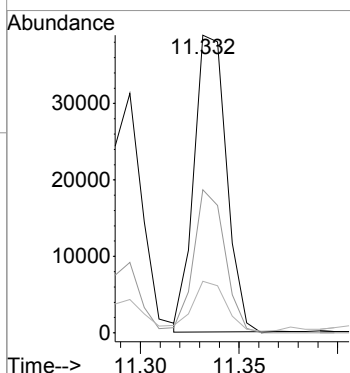
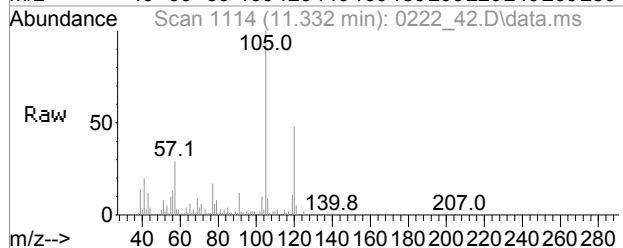
#65
4-Ethyltoluene
Concen: 0.66 ppbv m
RT: 11.295 min Scan# 1109
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

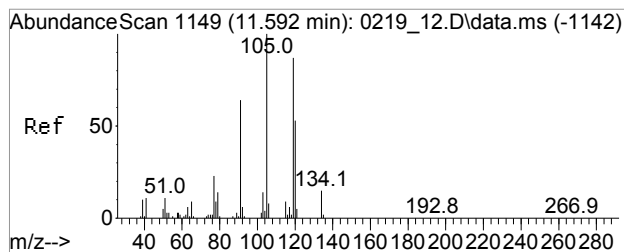
Tgt Ion:105 Resp: 32068
Ion Ratio Lower Upper
105 100
120 103.8 23.3 34.9#
77 52.7 10.0 15.0#



#66
1,3,5-Trimethylbenzene
Concen: 1.10 ppbv
RT: 11.332 min Scan# 1114
Delta R.T. -0.007 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

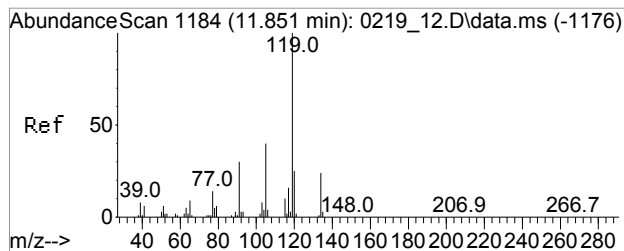
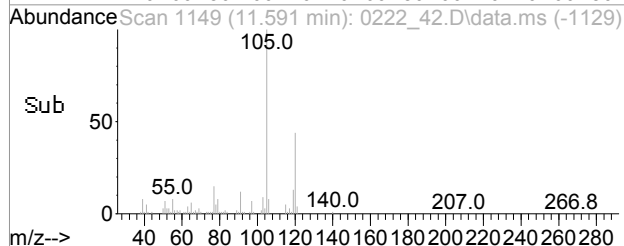
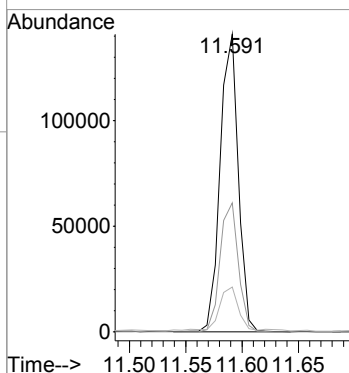
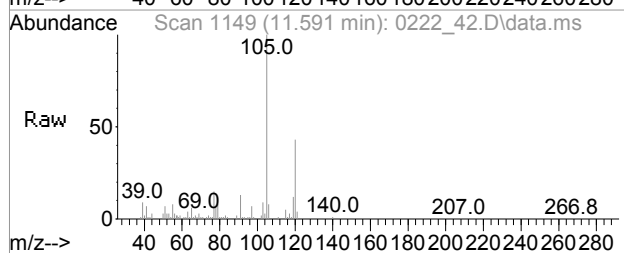
Tgt Ion:105 Resp: 44506
Ion Ratio Lower Upper
105 100
120 47.0 38.6 57.8
77 17.8 11.3 16.9#





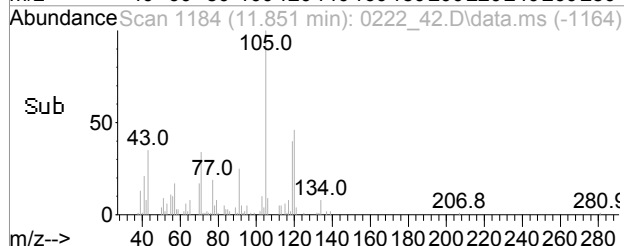
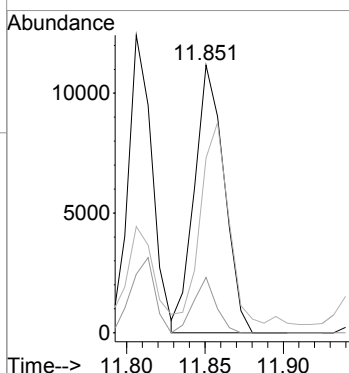
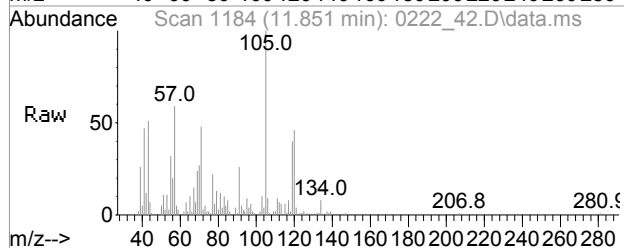
#67
1,2,4-Trimethylbenzene
Concen: 4.19 ppbv
RT: 11.591 min Scan# 1149
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

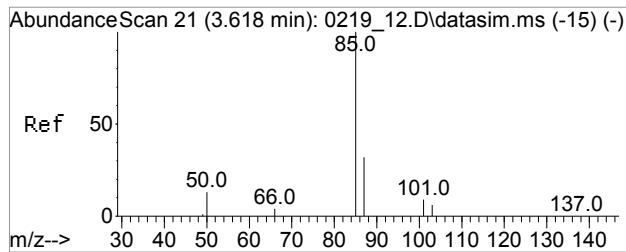
Tgt Ion:105 Resp: 156623
Ion Ratio Lower Upper
105 100
120 43.6 43.5 65.3
77 16.5 20.2 30.4#



#73
4-Isopropyltoluene
Concen: 0.30 ppbv m
RT: 11.851 min Scan# 1184
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

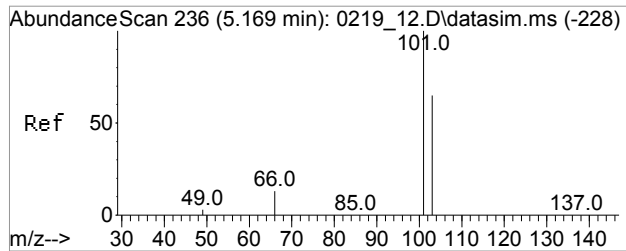
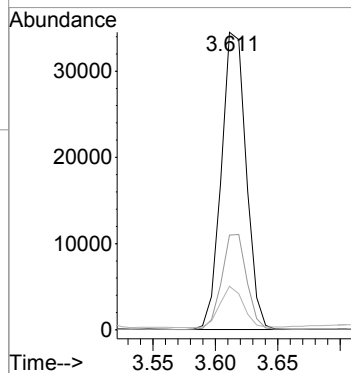
Tgt Ion:119 Resp: 14791
Ion Ratio Lower Upper
119 100
134 22.3 18.2 27.4
91 29.8 25.8 38.8





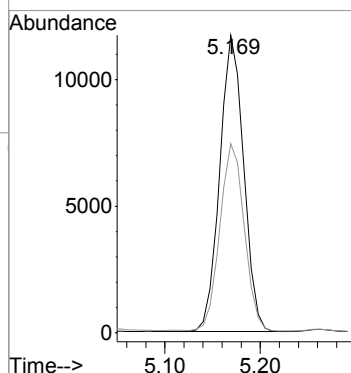
#80
Dichlorodifluoromethane(sim)
Concen: 0.63 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

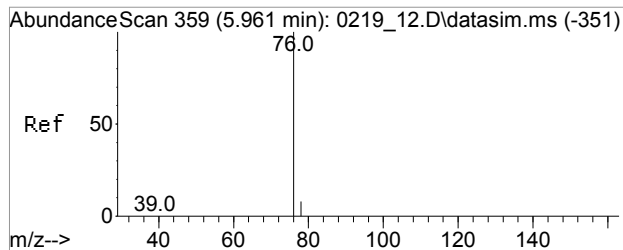
Tgt Ion: 85 Resp: 47371
Ion Ratio Lower Upper
85 100
87 32.1 12.7 52.7
50 13.3 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.30 ppbv
RT: 5.169 min Scan# 236
Delta R.T. -0.007 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

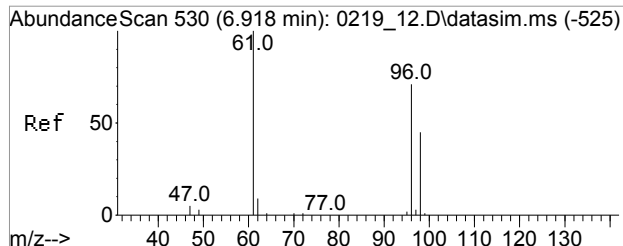
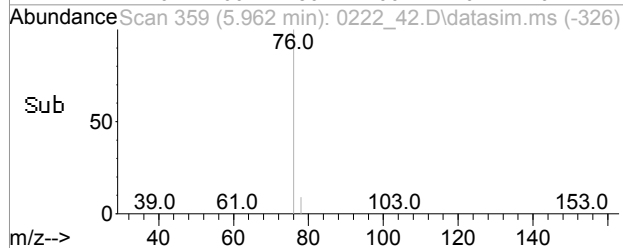
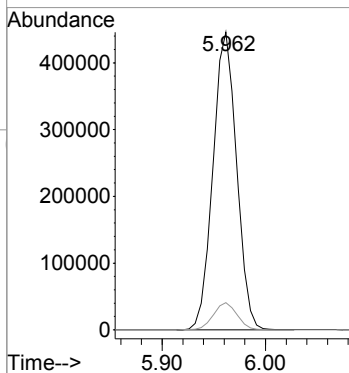
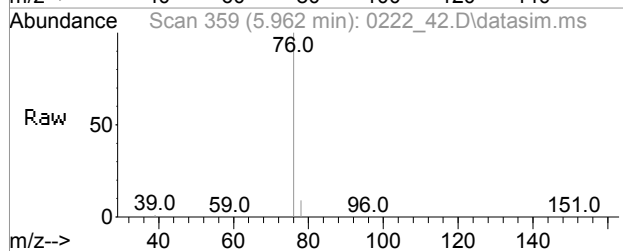
Tgt Ion: 101 Resp: 20363
Ion Ratio Lower Upper
101 100
103 64.5 52.0 78.0





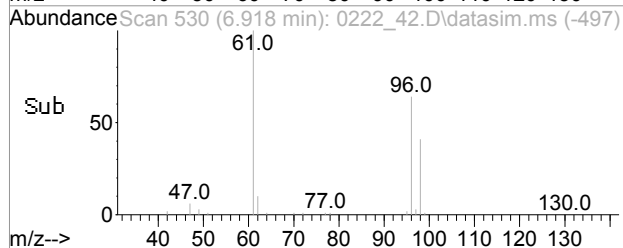
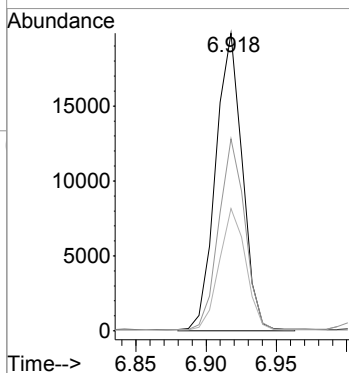
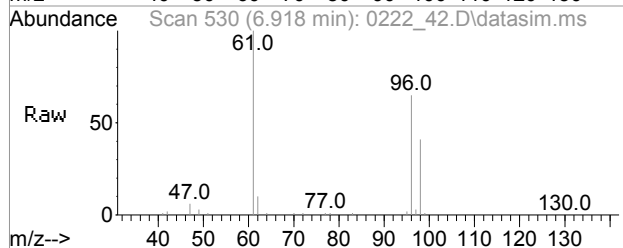
#89
Carbon Disulfide(sim)
Concen: 9.46 ppbv
RT: 5.959 min Scan# 359
Delta R.T. -0.005 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

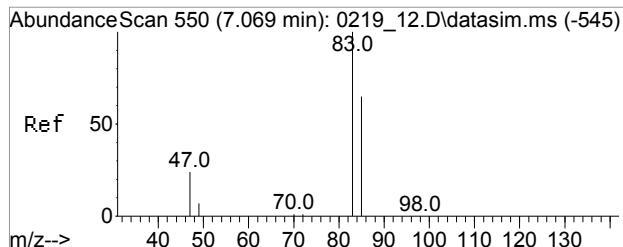
Tgt Ion: 76 Resp: 545419
Ion Ratio Lower Upper
76 100
78 9.2 7.3 10.9



#93
Cis-1,2-Dichloroethene(sim)
Concen: 0.91 ppbv
RT: 6.915 min Scan# 530
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

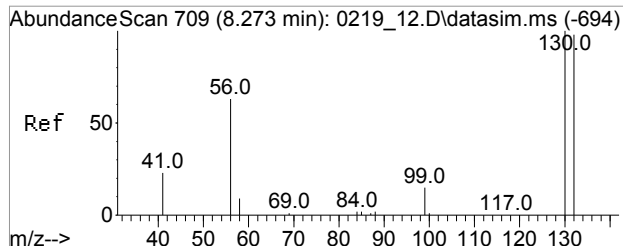
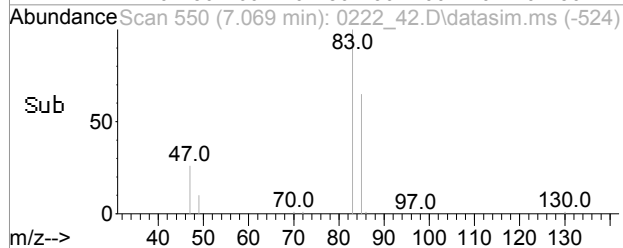
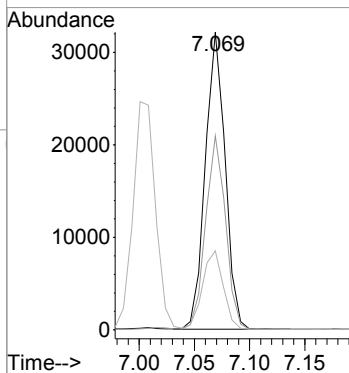
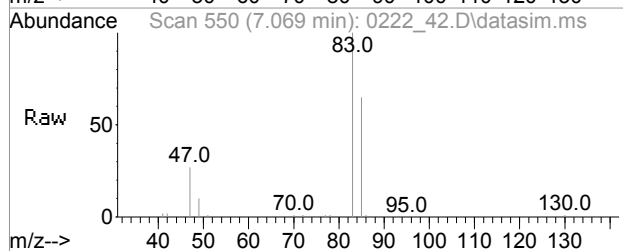
Tgt Ion: 61 Resp: 21083
Ion Ratio Lower Upper
61 100
96 62.8 55.1 82.7
98 39.4 35.7 53.5





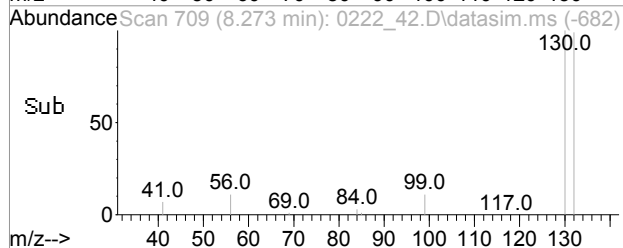
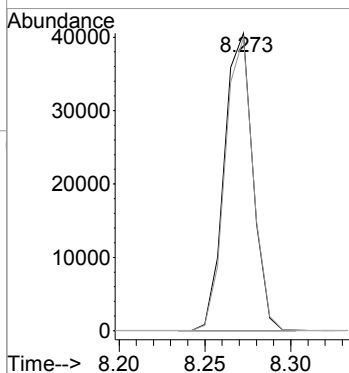
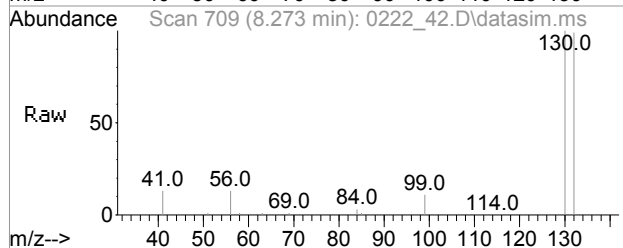
#94
Chloroform(sim)
Concen: 0.98 ppbv
RT: 7.069 min Scan# 550
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

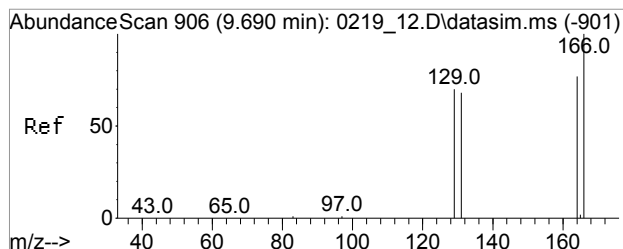
Tgt Ion: 83 Resp: 40277
Ion Ratio Lower Upper
83 100
85 65.2 62.7 67.9
47 27.7 19.4 29.0



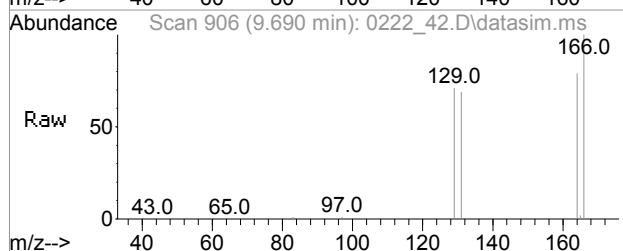
#99
Trichloroethene(sim)
Concen: 2.19 ppbv
RT: 8.270 min Scan# 709
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

Tgt Ion: 130 Resp: 34132
Ion Ratio Lower Upper
130 100
132 101.9 77.2 115.8
97 73.7 53.5 80.3

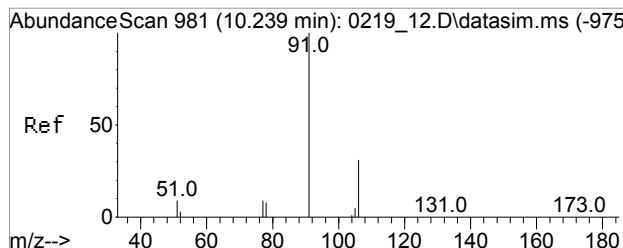
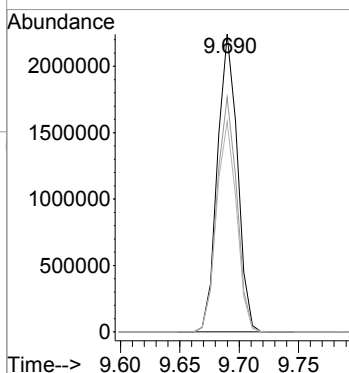
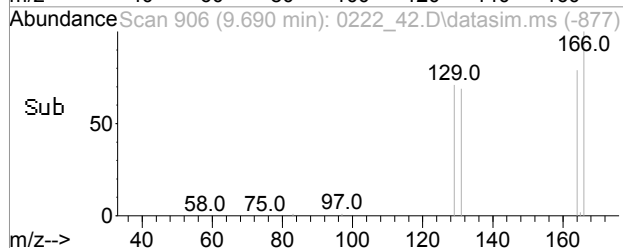




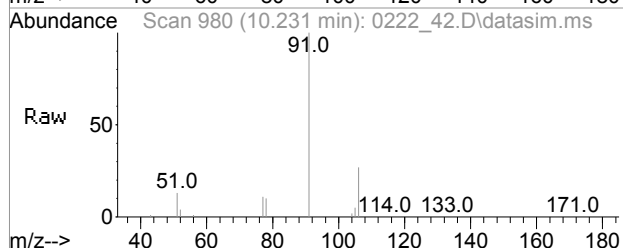
#105
Tetrachloroethene(sim)
Concen: 109.98 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm



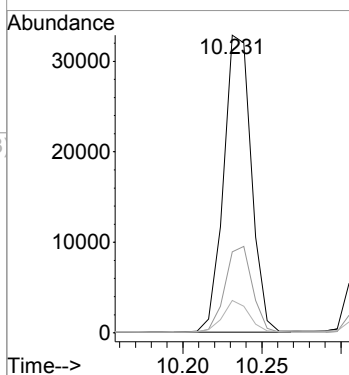
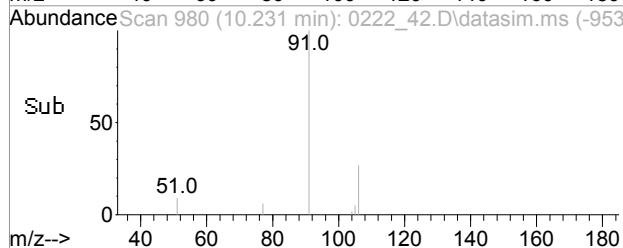
Tgt Ion:166 Resp: 2100989
Ion Ratio Lower Upper
166 100
164 78.7 57.8 97.8
129 71.3 50.7 90.7

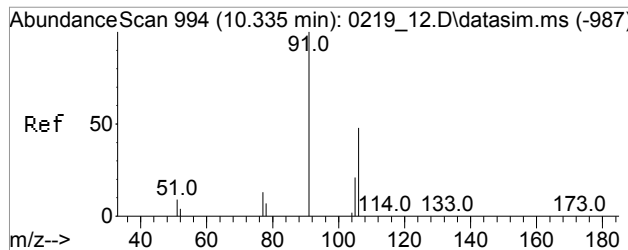


#110
Ethylbenzene(sim)
Concen: 0.77 ppbv
RT: 10.231 min Scan# 980
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm



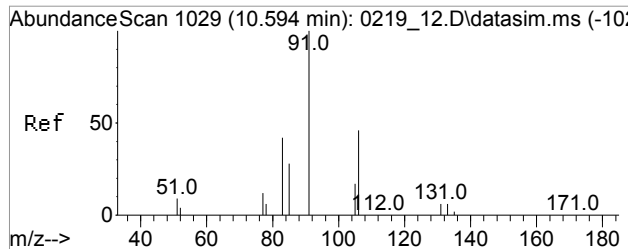
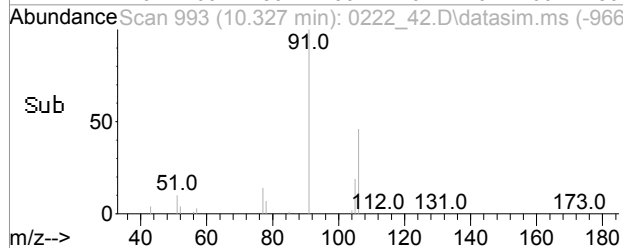
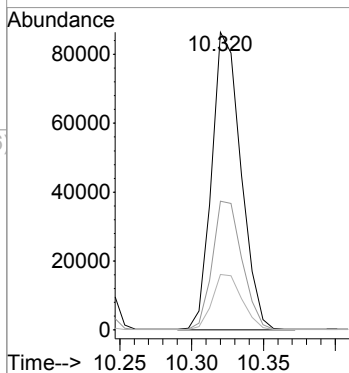
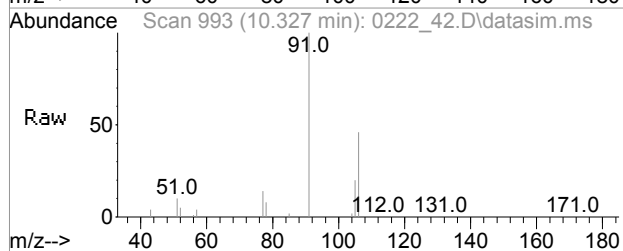
Tgt Ion: 91 Resp: 39948
Ion Ratio Lower Upper
91 100
106 28.5 24.0 36.0
77 10.1 7.3 10.9





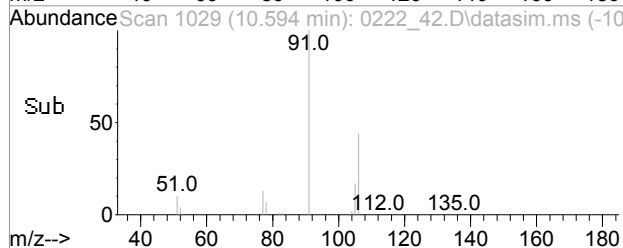
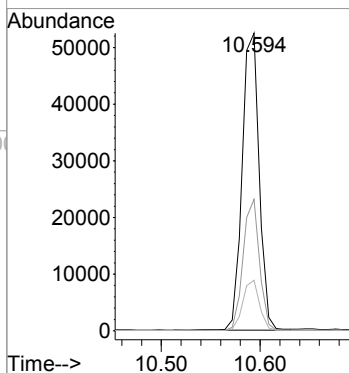
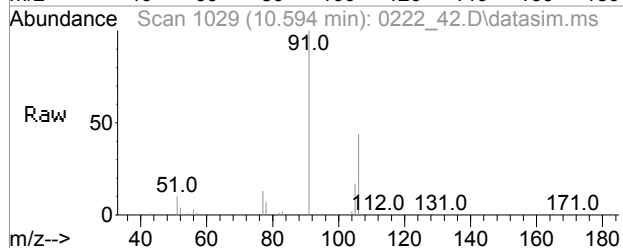
#111
m,p-Xylene(sim)
Concen: 2.86 ppbv
RT: 10.324 min Scan# 993
Delta R.T. -0.001 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

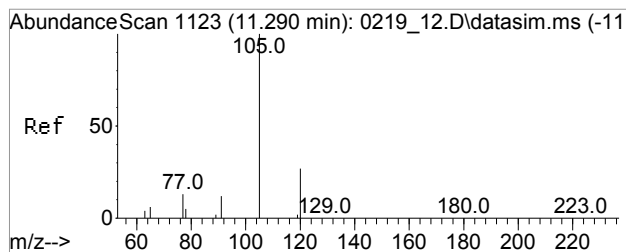
Tgt Ion: 91 Resp: 108035
Ion Ratio Lower Upper
91 100
106 46.1 43.6 53.2
105 19.8 16.6 25.0



#114
o-Xylene(sim)
Concen: 1.48 ppbv
RT: 10.594 min Scan# 1029
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

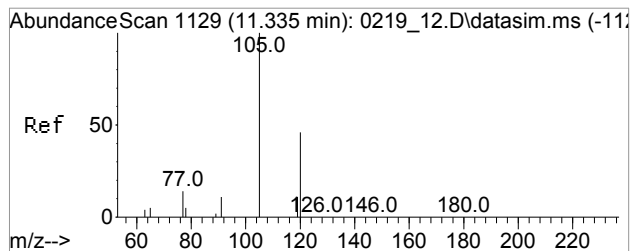
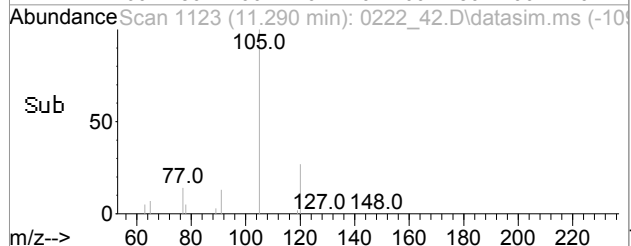
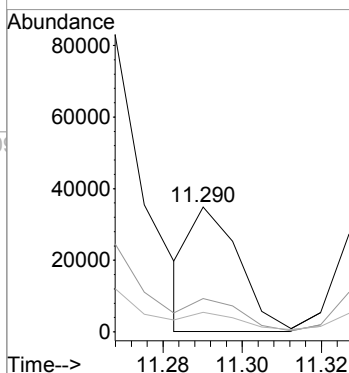
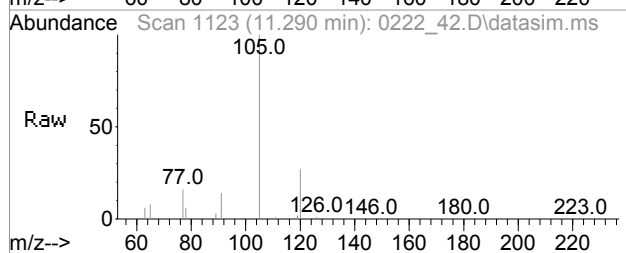
Tgt Ion: 91 Resp: 62519
Ion Ratio Lower Upper
91 100
106 42.4 36.0 54.0
105 16.5 13.8 20.8





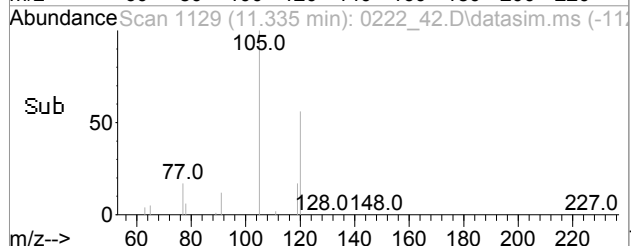
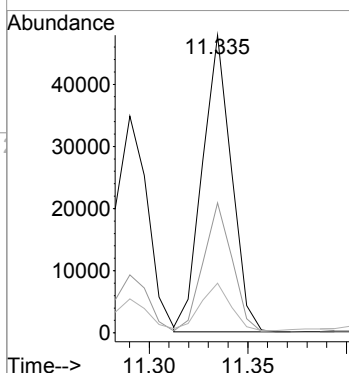
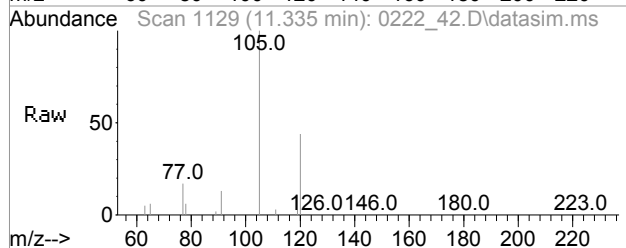
#117
4-Ethyltoluene(sim)
Concen: 0.54 ppbv m
RT: 11.290 min Scan# 1123
Delta R.T. -0.005 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

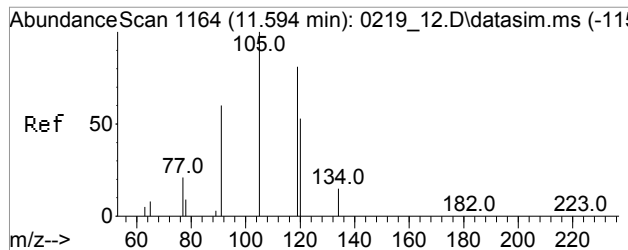
Tgt Ion:105 Resp: 29651
Ion Ratio Lower Upper
105 100
120 112.2 23.3 34.9#
77 57.0 10.0 15.0#



#118
1,3,5-Trimethylbenzene(sim)
Concen: 1.04 ppbv
RT: 11.335 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

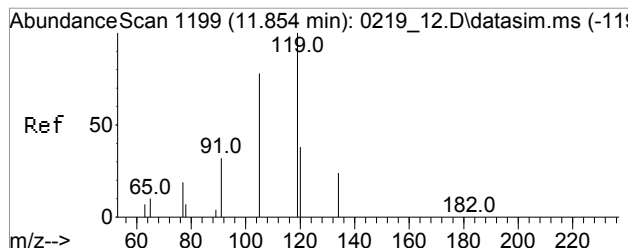
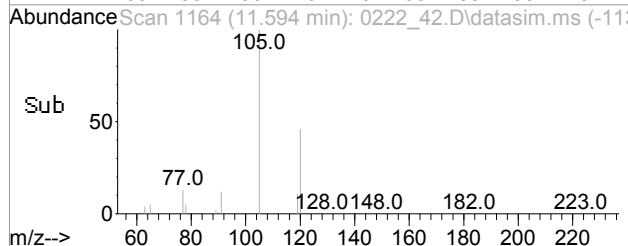
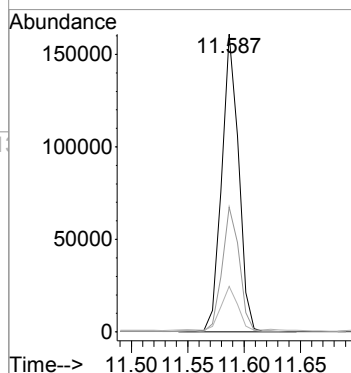
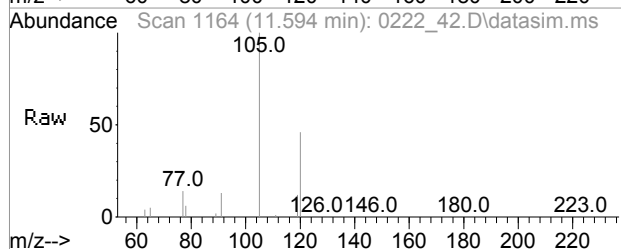
Tgt Ion:105 Resp: 49214
Ion Ratio Lower Upper
105 100
120 43.6 10.6 82.0
77 16.3 11.4 17.2





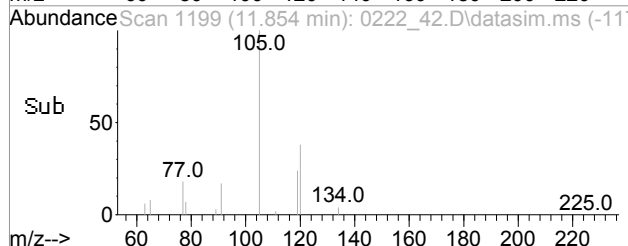
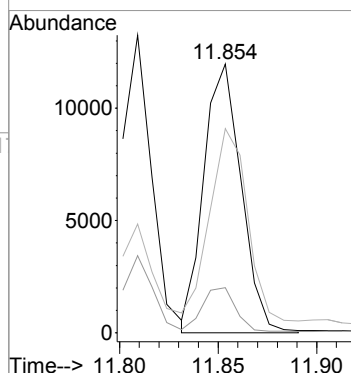
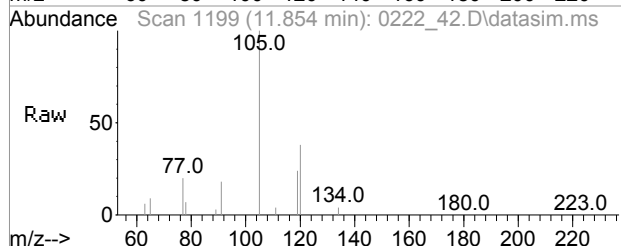
#119
1,2,4-Trimethylbenzene(sim)
Concen: 3.79 ppbv
RT: 11.591 min Scan# 1164
Delta R.T. 0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

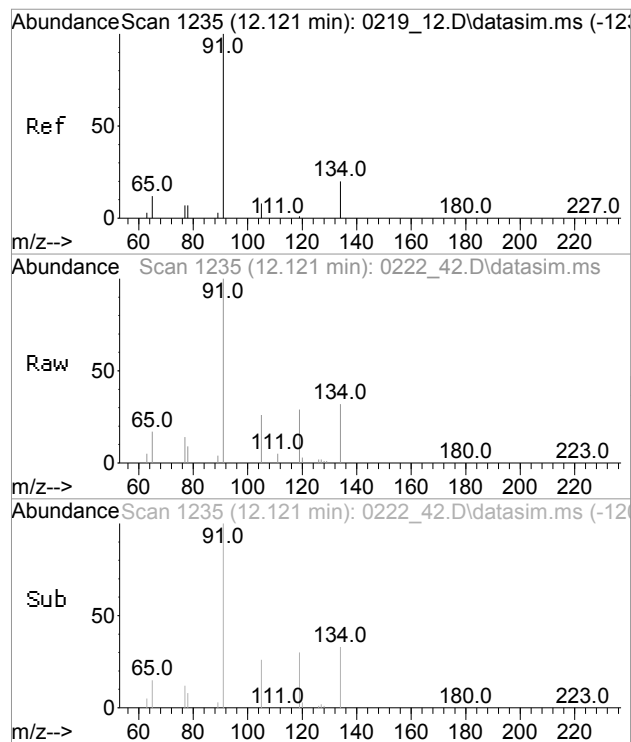
Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.6	43.5	65.3
77	16.5	20.2	30.4#



#125
4-Isopropyltoluene(sim)
Concen: 0.26 ppbv
RT: 11.851 min Scan# 1199
Delta R.T. -0.000 min
Lab File: 0222_42.D
Acq: 23 Feb 2016 02:58 pm

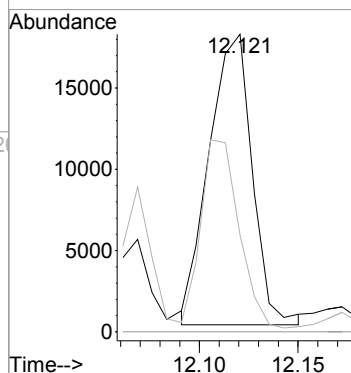
Tgt Ion	Ratio	Lower	Upper
119	100		
134	15.7	18.2	27.4#
91	69.2	25.8	38.8#





#127
 n-Butylbenzene(sim)
 Concen: 0.47 ppbv
 RT: 12.118 min Scan# 1235
 Delta R.T. -0.000 min
 Lab File: 0222_42.D
 Acq: 23 Feb 2016 02:58 pm

Tgt Ion: 91 Resp: 24126
 Ion Ratio Lower Upper
 91 100
 92 39.3 33.1 73.1
 134 66.4 1.7 41.7#



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67668 10X
Canister:	172	Lab File ID:	0222_40.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200 (cc)	Date Received:	02/19/16
		Date Analyzed:	02/23/16
Matrix:	AIR	Dilution Factor:	10

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent
This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_40.D
 Acq On : 23 Feb 2016 01:10 pm
 Operator : CORTEX\ms
 Client ID : SS-7 DIL
 Lab ID : BK67668 10X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 15:17:47 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

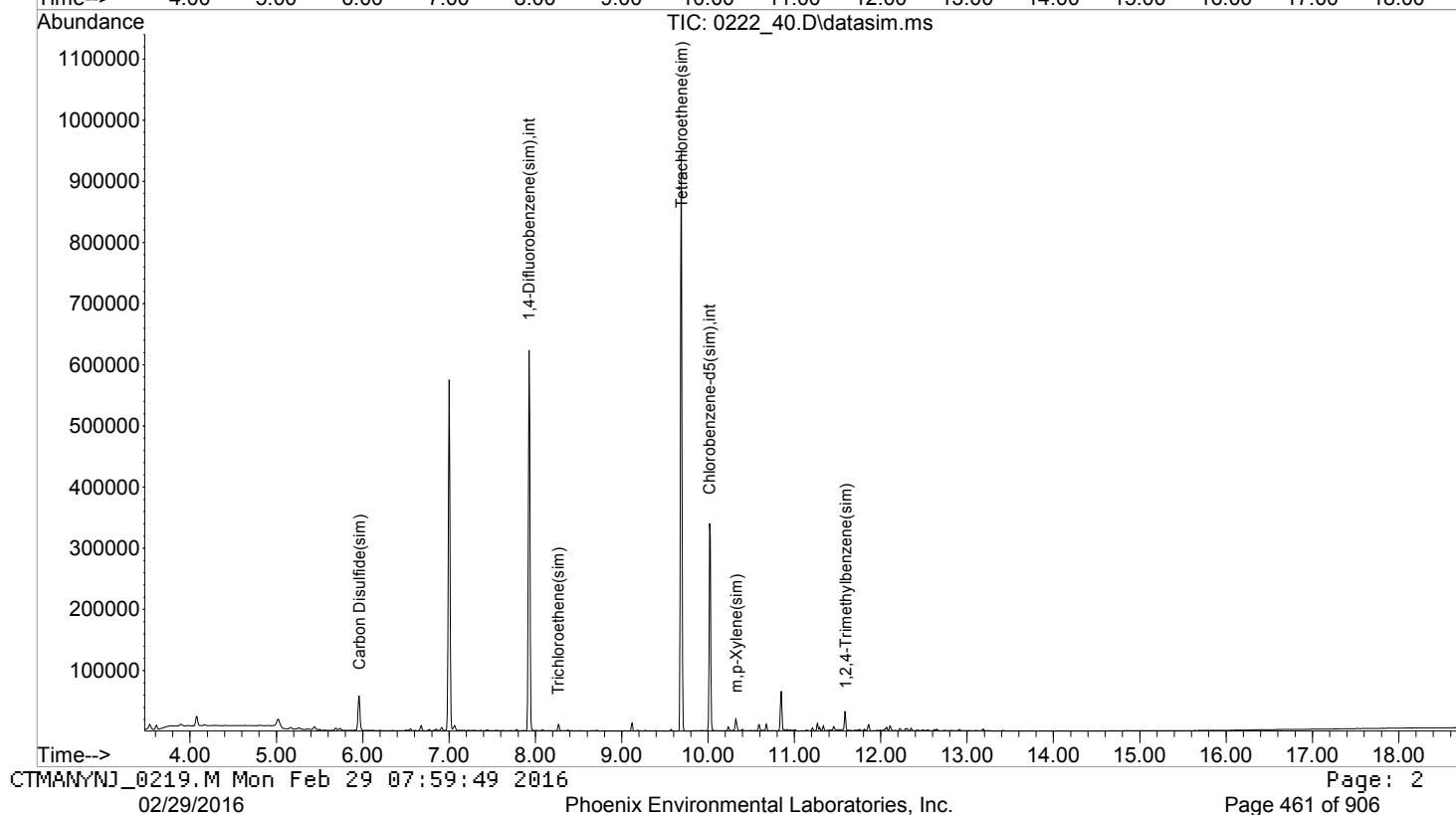
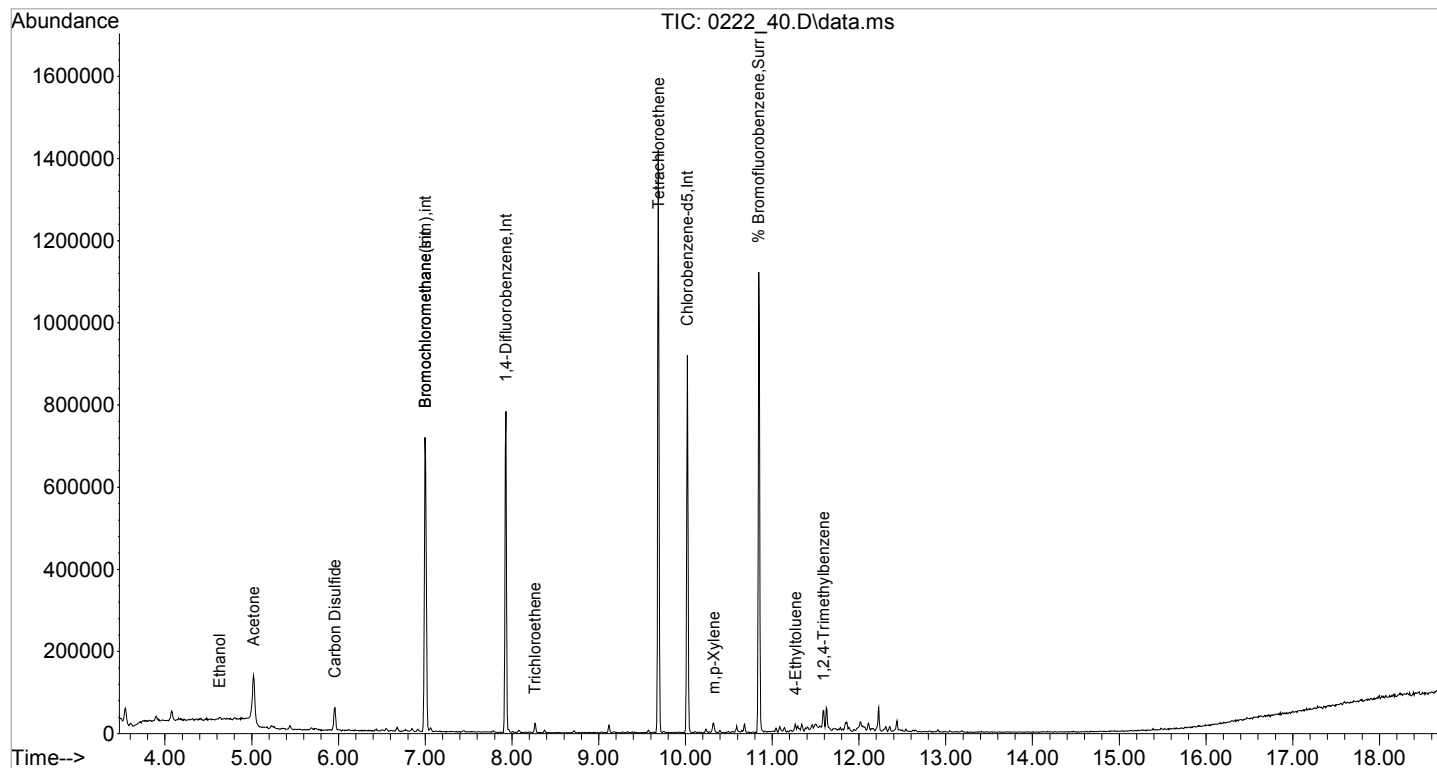
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

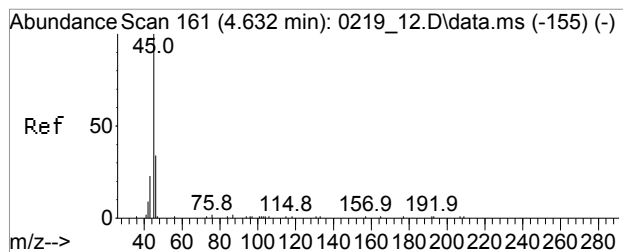
Internal Standards						
1) Bromochloromethane	6.998	130	149333	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	391325	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	174039	10.000	ng	0.00
79) Bromochloromethane(sim)	6.998	130	149333	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	482857	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	189906	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	251390	10.939	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 109.40%		
Target Compounds						
					Qvalue	
10) Ethanol	4.632	45	5952	1.258	ppbv#	89
11) Acetone	5.022	43	160270	6.029	ppbv	92
19) Carbon Disulfide	5.959	76	61439	1.019	ppbv	96
38) Trichloroethene	8.263	130	4037	0.297	ppbv	95
51) Tetrachloroethene	9.688	166	247800	12.565	ppbv	98
56) m,p-Xylene	10.325	91	10486	0.329	ppbv	93
65) 4-Ethyltoluene	11.265	105	9848	0.207	ppbv#	95
67) 1,2,4-Trimethylbenzene	11.592	105	14190	0.390	ppbv	94
89] Carbon Disulfide(sim)	5.959	76	61439	1.013	ppbv	96
99] Trichloroethene(sim)	8.263	130	4037	0.244	ppbv	94
105] Tetrachloroethene(sim)	9.688	166	247800	12.204	ppbv	98
111] m,p-Xylene(sim)	10.325	91	10486	0.282	ppbv#	93
119] 1,2,4-Trimethylbenzene...	11.592	105	14190	0.350	ppbv	94

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_40.D
Acq On : 23 Feb 2016 01:10 pm
Operator : CORTEX\ms
Client ID : SS-7 DIL
Lab ID : BK67668 10X
ALS Vial : 1 Sample Multiplier: 1

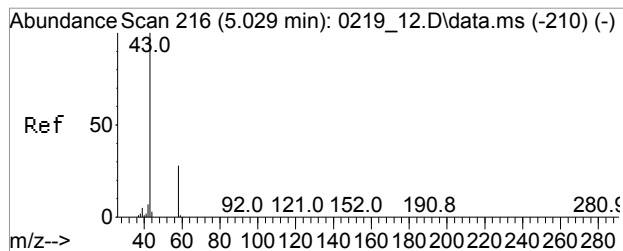
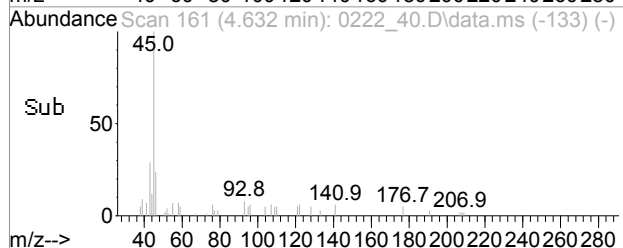
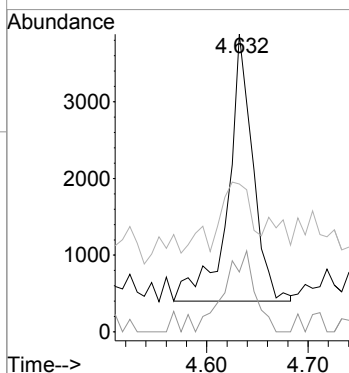
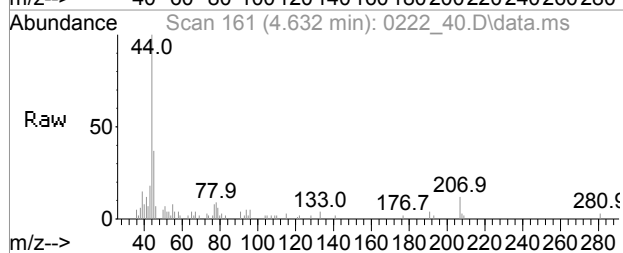
Quant Time: Feb 23 15:17:47 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





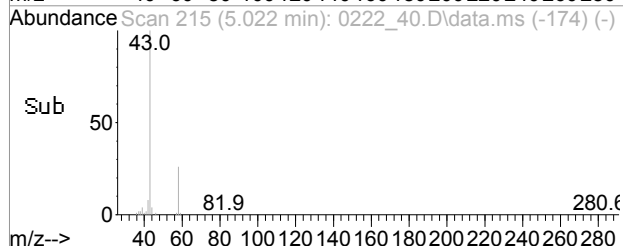
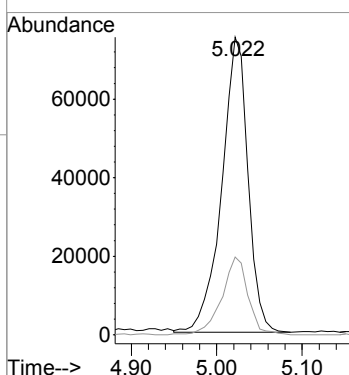
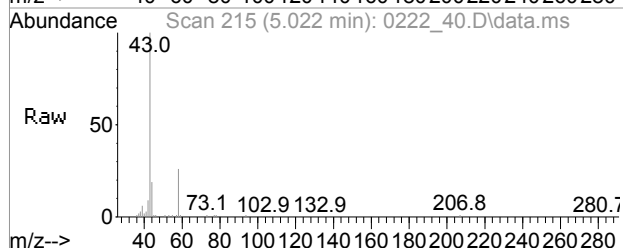
#10
Ethanol
Concen: 1.26 ppbv
RT: 4.632 min Scan# 161
Delta R.T. 0.000 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

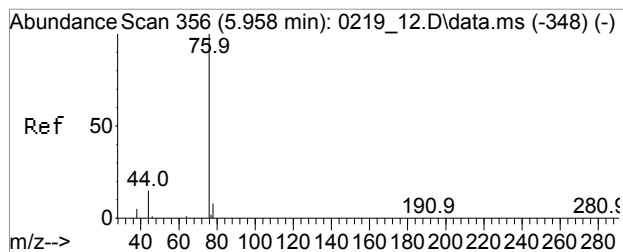
Tgt Ion: 45 Resp: 5952
Ion Ratio Lower Upper
45 100
46 37.2 28.5 42.7
43 36.4 19.7 29.5#



#11
Acetone
Concen: 6.03 ppbv
RT: 5.022 min Scan# 215
Delta R.T. -0.007 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

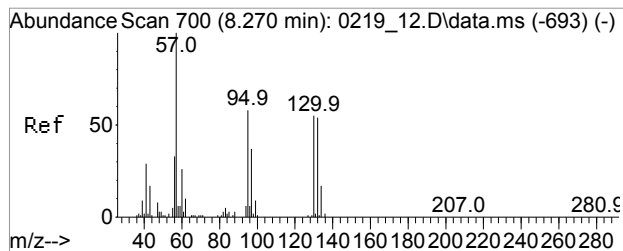
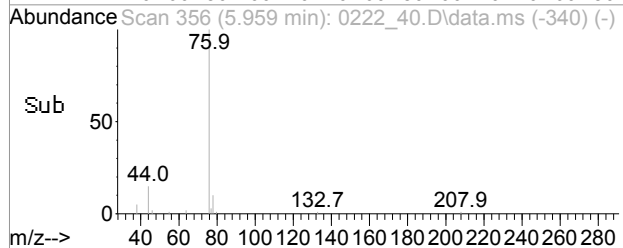
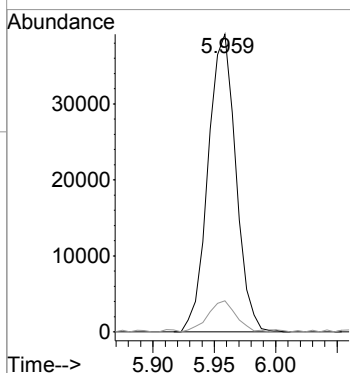
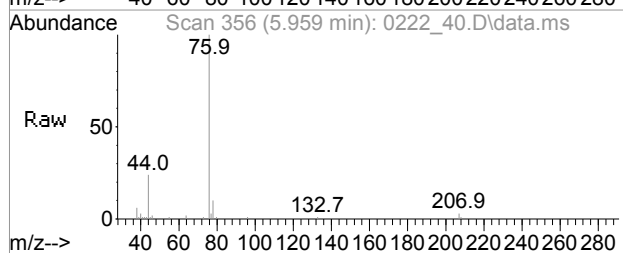
Tgt Ion: 43 Resp: 160270
Ion Ratio Lower Upper
43 100
58 26.5 24.8 37.2





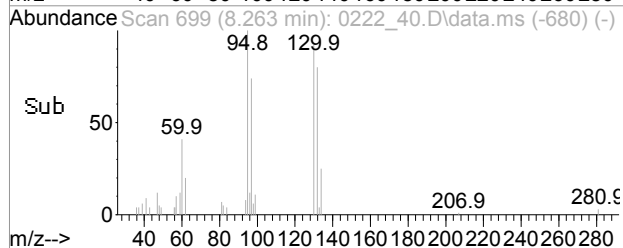
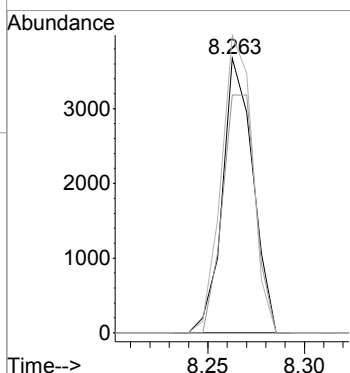
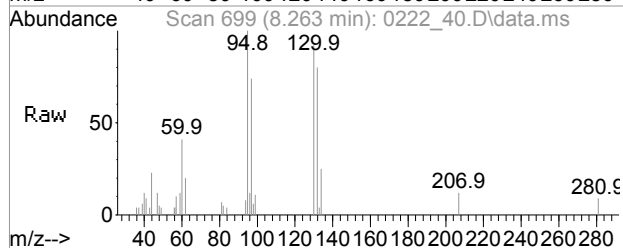
#19
Carbon Disulfide
Concen: 1.02 ppbv
RT: 5.959 min Scan# 356
Delta R.T. -0.005 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

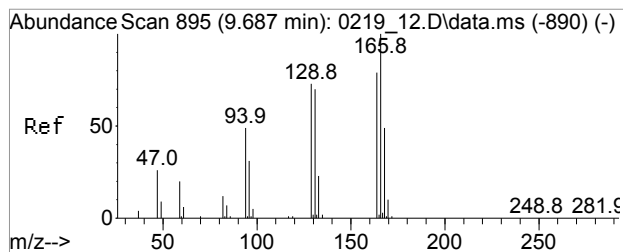
Tgt Ion: 76 Resp: 61439
Ion Ratio Lower Upper
76 100
78 10.7 7.3 10.9



#38
Trichloroethene
Concen: 0.30 ppbv
RT: 8.263 min Scan# 699
Delta R.T. -0.007 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

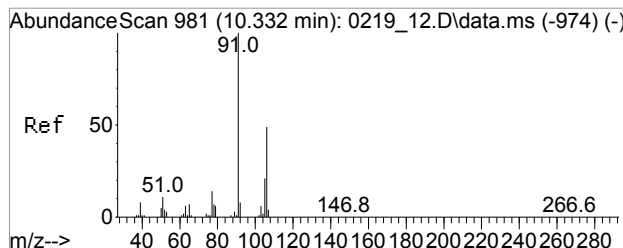
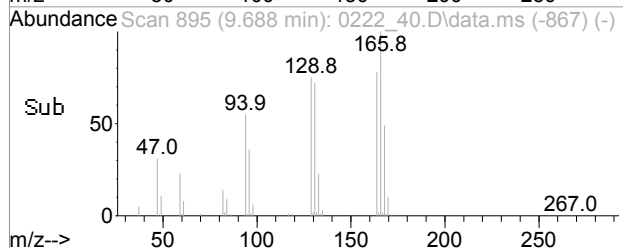
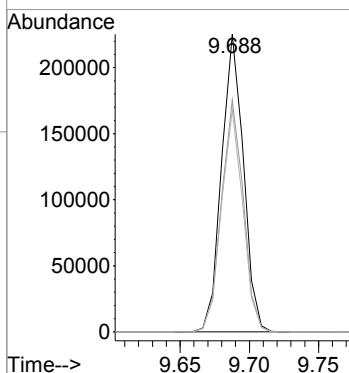
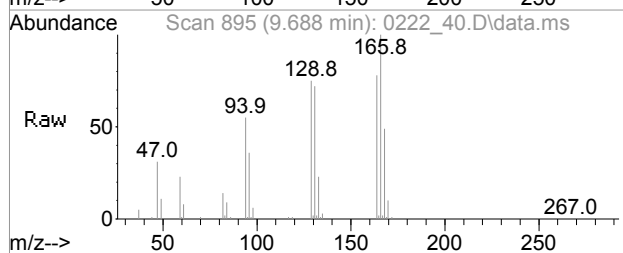
Tgt Ion: 130 Resp: 4037
Ion Ratio Lower Upper
130 100
132 94.1 77.2 115.8
95 110.7 82.7 124.1





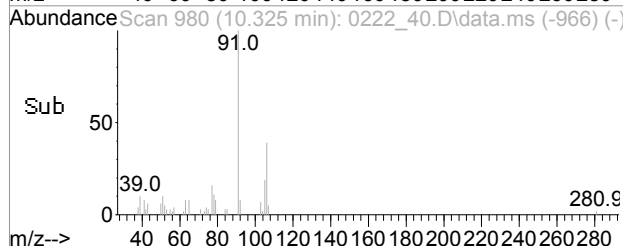
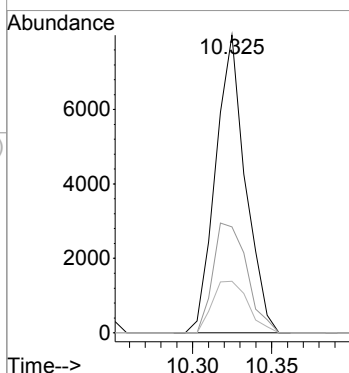
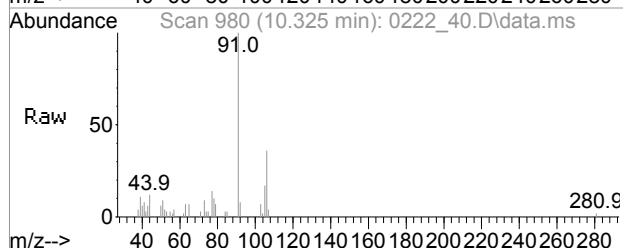
#51
Tetrachloroethene
Concen: 12.56 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

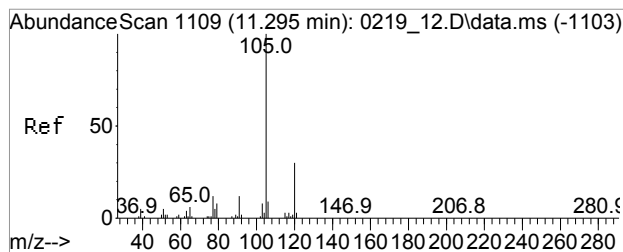
Tgt Ion: 166 Resp: 247800
Ion Ratio Lower Upper
166 100
164 77.7 62.2 93.4
129 73.6 56.6 84.8



#56
m,p-Xylene
Concen: 0.33 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

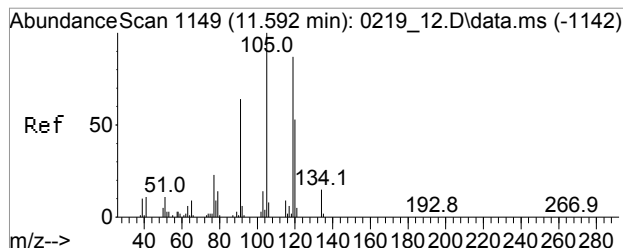
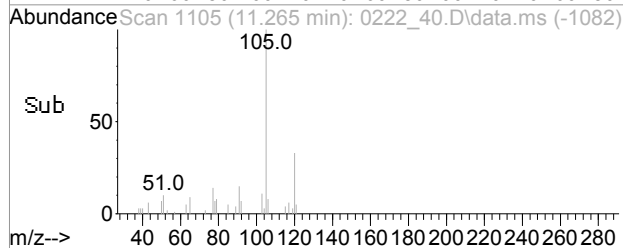
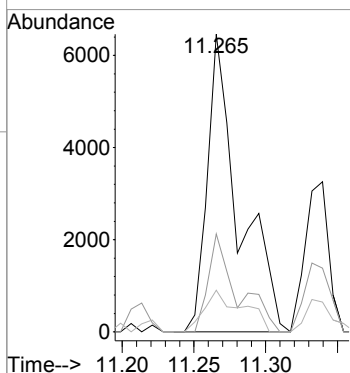
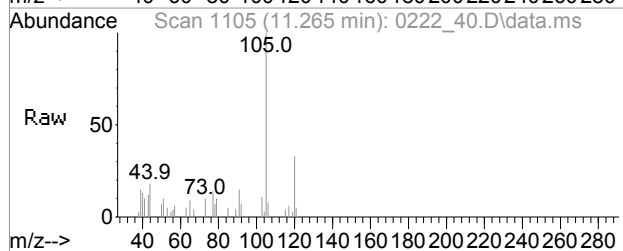
Tgt Ion: 91 Resp: 10486
Ion Ratio Lower Upper
91 100
106 41.8 38.7 58.1
105 20.7 16.6 25.0





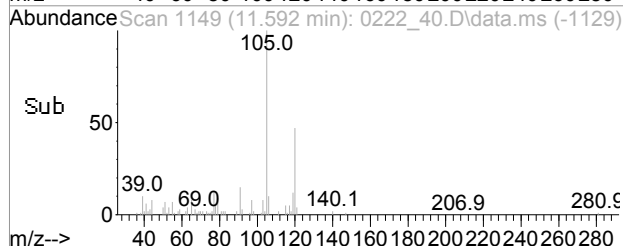
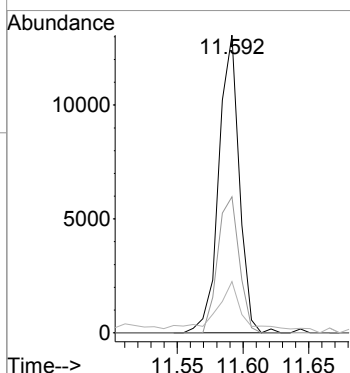
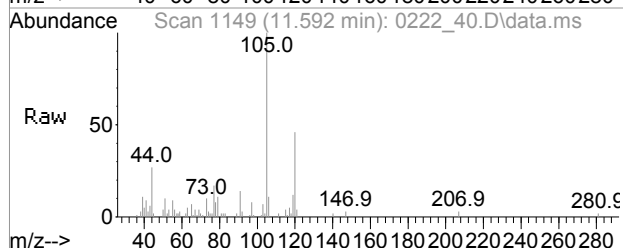
#65
4-Ethyltoluene
Concen: 0.21 ppbv
RT: 11.265 min Scan# 1105
Delta R.T. -0.030 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

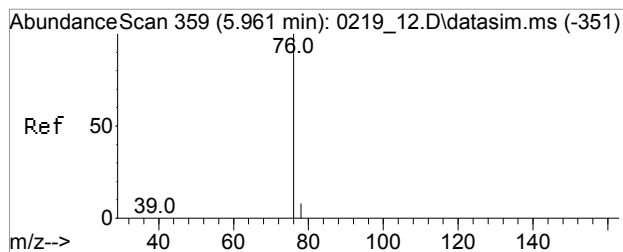
Tgt Ion:105 Resp: 9848
Ion Ratio Lower Upper
105 100
120 30.4 23.3 34.9
77 17.0 10.0 15.0#



#67
1,2,4-Trimethylbenzene
Concen: 0.39 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

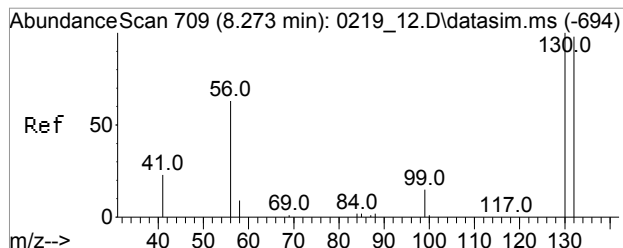
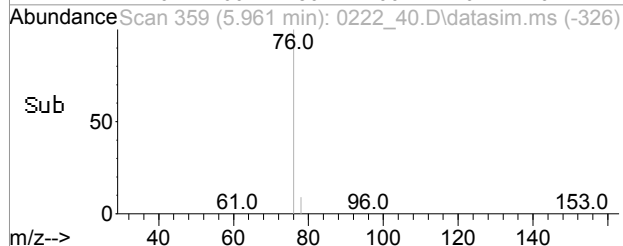
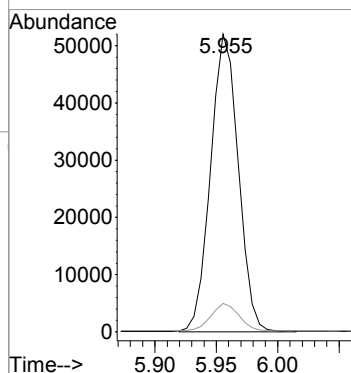
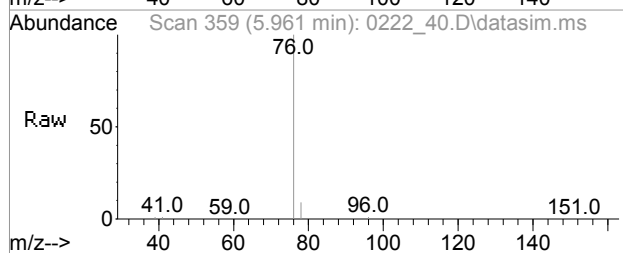
Tgt Ion:105 Resp: 14190
Ion Ratio Lower Upper
105 100
120 48.1 43.5 65.3
77 25.5 20.2 30.4





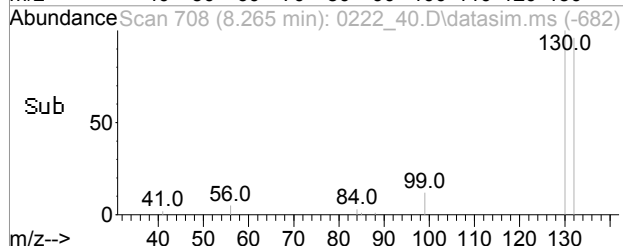
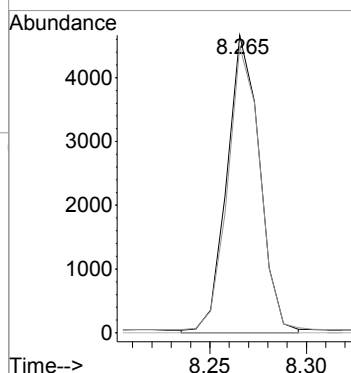
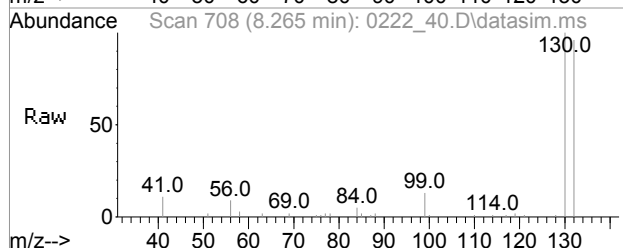
#89
Carbon Disulfide(sim)
Concen: 1.01 ppbv
RT: 5.959 min Scan# 359
Delta R.T. -0.005 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

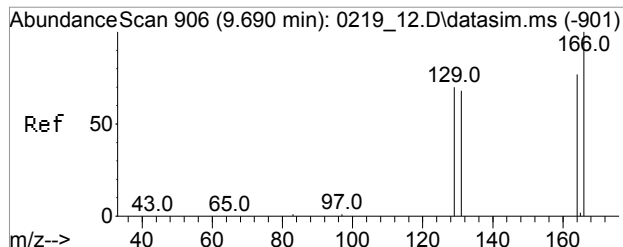
Tgt Ion: 76 Resp: 61439
Ion Ratio Lower Upper
76 100
78 10.7 7.3 10.9



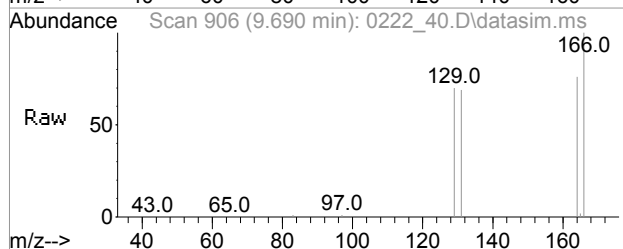
#99
Trichloroethene(sim)
Concen: 0.24 ppbv
RT: 8.263 min Scan# 708
Delta R.T. -0.007 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

Tgt Ion: 130 Resp: 4037
Ion Ratio Lower Upper
130 100
132 94.1 77.2 115.8
97 76.0 53.5 80.3

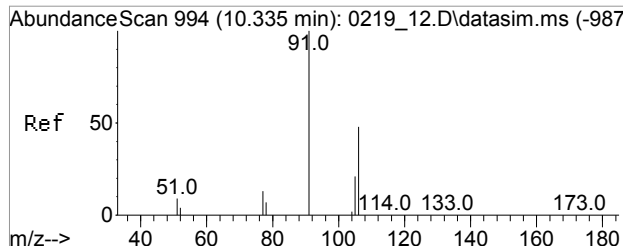
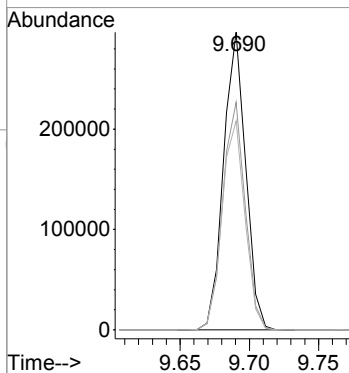
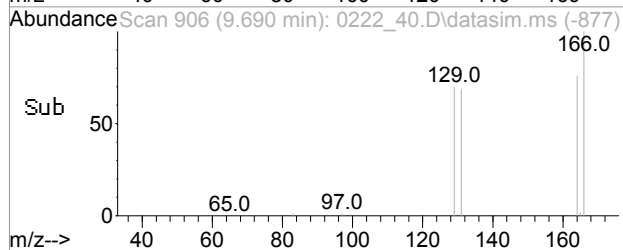




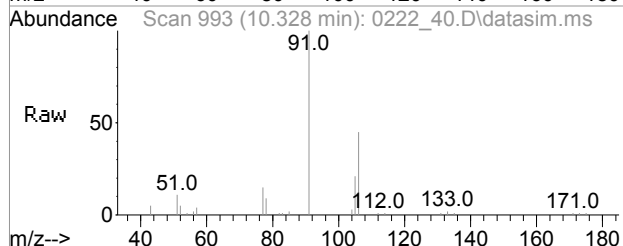
#105
Tetrachloroethene(sim)
Concen: 12.20 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm



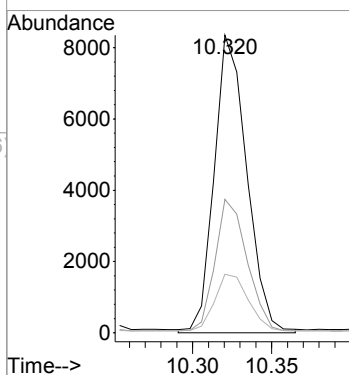
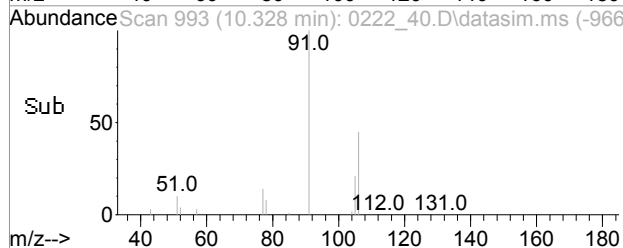
Tgt Ion:166 Resp: 247800
Ion Ratio Lower Upper
166 100
164 77.7 57.8 97.8
129 73.6 50.7 90.7

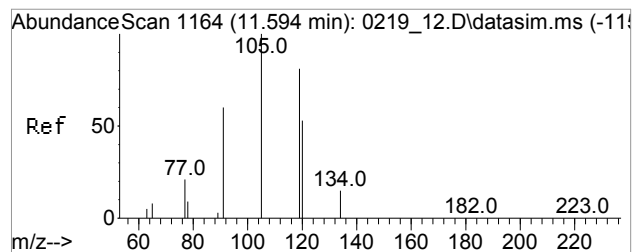


#111
m,p-Xylene(sim)
Concen: 0.28 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_40.D
Acq: 23 Feb 2016 01:10 pm

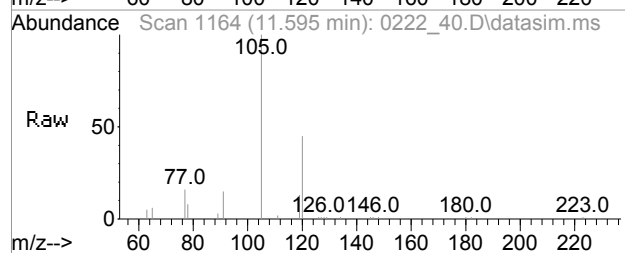


Tgt Ion: 91 Resp: 10486
Ion Ratio Lower Upper
91 100
106 41.8 43.6 53.2#
105 20.7 16.6 25.0

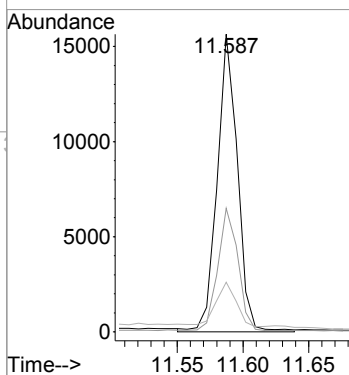
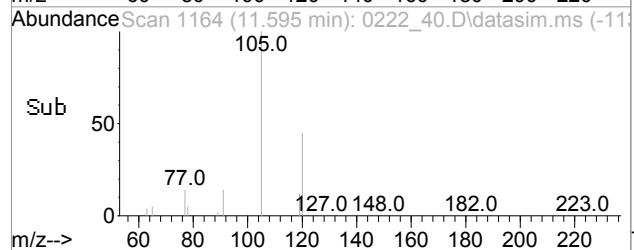




#119
 1,2,4-Trimethylbenzene(sim)
 Concen: 0.35 ppbv
 RT: 11.592 min Scan# 1164
 Delta R.T. 0.001 min
 Lab File: 0222_40.D
 Acq: 23 Feb 2016 01:10 pm



Tgt Ion:105 Resp: 14190
 Ion Ratio Lower Upper
 105 100
 120 48.1 43.5 65.3
 77 25.5 20.2 30.4



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67669</u>
Canister:	<u>219</u>	Lab File ID:	<u>0222_18.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.531		0.202	0.202	r
74-87-3	Chloromethane	0.695		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	43.3	ES	0.531	0.531	r
67-64-1	Acetone	2.36	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.240		0.178	0.178	r
67-63-0	Isopropylalcohol	0.574	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.284		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.882		0.037	0.037	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.092		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67669</u>
Canister:	<u>219</u>	Lab File ID:	<u>0222_18.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_18.D
 Acq On : 22 Feb 2016 11:01 pm
 Operator : CORTEX\ms
 Client ID : IA-9
 Lab ID : BK67669
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:20:43 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

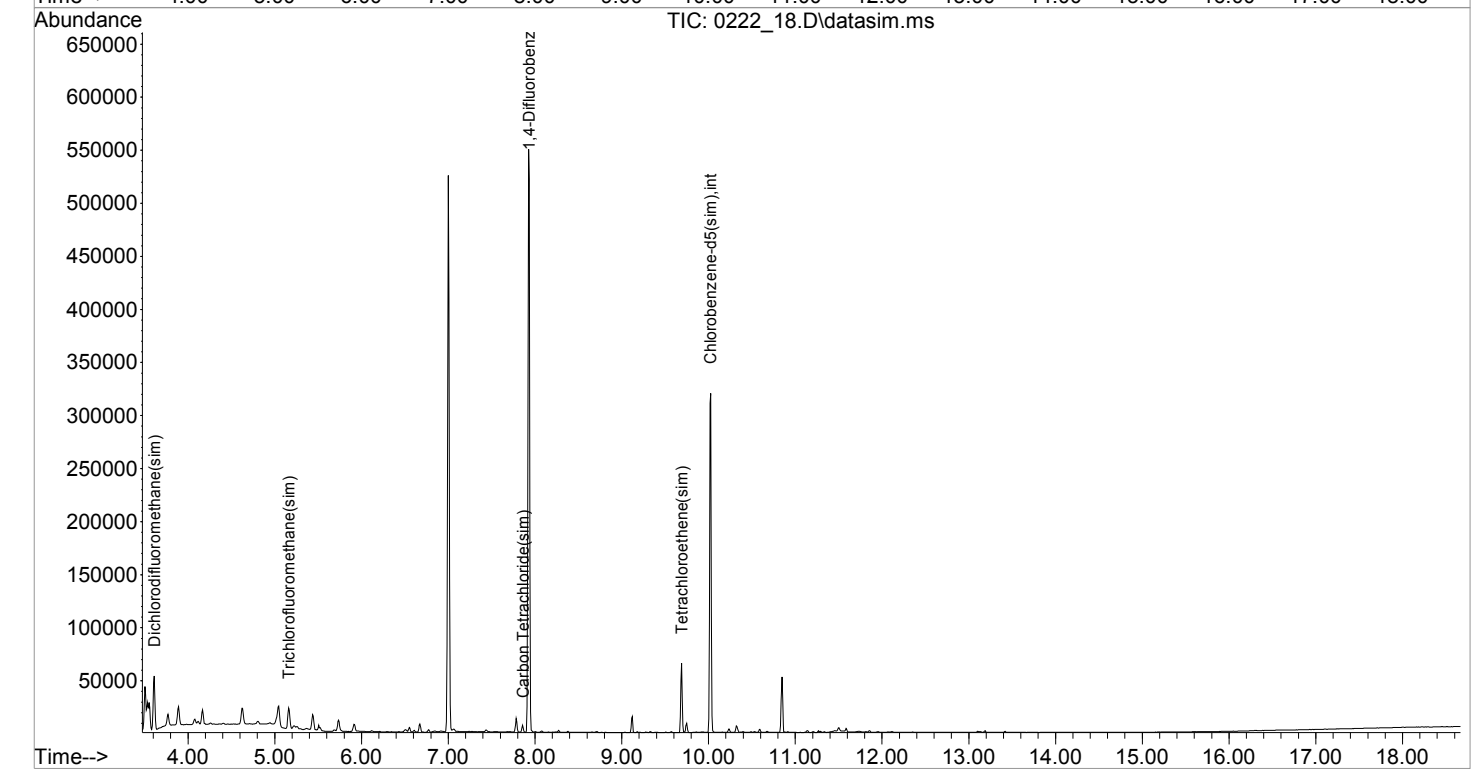
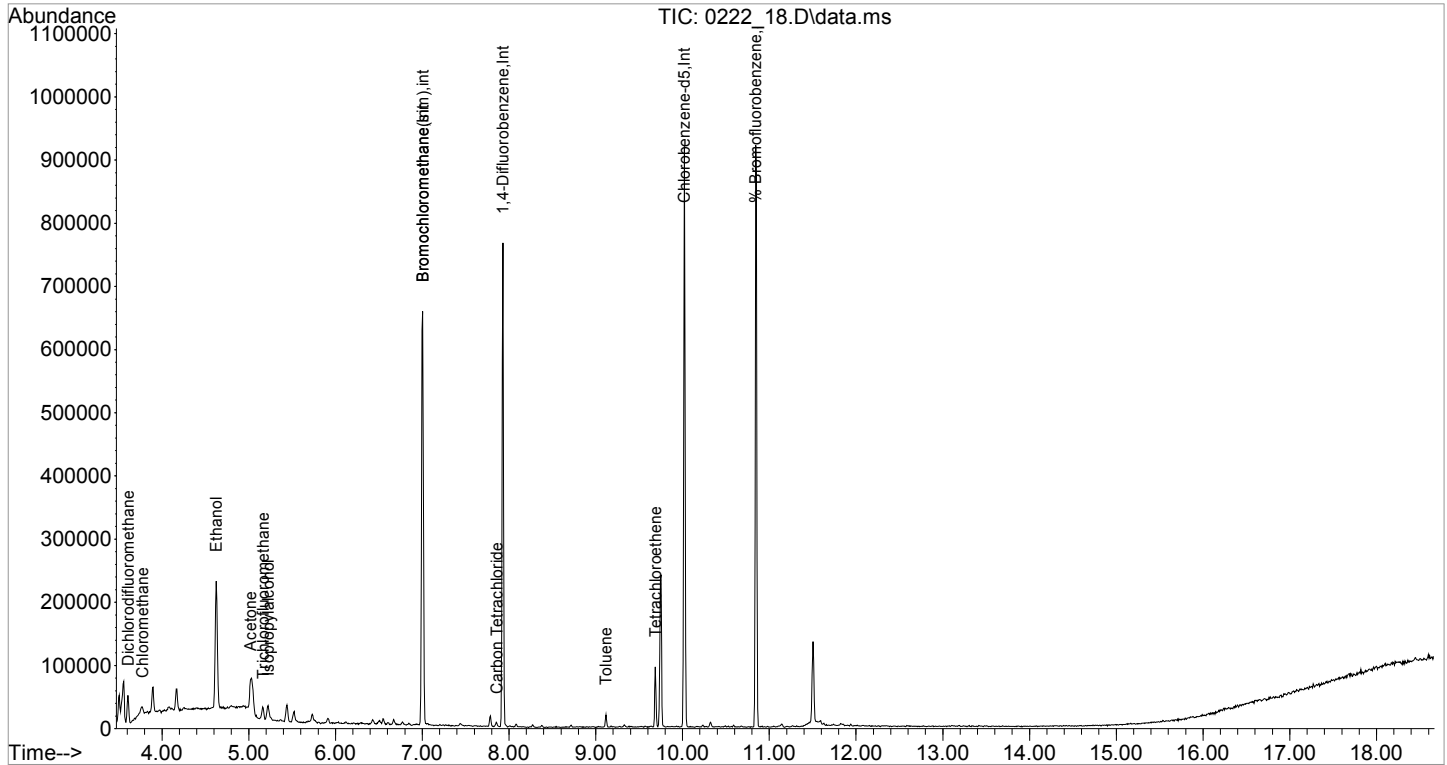
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

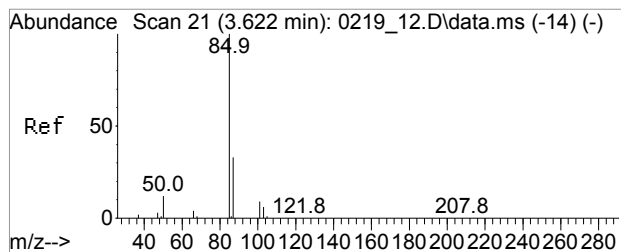
Internal Standards						
1) Bromochloromethane	7.006	130	143905	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	369791	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	174194	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	143905	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	446720	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	187165	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	215157	9.354	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.50%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.608	85	32522	0.531	ppbv#	95
4) Chloromethane	3.774	52	3455	0.695	ppbv#	86
10) Ethanol	4.625	45	197547	43.318	ppbv	96
11) Acetone	5.021	43	60332	2.355	ppbv	92
12) Trichlorofluoromethane	5.166	101	13009	0.240	ppbv#	91
13) Isopropylalcohol	5.223	45	26895	0.574	ppbv#	88
33) Carbon Tetrachloride	7.861	117	2715	0.094	ppbv	99
47) Toluene	9.117	91	7891	0.284	ppbv#	95
51) Tetrachloroethene	9.687	166	16434	0.882	ppbv	94
80] Dichlorodifluoromethan...	3.611	85	41411	0.545	ppbv	99
84] Trichlorofluoromethane...	5.161	101	18420	0.267	ppbv	99
87] Carbon Tetrachloride(sim)	7.861	117	2715	0.092	ppbv	99
105] Tetrachloroethene(sim)	9.687	166	16434	0.875	ppbv	94

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_18.D
Acq On : 22 Feb 2016 11:01 pm
Operator : CORTEX\jms
Client ID : IA-9
Lab ID : BK67669
ALS Vial : 1 Sample Multiplier: 1

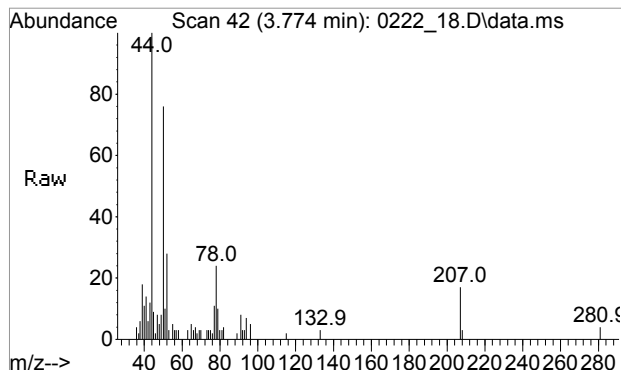
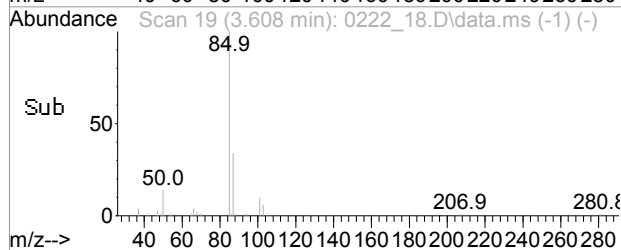
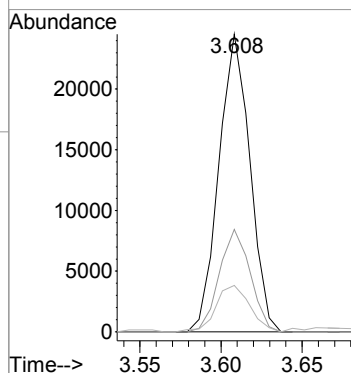
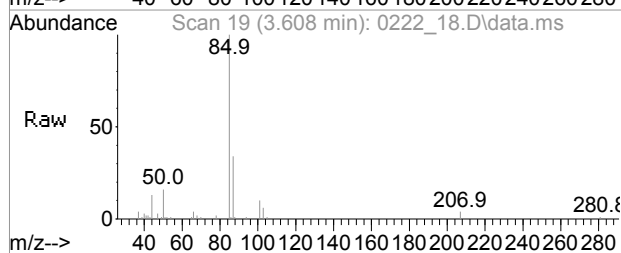
Quant Time: Feb 23 08:20:43 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





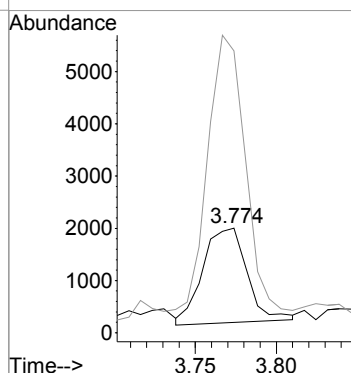
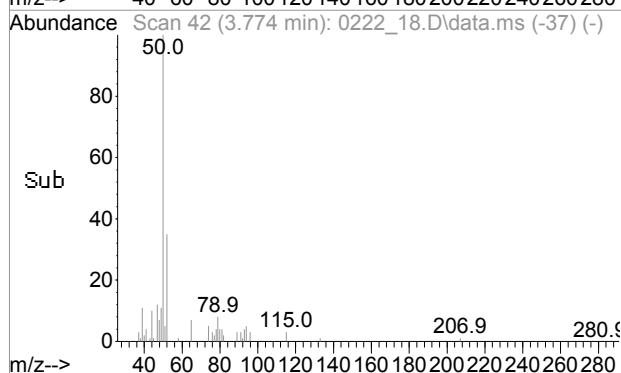
#3
Dichlorodifluoromethane
Concen: 0.53 ppbv
RT: 3.608 min Scan# 19
Delta R.T. -0.022 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

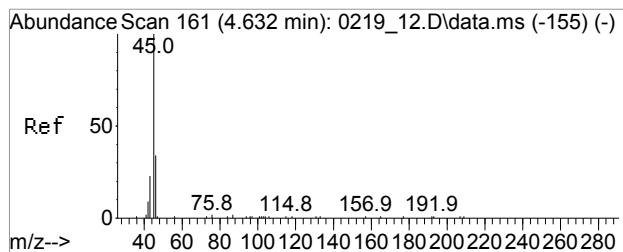
Tgt Ion: 85 Resp: 32522
Ion Ratio Lower Upper
85 100
87 34.3 26.1 39.1
50 17.1 10.5 15.7#



#4
Chloromethane
Concen: 0.70 ppbv
RT: 3.774 min Scan# 42
Delta R.T. -0.014 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

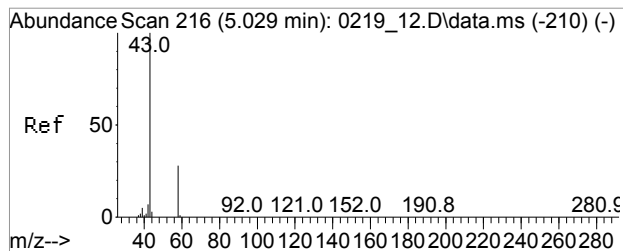
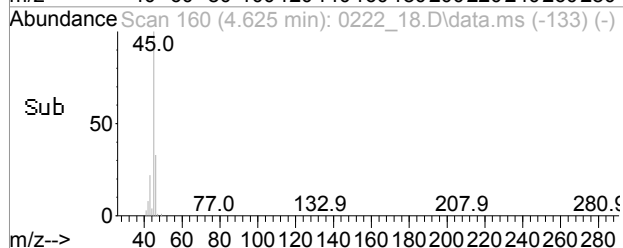
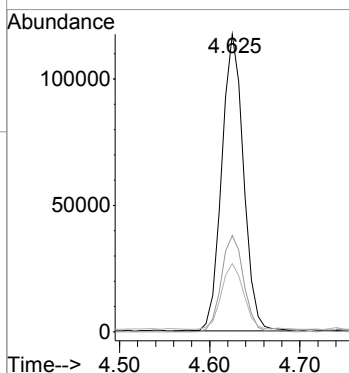
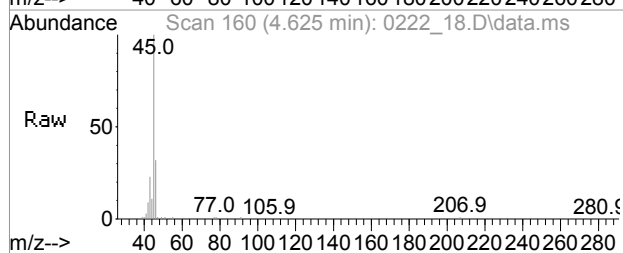
Tgt Ion: 52 Resp: 3455
Ion Ratio Lower Upper
52 100
50 276.6 284.4 324.4#





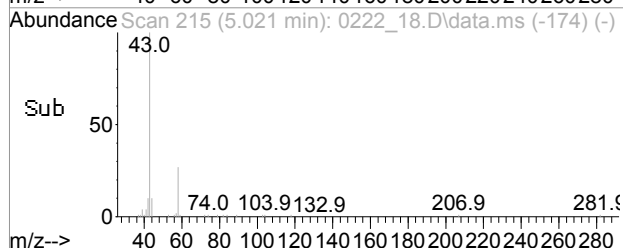
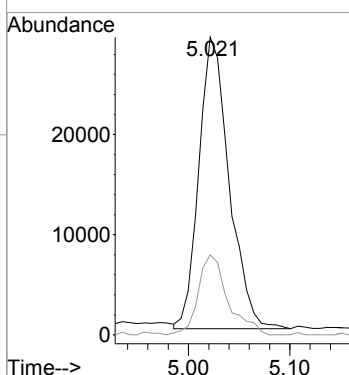
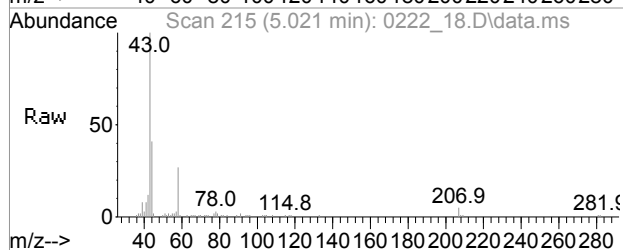
#10
Ethanol
Concen: 43.32 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

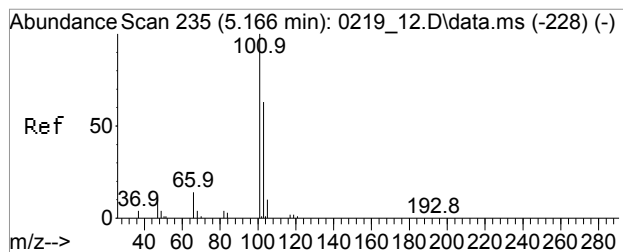
Tgt Ion: 45 Resp: 197547
Ion Ratio Lower Upper
45 100
46 33.4 28.5 42.7
43 22.5 19.7 29.5



#11
Acetone
Concen: 2.36 ppbv
RT: 5.021 min Scan# 215
Delta R.T. -0.008 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

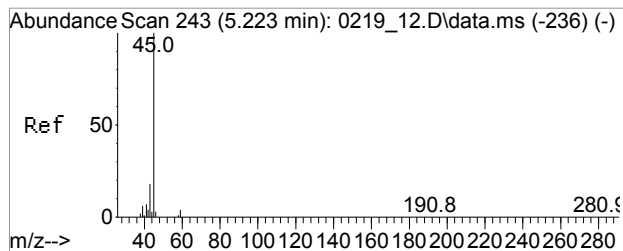
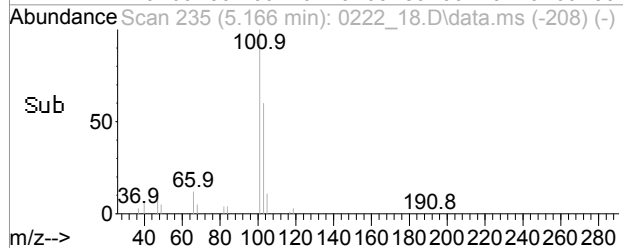
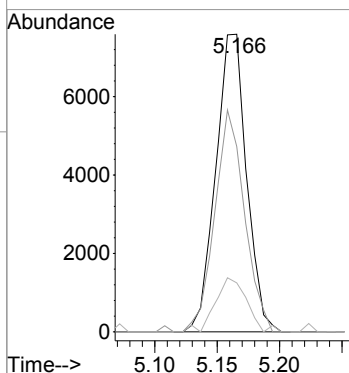
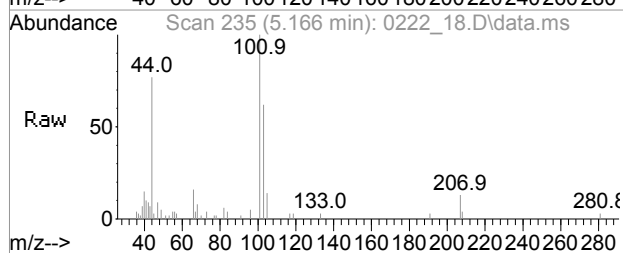
Tgt Ion: 43 Resp: 60332
Ion Ratio Lower Upper
43 100
58 26.8 24.8 37.2





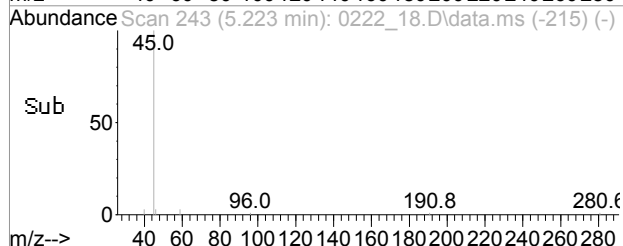
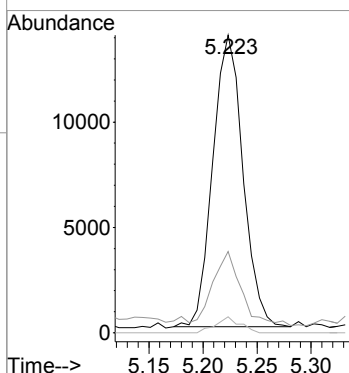
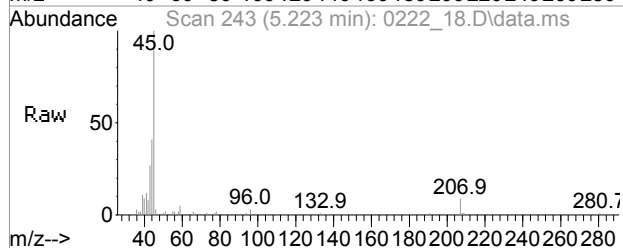
#12
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

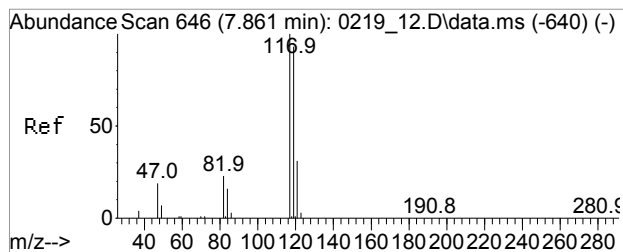
Tgt Ion: 101 Resp: 13009
Ion Ratio Lower Upper
101 100
103 71.9 51.8 77.8
66 18.6 11.1 16.7#



#13
Isopropylalcohol
Concen: 0.57 ppbv
RT: 5.223 min Scan# 243
Delta R.T. 0.000 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

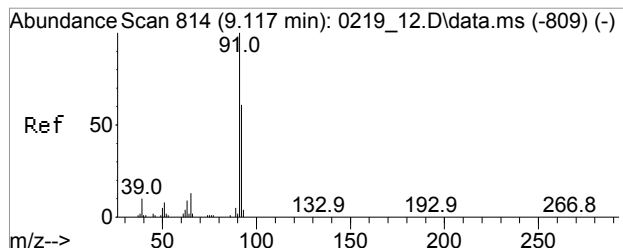
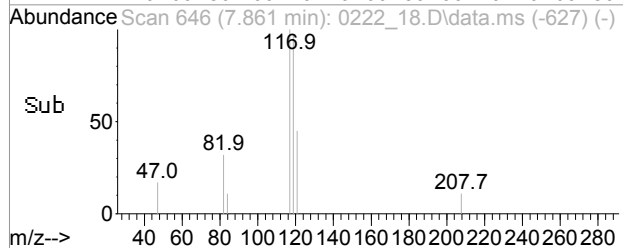
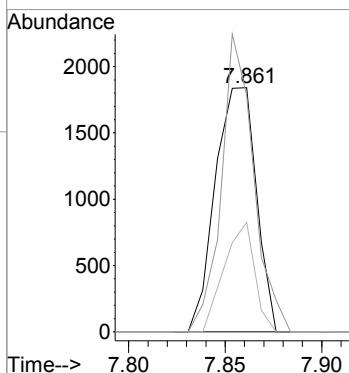
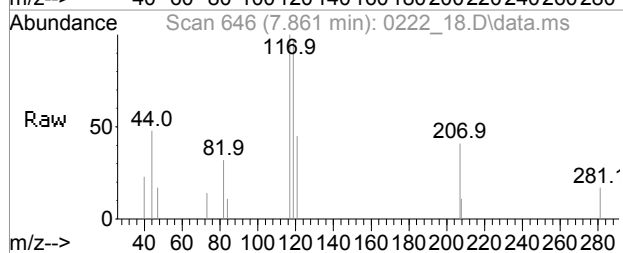
Tgt Ion: 45 Resp: 26895
Ion Ratio Lower Upper
45 100
43 25.3 15.4 23.0#
59 4.4 3.0 4.4





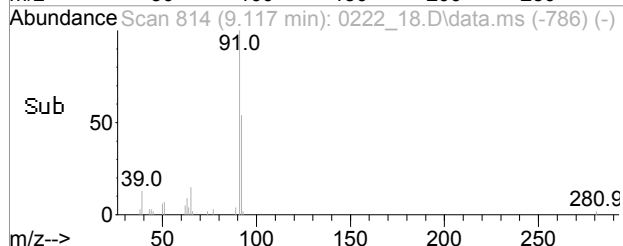
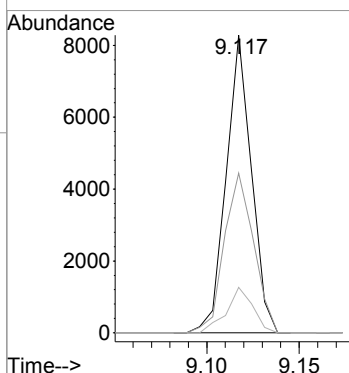
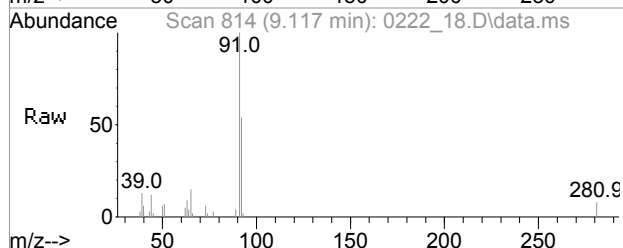
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.861 min Scan# 646
Delta R.T. 0.000 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

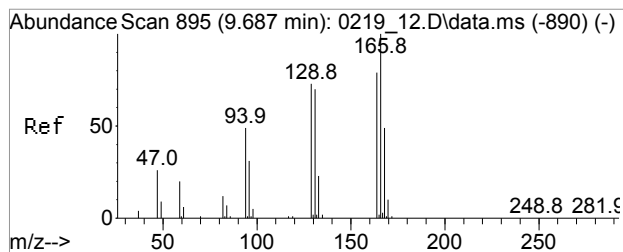
Tgt Ion: 117 Resp: 2715
Ion Ratio Lower Upper
117 100
119 95.9 75.9 115.9
121 33.4 10.8 50.8



#47
Toluene
Concen: 0.28 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

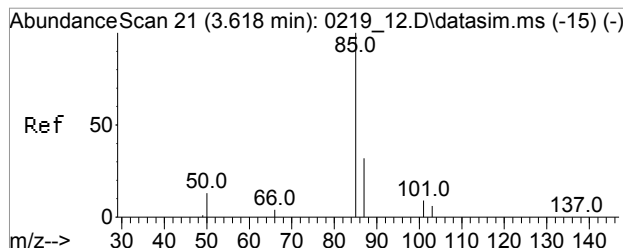
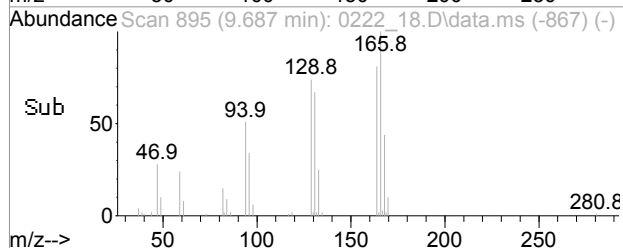
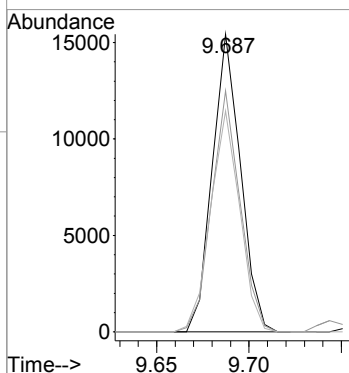
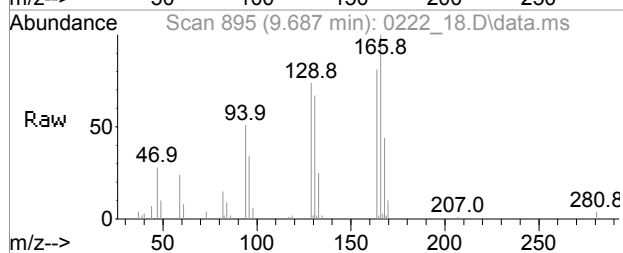
Tgt Ion: 91 Resp: 7891
Ion Ratio Lower Upper
91 100
92 62.5 47.7 71.5
65 16.1 9.5 14.3#





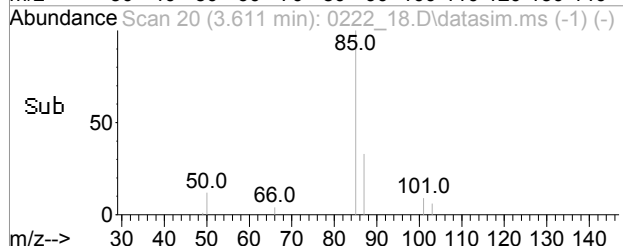
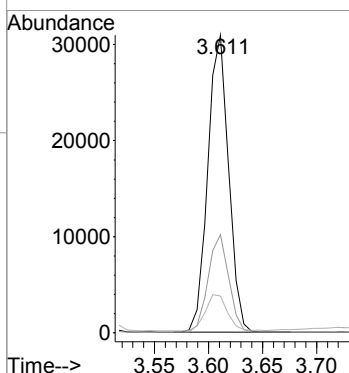
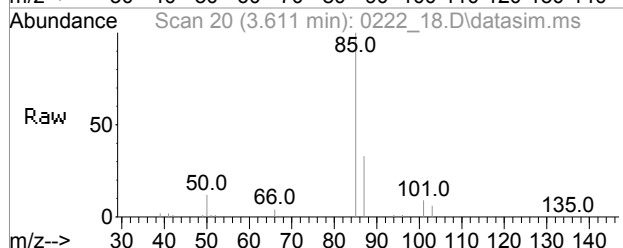
#51
Tetrachloroethene
Concen: 0.88 ppbv
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

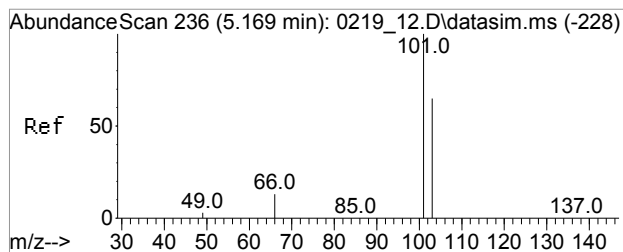
Tgt Ion: 166 Resp: 16434
Ion Ratio Lower Upper
166 100
164 81.6 62.2 93.4
129 77.1 56.6 84.8



#80
Dichlorodifluoromethane(sim)
Concen: 0.54 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

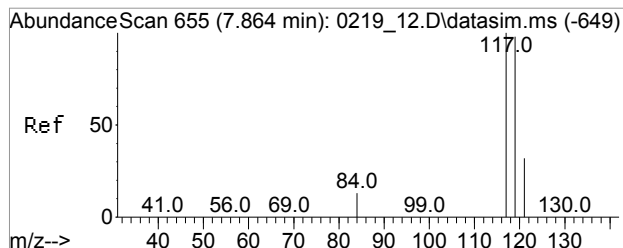
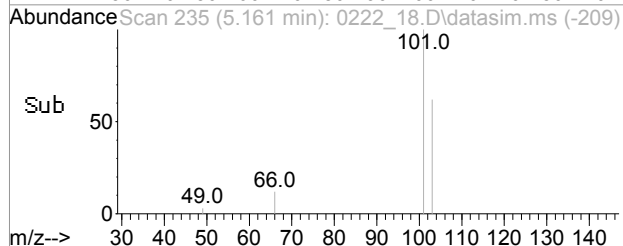
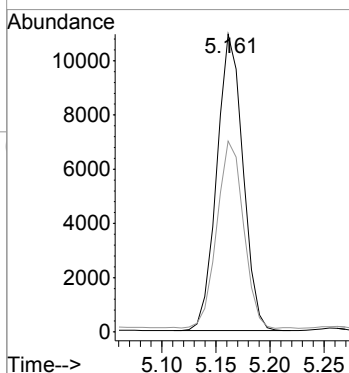
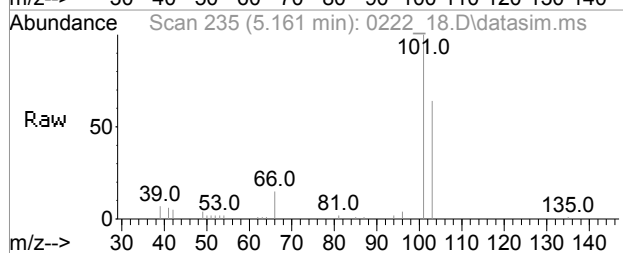
Tgt Ion: 85 Resp: 41411
Ion Ratio Lower Upper
85 100
87 32.5 12.7 52.7
50 13.1 0.0 32.3





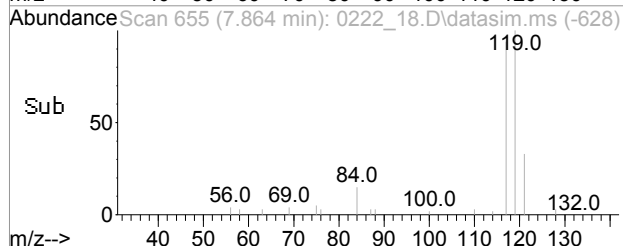
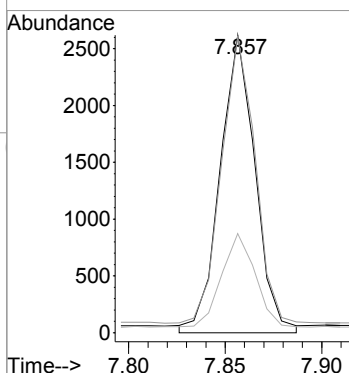
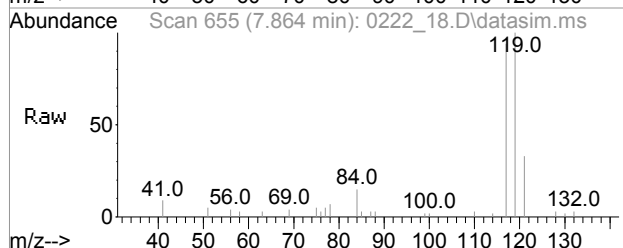
#84
Trichlorofluoromethane(sim)
Concen: 0.27 ppbv
RT: 5.161 min Scan# 235
Delta R.T. -0.015 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

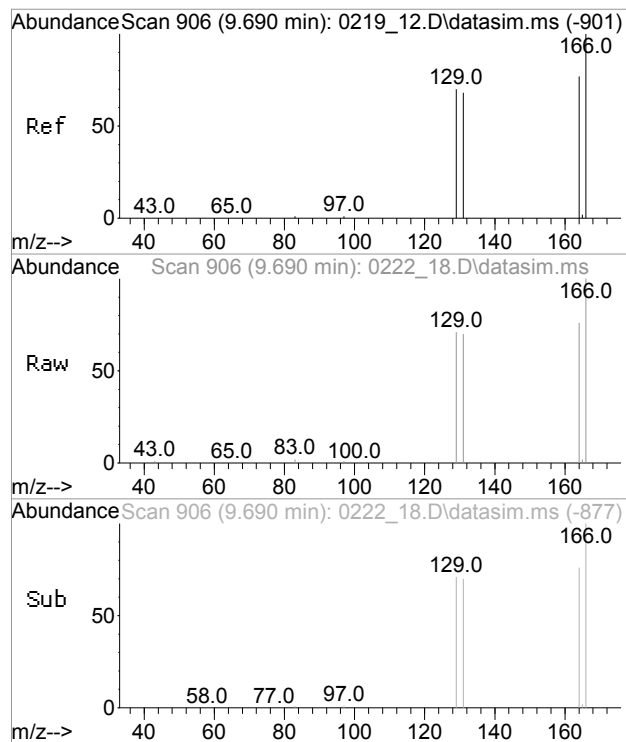
Tgt Ion:101 Resp: 18420
Ion Ratio Lower Upper
101 100
103 64.2 52.0 78.0



#87
Carbon Tetrachloride(sim)
Concen: 0.09 ppbv
RT: 7.861 min Scan# 655
Delta R.T. 0.000 min
Lab File: 0222_18.D
Acq: 22 Feb 2016 11:01 pm

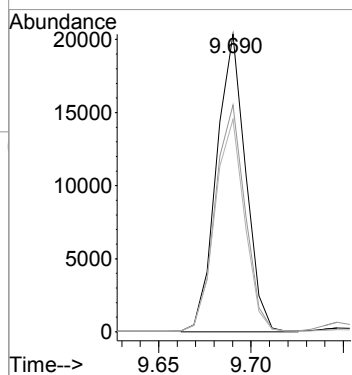
Tgt Ion:117 Resp: 2715
Ion Ratio Lower Upper
117 100
119 95.9 76.7 115.1
121 33.4 24.6 37.0





#105
 Tetrachloroethene(sim)
 Concen: 0.87 ppbv
 RT: 9.687 min Scan# 906
 Delta R.T. 0.000 min
 Lab File: 0222_18.D
 Acq: 22 Feb 2016 11:01 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	81.6	57.8	97.8
129	77.1	50.7	90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67670</u>
Canister:	<u>12855</u>	Lab File ID:	<u>0222_19.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.524		0.202	0.202	r
74-87-3	Chloromethane	0.685		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	13.5	S	0.531	0.531	r
67-64-1	Acetone	3.05	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.230		0.178	0.178	r
67-63-0	Isopropylalcohol	0.798	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.297		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.685		0.037	0.037	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.080		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67670</u>
Canister:	<u>12855</u>	Lab File ID:	<u>0222_19.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.052		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_19.D
 Acq On : 22 Feb 2016 11:40 pm
 Operator : CORTEX\ms
 Client ID : IA-2
 Lab ID : BK67670
 ALS Vial : 1 Sample Multiplier: 1

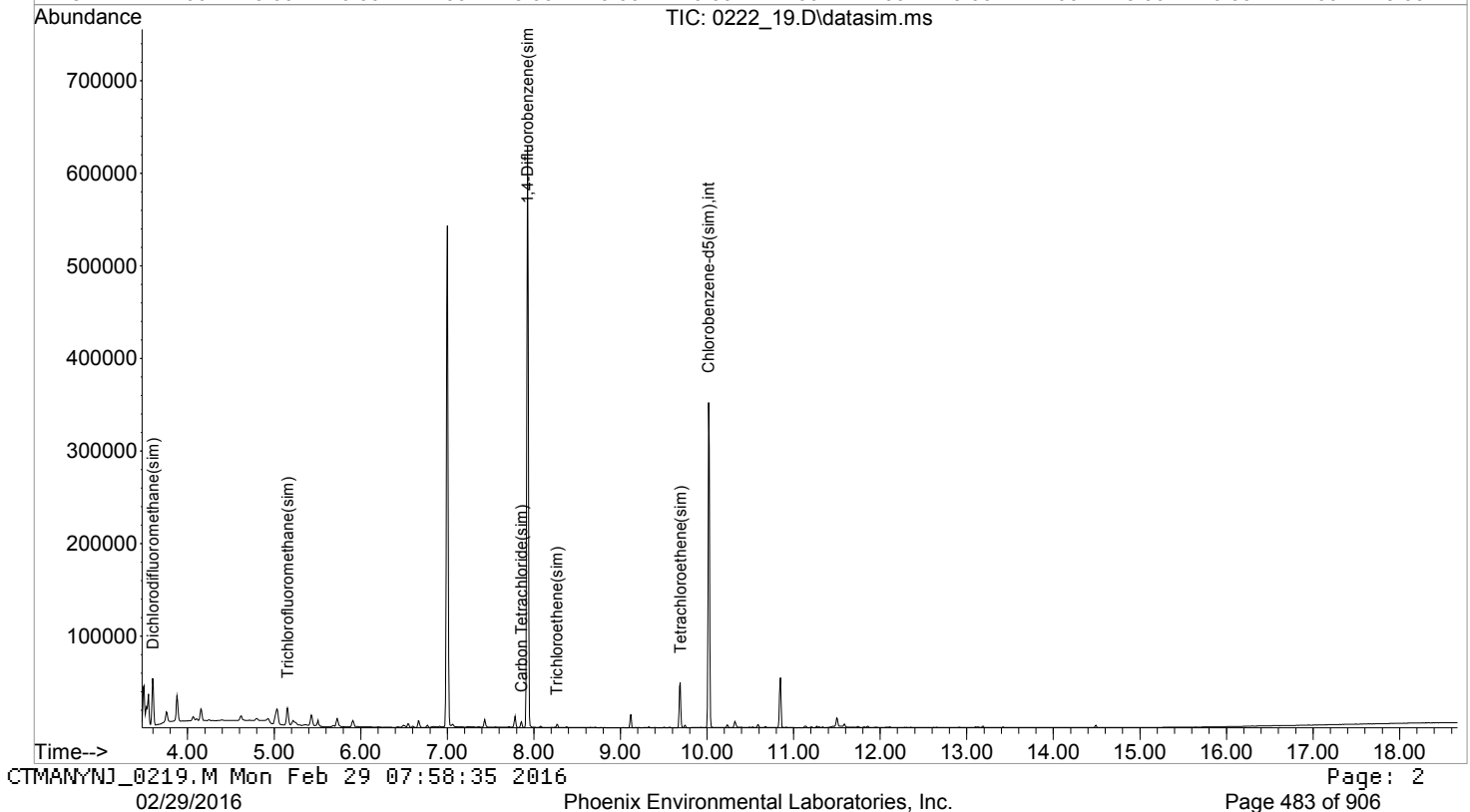
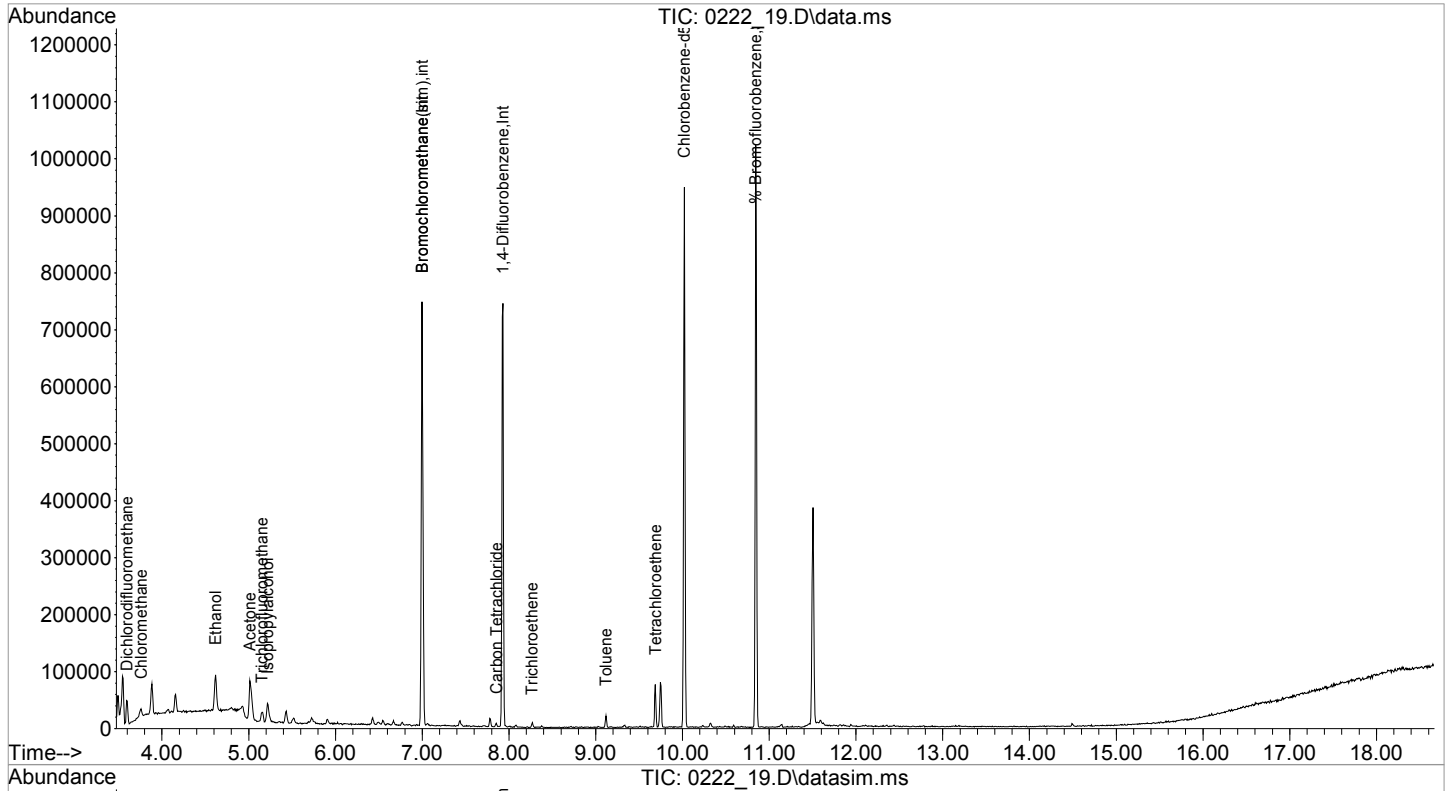
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 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

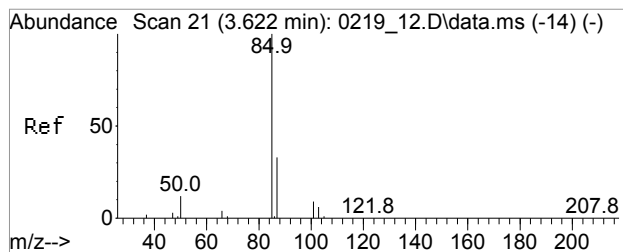
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.998	130	147435	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	396757	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	179979	10.000	ng	0.00
79) Bromochloromethane(sim)	6.998	130	147435	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	471140	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	196257	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	226171	9.516	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	95.20%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.594	85	32865	0.524	ppbv	98
4) Chloromethane	3.760	52	3488m	0.685	ppbv	
10) Ethanol	4.618	45	63079	13.501	ppbv	96
11) Acetone	5.014	43	80011	3.049	ppbv	91
12) Trichlorofluoromethane	5.151	101	12764	0.230	ppbv#	91
13) Isopropylalcohol	5.216	45	38295	0.798	ppbv	95
33) Carbon Tetrachloride	7.854	117	2425	0.082	ppbv	93
38) Trichloroethene	8.263	130	846	0.061	ppbv	89
47) Toluene	9.117	91	8850	0.297	ppbv	96
51) Tetrachloroethene	9.688	166	13690	0.685	ppbv	97
80] Dichlorodifluoromethan...	3.597	85	40614	0.522	ppbv	100
84] Trichlorofluoromethane...	5.154	101	17415	0.246	ppbv	99
87] Carbon Tetrachloride(sim)	7.854	117	2425	0.080	ppbv	93
99] Trichloroethene(sim)	8.263	130	846	0.052	ppbv#	83
105] Tetrachloroethene(sim)	9.688	166	13690	0.691	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_19.D
Acq On : 22 Feb 2016 11:40 pm
Operator : CORTEX\jms
Client ID : IA-2
Lab ID : BK67670
ALS Vial : 1 Sample Multiplier: 1

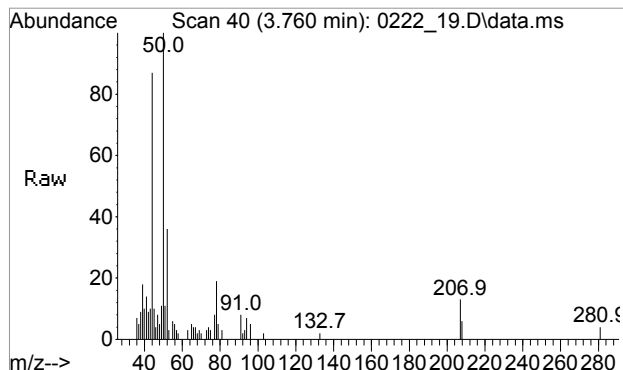
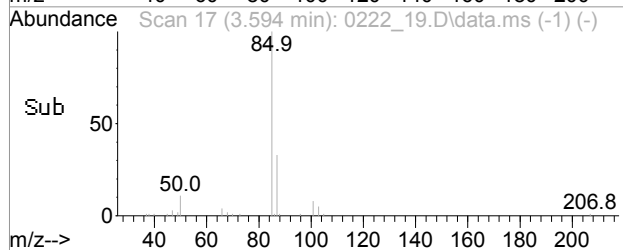
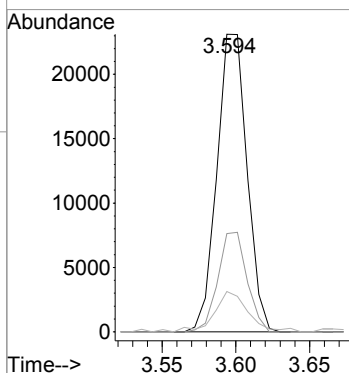
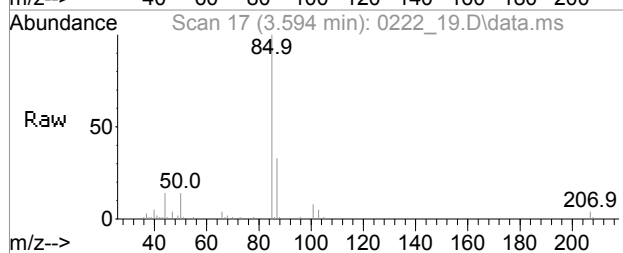
Quant Time: Feb 23 08:21:26 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





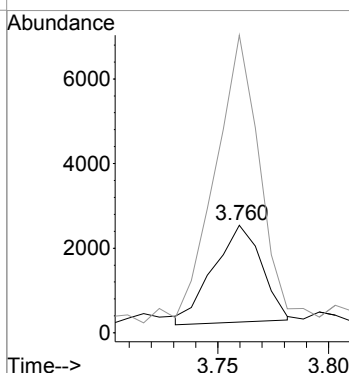
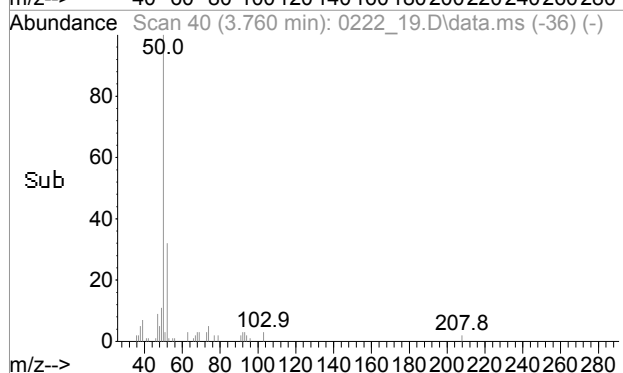
#3
Dichlorodifluoromethane
Concen: 0.52 ppbv
RT: 3.594 min Scan# 17
Delta R.T. -0.036 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

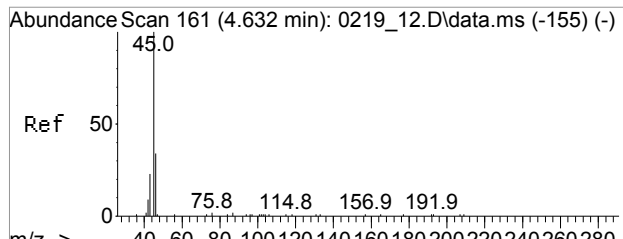
Tgt Ion: 85 Resp: 32865
Ion Ratio Lower Upper
85 100
87 32.3 26.1 39.1
50 15.4 10.5 15.7



#4
Chloromethane
Concen: 0.69 ppbv m
RT: 3.760 min Scan# 40
Delta R.T. -0.028 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

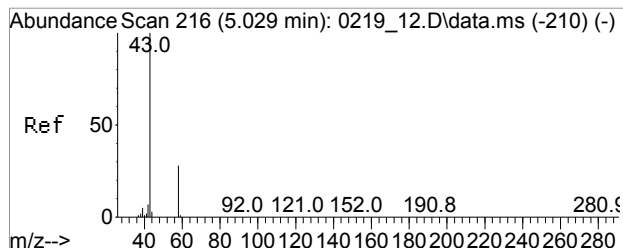
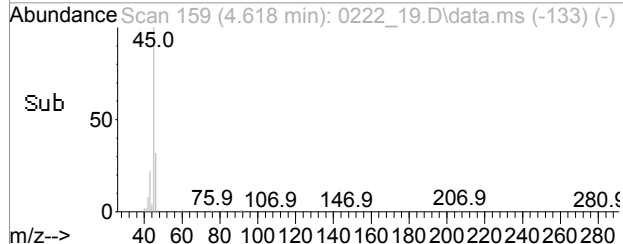
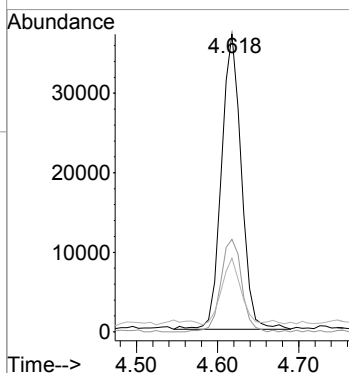
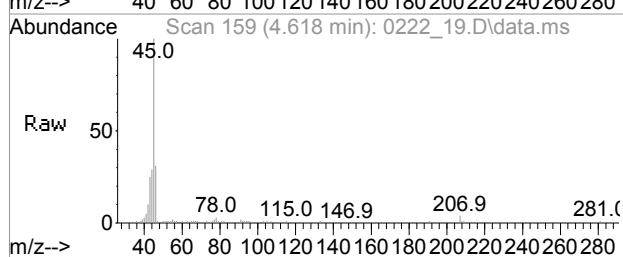
Tgt Ion: 52 Resp: 3488
Ion Ratio Lower Upper
52 100
50 289.0 284.4 324.4





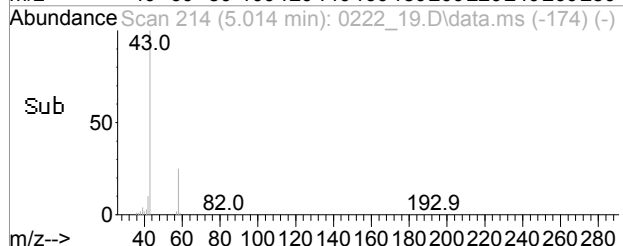
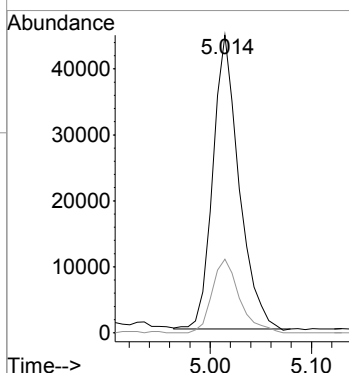
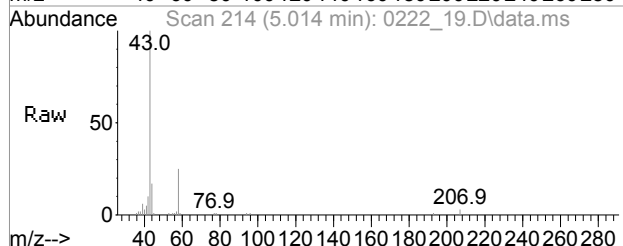
#10
Ethanol
Concen: 13.50 ppbv
RT: 4.618 min Scan# 159
Delta R.T. -0.014 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

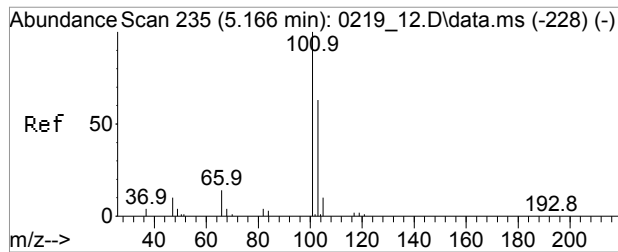
Tgt Ion: 45 Resp: 63079
Ion Ratio Lower Upper
45 100
46 33.2 28.5 42.7
43 22.2 19.7 29.5



#11
Acetone
Concen: 3.05 ppbv
RT: 5.014 min Scan# 214
Delta R.T. -0.015 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

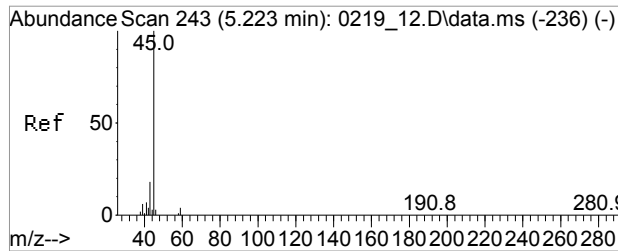
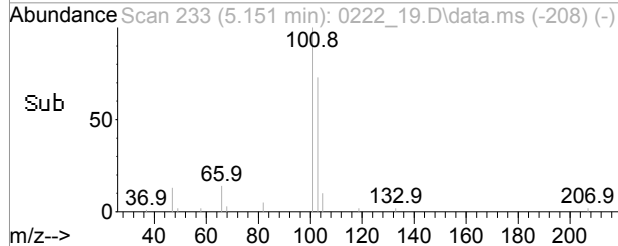
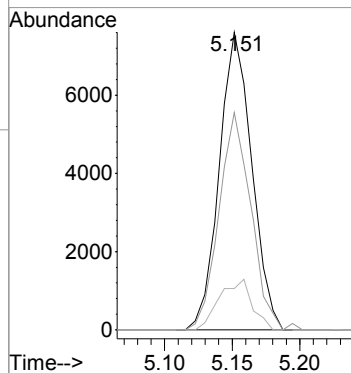
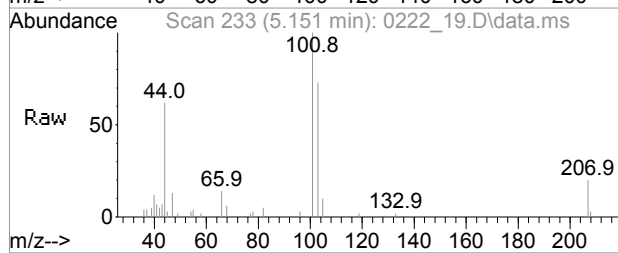
Tgt Ion: 43 Resp: 80011
Ion Ratio Lower Upper
43 100
58 26.2 24.8 37.2





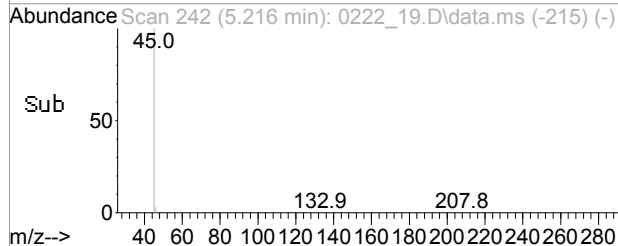
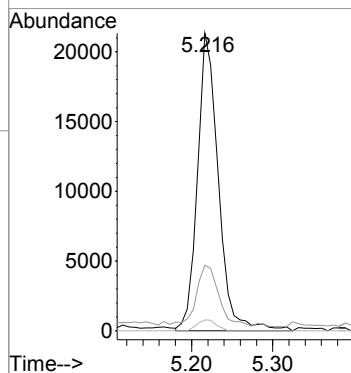
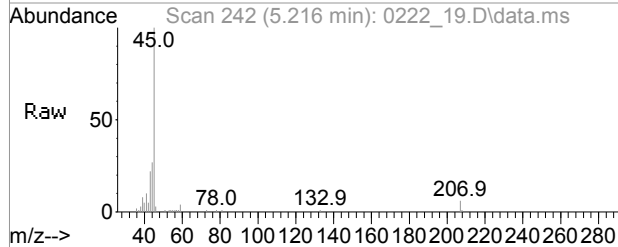
#12
Trichlorofluoromethane
Concen: 0.23 ppbv
RT: 5.151 min Scan# 233
Delta R.T. -0.022 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

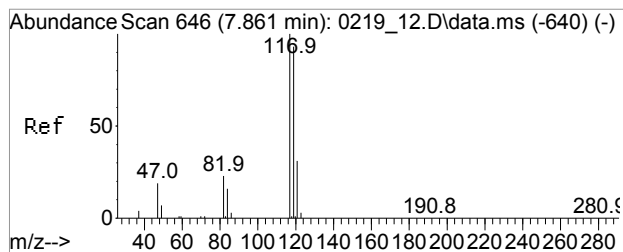
Tgt Ion: 101 Resp: 12764
Ion Ratio Lower Upper
101 100
103 72.0 51.8 77.8
66 17.0 11.1 16.7#



#13
Isopropylalcohol
Concen: 0.80 ppbv
RT: 5.216 min Scan# 242
Delta R.T. -0.007 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

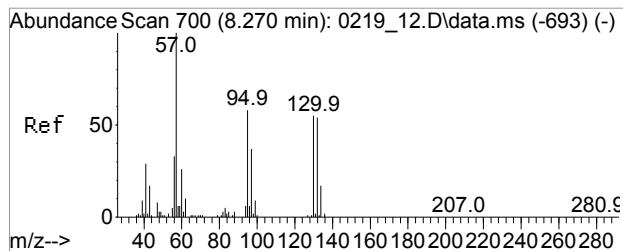
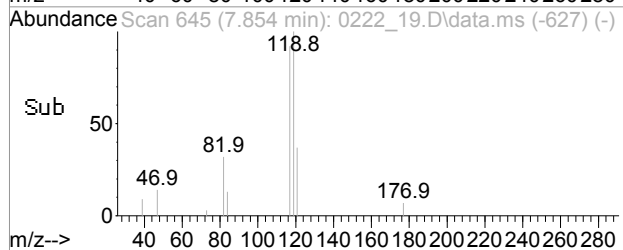
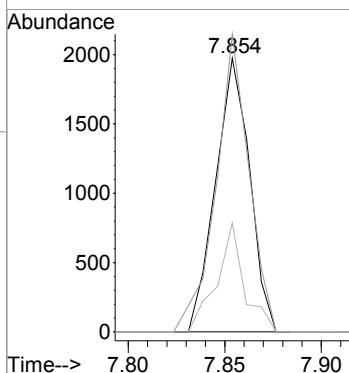
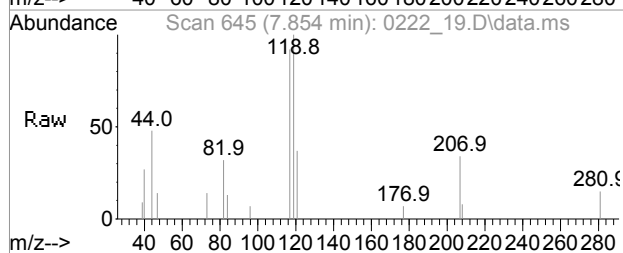
Tgt Ion: 45 Resp: 38295
Ion Ratio Lower Upper
45 100
43 21.7 15.4 23.0
59 3.3 3.0 4.4





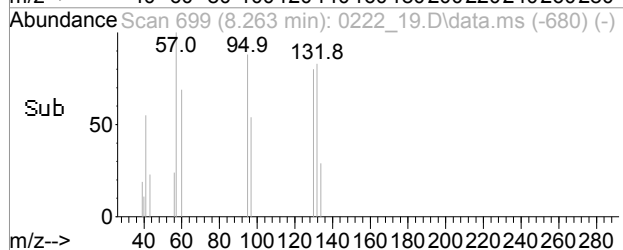
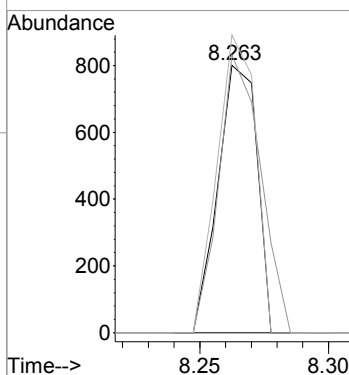
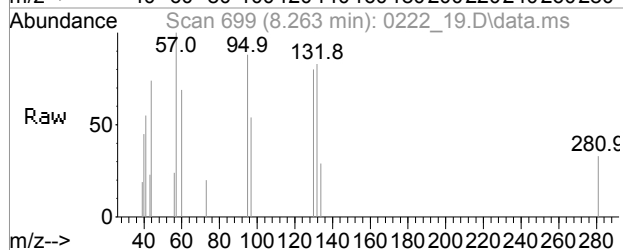
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

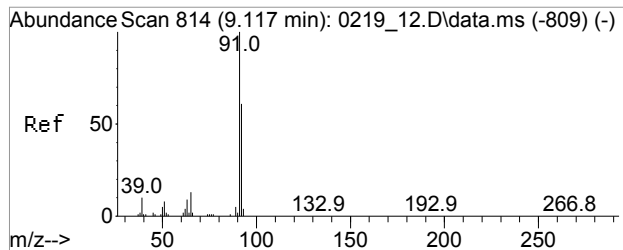
Tgt Ion	Ratio	Lower	Upper
117	100		
119	104.8	75.9	115.9
121	32.1	10.8	50.8



#38
Trichloroethene
Concen: Below Cal
RT: 8.263 min Scan# 699
Delta R.T. -0.007 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

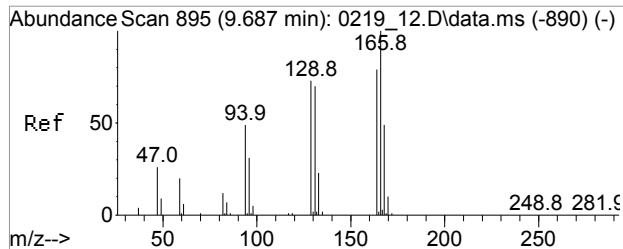
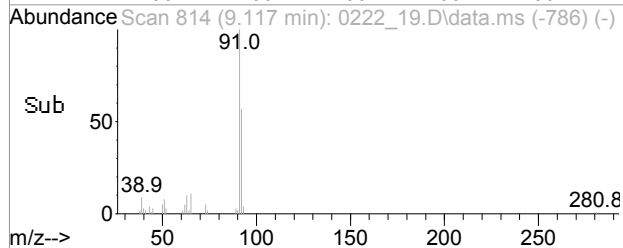
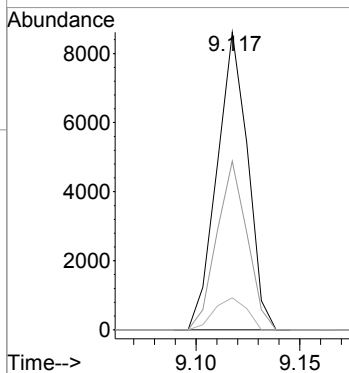
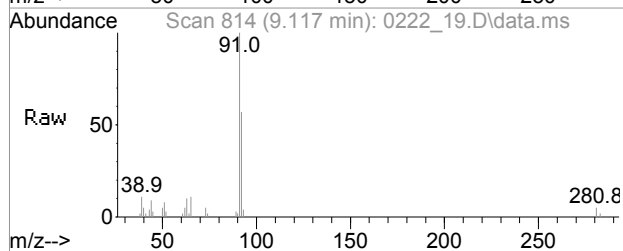
Tgt Ion	Ratio	Lower	Upper
130	100		
132	111.5	77.2	115.8
95	110.3	82.7	124.1





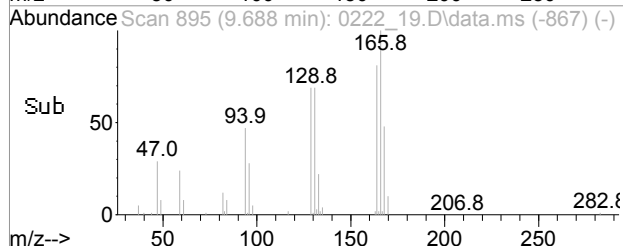
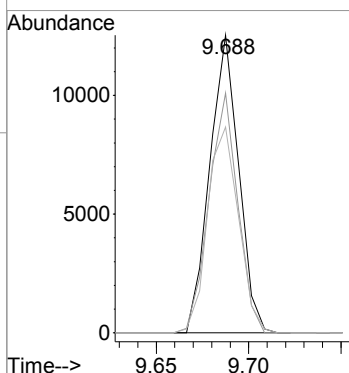
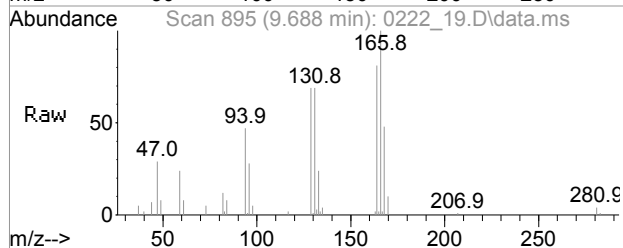
#47
Toluene
Concen: 0.30 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

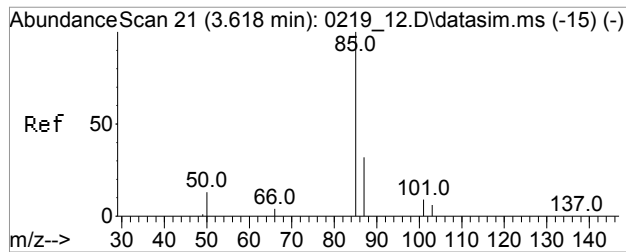
Tgt Ion: 91 Resp: 8850
Ion Ratio Lower Upper
91 100
92 56.2 47.7 71.5
65 11.4 9.5 14.3



#51
Tetrachloroethene
Concen: 0.68 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

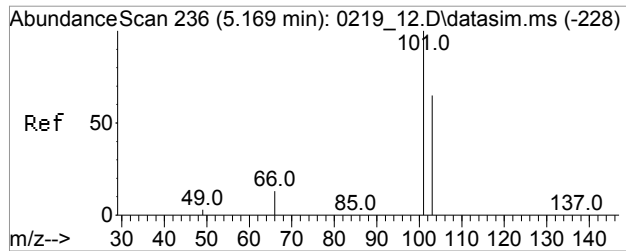
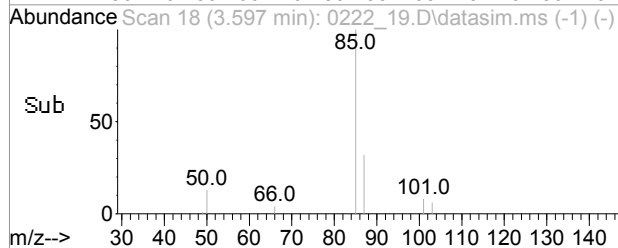
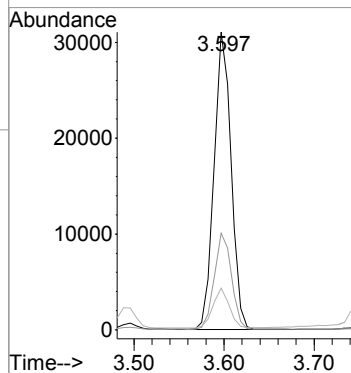
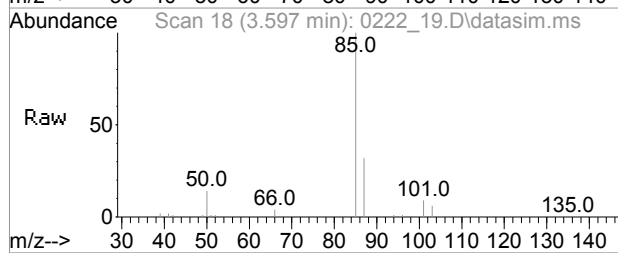
Tgt Ion: 166 Resp: 13690
Ion Ratio Lower Upper
166 100
164 80.2 62.2 93.4
129 74.1 56.6 84.8





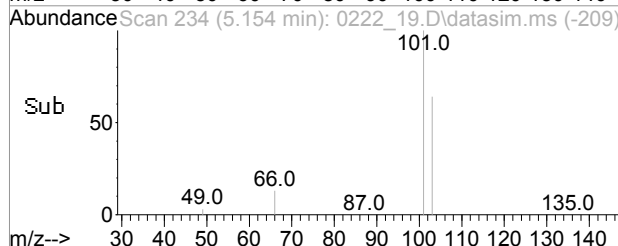
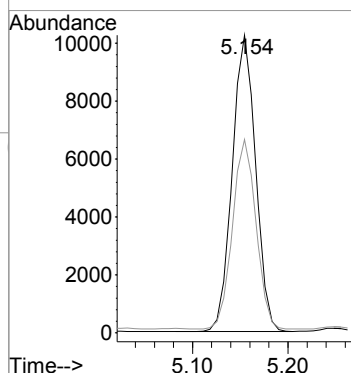
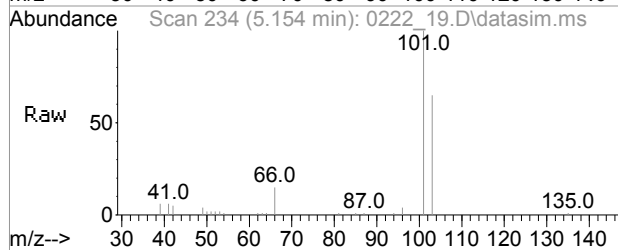
#80
Dichlorodifluoromethane(sim)
Concen: 0.52 ppbv
RT: 3.597 min Scan# 18
Delta R.T. -0.028 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

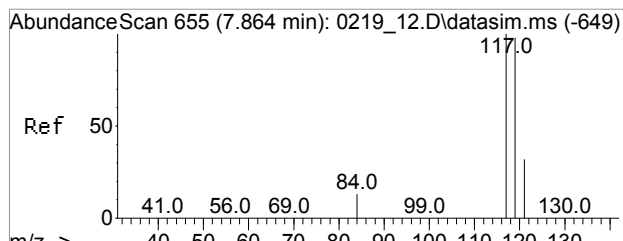
Tgt Ion: 85 Resp: 40614
Ion Ratio Lower Upper
85 100
87 32.7 12.7 52.7
50 12.8 0.0 32.3



#84
Trichlorofluoromethane(sim)
Concen: 0.25 ppbv
RT: 5.154 min Scan# 234
Delta R.T. -0.022 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

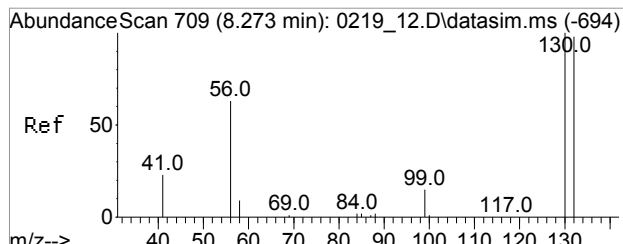
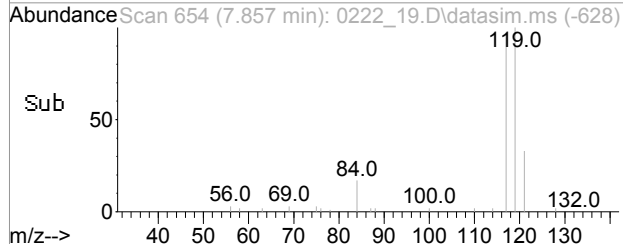
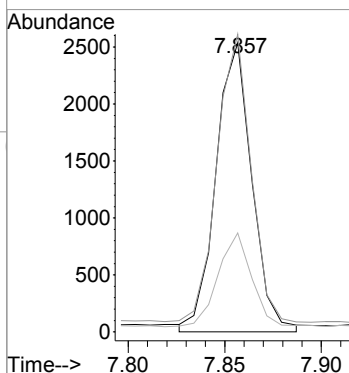
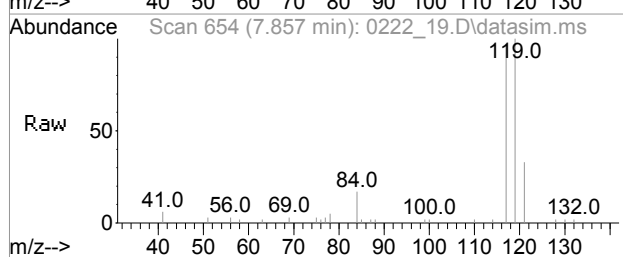
Tgt Ion: 101 Resp: 17415
Ion Ratio Lower Upper
101 100
103 64.2 52.0 78.0





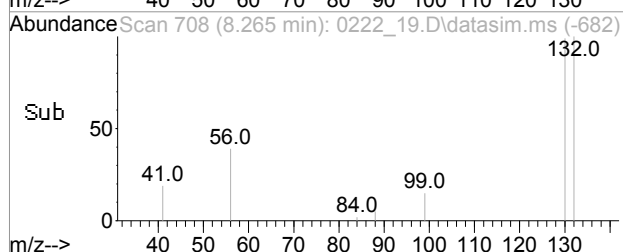
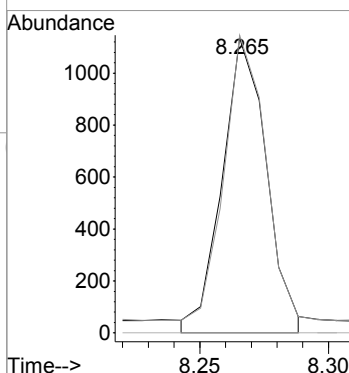
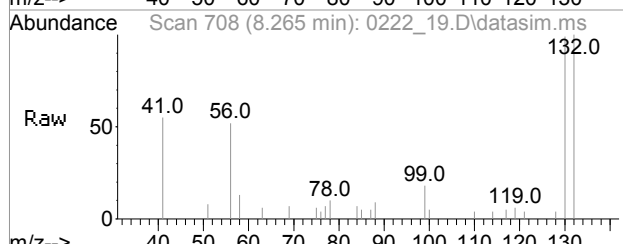
#87
Carbon Tetrachloride(sim)
Concen: 0.08 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

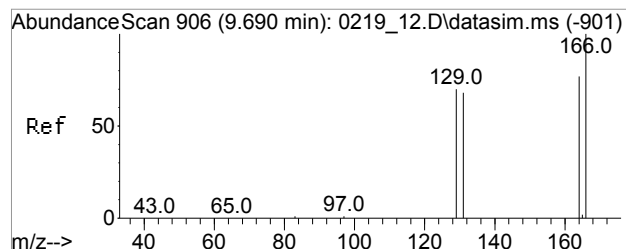
Tgt Ion	Ratio	Lower	Upper
117	100		
119	104.8	76.7	115.1
121	32.1	24.6	37.0



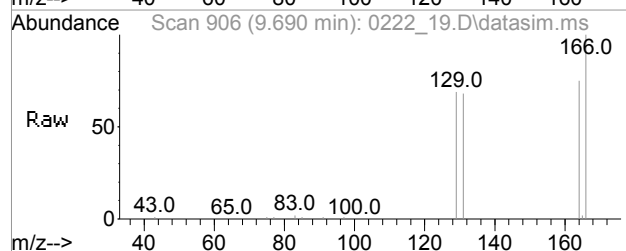
#99
Trichloroethene(sim)
Concen: 0.05 ppbv
RT: 8.263 min Scan# 708
Delta R.T. -0.007 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	111.5	77.2	115.8
97	83.5	53.5	80.3#

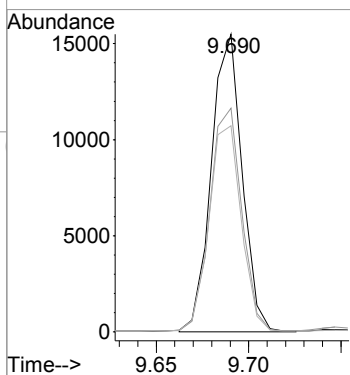
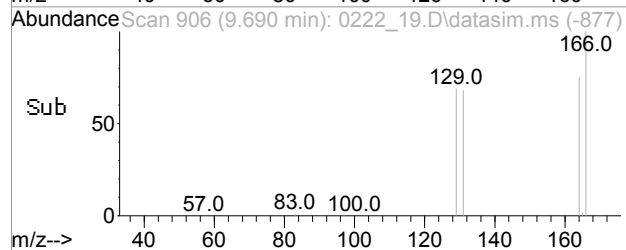




#105
Tetrachloroethene(sim)
Concen: 0.69 ppbv
RT: 9.688 min Scan# 906
Delta R.T. 0.001 min
Lab File: 0222_19.D
Acq: 22 Feb 2016 11:40 pm



Tgt Ion:166 Resp: 13690
Ion Ratio Lower Upper
166 100
164 80.2 57.8 97.8
129 74.1 50.7 90.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-3
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67671 10X</u>	
Canister:	<u>488</u>	Lab File ID:	<u>0222_41.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received:
				<u>02/19/16</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>02/23/16</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>10</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.81	U	5.81	5.81	r
75-71-8	Dichlorodifluoromethane	3.00		2.02	2.02	r
74-87-3	Chloromethane	4.85	U	4.85	4.85	r
106-99-0	1,3-Butadiene	4.52	U	4.52	4.52	r
75-00-3	Chloroethane	3.79	U	3.79	3.79	r
64-17-5	Ethanol	5.31	U	5.31	5.31	r
67-64-1	Acetone	11.0	S	4.21	4.21	r
67-63-0	Isopropylalcohol	4.07	U	4.07	4.07	r
107-13-1	Acrylonitrile	4.61	U	4.61	4.61	r
75-09-2	Methylene Chloride	2.88	U	2.88	2.88	r
156-60-5	Trans-1,2-Dichloroethene	6.27		2.52	2.52	r
1634-04-4	Methyl tert-butyl ether(MTBE)	2.78	U	2.78	2.78	r
78-93-3	Methyl Ethyl Ketone	3.39	U	3.39	3.39	r
156-59-2	Cis-1,2-Dichloroethene	71.1		2.52	2.52	r
110-54-3	Hexane	2.84	U	2.84	2.84	r
141-78-6	Ethyl acetate	2.78	U	2.78	2.78	r
109-99-9	Tetrahydrofuran	3.39	U	3.39	3.39	r
110-82-7	Cyclohexane	2.91	U	2.91	2.91	r
79-01-6	Trichloroethene	85.5		0.466	0.466	r
142-82-5	Heptane	2.44	U	2.44	2.44	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.44	U	2.44	2.44	r
10061-02-6	trans-1,3-Dichloropropene	2.20	U	2.20	2.20	r
108-88-3	Toluene	2.66	U	2.66	2.66	r
591-78-6	2-Hexanone(MBK)	2.44	U	2.44	2.44	r
127-18-4	Tetrachloroethene	410	E	0.369	0.369	
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	1.43	U	1.43	1.43	r
75-01-4	Vinyl Chloride(sim)	0.979	U	0.979	0.979	r
74-83-9	Bromomethane(sim)	2.58	U	2.58	2.58	r
75-69-4	Trichlorofluoromethane(sim)	1.78	U	1.78	1.78	r
107-06-2	1,2-Dichloroethane(sim)	2.47	U	2.47	2.47	r
71-55-6	1,1,1-Trichloroethane(sim)	1.83	U	1.83	1.83	r
56-23-5	Carbon Tetrachloride(sim)	0.397	U	0.397	0.397	r
75-35-4	1,1-Dichloroethene(sim)	2.52	U	2.52	2.52	r
75-15-0	Carbon Disulfide(sim)	3.21	U	3.21	3.21	r
76-13-1	Trichlorotrifluoroethane(sim)	1.31	U	1.31	1.31	r
75-34-3	1,1-Dichloroethane(sim)	2.47	U	2.47	2.47	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67671 10X
Canister:	488	Lab File ID:	0222_41.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200	(cc)	02/19/16
Matrix:	AIR	Dilution Factor:	10

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-66-3	Chloroform(sim)	2.05	U	2.05	2.05	r
71-43-2	Benzene(sim)	3.13	U	3.13	3.13	r
78-87-5	1,2-dichloropropane(sim)	2.17	U	2.17	2.17	r
75-27-4	Bromodichloromethane(sim)	1.49	U	1.49	1.49	r
123-91-1	1,4-Dioxane(sim)	2.78	U	2.78	2.78	r
10061-01-5	cis-1,3-Dichloropropene(sim)	2.20	U	2.20	2.20	r
79-00-5	1,1,2-Trichloroethane(sim)	1.83	U	1.83	1.83	r
124-48-1	Dibromochloromethane(sim)	1.17	U	1.17	1.17	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	1.30	U	1.30	1.30	r
75-25-2	Bromoform(sim)	0.968	U	0.968	0.968	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
108-90-7	Chlorobenzene(sim)	2.17	U	2.17	2.17	r
100-41-4	Ethylbenzene(sim)	2.30	U	2.30	2.30	r
179601-23-1	m,p-Xylene(sim)	2.30	U	2.30	2.30	r
100-42-5	Styrene(sim)	2.35	U	2.35	2.35	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	1.46	U	1.46	1.46	r
95-47-6	o-Xylene(sim)	2.30	U	2.30	2.30	r
98-82-8	Isopropylbenzene(sim)	2.04	U	2.04	2.04	r
622-96-8	4-Ethyltoluene(sim)	2.04	U	2.04	2.04	r
108-67-8	1,3,5-Trimethylbenzene(sim)	2.04	U	2.04	2.04	r
95-63-6	1,2,4-Trimethylbenzene(sim)	2.04	U	2.04	2.04	r
100-44-7	Benzyl chloride(sim)	1.93	U	1.93	1.93	r
541-73-1	1,3-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
106-46-7	1,4-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
135-98-8	sec-Butylbenzene(sim)	1.82	U	1.82	1.82	r
99-87-6	4-Isopropyltoluene(sim)	1.82	U	1.82	1.82	r
95-50-1	1,2-Dichlorobenzene(sim)	1.66	U	1.66	1.66	r
104-51-8	n-Butylbenzene(sim)	1.82	U	1.82	1.82	r
120-82-1	1,2,4-Trichlorobenzene(sim)	1.35	U	1.35	1.35	r
87-68-3	Hexachlorobutadiene(sim)	0.938	U	0.938	0.938	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_41.D
 Acq On : 23 Feb 2016 01:47 pm
 Operator : CORTEX\ms
 Client ID : SS-3
 Lab ID : BK67671 10X
 ALS Vial : 1 Sample Multiplier: 1

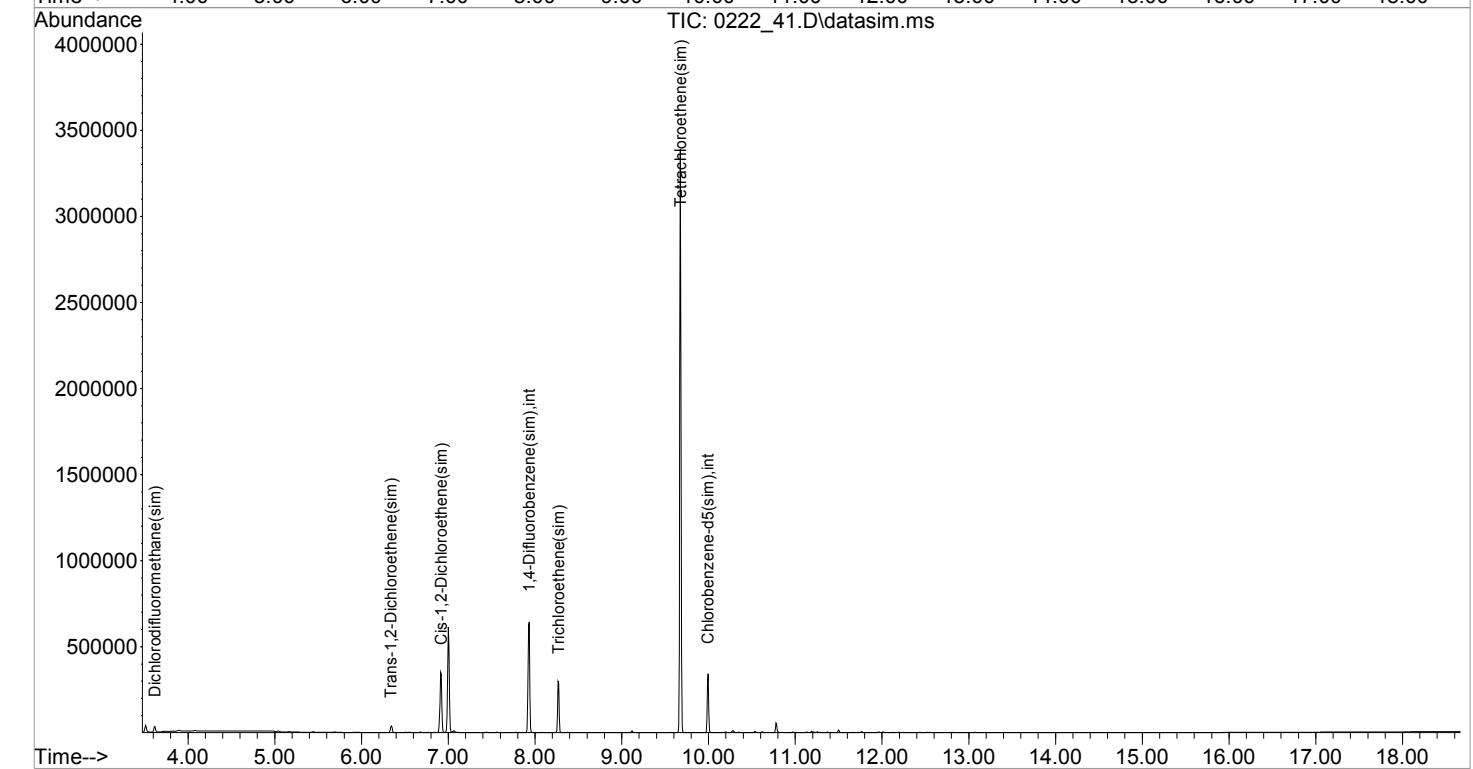
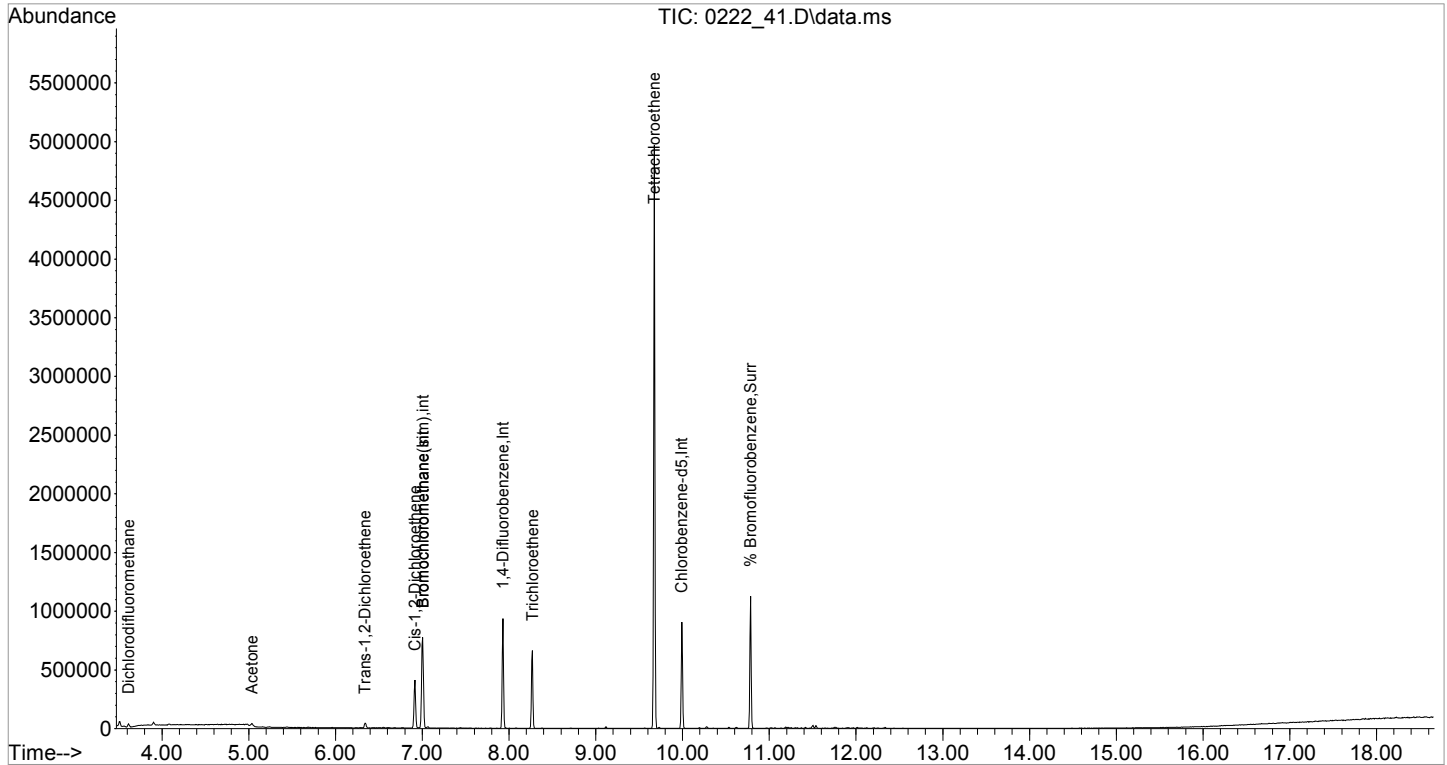
Quant Time: Feb 23 14:18:51 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

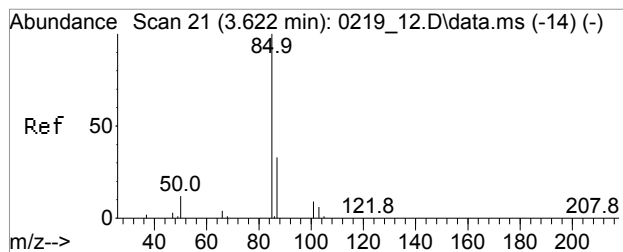
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	156785	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	422734	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	163704	10.000	ng	-0.03
79) Bromochloromethane(sim)	7.006	130	156785	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	517064	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	178472	10.000	ng	-0.03
System Monitoring Compounds						
61) % Bromofluorobenzene	10.784	95	220265	10.189	ppbv	-0.06
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.90%
Target Compounds						Qvalue
3) Dichlorodifluoromethane	3.615	85	19988	0.300	ppbv#	95
11) Acetone	5.036	43	30686	1.099	ppbv	91
21) Trans-1,2-Dichloroethene	6.340	61	19491	0.627	ppbv	92
25) Cis-1,2-Dichloroethene	6.915	61	172700	7.106	ppbv	91
38) Trichloroethene	8.270	130	125531	8.551	ppbv	96
51) Tetrachloroethene	9.673	166	881856	41.392	ppbv	99
80] Dichlorodifluoromethan...	3.618	85	26836	0.324	ppbv	99
91] Trans-1,2-Dichloroethe...	6.340	61	19491	0.597	ppbv	92
93] Cis-1,2-Dichloroethene...	6.915	61	172700	6.749	ppbv	91
99] Trichloroethene(sim)	8.270	130	125531	7.086	ppbv	98
105] Tetrachloroethene(sim)	9.673	166	881856	40.557	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_41.D
Acq On : 23 Feb 2016 01:47 pm
Operator : CORTEX\ms
Client ID : SS-3
Lab ID : BK67671 10X
ALS Vial : 1 Sample Multiplier: 1

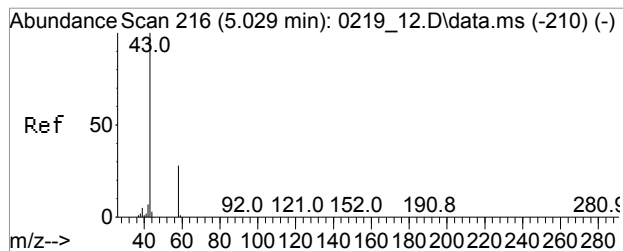
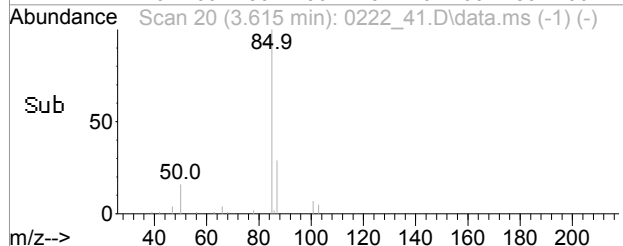
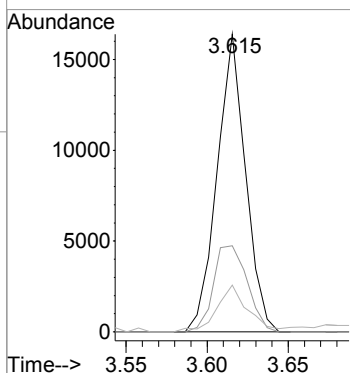
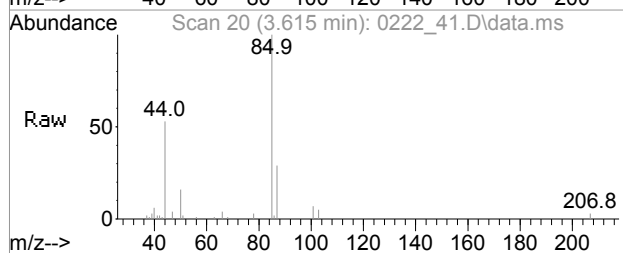
Quant Time: Feb 23 14:18:51 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





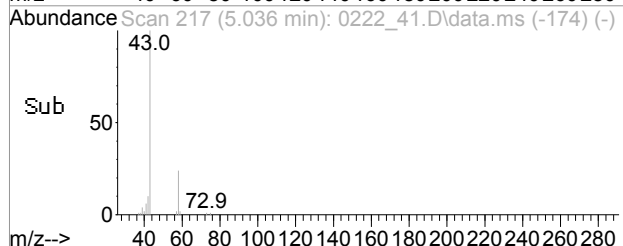
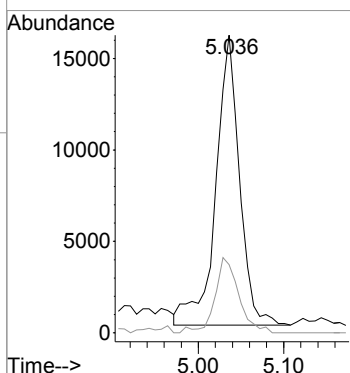
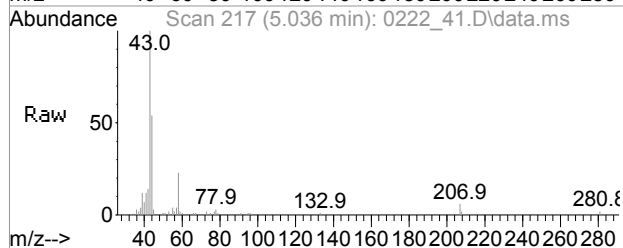
#3
Dichlorodifluoromethane
Concen: 0.30 ppbv
RT: 3.615 min Scan# 20
Delta R.T. -0.015 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

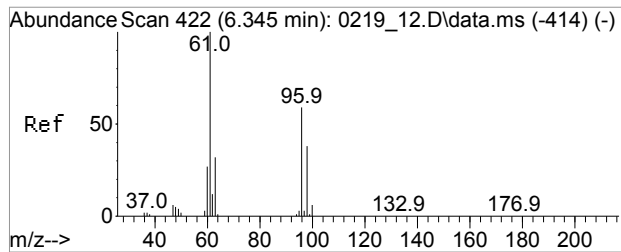
Tgt Ion: 85 Resp: 19988
Ion Ratio Lower Upper
85 100
87 34.3 26.1 39.1
50 17.0 10.5 15.7#



#11
Acetone
Concen: 1.10 ppbv
RT: 5.036 min Scan# 217
Delta R.T. 0.007 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

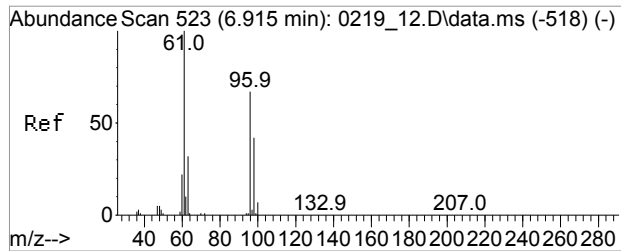
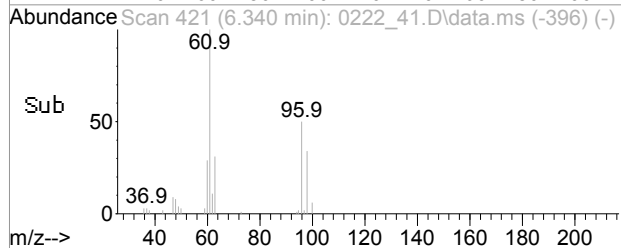
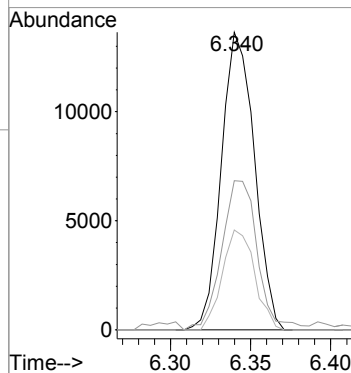
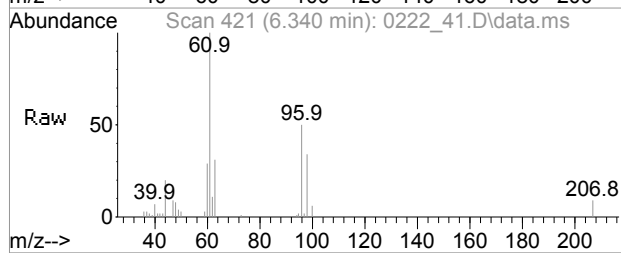
Tgt Ion: 43 Resp: 30686
Ion Ratio Lower Upper
43 100
58 26.0 24.8 37.2





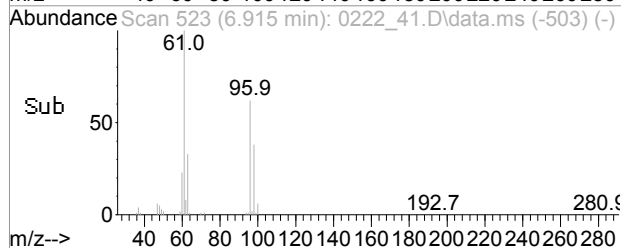
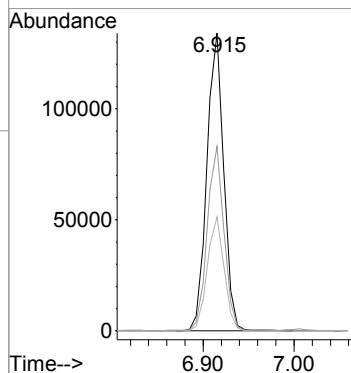
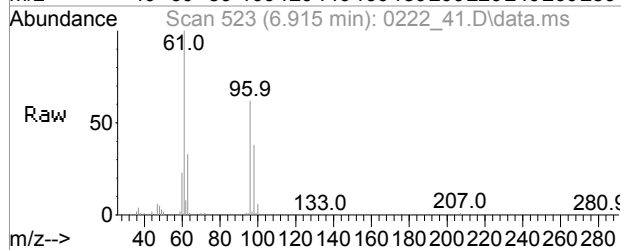
#21
 Trans-1,2-Dichloroethene
 Concen: 0.63 ppbv
 RT: 6.340 min Scan# 421
 Delta R.T. -0.005 min
 Lab File: 0222_41.D
 Acq: 23 Feb 2016 01:47 pm

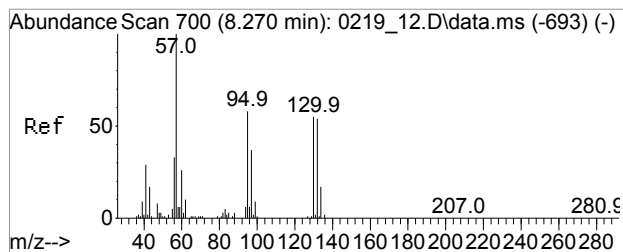
Tgt Ion:	61	Resp:	19491
Ion	Ratio	Lower	Upper
61	100		
96	54.4	48.4	72.6
98	32.9	30.6	45.8



#25
 Cis-1,2-Dichloroethene
 Concen: 7.11 ppbv
 RT: 6.915 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: 0222_41.D
 Acq: 23 Feb 2016 01:47 pm

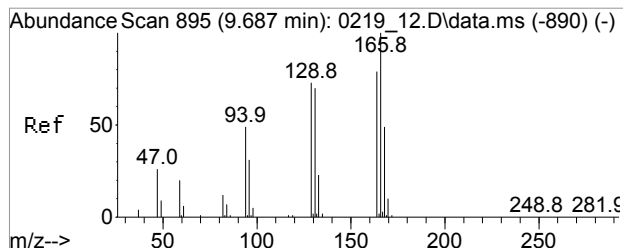
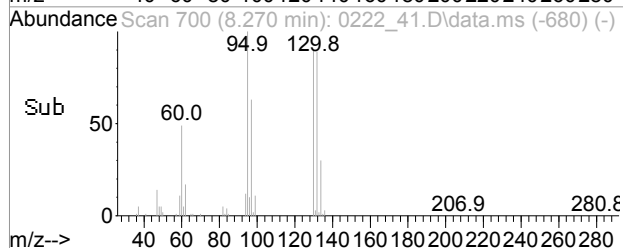
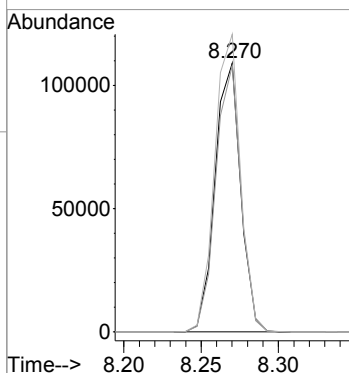
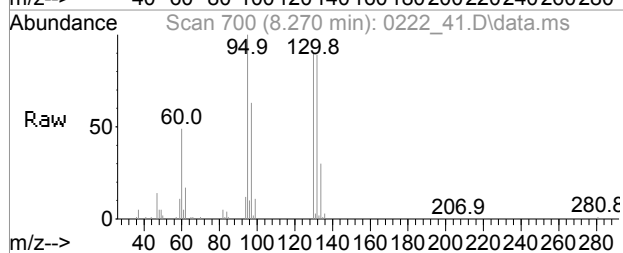
Tgt Ion:	61	Resp:	172700
Ion	Ratio	Lower	Upper
61	100		
96	61.9	55.1	82.7
98	38.3	35.7	53.5





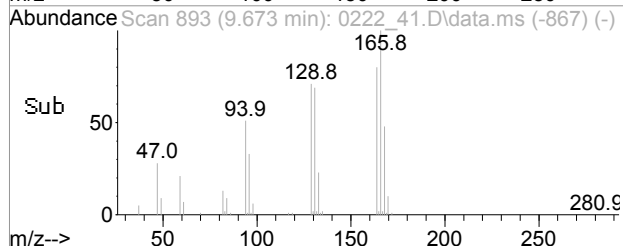
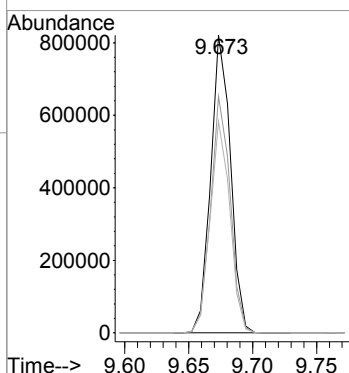
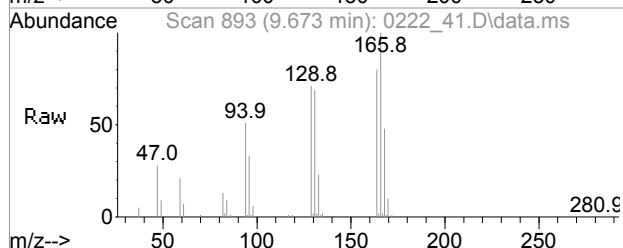
#38
Trichloroethene
Concen: 8.55 ppbv
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

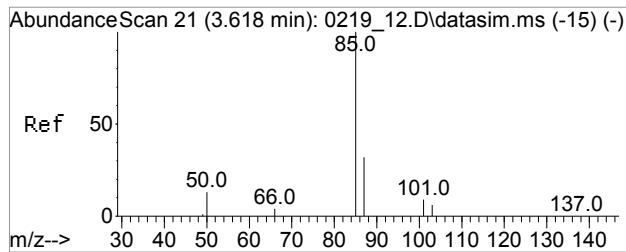
Tgt Ion	Ratio	Lower	Upper
130	100		
132	96.8	77.2	115.8
95	111.4	82.7	124.1



#51
Tetrachloroethene
Concen: 41.39 ppbv
RT: 9.673 min Scan# 893
Delta R.T. -0.014 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

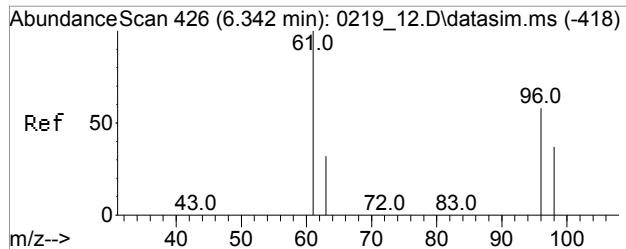
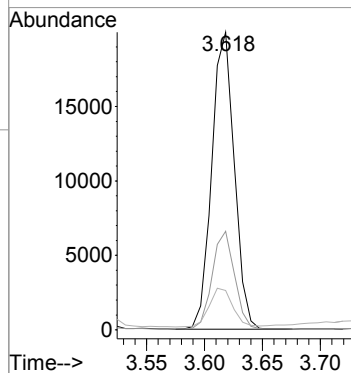
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.6	62.2	93.4
129	71.0	56.6	84.8





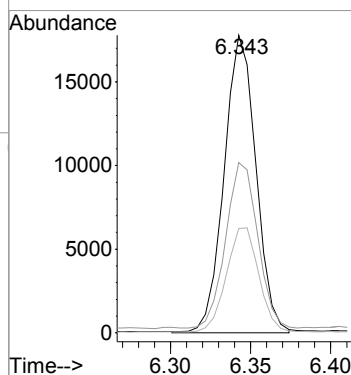
#80
Dichlorodifluoromethane(sim)
Concen: 0.32 ppbv
RT: 3.618 min Scan# 21
Delta R.T. -0.007 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

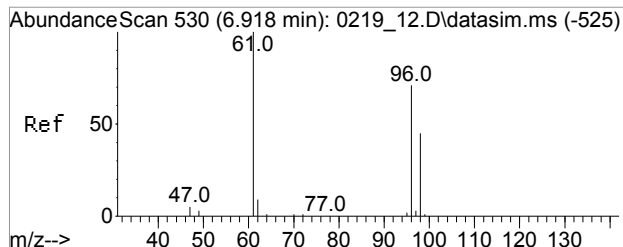
Tgt Ion: 85 Resp: 26836
Ion Ratio Lower Upper
85 100
87 32.6 12.7 52.7
50 13.6 0.0 32.3



#91
Trans-1,2-Dichloroethene(sim)
Concen: 0.60 ppbv
RT: 6.340 min Scan# 425
Delta R.T. -0.005 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

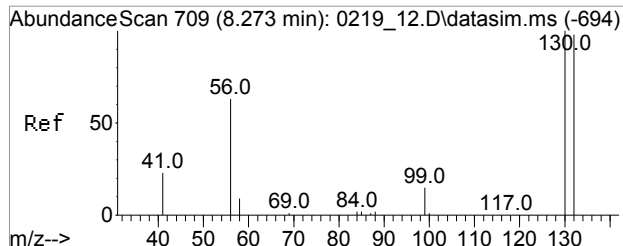
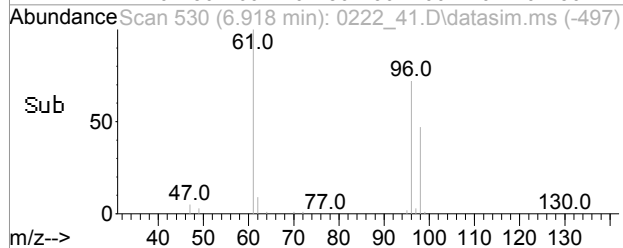
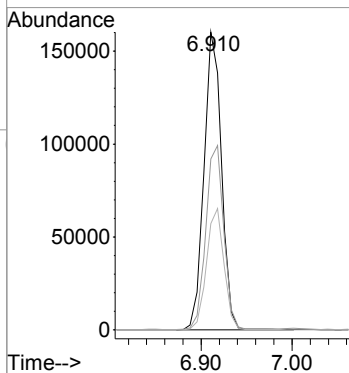
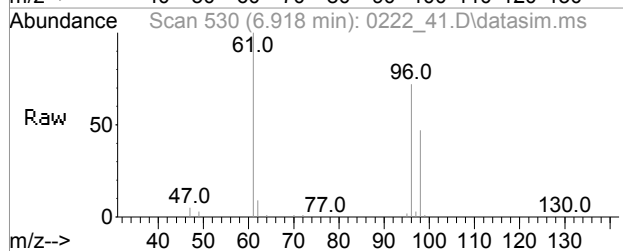
Tgt Ion: 61 Resp: 19491
Ion Ratio Lower Upper
61 100
96 54.4 48.4 72.6
98 32.9 30.6 45.8





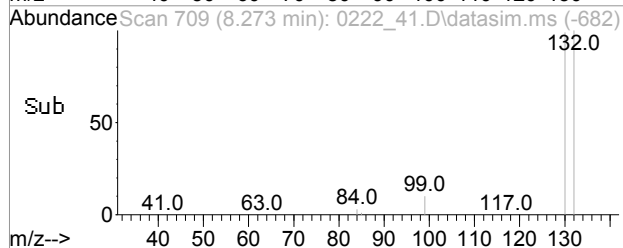
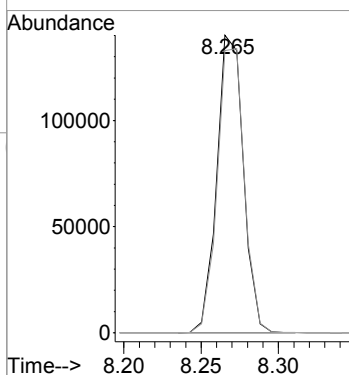
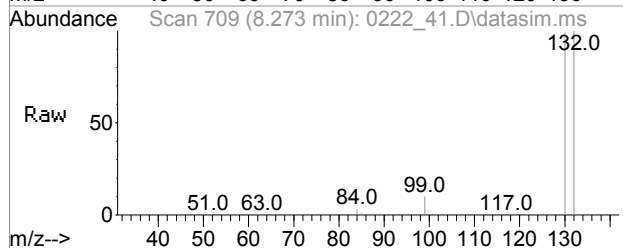
#93
Cis-1,2-Dichloroethene(sim)
Concen: 6.75 ppbv
RT: 6.915 min Scan# 530
Delta R.T. 0.000 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

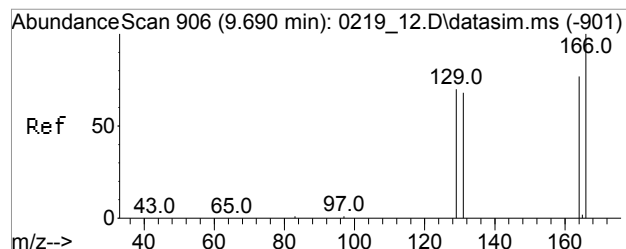
Tgt Ion: 61 Resp: 172700
Ion Ratio Lower Upper
61 100
96 61.9 55.1 82.7
98 38.3 35.7 53.5



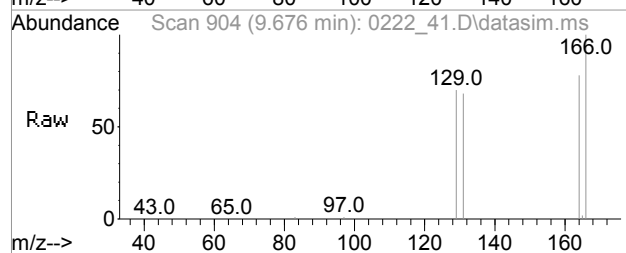
#99
Trichloroethene(sim)
Concen: 7.09 ppbv
RT: 8.270 min Scan# 709
Delta R.T. 0.000 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm

Tgt Ion:130 Resp: 125531
Ion Ratio Lower Upper
130 100
132 96.7 77.2 115.8
97 70.8 53.5 80.3



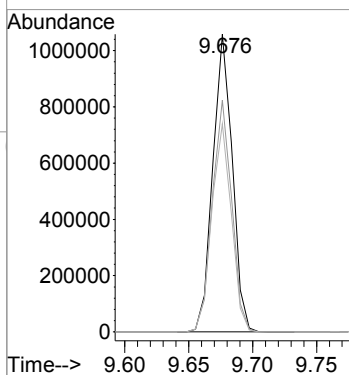
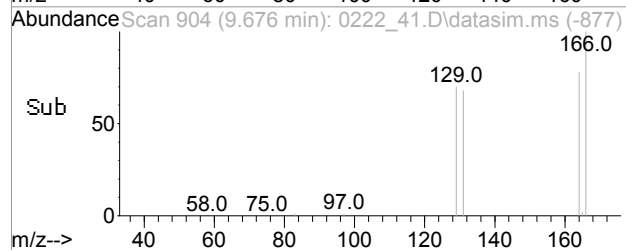


#105
Tetrachloroethene(sim)
Concen: 40.56 ppbv
RT: 9.673 min Scan# 904
Delta R.T. -0.014 min
Lab File: 0222_41.D
Acq: 23 Feb 2016 01:47 pm



Tgt Ion:166 Resp: 881856

Ion	Ratio	Lower	Upper
166	100		
164	78.6	57.8	97.8
129	71.0	50.7	90.7



Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK67671 30X
Canister:	488	Lab File ID:	0222_52.D
Instrument:	CHEM20	Column:	zb-1ms
Purge Volume	200	Date Received:	02/19/16
	(cc)	Date Analyzed:	02/23/16
Matrix:	AIR	Dilution Factor:	30

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_52.D
 Acq On : 23 Feb 2016 09:06 pm
 Operator : CORTEX\ms
 Client ID : SS-3 DIL
 Lab ID : BK67671 30X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:28:20 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

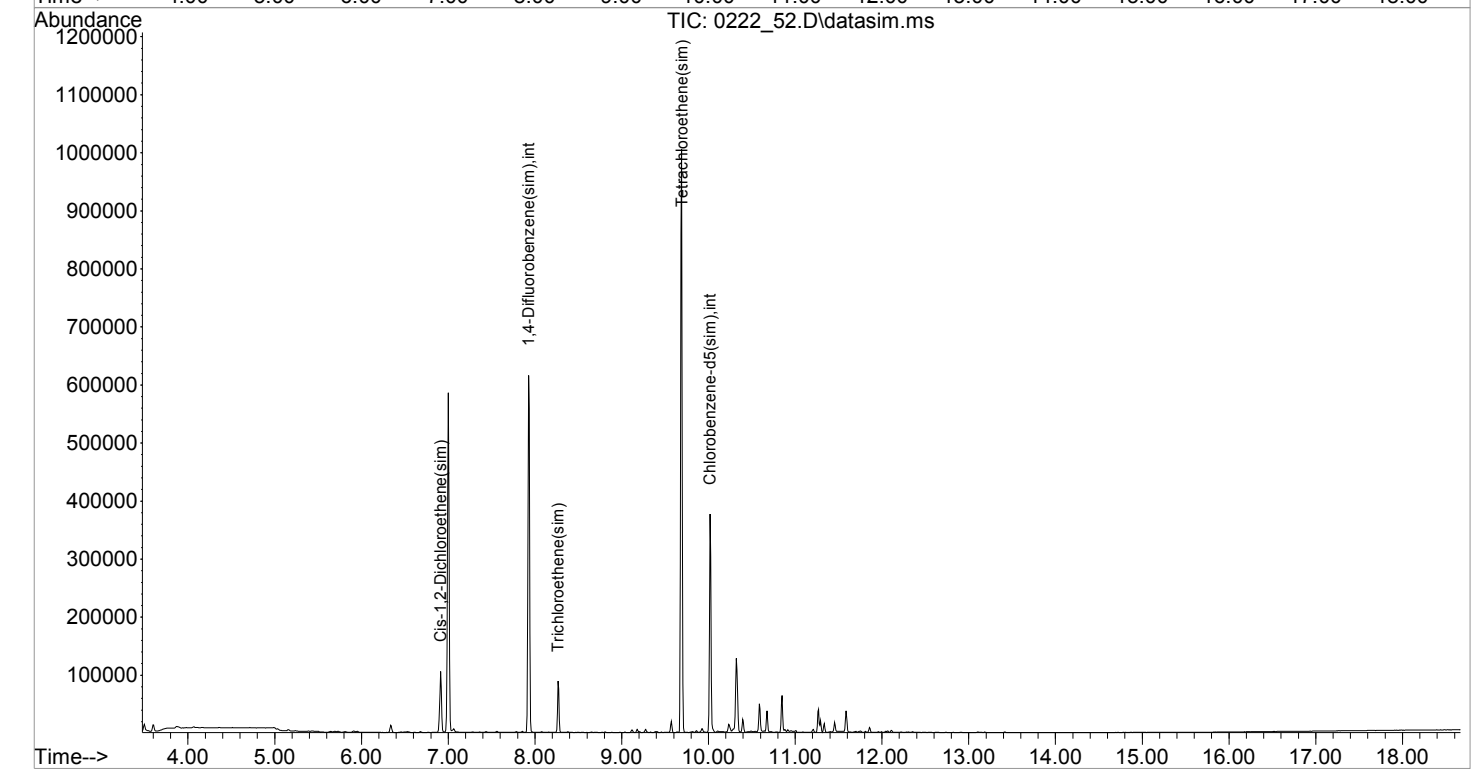
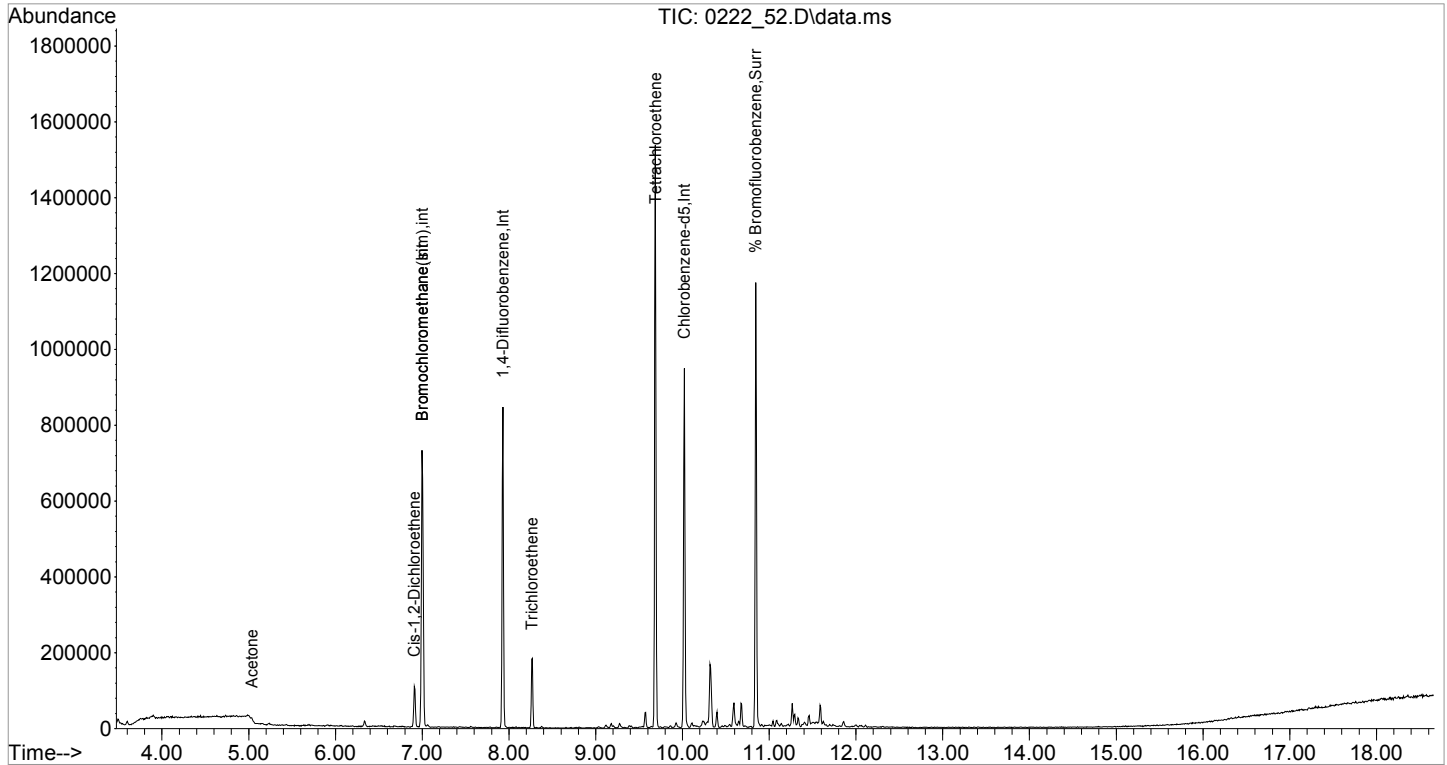
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

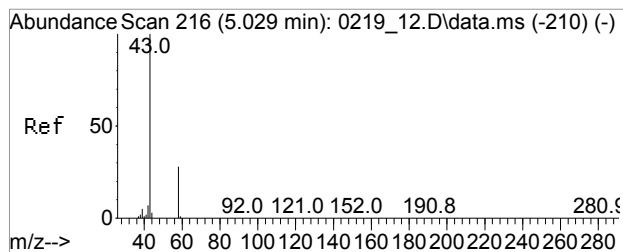
Internal Standards						
1) Bromochloromethane	6.999	130	143166	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	386467	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	180478	10.000	ng	0.00
79) Bromochloromethane(sim)	6.999	130	143166	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	478724	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.018	82	197071	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.844	95	248725	10.436	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.40%
Target Compounds						
						Qvalue
11) Acetone	5.036	43	12270	0.481	ppbv	94
25) Cis-1,2-Dichloroethene	6.908	61	49317	2.222	ppbv	89
38) Trichloroethene	8.263	130	34763	2.590	ppbv	96
51) Tetrachloroethene	9.688	166	264111	13.560	ppbv	98
93] Cis-1,2-Dichloroethene...	6.908	61	49317	2.111	ppbv	89
99] Trichloroethene(sim)	8.263	130	34763	2.120	ppbv	97
105] Tetrachloroethene(sim)	9.688	166	264111	13.119	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_52.D
Acq On : 23 Feb 2016 09:06 pm
Operator : CORTEX\ms
Client ID : SS-3 DIL
Lab ID : BK67671 30X
ALS Vial : 1 Sample Multiplier: 1

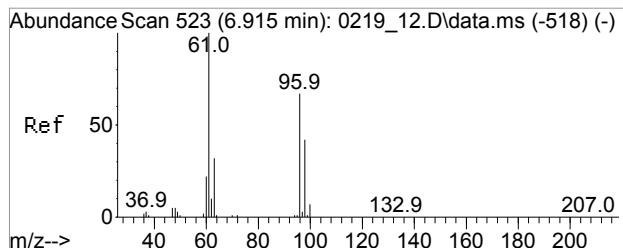
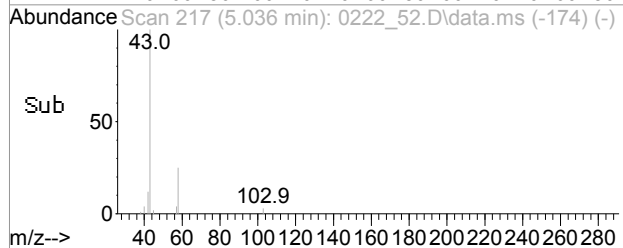
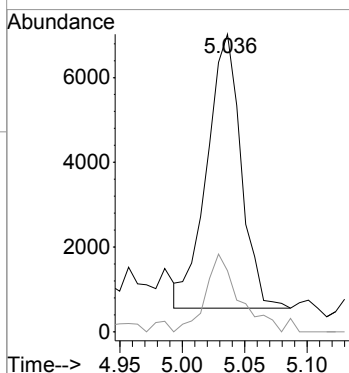
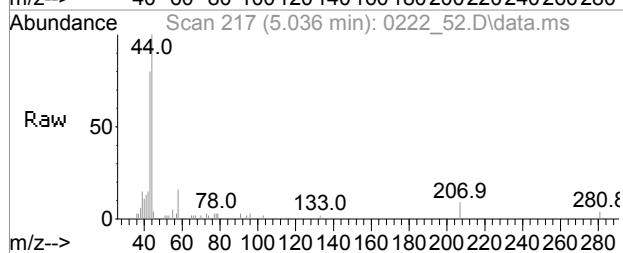
Quant Time: Feb 24 08:28:20 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration





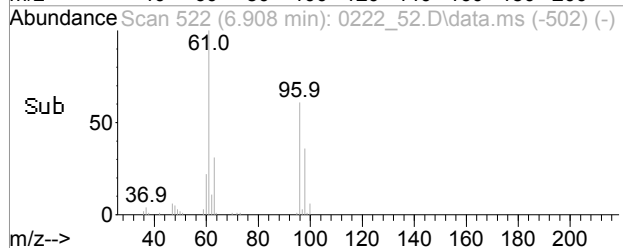
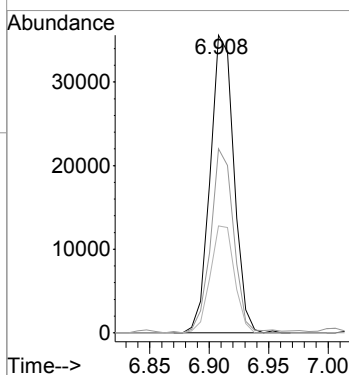
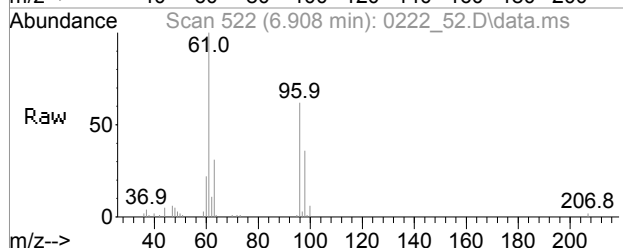
#11
Acetone
Concen: 0.48 ppbv
RT: 5.036 min Scan# 217
Delta R.T. 0.007 min
Lab File: 0222_52.D
Acq: 23 Feb 2016 09:06 pm

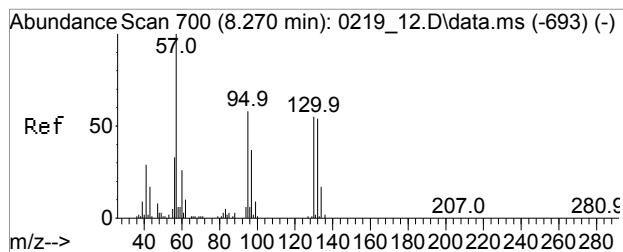
Tgt Ion: 43 Resp: 12270
Ion Ratio Lower Upper
43 100
58 27.8 24.8 37.2



#25
Cis-1,2-Dichloroethene
Concen: 2.22 ppbv
RT: 6.908 min Scan# 522
Delta R.T. -0.007 min
Lab File: 0222_52.D
Acq: 23 Feb 2016 09:06 pm

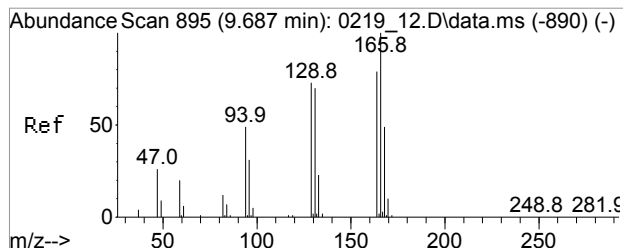
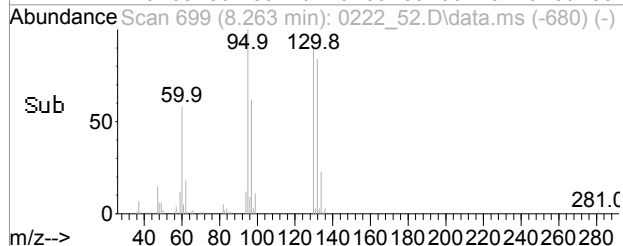
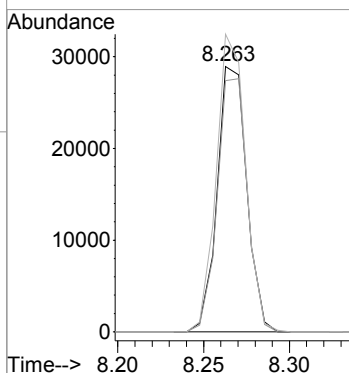
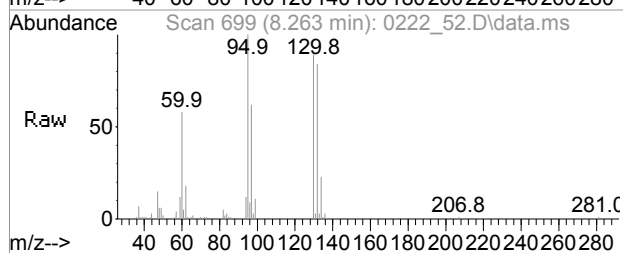
Tgt Ion: 61 Resp: 49317
Ion Ratio Lower Upper
61 100
96 61.0 55.1 82.7
98 36.5 35.7 53.5





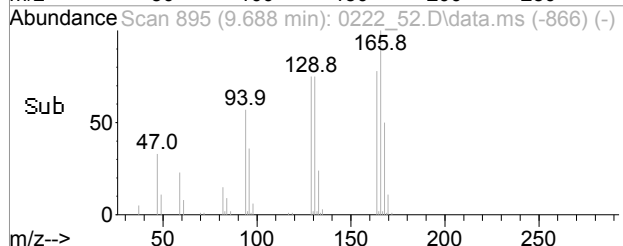
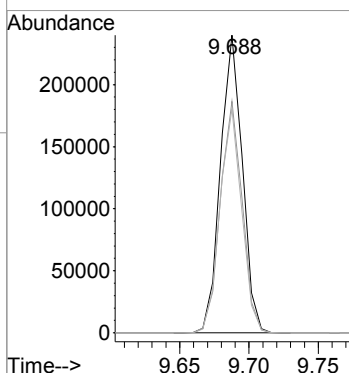
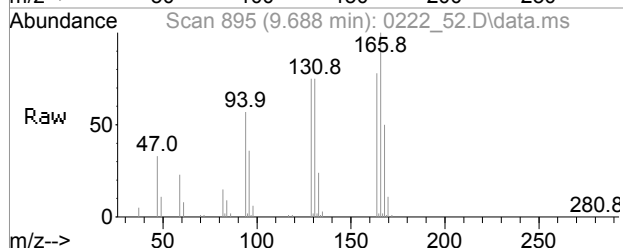
#38
Trichloroethene
Concen: 2.59 ppbv
RT: 8.263 min Scan# 699
Delta R.T. -0.007 min
Lab File: 0222_52.D
Acq: 23 Feb 2016 09:06 pm

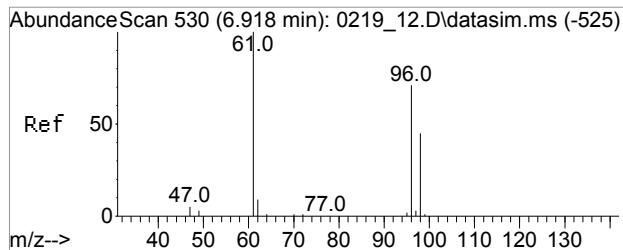
Tgt Ion:130 Resp: 34763
Ion Ratio Lower Upper
130 100
132 96.7 77.2 115.8
95 110.7 82.7 124.1



#51
Tetrachloroethene
Concen: 13.56 ppbv
RT: 9.688 min Scan# 895
Delta R.T. 0.001 min
Lab File: 0222_52.D
Acq: 23 Feb 2016 09:06 pm

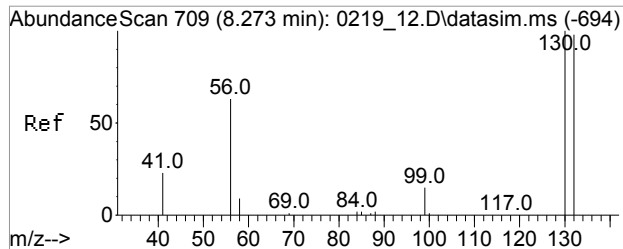
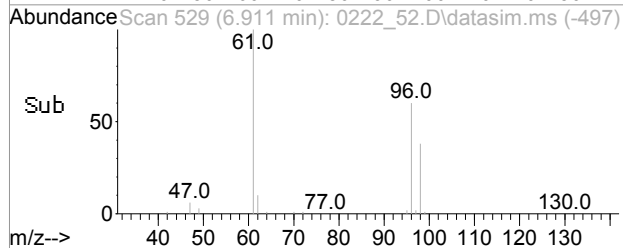
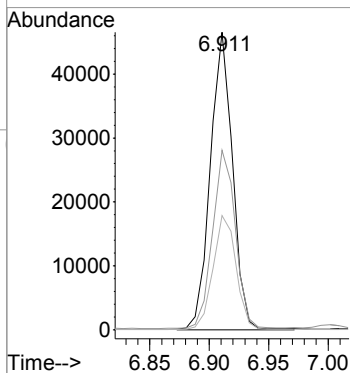
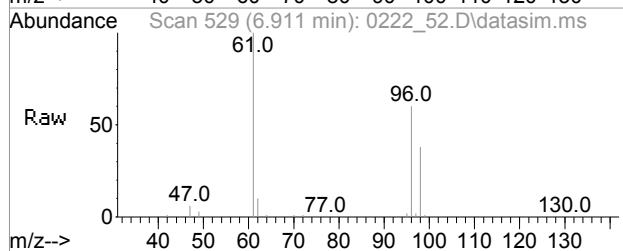
Tgt Ion:166 Resp: 264111
Ion Ratio Lower Upper
166 100
164 77.8 62.2 93.4
129 74.8 56.6 84.8





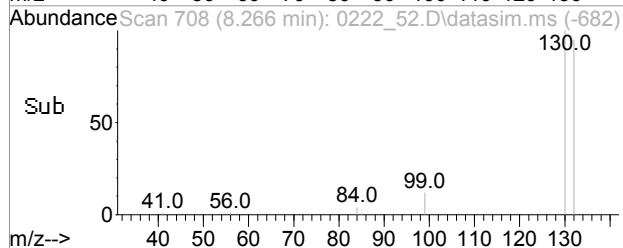
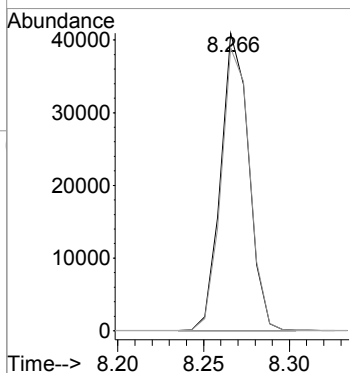
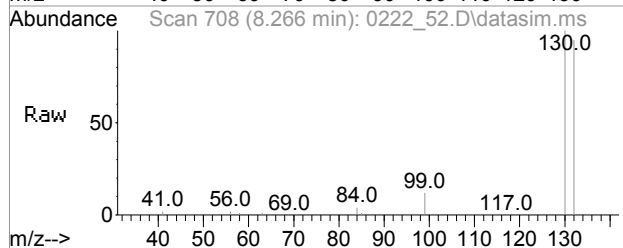
#93
Cis-1,2-Dichloroethene(sim)
Concen: 2.11 ppbv
RT: 6.908 min Scan# 529
Delta R.T. -0.007 min
Lab File: 0222_52.D
Acq: 23 Feb 2016 09:06 pm

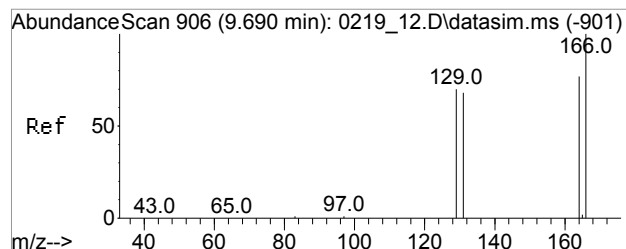
Tgt Ion: 61 Resp: 49317
Ion Ratio Lower Upper
61 100
96 61.0 55.1 82.7
98 36.5 35.7 53.5



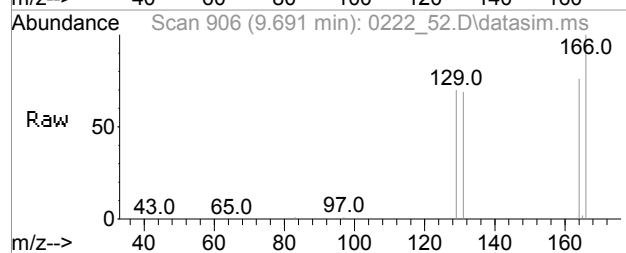
#99
Trichloroethene(sim)
Concen: 2.12 ppbv
RT: 8.263 min Scan# 708
Delta R.T. -0.007 min
Lab File: 0222_52.D
Acq: 23 Feb 2016 09:06 pm

Tgt Ion: 130 Resp: 34763
Ion Ratio Lower Upper
130 100
132 96.7 77.2 115.8
97 73.4 53.5 80.3

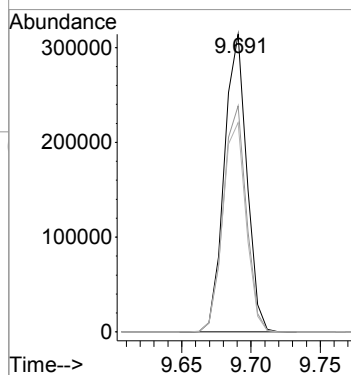
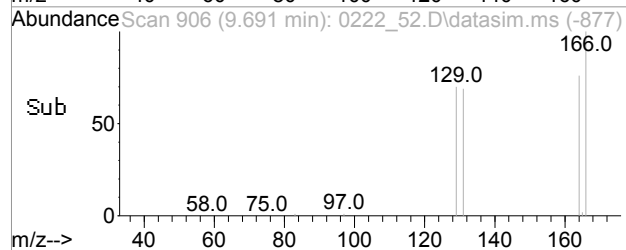




#105
 Tetrachloroethene(sim)
 Concen: 13.12 ppbv
 RT: 9.688 min Scan# 906
 Delta R.T. 0.001 min
 Lab File: 0222_52.D
 Acq: 23 Feb 2016 09:06 pm



Tgt Ion:166 Resp: 264111
 Ion Ratio Lower Upper
 166 100
 164 77.8 57.8 97.8
 129 74.8 50.7 90.7



6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM20 Calibration Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Calibration Time(s): 20:47 01:54

GC Column: zb-1ms

LAB FILE ID:

RRF0.1 = 0219_07.D RRF0.5 = 0219_09.D RRF2.5 = 0219_11.D RRF10 = 0219_13.D RRF40 = 0219_15.D
 RRF0.25 = 0219_08.D RRF1 = 0219_10.D RRF5 = 0219_12.D RRF25 = 0219_14.D

COMPOUND		RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10	RRF25	RRF40		— RRF	% RSD
Propylene				1.558	1.475	1.500	1.628	1.611	1.559	1.543		1.553	3.5
Dichlorodifluoromethane			4.147	4.114	4.132	4.244	4.588	4.478	4.217	4.123		4.255	4.2
Chloromethane			0.433	0.318	0.410	0.351	0.339	0.321	0.293	0.299		0.346	14.7
1,2-Dichlorotetrafluoroethane			3.094	2.958	2.939	2.887	3.201	3.045	2.817	2.734		2.959	5.1
Vinyl Chloride			1.195	1.051	1.042	1.014	1.098	1.055	1.001	0.978		1.054	6.4
1,3-Butadiene			0.856	0.791	0.760	0.726	0.788	0.779	0.719	0.707		0.766	6.4
Bromomethane			1.262	1.047	1.071	1.072	1.163	1.140	1.087	1.084		1.116	6.3
Chloroethane			0.577	0.486	0.507	0.458	0.500	0.491	0.454	0.453		0.491	8.3
Ethanol				0.362	0.338	0.327	0.346	0.311	0.283	0.252		0.317	12.1
Acetone			2.562	1.905	1.929	1.594	1.774	1.546	1.488	1.442		1.780	20.6
Trichlorofluoromethane			3.573	3.681	3.558	3.712	4.031	3.976	3.768	3.797		3.762	4.6
Isopropylalcohol				4.237	3.238	3.116	3.373	3.236	2.986	2.600		3.255	15.4
Acrylonitrile			1.479	1.330	1.289	1.240	1.399	1.341	1.295	1.307		1.335	5.5
1,1-Dichloroethene			2.623	2.563	2.484	2.527	2.799	2.702	2.601	2.607		2.613	3.8
Methylene Chloride			2.075	2.096	2.047	2.070	2.240	2.179	2.054	2.045		2.101	3.4
Carbon Disulfide			3.915	3.990	3.938	3.951	4.321	4.230	3.980	3.973		4.037	3.7
Trichlorotrifluoroethane			2.763	2.701	2.681	2.748	2.986	2.929	2.764	2.780		2.794	3.8
Trans-1,2-Dichloroethene			1.916	1.935	1.956	1.977	2.144	2.051	1.957	1.935		1.984	3.9
1,1-Dichloroethane			2.425	2.358	2.416	2.358	2.614	2.502	2.335	2.282		2.411	4.4
Methyl tert-butyl ether(MTBE)			3.280	3.029	3.027	3.015	3.331	3.214	3.056	3.008		3.120	4.3
Methyl Ethyl Ketone			2.468	2.491	2.344	2.349	2.609	2.524	2.390	2.304		2.435	4.3
Cis-1,2-Dichloroethene			1.558	1.559	1.538	1.491	1.662	1.581	1.527	1.485		1.550	3.6

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM20 Calibration Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Calibration Time(s): 20:47 01:54

GC Column: zb-1ms

LAB FILE ID:

RRF0.1 = 0219_07.D RRF0.5 = 0219_09.D RRF2.5 = 0219_11.D RRF10 = 0219_13.D RRF40 = 0219_15.D
 RRF0.25 = 0219_08.D RRF1 = 0219_10.D RRF5 = 0219_12.D RRF25 = 0219_14.D

COMPOUND		RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10	RRF25	RRF40		— RRF	% RSD
Hexane			1.273	1.284	1.260	1.279	1.400	1.323	1.231	1.184		1.279	5.0
Chloroform			2.392	2.292	2.299	2.312	2.527	2.447	2.317	2.259		2.356	3.9
Ethyl acetate			3.693		3.175	3.192	3.384	3.232	2.995	2.821		3.213	8.6
Tetrahydrofuran			0.942	0.936	0.948	0.875	0.982	0.937	0.895	0.872		0.923	4.2
1,2-Dichloroethane			1.277	1.395	1.384	1.377	1.534	1.447	1.389	1.343		1.393	5.4
1,1,1-Trichloroethane			2.012	2.041	2.039	2.025	2.216	2.151	2.030	1.985		2.062	3.8
Benzene			2.249	2.105	2.156	2.053	2.262	2.165	2.059	2.014		2.133	4.3
Carbon Tetrachloride			1.928	1.910	1.921	2.012	2.188	2.108	1.992	1.949		2.001	5.0
Cyclohexane			0.685	0.577	0.561	0.534	0.557	0.542	0.505	0.483		0.556	10.9
1,2-dichloropropane			0.281	0.266	0.263	0.267	0.286	0.279	0.264	0.257		0.270	3.8
Bromodichloromethane			0.662	0.622	0.773	0.797	0.842	0.801	0.768	0.723		0.749	10.0
Trichloroethene			0.335	0.332	0.353	0.347	0.377	0.362	0.344	0.329		0.347	4.7
1,4-Dioxane			0.151	0.159	0.171	0.156	0.175	0.165	0.153	0.134		0.158	8.2
Heptane			0.390	0.319	0.319	0.316	0.337	0.322	0.304	0.291		0.325	9.1
cis-1,3-Dichloropropene			0.385	0.386	0.478	0.408	0.508	0.494	0.462	0.453		0.447	10.8
4-Methyl-2-pentanone(MIBK)			0.507	0.424	0.513	0.506	0.562	0.515	0.506	0.465		0.500	8.1
trans-1,3-Dichloropropene			0.354	0.329	0.364	0.396	0.415	0.420	0.410	0.396		0.386	8.5
1,1,2-Trichloroethane			0.301	0.303	0.301	0.305	0.332	0.326	0.311	0.305		0.311	3.8
Toluene			0.754	0.745	0.721	0.724	0.807	0.785	0.750	0.731		0.752	4.0
Dibromochloromethane			0.607	0.589	0.651	0.664	0.735	0.745	0.725	0.698		0.677	8.7
2-Hexanone(MBK)			0.382	0.375	0.405	0.418	0.469	0.461	0.446	0.431		0.423	8.2
1,2-Dibromoethane(EDB)			0.492	0.511	0.596	0.594	0.657	0.640	0.626	0.602		0.590	10.0

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM20 Calibration Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Calibration Time(s): 20:47 01:54

GC Column: zb-1ms

LAB FILE ID:

RRF0.1 = 0219_07.D RRF0.5 = 0219_09.D RRF2.5 = 0219_11.D RRF10 = 0219_13.D RRF40 = 0219_15.D
 RRF0.25 = 0219_08.D RRF1 = 0219_10.D RRF5 = 0219_12.D RRF25 = 0219_14.D

COMPOUND		RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10	RRF25	RRF40		— RRF	% RSD
Tetrachloroethene			0.455	0.471	0.490	0.502	0.548	0.539	0.521	0.506		0.504	6.3
1,1,1,2-Tetrachloroethane			0.947	0.962	0.948	0.934	1.006	0.947	0.867	0.813		0.928	6.5
Chlorobenzene			1.631	1.558	1.618	1.610	1.690	1.612	1.424	1.327		1.559	7.8
Ethylbenzene			2.533	2.518	2.498	2.466	2.681	2.534	2.263	2.089		2.448	7.6
m,p-Xylene			1.983	1.906	1.594	1.845	2.090	1.983	1.691	1.575		1.833	10.5
Bromoform			1.368	1.334	1.379	1.504	1.731	1.697	1.591	1.502		1.513	9.9
Styrene			1.180	1.184	1.302	1.295	1.471	1.453	1.349	1.266		1.313	8.3
1,1,2,2-Tetrachloroethane			1.716	1.584	1.723	1.722	1.828	1.681	1.492	1.355		1.638	9.3
o-Xylene			2.206	2.044	2.098	2.021	2.148	1.965	1.766	1.589		1.980	10.4
Isopropylbenzene			2.646	2.486	2.635	2.588	2.760	2.600	2.284	2.140		2.517	8.2
4-Ethyltoluene			2.704	2.767	2.802	2.831	3.028	2.860	2.529	2.340		2.733	7.8
1,3,5-Trimethylbenzene			2.502	2.195	2.328	2.319	2.540	2.321	2.065	1.911		2.273	9.3
1,2,4-Trimethylbenzene			2.394	2.275	2.053	1.846	2.257	2.214	1.940	1.752		2.091	11.0
Benzyl chloride			1.836	1.875	2.242	2.282	2.483	2.353	2.112	1.966		2.144	11.0
1,3-Dichlorobenzene			1.786	1.750	1.825	1.762	1.979	1.872	1.640	1.536		1.769	7.7
1,4-Dichlorobenzene			1.701	1.685	1.783	1.691	1.909	1.857	1.659	1.559		1.731	6.5
sec-Butylbenzene			3.279	3.268	2.057	1.846	3.356	3.174	2.745	2.522		2.781	21.2
4-Isopropyltoluene			2.780	2.934	2.932	2.905	2.986	2.804	2.455	2.255		2.756	9.5
1,2-Dichlorobenzene			1.844	1.706	1.814	1.779	1.925	1.791	1.639	1.548		1.756	6.8
n-Butylbenzene			2.536	2.569	2.667	2.693	2.752	2.635	2.304	2.138		2.537	8.3
1,2,4-Trichlorobenzene			1.303	1.254	1.435	1.576	1.604	1.609	1.463	1.417		1.458	9.2
Hexachlorobutadiene			1.581	1.482	1.505	1.523	1.533	1.470	1.300	1.184		1.447	9.3

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM20 Calibration Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Calibration Time(s): 19:27 00:38

GC Column: zb-1ms

LAB FILE ID:

RRF0.035 = 0219_05.D RRF0.1 = 0219_07.D RRF0.5 = 0219_09.D RRF2.5 = 0219_11.D RRF10 = 0219_13.D
 RRF0.05 = 0219_06.D RRF0.25 = 0219_08.D RRF1 = 0219_10.D RRF5 = 0219_12.D

COMPOUND		RRF0.035	RRF0.05	RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10		— RRF	% RSD
Dichlorodifluoromethane(sim)		5.568	5.269	5.221	5.135	5.086	5.137	5.161	5.672			5.281	4.1
1,2-Dichlorotetrafluoroethane(sim)			3.379	3.118	3.094	2.958	2.939	2.887	3.201			3.082	5.6
Vinyl Chloride(sim)		1.336	1.337	1.255	1.278	1.192	1.203	1.197	1.308			1.263	4.8
Bromomethane(sim)		1.781	1.436	1.665	1.406	1.047	1.071	1.072	1.163			1.330	21.5
Trichlorofluoromethane(sim)		5.031	4.732	4.792	4.697	4.611	4.655	4.688	5.136			4.793	3.9
1,2-Dichloroethane(sim)		1.569	1.498	1.407	1.277	1.395	1.384	1.377	1.534			1.430	6.7
1,1,1-Trichloroethane(sim)		2.733	2.547	2.491	2.501	2.455	2.454	2.467	2.723			2.546	4.6
Carbon Tetrachloride(sim)		2.056	2.331	2.061	1.928	1.910	1.921	2.012	2.188			2.051	7.2
1,1-Dichloroethene(sim)		3.358	3.288	3.139	3.077	3.051	3.071	3.099	3.415			3.187	4.5
Carbon Disulfide(sim)		4.195	4.065	4.100	3.915	3.990	3.938	3.951	4.321			4.059	3.5
Trichlorotrifluoroethane(sim)		3.871	3.670	3.614	3.560	3.489	3.511	3.479	3.818			3.627	4.1
Trans-1,2-Dichloroethene(sim)		2.512	2.244	1.983	1.916	1.935	1.956	1.977	2.144			2.083	10.0
1,1-Dichloroethane(sim)		3.151	3.014	3.007	2.879	2.847	2.821	2.811	3.081			2.951	4.4
Cis-1,2-Dichloroethene(sim)		2.085	1.605	1.558	1.558	1.559	1.538	1.491	1.662			1.632	11.6
Chloroform(sim)		3.096	2.905	2.895	2.853	2.807	2.814	2.806	3.067			2.905	4.0
Benzene(sim)		2.920	2.673	2.484	2.249	2.105	2.156	2.053	2.262			2.363	12.9
1,2-dichloropropane(sim)		0.322	0.290	0.204	0.237	0.226	0.224	0.225	0.245			0.247	16.0
Bromodichloromethane(sim)		0.814	0.760	0.714	0.679	0.687	0.801	0.804	0.876			0.767	9.0
Trichloroethene(sim)		0.428	0.430	0.307	0.282	0.282	0.300	0.293	0.420			0.343	20.3
1,4-Dioxane(sim)		0.212	0.189	0.169	0.153	0.149	0.148	0.143				0.166	15.5
cis-1,3-Dichloropropene(sim)		0.451	0.356	0.312	0.325	0.328	0.407	0.345				0.361	14.0
1,1,2-Trichloroethane(sim)			0.329	0.320	0.303	0.309	0.316	0.317	0.348			0.320	4.6

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Instrument ID: CHEM20 Calibration Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Calibration Time(s): 19:27 00:38

GC Column: zb-1ms

LAB FILE ID:

RRF0.035 = 0219_05.D RRF0.1 = 0219_07.D RRF0.5 = 0219_09.D RRF2.5 = 0219_11.D RRF10 = 0219_13.D
 RRF0.05 = 0219_06.D RRF0.25 = 0219_08.D RRF1 = 0219_10.D RRF5 = 0219_12.D

COMPOUND		RRF0.035	RRF0.05	RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10		— RRF	% RSD
Dibromochloromethane(sim)			0.497	0.508	0.511	0.500	0.554	0.561	0.630			0.537	9.0
1,2-Dibromoethane(EDB)(sim)		0.602	0.554	0.538	0.528	0.548	0.612	0.619	0.686			0.586	9.2
Tetrachloroethene(sim)			0.394		0.383	0.400	0.417	0.424	0.469	0.456		0.420	7.6
Bromoform(sim)			1.516	1.413	1.292	1.241	1.286	1.414	1.636			1.400	10.1
1,1,1,2-Tetrachloroethane(sim)		0.294	0.286	0.238	0.218	0.211	0.209	0.205	0.224			0.236	14.9
Chlorobenzene(sim)		1.857	1.774	1.538	1.540	1.463	1.509	1.516	1.598			1.599	8.8
Ethylbenzene(sim)			3.004	2.813	2.611	2.525	2.530	2.531	2.798			2.687	7.0
m,p-Xylene(sim)		2.287	2.200	1.924	1.873	1.789	1.859	1.737	1.978			1.956	9.9
Styrene(sim)			1.506	1.350	1.232	1.217	1.317	1.345	1.523			1.356	8.9
1,1,2,2-Tetrachloroethane(sim)		1.856	1.797	1.824	1.620	1.487	1.608	1.621				1.688	8.2
o-Xylene(sim)			2.470	2.302	2.107	2.040	2.099	2.070	2.236			2.189	7.1
Isopropylbenzene(sim)			3.108	2.643	2.499	2.334	2.458	2.436	2.610			2.584	9.8
4-Ethyltoluene(sim)			3.148	2.701	2.683	2.598	2.836	2.665	3.068			2.814	7.6
1,3,5-Trimethylbenzene(sim)			2.733	2.481	2.322	2.262	2.389	2.358	2.561			2.444	6.6
1,2,4-Trimethylbenzene(sim)			2.371	2.378	2.261	2.137	1.919	1.738	2.135			2.134	11.1
Benzyl chloride(sim)		1.980	2.139	1.785	1.734	1.760	1.454	2.301	1.548			1.838	15.6
1,3-Dichlorobenzene(sim)		2.887	2.727	2.321	2.194	2.116	2.198	2.141	2.366			2.369	12.1
1,4-Dichlorobenzene(sim)			1.934	1.683	2.112	1.582	2.160	1.592	2.290			1.908	15.3
sec-Butylbenzene(sim)		4.154	3.862	3.507	3.341	3.248	2.063	1.807	3.435			3.177	25.9
4-Isopropyltoluene(sim)		3.982	3.207	2.851	2.625	2.755	2.734	2.735				2.984	16.0
1,2-Dichlorobenzene(sim)		2.826	2.641	2.391	2.167	2.104	2.159	2.108	2.307			2.338	11.5
n-Butylbenzene(sim)		3.025	2.940	2.582	2.395	2.412	2.496	2.535				2.626	9.6

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

Response Factor Report Chem 20

Method Path : H:\AIR2016\CHEM20\METHODS\
 Method File : CTMANYNJ_0219.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Feb 23 08:34:06 2016
 Response Via : Initial Calibration

Calibration Files

.035=0219_05.D 0.05=0219_06.D 0.10=0219_07.D 0.2 =0219_08.D 0.5 =0219_09.D 1.0 =0219_10.D 2.5 =0219_11.D 5.0 =0219_12.D
 10 =0219_13.D 25 =0219_14.D 40 =0219_15.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----												
2) Propylene				1.558	1.475	1.500	1.628	1.611	1.559	1.543	1.553		3.52
3) Dichlorodifluo...		4.147	4.114	4.132	4.244	4.588	4.478	4.217	4.123	4.255			4.23
4) Chloromethane		0.433	0.318	0.410	0.351	0.339	0.321	0.293	0.299	0.345			14.78
5) 1,2-Dichlorote...		3.094	2.958	2.939	2.887	3.201	3.045	2.817	2.734	2.959			5.12
6) Vinyl Chloride		1.195	1.051	1.042	1.014	1.098	1.055	1.001	0.978	1.054			6.44
7) 1,3-Butadiene		0.856	0.791	0.760	0.726	0.788	0.779	0.719	0.707	0.766			6.36
8) Bromomethane		1.262	1.047	1.071	1.072	1.163	1.140	1.087	1.084	1.116			6.32
9) Chloroethane		0.577	0.486	0.507	0.458	0.500	0.491	0.454	0.453	0.491			8.30
10) Ethanol			0.362	0.338	0.327	0.346	0.311	0.283	0.252	0.317			12.10
11) Acetone		2.562	1.905	1.929	1.594	1.774	1.546	1.488	1.442	1.780			20.56
12) Trichlorofluor...		3.573	3.681	3.558	3.712	4.031	3.976	3.768	3.797	3.762			4.55
13) Isopropylalcohol			4.237	3.238	3.116	3.373	3.236	2.986	2.600	3.255			15.37
14) Acrylonitrile		1.479	1.330	1.289	1.240	1.399	1.341	1.295	1.307	1.335			5.53
15) 1,1-Dichloroet...		2.623	2.563	2.484	2.527	2.799	2.702	2.601	2.607	2.613			3.81
16) Methylene Chlo...		2.075	2.096	2.047	2.070	2.240	2.179	2.054	2.045	2.101			3.38
19) Carbon Disulfide		3.915	3.990	3.938	3.951	4.321	4.230	3.980	3.973	4.037			3.74
20) Trichlorotrifl...		2.763	2.701	2.681	2.748	2.986	2.929	2.764	2.780	2.794			3.84
21) Trans-1,2-Dich...		1.916	1.935	1.956	1.977	2.144	2.051	1.957	1.935	1.984			3.86
22) 1,1-Dichloroet...		2.425	2.358	2.416	2.358	2.614	2.502	2.335	2.282	2.411			4.37
23) Methyl tert-bu...		3.280	3.029	3.027	3.015	3.331	3.214	3.056	3.008	3.120			4.25
24) Methyl Ethyl K...		2.468	2.491	2.344	2.349	2.609	2.524	2.390	2.304	2.435			4.32
25) Cis-1,2-Dichlo...		1.558	1.559	1.538	1.491	1.662	1.581	1.527	1.485	1.550			3.62
26) Hexane		1.273	1.284	1.260	1.279	1.400	1.323	1.231	1.184	1.279			4.96
27) Chloroform		2.392	2.292	2.299	2.312	2.527	2.447	2.317	2.259	2.355			3.89
28) Ethyl acetate		3.693		3.175	3.192	3.384	3.232	2.995	2.821	3.213			8.65
29) Tetrahydrofuran		0.942	0.936	0.948	0.875	0.982	0.937	0.895	0.872	0.923			4.19
30) 1,2-Dichloroet...		1.277	1.395	1.384	1.377	1.534	1.447	1.389	1.343	1.393			5.36
31) 1,1,1-Trichlor...		2.012	2.041	2.039	2.025	2.216	2.151	2.030	1.985	2.062			3.83
32) Benzene		2.249	2.105	2.156	2.053	2.262	2.165	2.059	2.014	2.133			4.29
33) Carbon Tetrach...		1.928	1.910	1.921	2.012	2.188	2.108	1.992	1.949	2.001			4.99
34) Cyclohexane		0.685	0.577	0.561	0.534	0.557	0.542	0.505	0.483	0.555			10.90
35) Int 1,4-Difluorobenzene	-----ISTD-----												
36) 1,2-dichloropr...		0.281	0.266	0.263	0.267	0.286	0.279	0.264	0.257	0.270			3.75
37) Bromodichlorom...		0.662	0.622	0.773	0.797	0.842	0.801	0.768	0.723	0.749			9.97
38) Trichloroethene		0.335	0.332	0.353	0.347	0.377	0.362	0.344	0.329	0.347			4.68
40) 1,4-Dioxane		0.151	0.159	0.171	0.156	0.175	0.165	0.153	0.134	0.158			8.04
42) Heptane		0.390	0.319	0.319	0.316	0.337	0.322	0.304	0.291	0.325			9.06
43) cis-1,3-Dichlo...		0.385	0.386	0.478	0.408	0.508	0.494	0.462	0.453	0.447			10.77

Response Factor Report Chem 20

Method Path : H:\AIR2016\CHEM20\METHODS\

Method File : CTMANYNJ_0219.M

Title : VOA Standards for 5 point calibration

44)	4-Methyl-2-pen...	0.507	0.424	0.513	0.506	0.562	0.515	0.506	0.465	0.500	8.06
45)	trans-1,3-Dich...	0.354	0.329	0.364	0.396	0.415	0.420	0.410	0.396	0.386	8.49
46)	1,1,2-Trichlor...	0.301	0.303	0.301	0.305	0.332	0.326	0.311	0.305	0.310	3.78
47)	Toluene	0.754	0.745	0.721	0.724	0.807	0.785	0.750	0.731	0.752	4.01
48)	Dibromochlorom...	0.607	0.589	0.651	0.664	0.735	0.745	0.725	0.698	0.677	8.73
49)	2-Hexanone(MBK)	0.382	0.375	0.405	0.418	0.469	0.461	0.446	0.431	0.424	8.19
50)	1,2-Dibromoeth...	0.492	0.511	0.596	0.594	0.657	0.640	0.626	0.602	0.590	10.02
51)	Tetrachloroethene	0.455	0.471	0.490	0.502	0.548	0.539	0.521	0.506	0.504	6.37

52)	Int Chlorobenzene-d5	-----ISTD-----									
53)	1,1,1,2-Tetrac...	0.947	0.962	0.948	0.934	1.006	0.947	0.867	0.813	0.928	6.48
54)	Chlorobenzene	1.631	1.558	1.618	1.610	1.690	1.612	1.424	1.327	1.559	7.80
55)	Ethylbenzene	2.533	2.518	2.498	2.466	2.681	2.534	2.263	2.089	2.448	7.56
56)	m,p-Xylene	1.983	1.906	1.594	1.845	2.090	1.983	1.691	1.575	1.833	10.51
57)	Bromoform	1.368	1.334	1.379	1.504	1.731	1.697	1.591	1.502	1.513	9.94
58)	Styrene	1.180	1.184	1.302	1.295	1.471	1.453	1.349	1.266	1.312	8.31
59)	1,1,2,2-Tetrac...	1.716	1.584	1.723	1.722	1.828	1.681	1.492	1.355	1.638	9.32
60)	o-Xylene	2.206	2.044	2.098	2.021	2.148	1.965	1.766	1.589	1.980	10.42
61)	Surr% Bromofluorob...	1.389	1.289	1.332	1.334	1.328	1.343	1.293	1.256	1.321	3.08
63)	Isopropylbenzene	2.646	2.486	2.635	2.588	2.760	2.600	2.284	2.140	2.517	8.21
65)	4-Ethyltoluene	2.704	2.767	2.802	2.831	3.028	2.860	2.529	2.340	2.733	7.76
66)	1,3,5-Trimethy...	2.502	2.195	2.328	2.319	2.540	2.321	2.065	1.911	2.273	9.28
67)	1,2,4-Trimethy...	2.394	2.275	2.053	1.846	2.257	2.214	1.940	1.752	2.091	10.96
69)	Benzyl chloride	1.836	1.875	2.242	2.282	2.483	2.353	2.112	1.966	2.143	10.97
70)	1,3-Dichlorobe...	1.786	1.750	1.825	1.762	1.979	1.872	1.640	1.536	1.769	7.70
71)	1,4-Dichlorobe...	1.701	1.685	1.783	1.691	1.909	1.857	1.659	1.559	1.730	6.53
72)	sec-Butylbenzene	3.279	3.268	2.057	1.846	3.356	3.174	2.745	2.522	2.781	21.21
73)	4-Isopropyltol...	2.780	2.934	2.932	2.905	2.986	2.804	2.455	2.255	2.756	9.52
74)	1,2-Dichlorobe...	1.844	1.706	1.814	1.779	1.925	1.791	1.639	1.548	1.756	6.83
75)	n-Butylbenzene	2.536	2.569	2.667	2.693	2.752	2.635	2.304	2.138	2.537	8.31
76)	1,2,4-Trichlor...	1.303	1.254	1.435	1.576	1.604	1.609	1.463	1.417	1.458	9.20
78)	Hexachlorobuta...	1.581	1.482	1.505	1.523	1.533	1.470	1.300	1.184	1.447	9.32

79)	int Bromochloromethane...	-----ISTD-----									
80)	Dichlorodifluo...	5.568	5.269	5.221	5.135	5.086	5.137	5.161	5.672	5.281	4.13
81)	1,2-Dichlorote...	3.379	3.118	3.094	2.958	2.939	2.887	3.201	3.082	5.58	
82)	Vinyl Chloride...	1.336	1.337	1.255	1.278	1.192	1.203	1.197	1.308	1.263	4.84
83)	Bromomethane(sim)	1.781	1.436	1.665	1.406	1.047	1.071	1.072	1.163	1.330	21.52
84)	Trichlorofluor...	5.031	4.732	4.792	4.697	4.611	4.655	4.688	5.136	4.793	3.95
85)	1,2-Dichloroet...	1.569	1.498	1.407	1.277	1.395	1.384	1.377	1.534	1.430	6.73
86)	1,1,1-Trichlor...	2.733	2.547	2.491	2.501	2.455	2.454	2.467	2.723	2.546	4.57
87)	Carbon Tetrach...	2.056	2.331	2.061	1.928	1.910	1.921	2.012	2.188	2.051	7.16
88)	1,1-Dichloroet...	3.358	3.288	3.139	3.077	3.051	3.071	3.099	3.415	3.187	4.52
89)	Carbon Disulfi...	4.195	4.065	4.100	3.915	3.990	3.938	3.951	4.321	4.060	3.49
90)	Trichlorotrifl...	3.871	3.670	3.614	3.560	3.489	3.511	3.479	3.818	3.626	4.13
91)	Trans-1,2-Dich...	2.512	2.244	1.983	1.916	1.935	1.956	1.977	2.144	2.083	9.96
92)	1,1-Dichloroet...	3.151	3.014	3.007	2.879	2.847	2.821	2.811	3.081	2.952	4.37
93)	Cis-1,2-Dichlo...	2.085	1.605	1.558	1.558	1.559	1.538	1.491	1.662	1.632	11.62
94)	Chloroform(sim)	3.096	2.905	2.895	2.853	2.807	2.814	2.806	3.067	2.905	3.97
95)	Benzene(sim)	2.920	2.673	2.484	2.249	2.105	2.156	2.053	2.262	2.363	12.89

Method Path : H:\AIR2016\CHEM20\METHODS\
 Method File : CTMANYNJ_0219.M
 Title : VOA Standards for 5 point calibration

96)	int 1,4-Difluorobenzen...	-----ISTD-----											
97)	1,2-dichloropr...	0.322	0.290	0.204	0.237	0.226	0.224	0.225	0.245			0.247	15.99
98)	Bromodichlorom...	0.814	0.760	0.714	0.679	0.687	0.801	0.804	0.876			0.767	9.02
99)	Trichloroethen...	0.428	0.430	0.307	0.282	0.282	0.300	0.293	0.420			0.343	20.25
100)	1,4-Dioxane(sim)	0.212	0.189	0.169	0.153	0.149	0.148	0.143				0.166	15.49
101)	cis-1,3-Dichlo...	0.451	0.356	0.312	0.325	0.328	0.407	0.345				0.360	14.01
102)	1,1,2-Trichlor...		0.329	0.320	0.303	0.309	0.316	0.317	0.348			0.320	4.58
103)	Dibromochlorom...		0.497	0.508	0.511	0.500	0.554	0.561	0.630			0.537	8.97
104)	1,2-Dibromoeth...	0.602	0.554	0.538	0.528	0.548	0.612	0.619	0.686			0.586	9.14
105)	Tetrachloroeth...		0.394		0.383	0.400	0.417	0.424	0.469	0.456		0.421	7.68
106)	int Chlorobenzene-d5(sim)	-----ISTD-----											
107)	Bromoform(sim)		1.516	1.413	1.292	1.241	1.286	1.414	1.636			1.400	10.08
108)	1,1,1,2-Tetrac...	0.294	0.286	0.238	0.218	0.211	0.209	0.205	0.224			0.236	14.80
109)	Chlorobenzene(...	1.857	1.774	1.538	1.540	1.463	1.509	1.516	1.598			1.599	8.78
110)	Ethylbenzene(sim)		3.004	2.813	2.611	2.525	2.530	2.531	2.798			2.687	6.95
111)	m,p-Xylene(sim)	2.287	2.200	1.924	1.873	1.789	1.859	1.737	1.978			1.956	9.91
112)	Styrene(sim)		1.506	1.350	1.232	1.217	1.317	1.345	1.523			1.356	8.86
113)	1,1,2,2-Tetrac...	1.856	1.797	1.824	1.620	1.487	1.608	1.621				1.687	8.17
114)	o-Xylene(sim)		2.470	2.302	2.107	2.040	2.099	2.070	2.236			2.189	7.10
115)	Isopropylbenze...		3.108	2.643	2.499	2.334	2.458	2.436	2.610			2.584	9.82
117)	4-Ethyltoluene...		3.148	2.701	2.683	2.598	2.836	2.665	3.068			2.814	7.61
118)	1,3,5-Trimethy...		2.733	2.481	2.322	2.262	2.389	2.358	2.561			2.444	6.63
119)	1,2,4-Trimethy...		2.371	2.378	2.261	2.137	1.919	1.738	2.135			2.134	11.07
121)	Benzyl chlorid...	1.980	2.139	1.785	1.734	1.760	1.454	2.301	1.548			1.838	15.62
122)	1,3-Dichlorobe...	2.887	2.727	2.321	2.194	2.116	2.198	2.141	2.366			2.369	12.10
123)	1,4-Dichlorobe...		1.934	1.683	2.112	1.582	2.160	1.592	2.290			1.908	15.26
124)	sec-Butylbenze...	4.154	3.862	3.507	3.341	3.248	2.063	1.807	3.435			3.177	25.92
125)	4-Isopropyltol...	3.982	3.207	2.851	2.625	2.755	2.734	2.735				2.984	16.01
126)	1,2-Dichlorobe...	2.826	2.641	2.391	2.167	2.104	2.159	2.108	2.307			2.338	11.47
127)	n-Butylbenzene...	3.025	2.940	2.582	2.395	2.412	2.496	2.535				2.627	9.63
128)	1,2,4-Trichlor...		2.082	1.710	1.584	1.591	1.829	1.985				1.797	11.48
130)	Hexachlorobuta...		2.535	2.196	1.939	1.875	1.920	1.951	1.948			2.052	11.54

(#) = Out of Range q=Quadratic qf=Quadratic Force(0,0)

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_05.D
 Acq On : 19 Feb 2016 07:27 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:25 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:12:25 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	208123	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	540854	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	202235	10.000	ng	-0.03
79) Bromochloromethane(sim)	7.006	130	208123	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	632887	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	213104	10.000	ng	-0.03

System Monitoring Compounds

61) % Bromofluorobenzene	10.784	95	288530	10.794	ppbv	-0.06
Spiked Amount	10.000	Range 70 - 130	Recovery	=	107.90%	

Target Compounds

						Qvalue
2) Propylene	3.558	41	2481	0.075	ppbv	88
3) Dichlorodifluoromethane	3.637	85	3179	0.035	ppbv#	80
4) Chloromethane	3.774	52	153	0.022	ppbv#	1
5) 1,2-Dichlorotetrafluor...	3.897	85	3067	0.049	ppbv	89
6) Vinyl Chloride	4.019	62	1479	0.067	ppbv	76
7) 1,3-Butadiene	4.142	54	947	0.059	ppbv#	81
8) Bromomethane	4.401	94	1320	0.055	ppbv#	81
9) Chloroethane	4.546	64	764	0.074	ppbv#	63
10) Ethanol	4.632	45	256	0.041	ppbv#	1
11) Acetone	5.043	43	4321	0.118	ppbv#	36
12) Trichlorofluoromethane	5.180	101	2910	0.037	ppbv#	77
13) Isopropylalcohol	5.245	45	6369	0.100	ppbv#	64
14) Acrylonitrile	5.411	53	2027	0.071	ppbv	94
15) 1,1-Dichloroethene	5.667	61	2092	0.038	ppbv#	87
16) Methylene Chloride	5.744	49	1970	0.045	ppbv	98
19) Carbon Disulfide	5.970	76	3056	0.036	ppbv#	59
20) Trichlorotrifluoroethane	5.917	101	2263	0.038	ppbv#	85
21) Trans-1,2-Dichloroethene	6.350	61	1830	0.044	ppbv	97
22) 1,1-Dichloroethane	6.465	63	2148	0.042	ppbv	96
23) Methyl tert-butyl ethe...	6.507	73	3288	0.050	ppbv#	83
24) Methyl Ethyl Ketone	6.684	43	2284	0.045	ppbv	100
25) Cis-1,2-Dichloroethene	6.923	61	1519	0.047	ppbv	91
26) Hexane	7.021	57	1225	0.046	ppbv#	82
27) Chloroform	7.074	83	1712	0.034	ppbv#	86
28) Ethyl acetate	7.021	43	4056	0.060	ppbv#	88
29) Tetrahydrofuran	7.294	42	1106	0.057	ppbv#	57
30) 1,2-Dichloroethane	7.437	62	1143	0.039	ppbv	97
31) 1,1,1-Trichloroethane	7.558	97	1480	0.034	ppbv	95
32) Benzene	7.786	78	2461	0.055	ppbv	94
33) Carbon Tetrachloride	7.861	117	1498	0.035	ppbv#	74
34) Cyclohexane	7.922	41	839	0.073	ppbv#	1
36) 1,2-dichloropropane	8.164	63	635	0.043	ppbv#	68
37) Bromodichloromethane	10.532	83	1384	0.034	ppbv	98
38) Trichloroethene	8.270	130	819	0.043	ppbv	91
40) 1,4-Dioxane	8.262	88	396	0.047	ppbv	90
42) Heptane	8.384	43	1026	0.058	ppbv#	54
43) cis-1,3-Dichloropropene	8.656	75	812	0.033	ppbv	70
44) 4-Methyl-2-pentanone(M...	8.656	43	1178	0.043	ppbv#	86
45) trans-1,3-Dichloropropene	8.885	75	725	0.034	ppbv#	79
46) 1,1,2-Trichloroethane	8.976	97	638	0.037	ppbv#	82
47) Toluene	9.117	91	1749	0.042	ppbv#	96
48) Dibromochloromethane	9.328	129	1240	0.033	ppbv#	79

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_05.D
 Acq On : 19 Feb 2016 07:27 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:25 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:12:25 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.216	43	1218	0.051	ppbv#	71
50) 1,2-Dibromoethane(EDB)	9.455	107	1048	0.032	ppbv	96
51) Tetrachloroethene	9.673	166	1197	0.043	ppbv#	80
53) 1,1,1,2-Tetrachloroethane	9.999	131	903	0.049	ppbv#	82
54) Chlorobenzene	10.021	112	1385	0.045	ppbv#	1
55) Ethylbenzene	10.199	91	2507	0.051	ppbv	94
56) m, p-Xylene	10.347	91	281	0.007	ppbv#	37
57) Bromoform	10.347	173	1213	0.038	ppbv	94
58) Styrene	10.480	104	1031	0.038	ppbv#	51
59) 1,1,2,2-Tetrachloroethane	10.532	83	1384	0.042	ppbv	99
60) o-Xylene	10.540	91	1586	0.041	ppbv	98
63) Isopropylbenzene	10.850	105	2426	0.048	ppbv#	84
65) 4-Ethyltoluene	11.258	105	2021	0.037	ppbv#	79
66) 1,3,5-Trimethylbenzene	11.258	105	2021	0.044	ppbv#	86
67) 1,2,4-Trimethylbenzene	11.666	105	3099	0.073	ppbv#	40
69) Benzyl chloride	11.666	91	502	0.012	ppbv#	61
70) 1,3-Dichlorobenzene	11.643	146	1546	0.043	ppbv	88
72) sec-Butylbenzene	11.770	105	2053	0.034	ppbv#	79
73) 4-Isopropyltoluene	11.755	119	2970	0.055	ppbv	93
74) 1,2-Dichlorobenzene	11.866	146	1911	0.054	ppbv	95
75) n-Butylbenzene	12.029	91	2256	0.045	ppbv	91
76) 1,2,4-Trichlorobenzene	12.993	180	1358	0.045	ppbv	94
78) Hexachlorobutadiene	13.304	225	1680	0.059	ppbv	96
80] Dichlorodifluoromethan...	3.640	85	4056	0.036	ppbv	97
81] 1,2-Dichlorotetrafluor...	3.900	85	2939m	0.045	ppbv	
82] Vinyl Chloride(sim)	4.015	62	973	0.036	ppbv#	66
83] Bromomethane(sim)	4.397	94	1297m	0.049	ppbv	
84] Trichlorofluoromethane...	5.183	101	3665	0.036	ppbv	97
85] 1,2-Dichloroethane(sim)	7.437	62	1143	0.039	ppbv	97
86] 1,1,1-Trichloroethane(...	7.569	97	1991	0.037	ppbv#	99
87] Carbon Tetrachloride(sim)	7.861	117	1498	0.035	ppbv#	74
88] 1,1-Dichloroethene(sim)	5.664	61	2446	0.036	ppbv	96
89] Carbon Disulfide(sim)	5.970	76	3056	0.036	ppbv#	65
90] Trichlorotrifluoroetha...	5.926	101	2820	0.037	ppbv	93
91] Trans-1,2-Dichloroethe...	6.350	61	1830	0.043	ppbv	95
92] 1,1-Dichloroethane(sim)	6.468	63	2295	0.037	ppbv	98
93] Cis-1,2-Dichloroethene...	6.923	61	1519	0.045	ppbv	91
94] Chloroform(sim)	7.069	83	2255	0.037	ppbv#	86
95] Benzene(sim)	7.788	78	2127m	0.045	ppbv	
97] 1,2-dichloropropane(sim)	8.159	63	714m	0.047	ppbv	
98] Bromodichloromethane(sim)	10.528	83	1802	0.037	ppbv	99
99] Trichloroethene(sim)	8.273	130	947m	0.043	ppbv	
100] 1,4-Dioxane(sim)	8.265	88	470	0.048	ppbv	95
101] cis-1,3-Dichloropropen...	8.651	75	999m	0.049	ppbv	
102] 1,1,2-Trichloroethane(...	8.979	97	783	0.038	ppbv	98
103] Dibromochloromethane(sim)	9.328	129	1240	0.034	ppbv	83
104] 1,2-Dibromoethane(EDB)...	9.458	107	1334	0.035	ppbv	99
105] Tetrachloroethene(sim)	9.673	166	1197	0.043	ppbv	80
107] Bromoform(sim)	10.347	173	1213	0.039	ppbv	94
108] 1,1,1,2-Tetrachloroeth...	10.535	131	219	0.046	ppbv#	60
109] Chlorobenzene(sim)	10.021	112	1385	0.041	ppbv#	1
110] Ethylbenzene(sim)	10.195	91	2381	0.041	ppbv#	99
111] m, p-Xylene(sim)	10.288	91	3412	0.083	ppbv#	90
112] Styrene(sim)	10.476	104	1198	0.041	ppbv#	88
113] 1,1,2,2-Tetrachloroeth...	10.532	83	1384	0.040	ppbv#	95

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_05.D
 Acq On : 19 Feb 2016 07:27 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:25 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:12:25 2016
 Response via : Initial Calibration

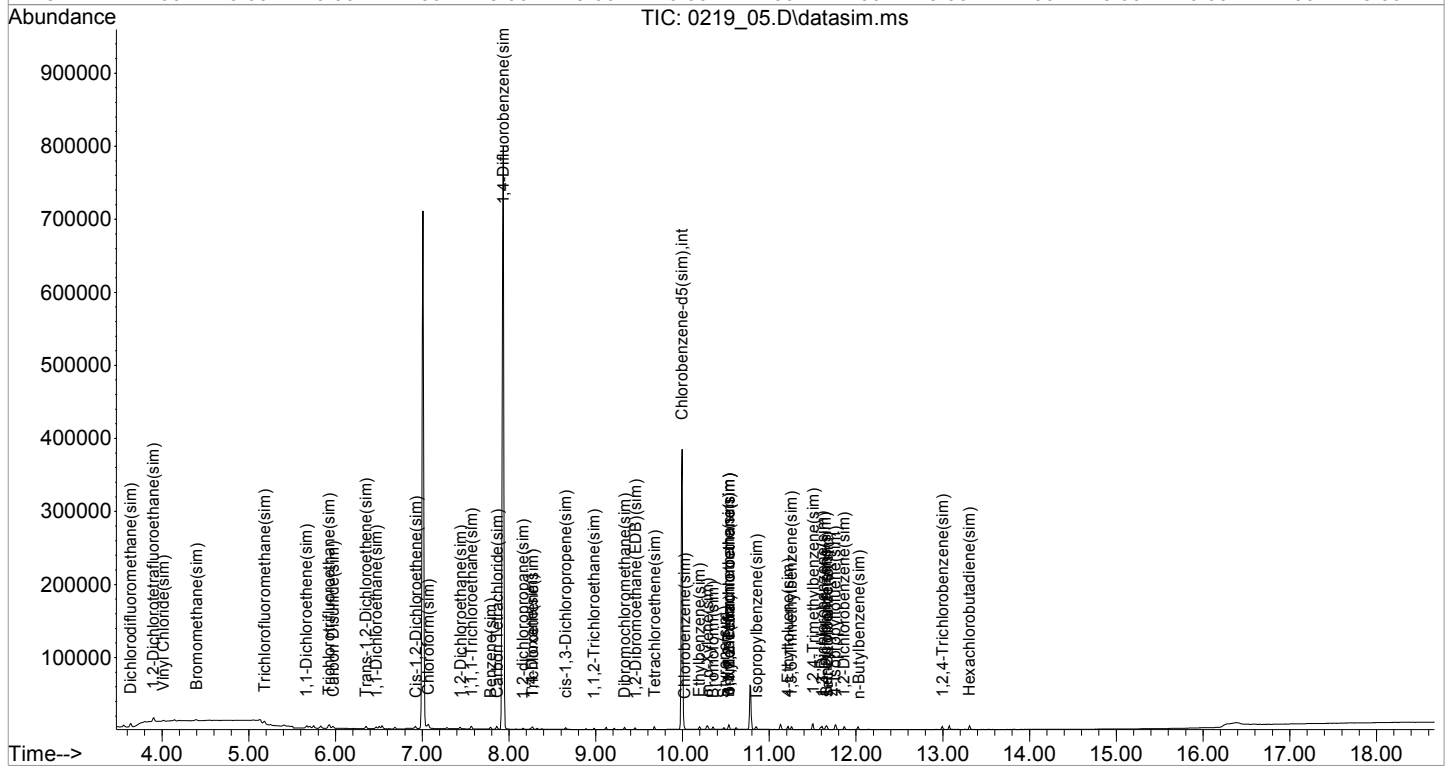
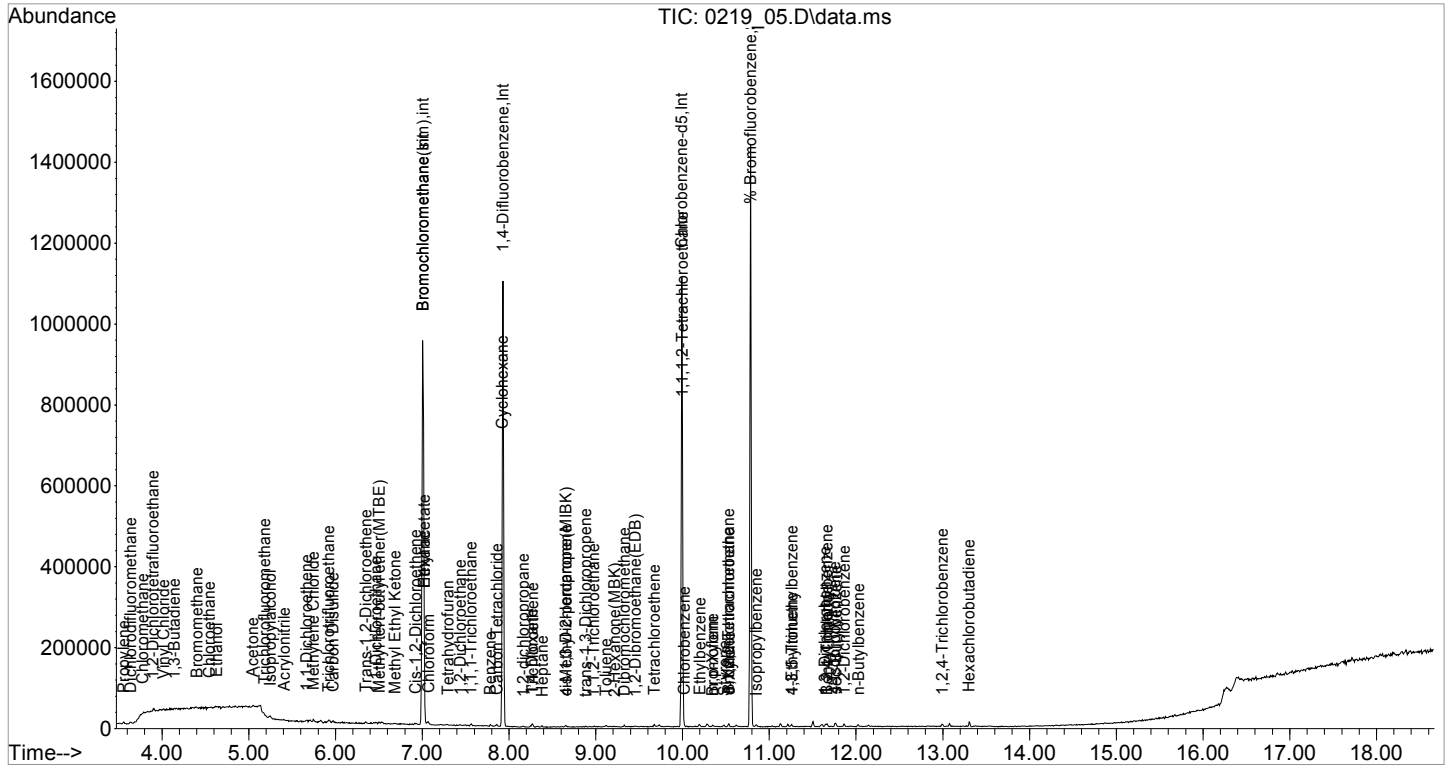
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114]	o-Xylene(sim)	10.535	91	1997	0.043	ppbv	96
115]	Isopropylbenzene(sim)	10.850	105	2426	0.045	ppbv#	84
117]	4-Ethyltoluene(sim)	11.216	105	2673m	0.044	ppbv	
118]	1,3,5-Trimethylbenzene...	11.253	105	2170m	0.042	ppbv	
119]	1,2,4-Trimethylbenzene...	11.503	105	2088	0.045	ppbv#	88
121]	Benzyl chloride(sim)	11.661	91	569m	0.016	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.609	146	2153m	0.044	ppbv	
123]	1,4-Dichlorobenzene(sim)	11.643	146	1546	0.033	ppbv	88
124]	sec-Butylbenzene(sim)	11.669	105	3098	0.043	ppbv	100
125]	4-Isopropyltoluene(sim)	11.755	119	2970	0.053	ppbv	93
126]	1,2-Dichlorobenzene(sim)	11.861	146	2108	0.044	ppbv	98
127]	n-Butylbenzene(sim)	12.029	91	2256	0.044	ppbv	91
128]	1,2,4-Trichlorobenzene...	12.996	180	1878	0.056	ppbv	98
130]	Hexachlorobutadiene(sim)	13.307	225	2126	0.051	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_05.D
Acq On : 19 Feb 2016 07:27 pm
Operator : CORTEX\ms
Client ID : ICAL 0.035
Lab ID : 0.035ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:25 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Feb 22 10:12:25 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_06.D
 Acq On : 19 Feb 2016 08:07 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.05
 Lab ID : 0.05ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:51 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:13:32 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.013	130	202837	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	534160	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	196669	10.000	ng	-0.03
79) Bromochloromethane(sim)	7.013	130	202837	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	620762	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	208404	10.000	ng	-0.03

System Monitoring Compounds

61) % Bromofluorobenzene	10.784	95	281653	10.835	ppbv	-0.06
Spiked Amount	10.000	Range 70 - 130	Recovery	=	108.30%	

Target Compounds

					Qvalue	
2) Propylene	3.572	41	3218	0.100	ppbv#	82
3) Dichlorodifluoromethane	3.644	85	4592	0.053	ppbv#	87
4) Chloromethane	3.774	52	668	0.098	ppbv#	60
5) 1,2-Dichlorotetrafluor...	3.911	85	3427	0.057	ppbv	96
6) Vinyl Chloride	4.026	62	1607	0.074	ppbv	73
7) 1,3-Butadiene	4.149	54	986	0.063	ppbv#	72
8) Bromomethane	4.401	94	1841	0.079	ppbv#	83
9) Chloroethane	4.553	64	992	0.099	ppbv	84
10) Ethanol	4.610	45	470	0.078	ppbv#	76
11) Acetone	5.050	43	8713	0.244	ppbv	95
12) Trichlorofluoromethane	5.187	101	4059	0.052	ppbv#	88
13) Isopropylalcohol	5.245	45	7740	0.125	ppbv#	71
14) Acrylonitrile	5.411	53	2155	0.078	ppbv#	92
15) 1,1-Dichloroethene	5.673	61	2729	0.050	ppbv	97
16) Methylene Chloride	5.756	49	2395	0.056	ppbv	95
19) Carbon Disulfide	5.970	76	4123	0.050	ppbv#	51
20) Trichlorotrifluoroethane	5.929	101	2953	0.051	ppbv#	91
21) Trans-1,2-Dichloroethene	6.355	61	2276	0.056	ppbv#	85
22) 1,1-Dichloroethane	6.470	63	2710	0.055	ppbv	83
23) Methyl tert-butyl ethe...	6.506	73	3637	0.056	ppbv#	88
24) Methyl Ethyl Ketone	6.689	43	3043	0.061	ppbv#	87
25) Cis-1,2-Dichloroethene	6.923	61	1628	0.051	ppbv#	64
26) Hexane	7.021	57	1372	0.053	ppbv#	63
27) Chloroform	7.074	83	2890	0.060	ppbv#	76
28) Ethyl acetate	7.013	43	4623	0.071	ppbv#	91
29) Tetrahydrofuran	7.286	42	1675	0.089	ppbv#	69
30) 1,2-Dichloroethane	7.445	62	1519	0.054	ppbv#	83
31) 1,1,1-Trichloroethane	7.566	97	2589	0.061	ppbv#	87
32) Benzene	7.785	78	3509	0.080	ppbv#	87
33) Carbon Tetrachloride	7.861	117	2364	0.057	ppbv	86
34) Cyclohexane	7.922	41	1471	0.131	ppbv#	1
36) 1,2-dichloropropane	8.164	63	883	0.060	ppbv#	57
37) Bromodichloromethane	10.532	83	1872	0.046	ppbv	96
38) Trichloroethene	8.270	130	997	0.053	ppbv	91
40) 1,4-Dioxane	8.262	88	413	0.050	ppbv#	80
42) Heptane	8.376	43	1519	0.086	ppbv#	67
43) cis-1,3-Dichloropropene	8.656	75	1104	0.045	ppbv	83
44) 4-Methyl-2-pentanone(M...	8.656	43	1387	0.051	ppbv#	84
45) trans-1,3-Dichloropropene	8.885	75	1118	0.052	ppbv#	89
46) 1,1,2-Trichloroethane	8.976	97	764	0.045	ppbv	90
47) Toluene	9.117	91	2322	0.057	ppbv#	91
48) Dibromochloromethane	9.328	129	1543	0.041	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_06.D
 Acq On : 19 Feb 2016 08:07 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.05
 Lab ID : 0.05ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:51 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:13:32 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.216	43	1549	0.066	ppbv#	80
50) 1,2-Dibromoethane(EDB)	9.455	107	1285	0.040	ppbv#	80
51) Tetrachloroethene	9.673	166	1222	0.045	ppbv	97
53) 1,1,1,2-Tetrachloroethane	10.006	131	1344	0.075	ppbv#	87
54) Chlorobenzene	10.014	112	1849	0.061	ppbv#	1
55) Ethylbenzene	10.199	91	3135	0.066	ppbv	89
56) m, p-Xylene	10.347	91	452	0.012	ppbv#	37
57) Bromoform	10.347	173	1580	0.051	ppbv	94
58) Styrene	10.480	104	1557	0.059	ppbv#	75
59) 1,1,2,2-Tetrachloroethane	10.532	83	1872	0.059	ppbv	95
60) o-Xylene	10.621	91	69	0.002	ppbv#	38
63) Isopropylbenzene	10.850	105	3239	0.066	ppbv	93
65) 4-Ethyltoluene	11.258	105	2299	0.043	ppbv#	59
66) 1,3,5-Trimethylbenzene	11.258	105	2299	0.052	ppbv#	89
67) 1,2,4-Trimethylbenzene	11.503	105	2471	0.060	ppbv	96
69) Benzyl chloride	11.666	91	744	0.018	ppbv#	61
70) 1,3-Dichlorobenzene	11.643	146	2015	0.058	ppbv	93
72) sec-Butylbenzene	11.769	105	2539	0.043	ppbv#	76
73) 4-Isopropyltoluene	11.762	119	3342	0.064	ppbv	91
74) 1,2-Dichlorobenzene	11.866	146	2024	0.059	ppbv	97
75) n-Butylbenzene	12.022	91	3064	0.063	ppbv	98
76) 1,2,4-Trichlorobenzene	12.993	180	1556	0.053	ppbv#	95
78) Hexachlorobutadiene	13.304	225	1856	0.067	ppbv	97
80] Dichlorodifluoromethan...	3.647	85	5344	0.048	ppbv	98
81] 1,2-Dichlorotetrafluor...	3.911	85	3427	0.054	ppbv	96
82] Vinyl Chloride(sim)	4.022	62	1356	0.051	ppbv	90
83] Bromomethane(sim)	4.404	94	1456m	0.050	ppbv	
84] Trichlorofluoromethane...	5.190	101	4799	0.048	ppbv	98
85] 1,2-Dichloroethane(sim)	7.445	62	1519	0.051	ppbv#	83
86] 1,1,1-Trichloroethane(...	7.569	97	2583	0.048	ppbv#	99
87] Carbon Tetrachloride(sim)	7.861	117	2364	0.057	ppbv#	81
88] 1,1-Dichloroethene(sim)	5.669	61	3335	0.050	ppbv	93
89] Carbon Disulfide(sim)	5.970	76	4123	0.049	ppbv#	51
90] Trichlorotrifluoroetha...	5.931	101	3722	0.049	ppbv	96
91] Trans-1,2-Dichloroethe...	6.355	61	2276	0.051	ppbv#	83
92] 1,1-Dichloroethane(sim)	6.473	63	3057	0.050	ppbv	98
93] Cis-1,2-Dichloroethene...	6.923	61	1628	0.045	ppbv#	59
94] Chloroform(sim)	7.069	83	2946	0.048	ppbv#	86
95] Benzene(sim)	7.788	78	2711m	0.054	ppbv	
97] 1,2-dichloropropane(sim)	8.159	63	901m	0.054	ppbv	
98] Bromodichloromethane(sim)	10.535	83	2360	0.048	ppbv	98
99] Trichloroethene(sim)	8.273	130	1334m	0.057	ppbv	
100] 1,4-Dioxane(sim)	8.265	88	587	0.052	ppbv	96
101] cis-1,3-Dichloropropen...	8.656	75	1104	0.046	ppbv#	83
102] 1,1,2-Trichloroethane(...	8.979	97	1021	0.051	ppbv	97
103] Dibromochloromethane(sim)	9.328	129	1543	0.044	ppbv	97
104] 1,2-Dibromoethane(EDB)...	9.458	107	1721	0.046	ppbv	98
105] Tetrachloroethene(sim)	9.673	166	1222	0.045	ppbv	99
107] Bromoform(sim)	10.347	173	1580	0.052	ppbv	96
108] 1,1,1,2-Tetrachloroeth...	10.535	131	298	0.058	ppbv	93
109] Chlorobenzene(sim)	10.014	112	1849	0.053	ppbv#	1
110] Ethylbenzene(sim)	10.194	91	3130	0.056	ppbv	99
111] m, p-Xylene(sim)	10.288	91	4584	0.108	ppbv	98
112] Styrene(sim)	10.476	104	1569	0.055	ppbv	98
113] 1,1,2,2-Tetrachloroeth...	10.532	83	1872	0.052	ppbv	96

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_06.D
 Acq On : 19 Feb 2016 08:07 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.05
 Lab ID : 0.05ppb
 ALS Vial : 1 Sample Multiplier: 1

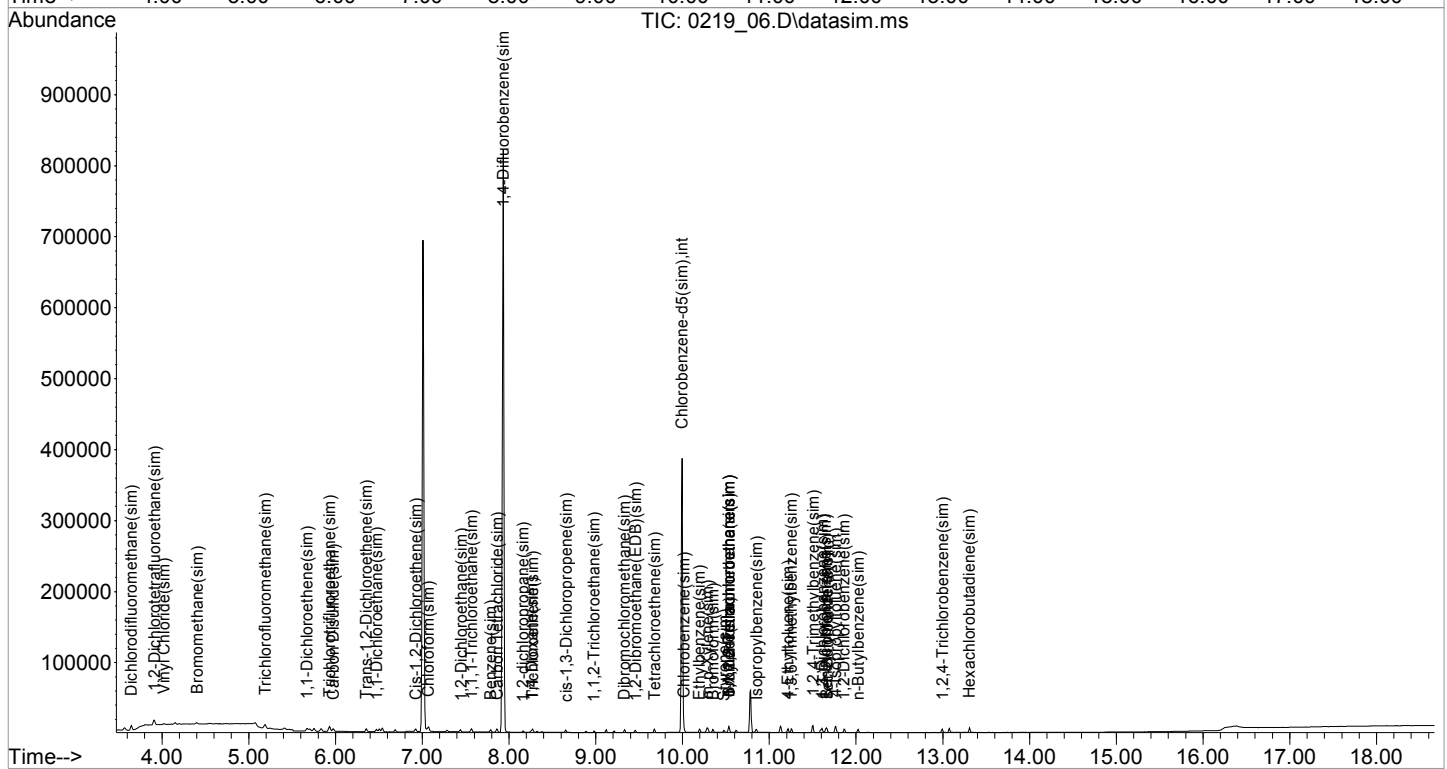
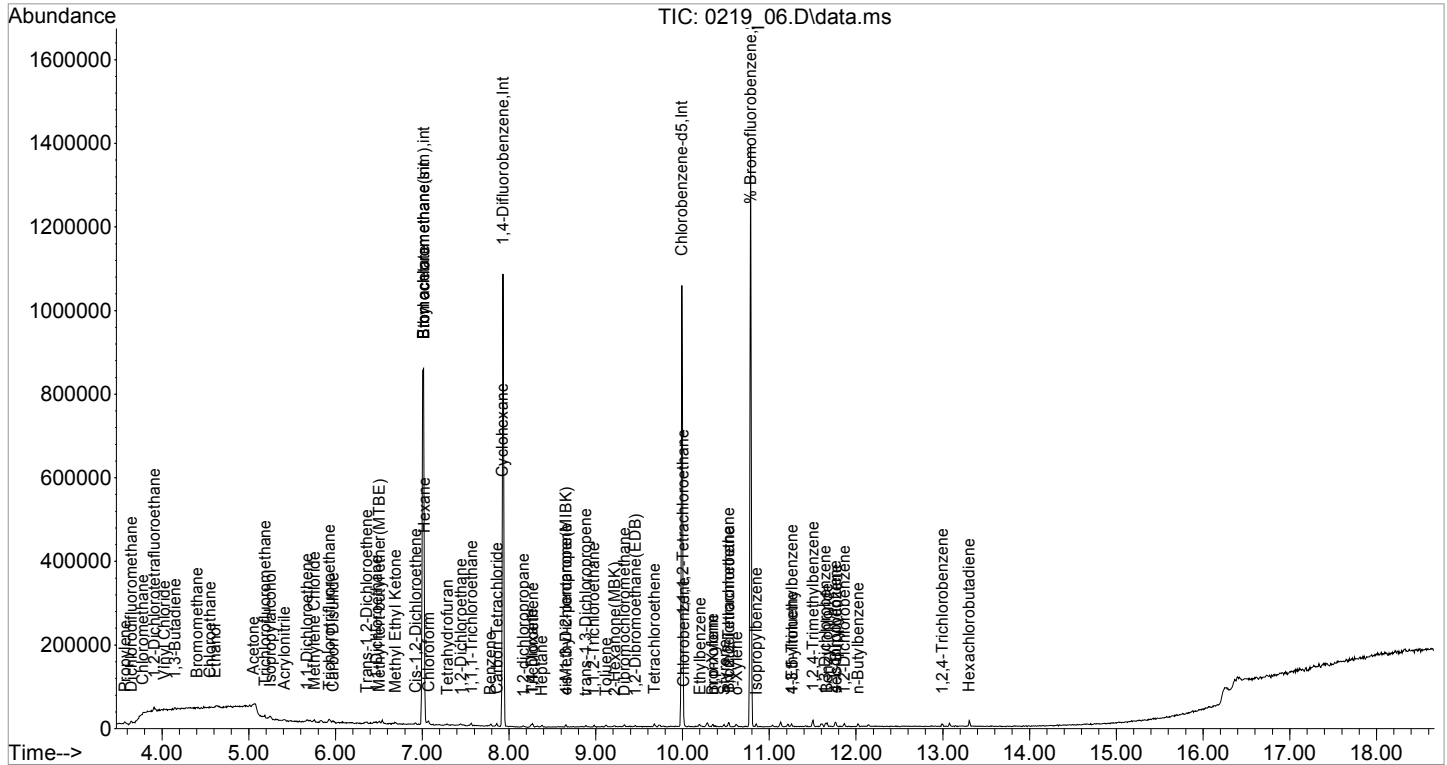
Quant Time: Feb 23 08:31:51 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:13:32 2016
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114]	o-Xylene(sim)	10.535	91	2574	0.057	ppbv	100
115]	Isopropylbenzene(sim)	10.850	105	3239	0.061	ppbv	93
117]	4-Ethyltoluene(sim)	11.216	105	3280m	0.055	ppbv	
118]	1,3,5-Trimethylbenzene...	11.253	105	2848m	0.056	ppbv	
119]	1,2,4-Trimethylbenzene...	11.503	105	2471	0.054	ppbv	96
121]	Benzyl chloride(sim)	11.661	91	746m	0.020	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.609	146	2842m	0.055	ppbv	
123]	1,4-Dichlorobenzene(sim)	11.643	146	2015	0.044	ppbv	94
124]	sec-Butylbenzene(sim)	11.669	105	4024	0.053	ppbv	98
125]	4-Isopropyltoluene(sim)	11.762	119	3342	0.049	ppbv	91
126]	1,2-Dichlorobenzene(sim)	11.861	146	2752	0.054	ppbv	99
127]	n-Butylbenzene(sim)	12.022	91	3064	0.054	ppbv	98
128]	1,2,4-Trichlorobenzene...	12.996	180	2169	0.066	ppbv	98
130]	Hexachlorobutadiene(sim)	13.307	225	2642	0.065	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_06.D
Acq On : 19 Feb 2016 08:07 pm
Operator : CORTEX\yms
Client ID : ICAL 0.05
Lab ID : 0.05ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:31:51 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:13:32 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_07.D
 Acq On : 19 Feb 2016 08:47 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:14:51 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	198893	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	527386	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	198480	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	198893	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	615304	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	209316	10.000	ng	0.00

System Monitoring Compounds

61) % Bromofluorobenzene	10.784	95	277384	10.573	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 105.70%		

Target Compounds

					Qvalue	
2) Propylene	3.551	41	3935	0.125	ppbv	94
3) Dichlorodifluoromethane	3.630	85	8531	0.100	ppbv#	89
4) Chloromethane	3.789	52	1335	0.199	ppbv	94
5) 1,2-Dichlorotetrafluor...	3.890	85	6201	0.105	ppbv#	94
6) Vinyl Chloride	4.005	62	2687	0.127	ppbv	77
7) 1,3-Butadiene	3.998	54	374	0.024	ppbv	93
8) Bromomethane	4.380	94	2860	0.125	ppbv#	83
9) Chloroethane	4.539	64	1820	0.185	ppbv#	62
10) Ethanol	4.589	45	362	0.061	ppbv#	1
11) Acetone	5.043	43	6614	0.189	ppbv#	69
12) Trichlorofluoromethane	5.173	101	7284	0.096	ppbv#	80
13) Isopropylalcohol	5.238	45	12163	0.201	ppbv#	84
14) Acrylonitrile	5.397	53	4361	0.161	ppbv#	85
15) 1,1-Dichloroethene	5.661	61	5671	0.107	ppbv	92
16) Methylene Chloride	5.744	49	4484	0.106	ppbv	99
19) Carbon Disulfide	5.965	76	8155	0.100	ppbv#	83
20) Trichlorotrifluoroethane	5.917	101	5614	0.099	ppbv	93
21) Trans-1,2-Dichloroethene	6.345	61	3945	0.099	ppbv	94
22) 1,1-Dichloroethane	6.465	63	5335	0.110	ppbv	98
23) Methyl tert-butyl ethe...	6.496	73	6646	0.105	ppbv#	88
24) Methyl Ethyl Ketone	6.679	43	5513	0.113	ppbv#	92
25) Cis-1,2-Dichloroethene	6.915	61	3099	0.100	ppbv#	70
26) Hexane	7.021	57	2808	0.110	ppbv#	97
27) Chloroform	7.067	83	4680	0.099	ppbv	96
28) Ethyl acetate	7.014	43	7246	0.113	ppbv	100
29) Tetrahydrofuran	7.286	42	2832	0.154	ppbv#	69
30) 1,2-Dichloroethane	7.438	62	2798	0.101	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	4151	0.100	ppbv	97
32) Benzene	7.786	78	4941	0.116	ppbv	98
33) Carbon Tetrachloride	7.854	117	4100	0.101	ppbv	96
34) Cyclohexane	7.922	41	1747	0.158	ppbv#	1
36) 1,2-dichloropropane	8.164	63	1258	0.087	ppbv#	86
37) Bromodichloromethane	10.532	83	3817	0.095	ppbv	92
38) Trichloroethene	8.270	130	1892	0.103	ppbv	94
40) 1,4-Dioxane	8.263	88	935	0.114	ppbv#	80
42) Heptane	8.376	43	2183	0.126	ppbv#	80
43) cis-1,3-Dichloropropene	8.656	75	1921	0.079	ppbv	83
44) 4-Methyl-2-pentanone(M...	8.656	43	2757	0.102	ppbv#	85
45) trans-1,3-Dichloropropene	8.885	75	1915	0.091	ppbv	95
46) 1,1,2-Trichloroethane	8.984	97	1546	0.093	ppbv	94
47) Toluene	9.117	91	4265	0.106	ppbv	95
48) Dibromochloromethane	9.329	129	3126	0.084	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_07.D
 Acq On : 19 Feb 2016 08:47 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:14:51 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.216	43	2288	0.099	ppbv	90
50) 1,2-Dibromoethane(EDB)	9.455	107	2813	0.088	ppbv	98
51) Tetrachloroethene	9.673	166	2473	0.091	ppbv	95
53) 1,1,1,2-Tetrachloroethane	9.999	131	1970	0.108	ppbv#	54
54) Chlorobenzene	10.014	112	3220	0.106	ppbv#	1
55) Ethylbenzene	10.192	91	5451	0.113	ppbv	94
56) m, p-Xylene	10.347	91	871	0.024	ppbv#	37
57) Bromoform	10.347	173	2958	0.094	ppbv	91
58) Styrene	10.480	104	2615	0.098	ppbv#	89
59) 1,1,2,2-Tetrachloroethane	10.532	83	3817	0.119	ppbv	93
60) o-Xylene	10.540	91	4447	0.116	ppbv	95
63) Isopropylbenzene	10.851	105	5532	0.112	ppbv#	95
65) 4-Ethyltoluene	11.258	105	4941	0.092	ppbv#	69
66) 1,3,5-Trimethylbenzene	11.258	105	4941	0.110	ppbv	96
67) 1,2,4-Trimethylbenzene	11.503	105	4977	0.119	ppbv#	93
69) Benzyl chloride	11.592	91	3737	0.088	ppbv	98
70) 1,3-Dichlorobenzene	11.651	146	3523	0.101	ppbv	90
72) sec-Butylbenzene	11.770	105	4883	0.082	ppbv#	75
73) 4-Isopropyltoluene	11.762	119	5967	0.113	ppbv	97
74) 1,2-Dichlorobenzene	11.866	146	3969	0.114	ppbv	93
75) n-Butylbenzene	12.022	91	5405	0.110	ppbv	97
76) 1,2,4-Trichlorobenzene	12.993	180	2653	0.090	ppbv	90
78) Hexachlorobutadiene	13.304	225	3354	0.120	ppbv	97
80] Dichlorodifluoromethan...	3.626	85	10385	0.096	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.890	85	6201	0.097	ppbv#	94
82] Vinyl Chloride(sim)	4.001	62	2497	0.096	ppbv	98
83] Bromomethane(sim)	4.383	94	3311m	0.115	ppbv	
84] Trichlorofluoromethane...	5.176	101	9530	0.098	ppbv	100
85] 1,2-Dichloroethane(sim)	7.438	62	2798	0.096	ppbv	99
86] 1,1,1-Trichloroethane(...	7.562	97	4954	0.095	ppbv#	98
87] Carbon Tetrachloride(sim)	7.854	117	4100	0.097	ppbv	96
88] 1,1-Dichloroethene(sim)	5.664	61	6244	0.096	ppbv	96
89] Carbon Disulfide(sim)	5.965	76	8155	0.099	ppbv#	84
90] Trichlorotrifluoroetha...	5.920	101	7187	0.097	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	3945	0.090	ppbv	94
92] 1,1-Dichloroethane(sim)	6.468	63	5981	0.099	ppbv	99
93] Cis-1,2-Dichloroethene...	6.915	61	3099	0.090	ppbv#	70
94] Chloroform(sim)	7.070	83	5758	0.097	ppbv	97
95] Benzene(sim)	7.786	78	4941	0.098	ppbv#	98
97] 1,2-dichloropropane(sim)	8.164	63	1258	0.075	ppbv#	86
98] Bromodichloromethane(sim)	10.528	83	4394	0.091	ppbv	99
99] Trichloroethene(sim)	8.270	130	1892	0.079	ppbv	98
100] 1,4-Dioxane(sim)	8.258	88	1042	0.092	ppbv	95
101] cis-1,3-Dichloropropen...	8.656	75	1921	0.083	ppbv#	83
102] 1,1,2-Trichloroethane(...	8.980	97	1969	0.098	ppbv	98
103] Dibromochloromethane(sim)	9.329	129	3126	0.093	ppbv	98
104] 1,2-Dibromoethane(EDB)...	9.451	107	3311	0.091	ppbv	100
105] Tetrachloroethene(sim)	9.673	166	2473	0.094	ppbv	95
107] Bromoform(sim)	10.347	173	2958	0.095	ppbv	91
108] 1,1,1,2-Tetrachloroeth...	10.535	131	498	0.093	ppbv	95
109] Chlorobenzene(sim)	10.014	112	3220	0.091	ppbv#	1
110] Ethylbenzene(sim)	10.195	91	5888	0.100	ppbv	99
111] m, p-Xylene(sim)	10.281	91	8053	0.185	ppbv	97
112] Styrene(sim)	10.476	104	2826	0.095	ppbv	98
113] 1,1,2,2-Tetrachloroeth...	10.532	83	3817	0.104	ppbv	93

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_07.D
 Acq On : 19 Feb 2016 08:47 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:14:51 2016
 Response via : Initial Calibration

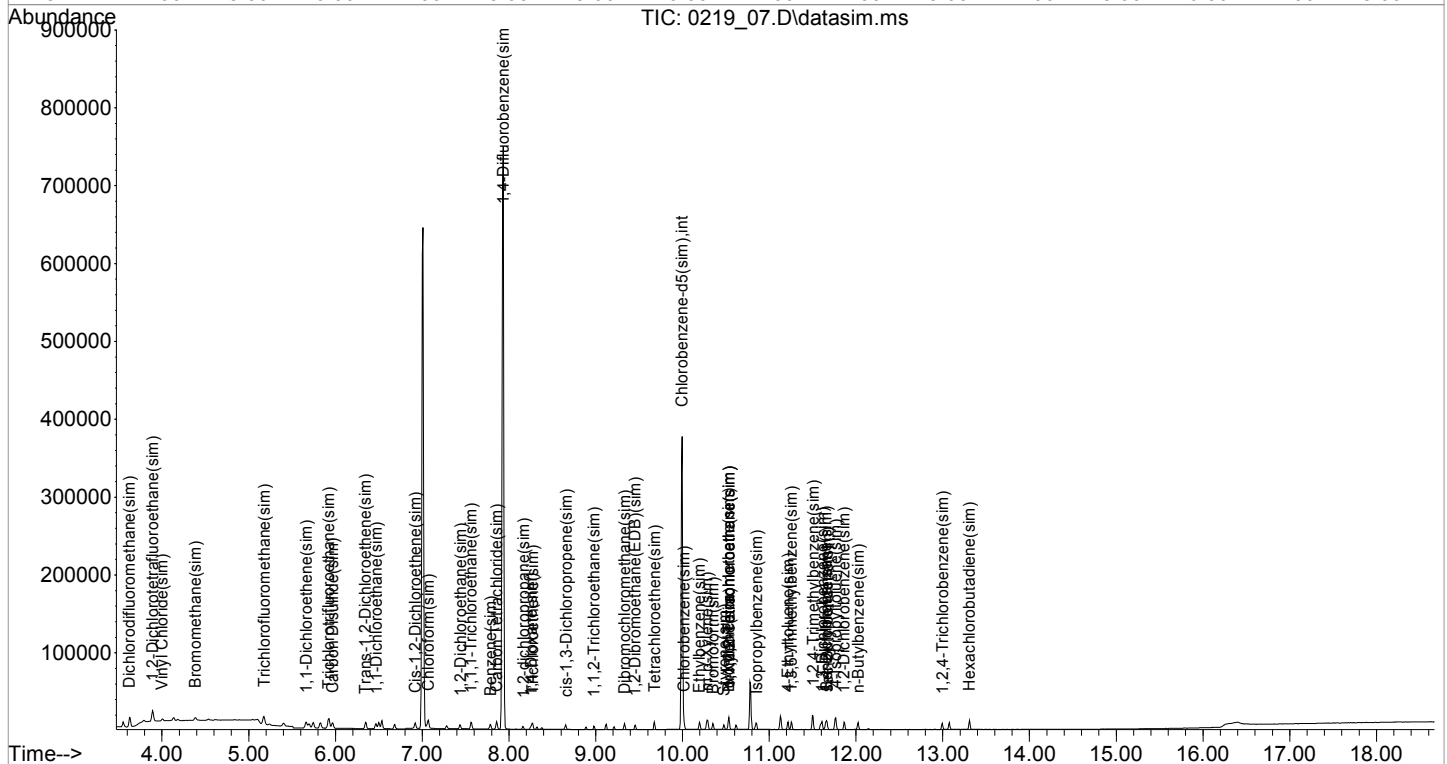
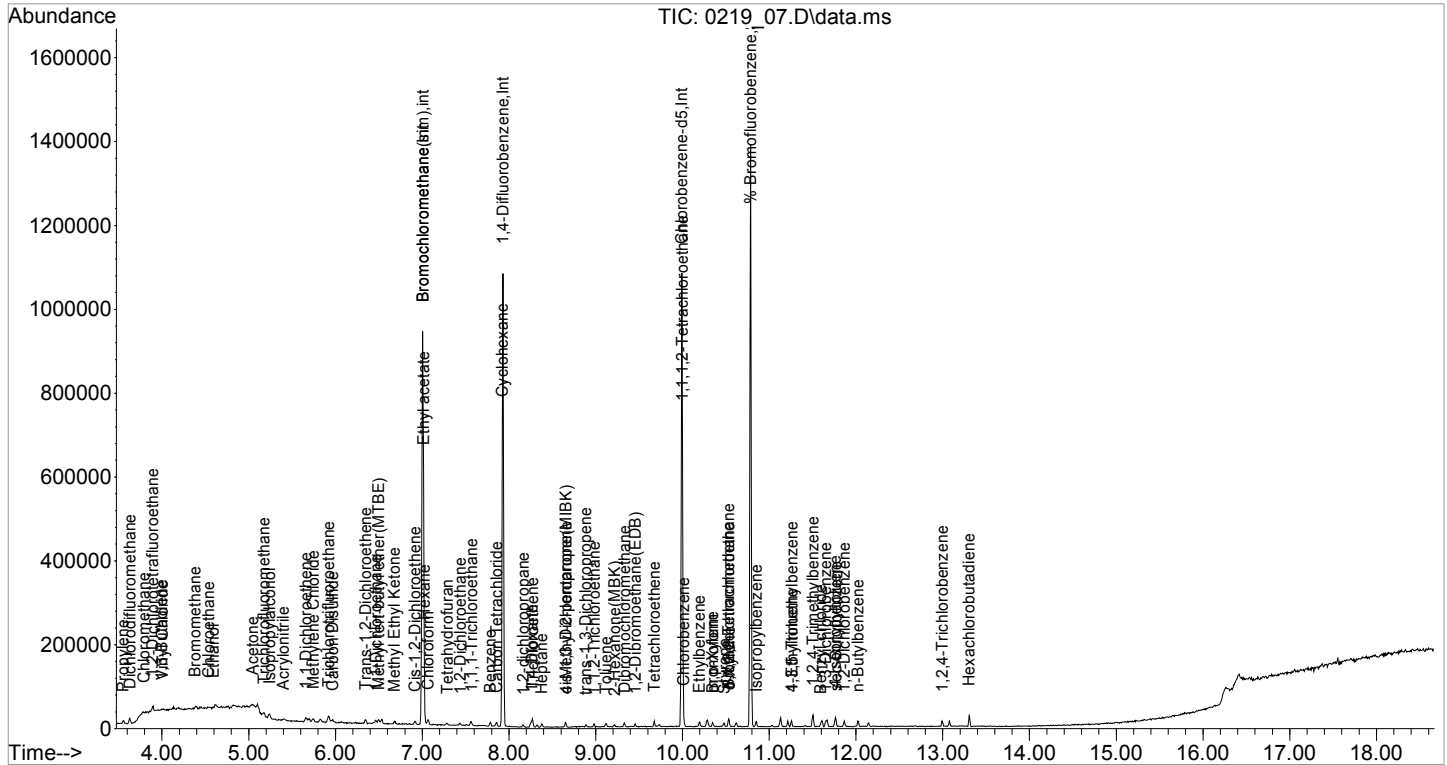
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114]	o-Xylene(sim)	10.535	91	4819	0.101	ppbv	99
115]	Isopropylbenzene(sim)	10.851	105	5532	0.096	ppbv#	95
117]	4-Ethyltoluene(sim)	11.214	105	5654	0.091	ppbv	99
118]	1,3,5-Trimethylbenzene...	11.254	105	5193	0.098	ppbv	99
119]	1,2,4-Trimethylbenzene...	11.503	105	4977	0.105	ppbv#	93
121]	Benzyl chloride(sim)	11.661	91	1380m	0.036	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.609	146	4858	0.091	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.651	146	3523	0.080	ppbv	90
124]	sec-Butylbenzene(sim)	11.669	105	7340	0.095	ppbv	100
125]	4-Isopropyltoluene(sim)	11.762	119	5967	0.087	ppbv	97
126]	1,2-Dichlorobenzene(sim)	11.862	146	5004	0.096	ppbv	98
127]	n-Butylbenzene(sim)	12.022	91	5405	0.093	ppbv	97
128]	1,2,4-Trichlorobenzene...	12.996	180	3580	0.093	ppbv	100
130]	Hexachlorobutadiene(sim)	13.307	225	4596	0.103	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_07.D
Acq On : 19 Feb 2016 08:47 pm
Operator : CORTEX\yms
Client ID : ICAL 0.1
Lab ID : 0.10ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:10 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:14:51 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_08.D
 Acq On : 19 Feb 2016 09:27 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:30 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:10:00 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	194779	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	516775	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	199292	10.000	ng	-0.03
79) Bromochloromethane(sim)	7.006	130	194779	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	613436	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	211046	10.000	ng	-0.03

System Monitoring Compounds

61) % Bromofluorobenzene	10.784	95	276894	10.648	ppbv	-0.06
Spiked Amount	10.000	Range 70 - 130	Recovery	=	106.50%	

Target Compounds

						Qvalue
2) Propylene	3.550	41	6973	0.226	ppbv	96
3) Dichlorodifluoromethane	3.630	85	16156	0.191	ppbv	96
4) Chloromethane	3.788	52	1686	0.277	ppbv	91
5) 1,2-Dichlorotetrafluor...	3.897	85	12052	0.210	ppbv	95
6) Vinyl Chloride	4.005	62	4655	0.231	ppbv	75
7) 1,3-Butadiene	4.135	54	3333	0.229	ppbv#	93
8) Bromomethane	4.387	94	4918m	0.226	ppbv	
9) Chloroethane	4.531	64	2247m	0.243	ppbv	
10) Ethanol	4.639	45	2249	0.387	ppbv#	62
11) Acetone	5.036	43	9981	0.328	ppbv#	72
12) Trichlorofluoromethane	5.173	101	13919	0.184	ppbv#	91
13) Isopropylalcohol	5.231	45	18622	0.314	ppbv#	93
14) Acrylonitrile	5.396	53	5760	0.221	ppbv	90
15) 1,1-Dichloroethene	5.661	61	10218	0.196	ppbv	97
16) Methylene Chloride	5.744	49	8083	0.195	ppbv	95
19) Carbon Disulfide	5.964	76	15253	0.190	ppbv#	92
20) Trichlorotrifluoroethane	5.917	101	10762	0.193	ppbv	96
21) Trans-1,2-Dichloroethene	6.350	61	7462	0.190	ppbv	96
22) 1,1-Dichloroethane	6.465	63	9446	0.199	ppbv	96
23) Methyl tert-butyl ethe...	6.496	73	12777	0.208	ppbv	99
24) Methyl Ethyl Ketone	6.679	43	9614	0.201	ppbv	98
25) Cis-1,2-Dichloroethene	6.915	61	6070	0.199	ppbv	90
26) Hexane	7.021	57	4958	0.198	ppbv#	78
27) Chloroform	7.066	83	9317	0.200	ppbv	94
28) Ethyl acetate	7.013	43	14386	0.238	ppbv	97
29) Tetrahydrofuran	7.278	42	3668	0.204	ppbv	92
30) 1,2-Dichloroethane	7.437	62	4974	0.179	ppbv#	92
31) 1,1,1-Trichloroethane	7.566	97	7839	0.192	ppbv	98
32) Benzene	7.786	78	8761	0.212	ppbv	96
33) Carbon Tetrachloride	7.854	117	7509	0.187	ppbv	95
34) Cyclohexane	7.914	41	2668	0.263	ppbv#	1
36) 1,2-dichloropropane	8.164	63	2906	0.207	ppbv	88
37) Bromodichloromethane	10.532	83	6840	0.169	ppbv	99
38) Trichloroethene	8.270	130	3459	0.190	ppbv	88
40) 1,4-Dioxane	8.255	88	1564	0.193	ppbv	91
42) Heptane	8.376	43	4026	0.248	ppbv#	84
43) cis-1,3-Dichloropropene	8.648	75	3982	0.161	ppbv	98
44) 4-Methyl-2-pentanone(M...	8.656	43	5236	0.198	ppbv	92
45) trans-1,3-Dichloropropene	8.885	75	3659	0.173	ppbv	95
46) 1,1,2-Trichloroethane	8.983	97	3116	0.189	ppbv	91
47) Toluene	9.117	91	7797	0.196	ppbv	91
48) Dibromochloromethane	9.328	129	6270	0.167	ppbv	97

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_08.D
 Acq On : 19 Feb 2016 09:27 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:30 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:10:00 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	3951	0.169	ppbv#	91
50) 1,2-Dibromoethane(EDB)	9.455	107	5082	0.156	ppbv	94
51) Tetrachloroethene	9.673	166	4701	0.172	ppbv	97
53) 1,1,1,2-Tetrachloroethane	10.007	131	3776	0.209	ppbv	92
54) Chlorobenzene	10.014	112	6499	0.216	ppbv#	50
55) Ethylbenzene	10.199	91	10095	0.212	ppbv	97
56) m, p-Xylene	10.288	91	15808m	0.432	ppbv	
57) Bromoform	10.347	173	5453	0.168	ppbv	98
58) Styrene	10.480	104	4702	0.170	ppbv#	92
59) 1,1,2,2-Tetrachloroethane	10.532	83	6840	0.216	ppbv	100
60) o-Xylene	10.532	91	8791	0.236	ppbv	94
63) Isopropylbenzene	10.850	105	10547	0.216	ppbv	99
65) 4-Ethyltoluene	11.213	105	10777m	0.201	ppbv	
66) 1,3,5-Trimethylbenzene	11.258	105	9974	0.227	ppbv	95
67) 1,2,4-Trimethylbenzene	11.503	105	9542	0.235	ppbv	98
69) Benzyl chloride	11.592	91	7318	0.165	ppbv	97
70) 1,3-Dichlorobenzene	11.606	146	7117m	0.203	ppbv	
71) 1,4-Dichlorobenzene	11.651	146	6780m	0.195	ppbv	
72) sec-Butylbenzene	11.666	105	13069m	0.222	ppbv	
73) 4-Isopropyltoluene	11.762	119	11079	0.212	ppbv	97
74) 1,2-Dichlorobenzene	11.866	146	7348	0.214	ppbv	98
75) n-Butylbenzene	12.022	91	10110	0.206	ppbv	92
76) 1,2,4-Trichlorobenzene	12.993	180	5192	0.171	ppbv	98
78) Hexachlorobutadiene	13.304	225	6302	0.231	ppbv	94
80] Dichlorodifluoromethan...	3.633	85	20005	0.181	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.897	85	12052	0.193	ppbv	95
82] Vinyl Chloride(sim)	4.008	62	4977	0.195	ppbv	99
83] Bromomethane(sim)	4.383	94	5476m	0.242	ppbv	
84] Trichlorofluoromethane...	5.176	101	18297	0.183	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	4974	0.167	ppbv#	92
86] 1,1,1-Trichloroethane(...	7.561	97	9743	0.184	ppbv#	99
87] Carbon Tetrachloride(sim)	7.854	117	7509	0.176	ppbv	95
88] 1,1-Dichloroethene(sim)	5.664	61	11988	0.180	ppbv	98
89] Carbon Disulfide(sim)	5.964	76	15253	0.181	ppbv#	92
90] Trichlorotrifluoroetha...	5.920	101	13870	0.187	ppbv	99
91] Trans-1,2-Dichloroethe...	6.350	61	7462	0.179	ppbv	96
92] 1,1-Dichloroethane(sim)	6.468	63	11217	0.187	ppbv	99
93] Cis-1,2-Dichloroethene...	6.915	61	6070	0.187	ppbv	96
94] Chloroform(sim)	7.069	83	11113	0.186	ppbv	98
95] Benzene(sim)	7.786	78	8761	0.199	ppbv#	96
97] 1,2-dichloropropane(sim)	8.164	63	2906	0.193	ppbv	88
98] Bromodichloromethane(sim)	10.528	83	8332	0.155	ppbv	100
99] Trichloroethene(sim)	8.270	130	3459	0.134	ppbv	92
102] 1,1,2-Trichloroethane(...	8.979	97	3716	0.174	ppbv	98
103] Dibromochloromethane(sim)	9.328	129	6270	0.162	ppbv	97
104] 1,2-Dibromoethane(EDB)...	9.458	107	6478	0.154	ppbv	100
105] Tetrachloroethene(sim)	9.673	166	4701	0.166	ppbv	94
107] Bromoform(sim)	10.347	173	5453	0.158	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.535	131	922	0.195	ppbv	94
109] Chlorobenzene(sim)	10.014	112	6499	0.193	ppbv#	50
110] Ethylbenzene(sim)	10.195	91	11020	0.187	ppbv	100
111] m, p-Xylene(sim)	10.288	91	15808	0.379	ppbv	100
112] Styrene(sim)	10.476	104	5201	0.162	ppbv	98
114] o-Xylene(sim)	10.535	91	8894	0.188	ppbv	100
115] Isopropylbenzene(sim)	10.850	105	10547	0.191	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_08.D
 Acq On : 19 Feb 2016 09:27 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:30 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:10:00 2016
 Response via : Initial Calibration

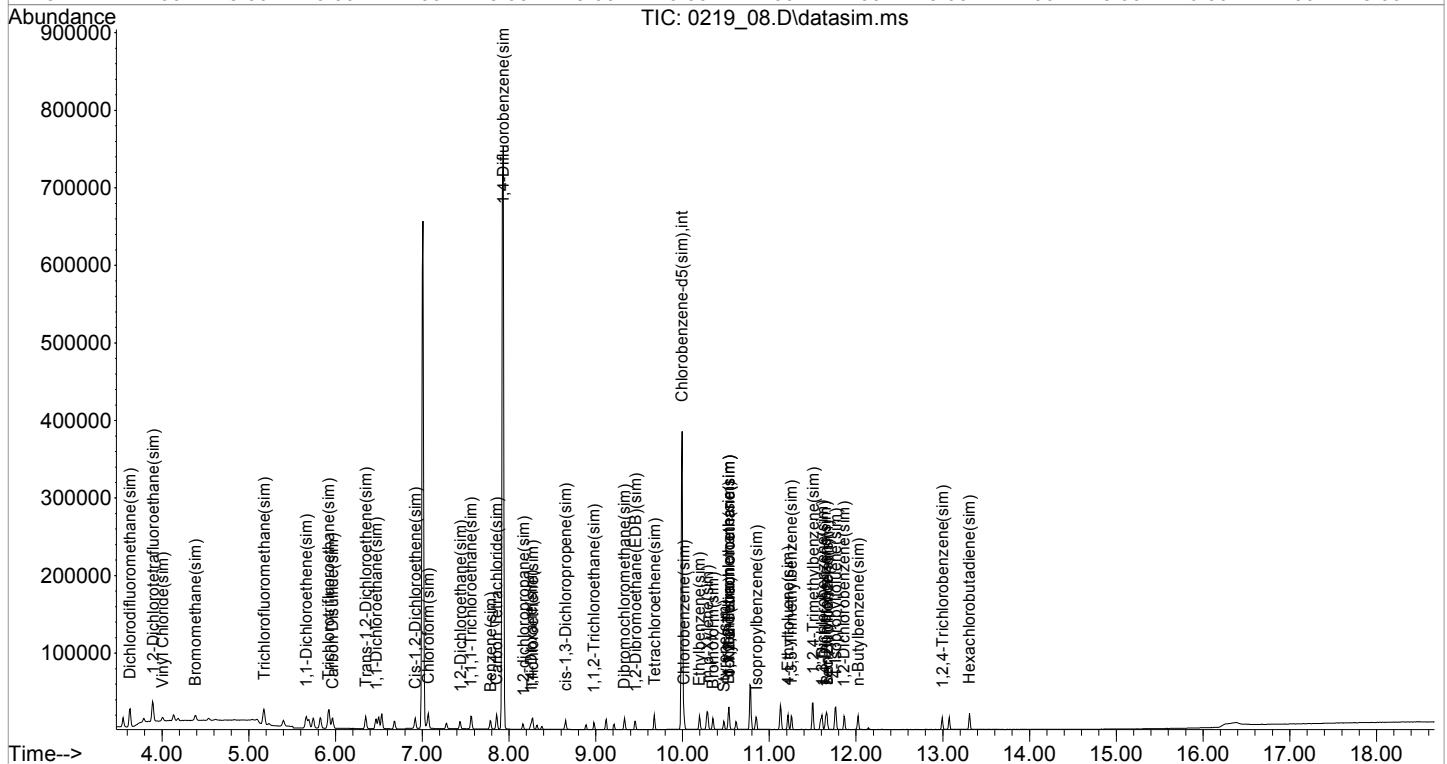
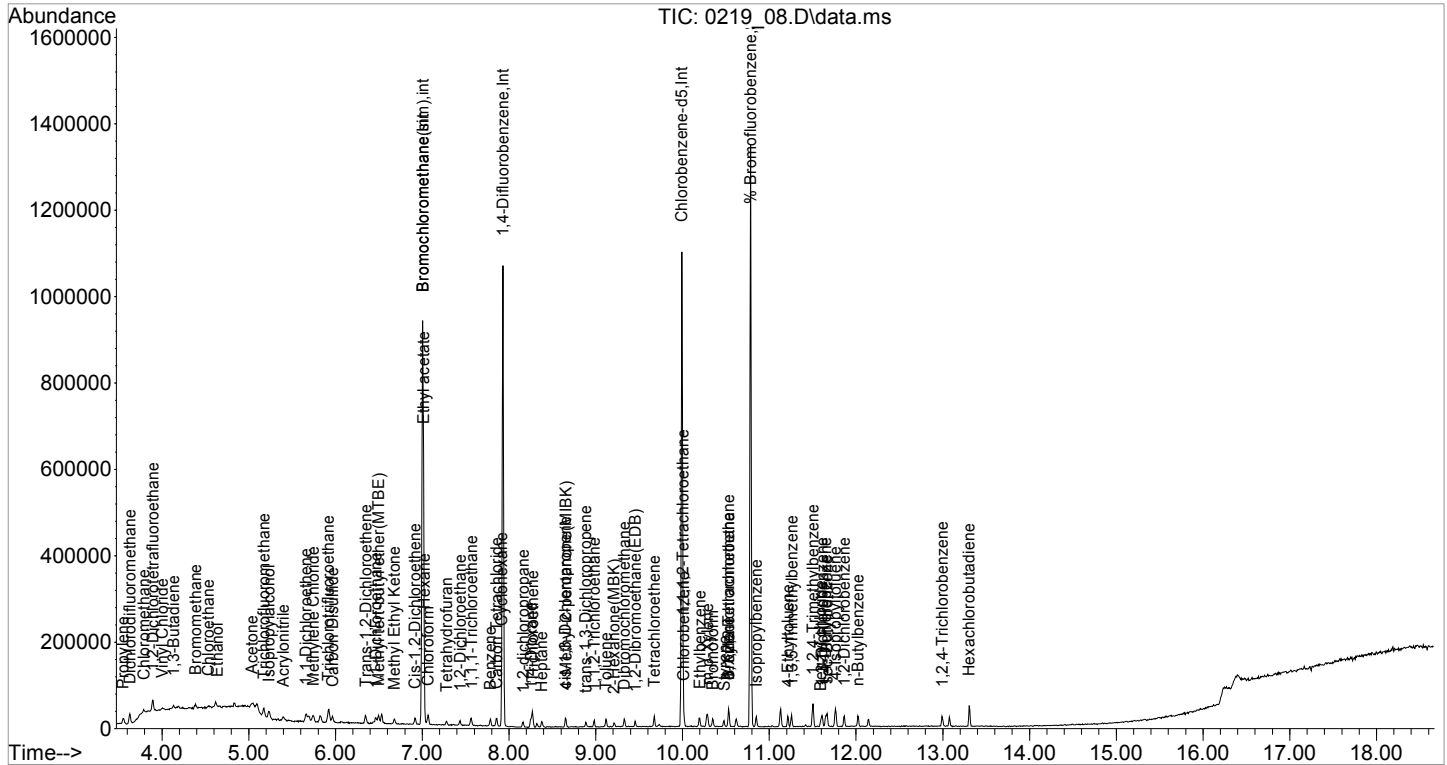
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	4-Ethyltoluene(sim)	11.216	105	11325m	0.175	ppbv	
118]	1,3,5-Trimethylbenzene...	11.253	105	9801m	0.181	ppbv	
119]	1,2,4-Trimethylbenzene...	11.503	105	9542	0.212	ppbv	98
121]	Benzyl chloride(sim)	11.669	91	2545m	0.078	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.609	146	9261m	0.185	ppbv	
123]	1,4-Dichlorobenzene(sim)	11.646	146	8915m	0.184	ppbv	
124]	sec-Butylbenzene(sim)	11.669	105	14101m	0.195	ppbv	
126]	1,2-Dichlorobenzene(sim)	11.861	146	9145	0.188	ppbv	100
130]	Hexachlorobutadiene(sim)	13.307	225	8186	0.199	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_08.D
Acq On : 19 Feb 2016 09:27 pm
Operator : CORTEX\yms
Client ID : ICAL 0.2
Lab ID : 0.2ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:32:30 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:10:00 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_09.D
 Acq On : 19 Feb 2016 10:09 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.5ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:16 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:15:28 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	190727	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	503948	10.000	ng	0.00
52) Chlorobenzene-d5	9.991	82	198010	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	190727	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	593675	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.994	82	210874	10.000	ng	0.00

System Monitoring Compounds

61) % Bromofluorobenzene	10.783	95	255282	9.754	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.50%	

Target Compounds

						Qvalue
2) Propylene	3.551	41	14855	0.491	ppbv	95
3) Dichlorodifluoromethane	3.630	85	39229	0.477	ppbv	99
4) Chloromethane	3.789	52	3028m	0.471	ppbv	
5) 1,2-Dichlorotetrafluor...	3.890	85	28206	0.497	ppbv	97
6) Vinyl Chloride	4.005	62	10025	0.493	ppbv	95
7) 1,3-Butadiene	4.135	54	7543m	0.514	ppbv	
8) Bromomethane	4.380	94	9981	0.456	ppbv	93
9) Chloroethane	4.539	64	4632	0.491	ppbv	82
10) Ethanol	4.640	45	3448m	0.607	ppbv	
11) Acetone	5.036	43	18169m	0.540	ppbv	
12) Trichlorofluoromethane	5.173	101	35108	0.481	ppbv	98
13) Isopropylalcohol	5.231	45	40410	0.695	ppbv	96
14) Acrylonitrile	5.397	53	12680	0.487	ppbv	100
15) 1,1-Dichloroethene	5.661	61	24446	0.481	ppbv	98
16) Methylene Chloride	5.744	49	19988	0.495	ppbv	99
19) Carbon Disulfide	5.965	76	38052	0.489	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	25758	0.475	ppbv	98
21) Trans-1,2-Dichloroethene	6.344	61	18455	0.484	ppbv	96
22) 1,1-Dichloroethane	6.464	63	22482	0.485	ppbv	98
23) Methyl tert-butyl ethe...	6.496	73	28887	0.477	ppbv	97
24) Methyl Ethyl Ketone	6.673	43	23758	0.507	ppbv	97
25) Cis-1,2-Dichloroethene	6.915	61	14869	0.499	ppbv	96
26) Hexane	7.021	57	12245	0.501	ppbv#	86
27) Chloroform	7.066	83	21854	0.480	ppbv	99
28) Ethyl acetate	7.013	43	29847	0.485	ppbv	98
29) Tetrahydrofuran	7.278	42	8927	0.506	ppbv	96
30) 1,2-Dichloroethane	7.437	62	13306	0.499	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	19459	0.491	ppbv	99
32) Benzene	7.785	78	20077	0.490	ppbv	97
33) Carbon Tetrachloride	7.861	117	18213	0.470	ppbv	98
34) Cyclohexane	7.921	41	5501	0.520	ppbv#	1
36) 1,2-dichloropropane	8.164	63	6702	0.486	ppbv	93
37) Bromodichloromethane	10.532	83	15679	0.410	ppbv	89
38) Trichloroethene	8.270	130	8359	0.475	ppbv	95
40) 1,4-Dioxane	8.254	88	4018	0.512	ppbv	92
42) Heptane	8.376	43	8026	0.484	ppbv	95
43) cis-1,3-Dichloropropene	8.648	75	9724	0.419	ppbv	100
44) 4-Methyl-2-pentanone(M...	8.648	43	10681	0.415	ppbv	96
45) trans-1,3-Dichloropropene	8.885	75	8292	0.412	ppbv	94
46) 1,1,2-Trichloroethane	8.983	97	7632	0.481	ppbv	93
47) Toluene	9.117	91	18771	0.487	ppbv	97
48) Dibromochloromethane	9.328	129	14832	0.419	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_09.D
 Acq On : 19 Feb 2016 10:09 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.5ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:16 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:15:28 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.208	43	9457	0.429	ppbv	96
50) 1,2-Dibromoethane(EDB)	9.455	107	12865	0.423	ppbv	97
51) Tetrachloroethene	9.673	166	11860	0.458	ppbv	97
53) 1,1,1,2-Tetrachloroethane	10.006	131	9525	0.525	ppbv	96
54) Chlorobenzene	10.014	112	15421	0.507	ppbv#	77
55) Ethylbenzene	10.199	91	24931	0.520	ppbv	99
56) m, p-Xylene	10.287	91	37732m	1.022	ppbv	
57) Bromoform	10.347	173	13211	0.423	ppbv	96
58) Styrene	10.480	104	11723	0.441	ppbv	98
59) 1,1,2,2-Tetrachloroethane	10.532	83	15679	0.490	ppbv	92
60) o-Xylene	10.539	91	20241	0.528	ppbv	98
63) Isopropylbenzene	10.850	105	24614	0.500	ppbv	96
65) 4-Ethyltoluene	11.213	105	27391m	0.514	ppbv	
66) 1,3,5-Trimethylbenzene	11.258	105	21732	0.484	ppbv	97
67) 1,2,4-Trimethylbenzene	11.502	105	22528	0.539	ppbv	98
69) Benzyl chloride	11.591	91	18559	0.436	ppbv	99
70) 1,3-Dichlorobenzene	11.606	146	17328m	0.496	ppbv	
71) 1,4-Dichlorobenzene	11.650	146	16678m	0.485	ppbv	
72) sec-Butylbenzene	11.665	105	32350m	0.542	ppbv	
73) 4-Isopropyltoluene	11.762	119	29048	0.552	ppbv	100
74) 1,2-Dichlorobenzene	11.866	146	16890	0.488	ppbv	96
75) n-Butylbenzene	12.021	91	25431	0.519	ppbv	98
76) 1,2,4-Trichlorobenzene	12.992	180	12417	0.424	ppbv	97
78) Hexachlorobutadiene	13.304	225	14674	0.524	ppbv	98
80] Dichlorodifluoromethan...	3.626	85	48502	0.473	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.890	85	28206	0.462	ppbv	97
82] Vinyl Chloride(sim)	4.001	62	11365	0.457	ppbv	99
83] Bromomethane(sim)	4.380	94	9981	0.351	ppbv	93
84] Trichlorofluoromethane...	5.176	101	43971	0.473	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	13306	0.479	ppbv	99
86] 1,1,1-Trichloroethane(...	7.569	97	23407	0.472	ppbv#	99
87] Carbon Tetrachloride(sim)	7.861	117	18213	0.452	ppbv	98
88] 1,1-Dichloroethene(sim)	5.658	61	29094	0.469	ppbv	99
89] Carbon Disulfide(sim)	5.965	76	38052	0.484	ppbv	99
90] Trichlorotrifluoroetha...	5.920	101	33272	0.471	ppbv	100
91] Trans-1,2-Dichloroethe...	6.344	61	18455	0.448	ppbv	96
92] 1,1-Dichloroethane(sim)	6.467	63	27154	0.470	ppbv	99
93] Cis-1,2-Dichloroethene...	6.915	61	14869	0.460	ppbv	96
94] Chloroform(sim)	7.069	83	26770	0.474	ppbv	99
95] Benzene(sim)	7.785	78	20077	0.418	ppbv	97
97] 1,2-dichloropropane(sim)	8.164	63	6702	0.435	ppbv	93
98] Bromodichloromethane(sim)	10.527	83	20394	0.447	ppbv	100
99] Trichloroethene(sim)	8.270	130	8359	0.377	ppbv	92
100] 1,4-Dioxane(sim)	8.257	88	4418	0.411	ppbv	97
101] cis-1,3-Dichloropropen...	8.648	75	9724	0.454	ppbv	100
102] 1,1,2-Trichloroethane(...	8.979	97	9175	0.476	ppbv	100
103] Dibromochloromethane(sim)	9.328	129	14832	0.466	ppbv	99
104] 1,2-Dibromoethane(EDB)...	9.458	107	16262	0.471	ppbv	100
105] Tetrachloroethene(sim)	9.673	166	11860	0.469	ppbv	97
107] Bromoform(sim)	10.347	173	13090	0.424	ppbv	96
108] 1,1,1,2-Tetrachloroeth...	10.535	131	2228	0.419	ppbv	100
109] Chlorobenzene(sim)	10.014	112	15421	0.440	ppbv#	77
110] Ethylbenzene(sim)	10.194	91	26623	0.450	ppbv	99
111] m, p-Xylene(sim)	10.287	91	37732	0.872	ppbv	99
112] Styrene(sim)	10.475	104	12834	0.434	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_09.D
 Acq On : 19 Feb 2016 10:09 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.5ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:16 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:15:28 2016
 Response via : Initial Calibration

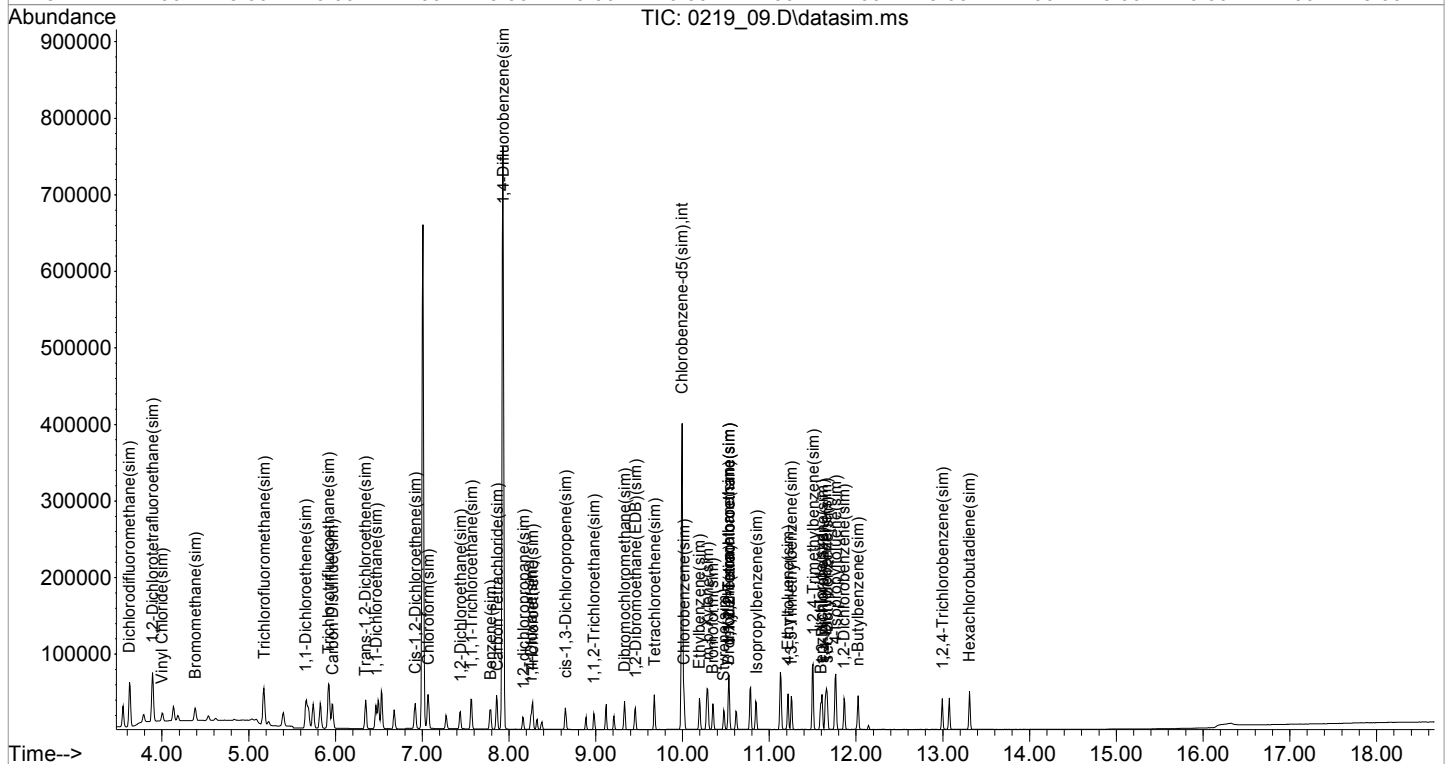
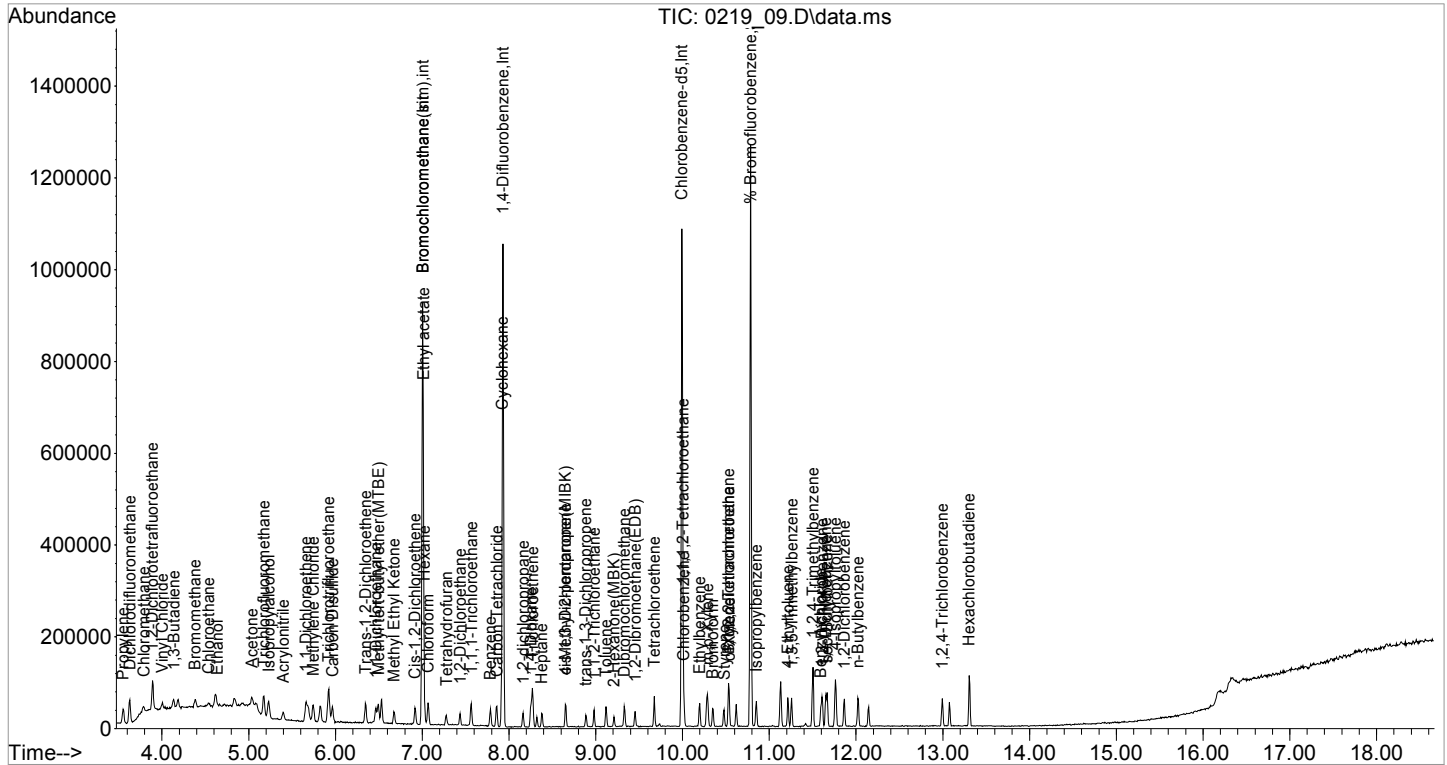
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113]	1,1,2,2-Tetrachloroeth...	10.532	83	15679	0.419	ppbv	91
114]	o-Xylene(sim)	10.535	91	21506	0.448	ppbv	100
115]	Isopropylbenzene(sim)	10.850	105	24614	0.430	ppbv	96
117]	4-Ethyltoluene(sim)	11.213	105	27391	0.448	ppbv	97
118]	1,3,5-Trimethylbenzene...	11.253	105	23845	0.448	ppbv	100
119]	1,2,4-Trimethylbenzene...	11.502	105	22528	0.467	ppbv	98
121]	Benzyl chloride(sim)	11.594	91	19829m	0.512	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.609	146	22306	0.423	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.650	146	16676	0.394	ppbv	99
124]	sec-Butylbenzene(sim)	11.668	105	34242	0.444	ppbv	99
125]	4-Isopropyltoluene(sim)	11.762	119	29048	0.435	ppbv	100
126]	1,2-Dichlorobenzene(sim)	11.861	146	22187	0.427	ppbv	100
127]	n-Butylbenzene(sim)	12.021	91	25431	0.441	ppbv	98
128]	1,2,4-Trichlorobenzene...	12.995	180	16775	0.444	ppbv	99
130]	Hexachlorobutadiene(sim)	13.307	225	19774	0.435	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_09.D
Acq On : 19 Feb 2016 10:09 pm
Operator : CORTEX\yms
Client ID : ICAL 0.5
Lab ID : 0.5ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:16 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:15:28 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_10.D
 Acq On : 19 Feb 2016 10:51 pm
 Operator : CORTEX\ms
 Client ID : ICAL 1
 Lab ID : 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:17:06 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	188412	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	496920	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	222966	10.000	ng	0.03
79) Bromochloromethane(sim)	7.006	130	188412	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	583907	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	239029	10.000	ng	0.03

System Monitoring Compounds

61) % Bromofluorobenzene	10.843	95	297098	10.123	ppbv	0.06
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.20%	

Target Compounds

						Qvalue
2) Propylene	3.558	41	27784	0.933	ppbv	94
3) Dichlorodifluoromethane	3.637	85	77843	0.966	ppbv	99
4) Chloromethane	3.796	52	7722	1.229	ppbv#	60
5) 1,2-Dichlorotetrafluor...	3.897	85	55374	0.988	ppbv	98
6) Vinyl Chloride	4.005	62	19629	0.980	ppbv	100
7) 1,3-Butadiene	4.142	54	14314	0.982	ppbv	92
8) Bromomethane	4.387	94	20184	0.948	ppbv	98
9) Chloroethane	4.538	64	9549	1.027	ppbv	96
10) Ethanol	4.639	45	6362	1.087	ppbv#	82
11) Acetone	5.036	43	36340	1.080	ppbv	97
12) Trichlorofluoromethane	5.180	101	67042	0.935	ppbv	97
13) Isopropylalcohol	5.231	45	61000	0.985	ppbv	100
14) Acrylonitrile	5.396	53	24290	0.949	ppbv	99
15) 1,1-Dichloroethene	5.661	61	46805	0.938	ppbv	99
16) Methylene Chloride	5.744	49	38560	0.968	ppbv	99
19) Carbon Disulfide	5.964	76	74202	0.968	ppbv	97
20) Trichlorotrifluoroethane	5.923	101	50513	0.951	ppbv	97
21) Trans-1,2-Dichloroethene	6.350	61	36850	0.983	ppbv	99
22) 1,1-Dichloroethane	6.465	63	45515	0.998	ppbv	100
23) Methyl tert-butyl ethe...	6.491	73	57029	0.960	ppbv	99
24) Methyl Ethyl Ketone	6.673	43	44155	0.951	ppbv	99
25) Cis-1,2-Dichloroethene	6.915	61	28974	0.985	ppbv	98
26) Hexane	7.021	57	23745	0.983	ppbv	99
27) Chloroform	7.066	83	43318	0.969	ppbv	99
28) Ethyl acetate	7.013	43	59829	0.985	ppbv	99
29) Tetrahydrofuran	7.271	42	17864	1.023	ppbv	92
30) 1,2-Dichloroethane	7.437	62	26075	0.990	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	38415	0.984	ppbv	98
32) Benzene	7.785	78	40624	1.006	ppbv	97
33) Carbon Tetrachloride	7.861	117	36185	0.954	ppbv	100
34) Cyclohexane	7.922	41	10564	1.005	ppbv#	49
36) 1,2-dichloropropane	8.164	63	13092	0.968	ppbv	96
37) Bromodichloromethane	10.584	83	38425	1.050	ppbv	98
38) Trichloroethene	8.270	130	17517	1.017	ppbv	99
40) 1,4-Dioxane	8.255	88	8480	1.092	ppbv	93
42) Heptane	8.376	43	15849	0.975	ppbv	97
43) cis-1,3-Dichloropropene	8.648	75	23751	1.067	ppbv	92
44) 4-Methyl-2-pentanone(M...	8.648	43	25476	1.033	ppbv	94
45) trans-1,3-Dichloropropene	8.885	75	18097	0.940	ppbv	96
46) 1,1,2-Trichloroethane	8.983	97	14976	0.963	ppbv	99
47) Toluene	9.117	91	35847	0.947	ppbv	99
48) Dibromochloromethane	9.335	129	32360	0.953	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_10.D
 Acq On : 19 Feb 2016 10:51 pm
 Operator : CORTEX\ms
 Client ID : ICAL 1
 Lab ID : 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:17:06 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	20141	0.948	ppbv	97
50) 1,2-Dibromoethane(EDB)	9.462	107	29601	1.013	ppbv	98
51) Tetrachloroethene	9.687	166	24345	0.967	ppbv	98
53) 1,1,1,2-Tetrachloroethane	10.029	131	21148	1.027	ppbv	97
54) Chlorobenzene	10.044	112	36073	1.050	ppbv	93
55) Ethylbenzene	10.236	91	55699	1.025	ppbv	98
56) m, p-Xylene	10.332	91	88855	2.130	ppbv	99
57) Bromoform	10.399	173	30748	0.897	ppbv	100
58) Styrene	10.532	104	29020	0.988	ppbv	98
59) 1,1,2,2-Tetrachloroethane	10.584	83	38425	1.071	ppbv	98
60) o-Xylene	10.591	91	46779	1.074	ppbv	97
63) Isopropylbenzene	10.917	105	58750	1.060	ppbv	98
65) 4-Ethyltoluene	11.295	105	62480m	1.036	ppbv	
66) 1,3,5-Trimethylbenzene	11.332	105	51916m	1.032	ppbv	
67) 1,2,4-Trimethylbenzene	11.592	105	45769	0.960	ppbv	98
69) Benzyl chloride	11.681	91	49981	1.065	ppbv	98
70) 1,3-Dichlorobenzene	11.695	146	40682	1.036	ppbv	97
71) 1,4-Dichlorobenzene	11.740	146	39752m	1.032	ppbv	
72) sec-Butylbenzene	11.592	105	45868	0.673	ppbv#	82
73) 4-Isopropyltoluene	11.851	119	65371	1.085	ppbv	99
74) 1,2-Dichlorobenzene	11.955	146	40436	1.041	ppbv	98
75) n-Butylbenzene	12.118	91	59472	1.072	ppbv	97
76) 1,2,4-Trichlorobenzene	13.104	180	32004m	0.996	ppbv	
78) Hexachlorobutadiene	13.415	225	33563m	1.056	ppbv	
80] Dichlorodifluoromethan...	3.633	85	96779	0.965	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.897	85	55374	0.933	ppbv	98
82] Vinyl Chloride(sim)	4.008	62	22657	0.936	ppbv	100
83] Bromomethane(sim)	4.387	94	20184	0.757	ppbv	98
84] Trichlorofluoromethane...	5.176	101	87703	0.963	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	26075	0.957	ppbv	99
86] 1,1,1-Trichloroethane(...	7.569	97	46238	0.953	ppbv#	99
87] Carbon Tetrachloride(sim)	7.861	117	36185	0.924	ppbv	100
88] 1,1-Dichloroethene(sim)	5.664	61	57861	0.953	ppbv	100
89] Carbon Disulfide(sim)	5.964	76	74202	0.961	ppbv	97
90] Trichlorotrifluoroetha...	5.926	101	66150	0.957	ppbv	100
91] Trans-1,2-Dichloroethe...	6.350	61	36850	0.922	ppbv	99
92] 1,1-Dichloroethane(sim)	6.468	63	53151	0.941	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	28974	0.920	ppbv	97
94] Chloroform(sim)	7.069	83	53026	0.958	ppbv	99
95] Benzene(sim)	7.785	78	40624	0.880	ppbv	97
97] 1,2-dichloropropane(sim)	8.164	63	13092	0.882	ppbv	96
98] Bromodichloromethane(sim)	10.587	83	46765	1.061	ppbv	100
99] Trichloroethene(sim)	8.270	130	17517	0.838	ppbv	99
100] 1,4-Dioxane(sim)	8.258	88	8668	0.850	ppbv	98
101] cis-1,3-Dichloropropen...	8.648	75	23751	1.148	ppbv	92
102] 1,1,2-Trichloroethane(...	8.979	97	18448	0.982	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	32360	1.047	ppbv	98
104] 1,2-Dibromoethane(EDB)...	9.458	107	35727	1.062	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	24345	0.992	ppbv	98
107] Bromoform(sim)	10.399	173	30748	0.906	ppbv	100
108] 1,1,1,2-Tetrachloroeth...	10.587	131	5001	0.853	ppbv	99
109] Chlorobenzene(sim)	10.044	112	36073	0.927	ppbv#	93
110] Ethylbenzene(sim)	10.231	91	60464	0.920	ppbv	99
111] m, p-Xylene(sim)	10.332	91	88851	1.851	ppbv	99
112] Styrene(sim)	10.528	104	31489	0.965	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_10.D
 Acq On : 19 Feb 2016 10:51 pm
 Operator : CORTEX\ms
 Client ID : ICAL 1
 Lab ID : 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:33:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:17:06 2016
 Response via : Initial Calibration

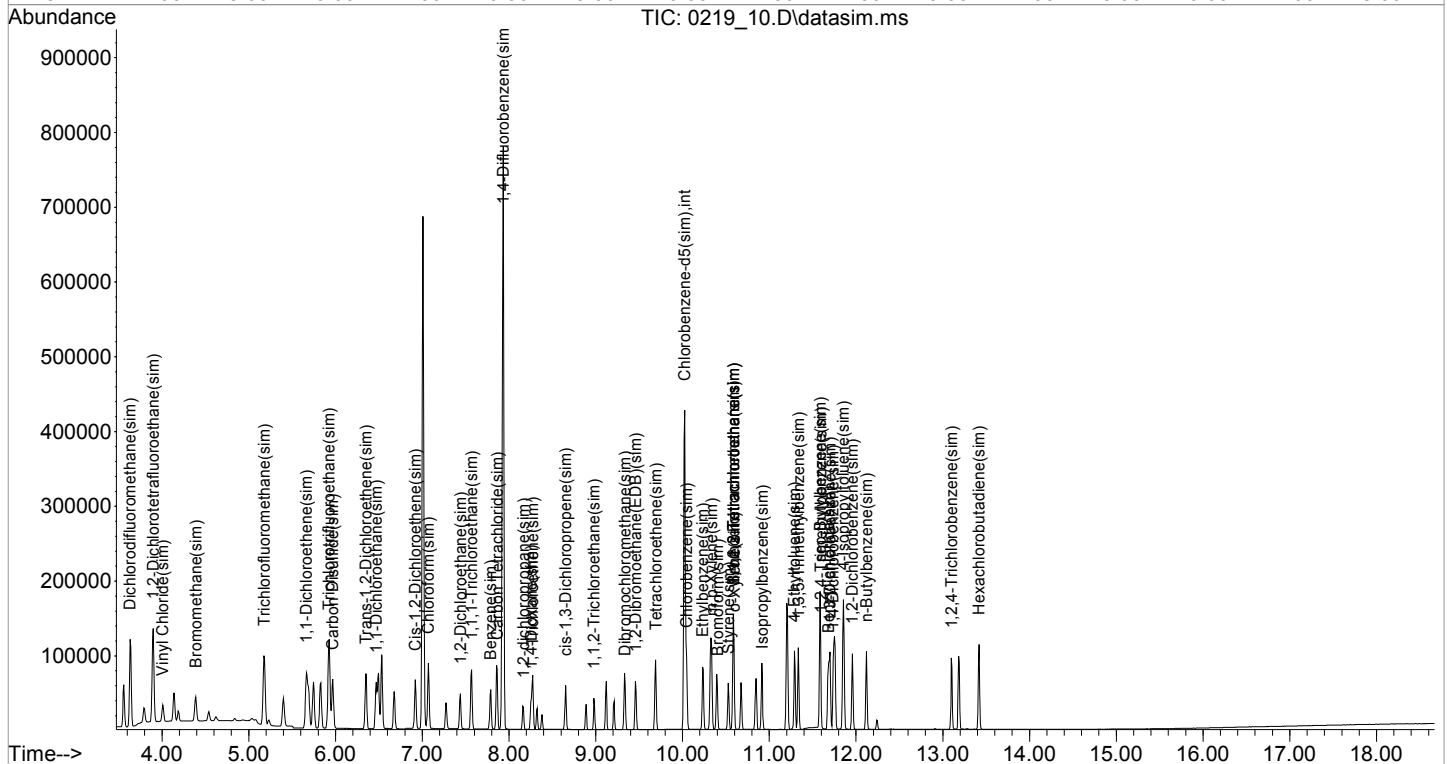
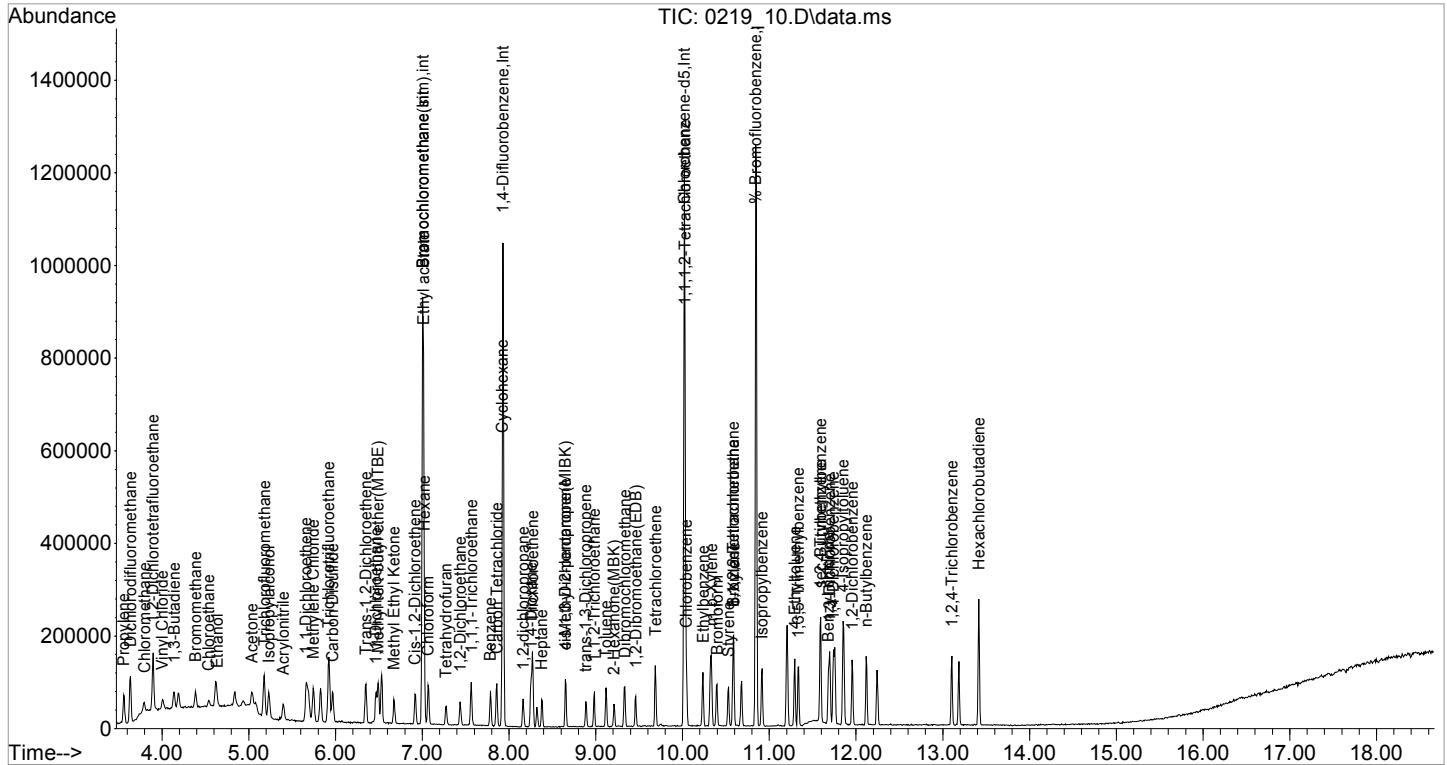
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113]	1,1,2,2-Tetrachloroeth...	10.584	83	38425	0.936	ppbv	98
114]	o-Xylene(sim)	10.594	91	50184	0.941	ppbv	100
115]	Isopropylbenzene(sim)	10.917	105	58750	0.931	ppbv	98
117]	4-Ethyltoluene(sim)	11.290	105	67779m	0.999	ppbv	
118]	1,3,5-Trimethylbenzene...	11.335	105	57094m	0.966	ppbv	
119]	1,2,4-Trimethylbenzene...	11.592	105	45868	0.850	ppbv	96
121]	Benzyl chloride(sim)	11.683	91	53960m	1.237	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.698	146	52529	0.902	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.735	146	51629m	1.125	ppbv	
124]	sec-Butylbenzene(sim)	11.587	105	49318	0.575	ppbv	84
125]	4-Isopropyltoluene(sim)	11.851	119	65361	0.887	ppbv	99
126]	1,2-Dichlorobenzene(sim)	11.958	146	51607	0.897	ppbv	100
127]	n-Butylbenzene(sim)	12.118	91	59661	0.935	ppbv	97
128]	1,2,4-Trichlorobenzene...	13.100	180	43720	1.050	ppbv	100
130]	Hexachlorobutadiene(sim)	13.418	225	45891	0.915	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_10.D
Acq On : 19 Feb 2016 10:51 pm
Operator : CORTEX\ms
Client ID : ICAL 1
Lab ID : 1.0ppb
ALS Vial : 1 Sample Multiplier: 1
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Quant Time: Feb 23 08:33:58 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:17:06 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_11.D
 Acq On : 19 Feb 2016 11:28 pm
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:30:44 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:18:35 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	183679	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	482354	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	223201	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	183679	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	570963	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	237066	10.000	ng	0.00

System Monitoring Compounds

61) % Bromofluorobenzene	10.843	95	297648	10.113	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.10%		

Target Compounds

						Qvalue
2) Propylene	3.550	41	68892	2.401	ppbv	99
3) Dichlorodifluoromethane	3.630	85	194902	2.493	ppbv	99
4) Chloromethane	3.788	52	16097	2.544	ppbv#	86
5) 1,2-Dichlorotetrafluor...	3.889	85	132574	2.430	ppbv	99
6) Vinyl Chloride	3.997	62	46550	2.391	ppbv	98
7) 1,3-Butadiene	4.134	54	33315	2.351	ppbv	95
8) Bromomethane	4.380	94	49238	2.389	ppbv	98
9) Chloroethane	4.531	64	21048	2.314	ppbv	97
10) Ethanol	4.632	45	15020	2.594	ppbv	98
11) Acetone	5.029	43	73191	2.205	ppbv	98
12) Trichlorofluoromethane	5.173	101	170471	2.462	ppbv	98
13) Isopropylalcohol	5.223	45	143103	2.377	ppbv	98
14) Acrylonitrile	5.396	53	56962	2.300	ppbv	99
15) 1,1-Dichloroethene	5.661	61	116042	2.406	ppbv	99
16) Methylene Chloride	5.744	49	95072	2.459	ppbv	99
19) Carbon Disulfide	5.964	76	181418	2.439	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	126207	2.453	ppbv	100
21) Trans-1,2-Dichloroethene	6.345	61	90779	2.490	ppbv	98
22) 1,1-Dichloroethane	6.465	63	108300	2.438	ppbv	99
23) Methyl tert-butyl ethe...	6.486	73	138470	2.405	ppbv	99
24) Methyl Ethyl Ketone	6.673	43	107863	2.400	ppbv	100
25) Cis-1,2-Dichloroethene	6.915	61	68483	2.392	ppbv	99
26) Hexane	7.021	57	58747	2.500	ppbv	99
27) Chloroform	7.066	83	106152	2.447	ppbv	100
28) Ethyl acetate	7.006	43	146576	2.481	ppbv	99
29) Tetrahydrofuran	7.271	42	40159	2.350	ppbv	98
30) 1,2-Dichloroethane	7.437	62	63211	2.466	ppbv	98
31) 1,1,1-Trichloroethane	7.566	97	92967	2.448	ppbv	99
32) Benzene	7.785	78	94257	2.393	ppbv	98
33) Carbon Tetrachloride	7.861	117	92394	2.516	ppbv	98
34) Cyclohexane	7.922	41	24502	2.388	ppbv#	78
36) 1,2-dichloropropane	8.164	63	32162	2.460	ppbv	98
37) Bromodichloromethane	10.584	83	96068	2.685	ppbv	100
38) Trichloroethene	8.270	130	41793	2.494	ppbv	100
40) 1,4-Dioxane	8.255	88	18815	2.464	ppbv	99
42) Heptane	8.376	43	38146	2.426	ppbv	99
43) cis-1,3-Dichloropropene	8.648	75	49245	2.257	ppbv	98
44) 4-Methyl-2-pentanone(M...	8.648	43	61009	2.536	ppbv	95
45) trans-1,3-Dichloropropene	8.885	75	47721	2.576	ppbv	99
46) 1,1,2-Trichloroethane	8.983	97	36765	2.449	ppbv	99
47) Toluene	9.117	91	87276	2.393	ppbv	100
48) Dibromochloromethane	9.335	129	80013	2.444	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_11.D
 Acq On : 19 Feb 2016 11:28 pm
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:30:44 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:18:35 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	50443	2.465	ppbv	99
50) 1,2-Dibromoethane(EDB)	9.462	107	71580	2.520	ppbv	98
51) Tetrachloroethene	9.687	166	60508	2.487	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.029	131	52108	2.518	ppbv	97
54) Chlorobenzene	10.043	112	89835	2.595	ppbv	96
55) Ethylbenzene	10.236	91	137581	2.521	ppbv	100
56) m, p-Xylene	10.325	91	205890	5.036	ppbv	99
57) Bromoform	10.399	173	83944	2.483	ppbv	99
58) Styrene	10.532	104	72240	2.461	ppbv	99
59) 1,1,2,2-Tetrachloroethane	10.584	83	96068	2.648	ppbv	99
60) o-Xylene	10.591	91	112784	2.560	ppbv	97
63) Isopropylbenzene	10.917	105	144402	2.580	ppbv	99
65) 4-Ethyltoluene	11.295	105	157972	2.603	ppbv	100
66) 1,3,5-Trimethylbenzene	11.339	105	129395	2.558	ppbv	99
67) 1,2,4-Trimethylbenzene	11.591	105	103011	2.170	ppbv	98
69) Benzyl chloride	11.680	91	127311	2.686	ppbv	99
70) 1,3-Dichlorobenzene	11.695	146	98305	2.489	ppbv	97
71) 1,4-Dichlorobenzene	11.740	146	94363	2.435	ppbv	99
72) sec-Butylbenzene	11.591	105	103011	1.584	ppbv#	84
73) 4-Isopropyltoluene	11.851	119	162074	2.655	ppbv	99
74) 1,2-Dichlorobenzene	11.955	146	99271	2.538	ppbv	100
75) n-Butylbenzene	12.118	91	150266	2.677	ppbv	98
76) 1,2,4-Trichlorobenzene	13.104	180	87927	2.734	ppbv	98
78) Hexachlorobutadiene	13.415	225	84959	2.650	ppbv	99
80] Dichlorodifluoromethan...	3.625	85	237012	2.435	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.889	85	132574	2.317	ppbv	99
82] Vinyl Chloride(sim)	4.000	62	54951	2.351	ppbv	100
83] Bromomethane(sim)	4.380	94	49238	1.961	ppbv	98
84] Trichlorofluoromethane...	5.176	101	215285	2.438	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	63211	2.394	ppbv	98
86] 1,1,1-Trichloroethane(...	7.569	97	113270	2.411	ppbv#	99
87] Carbon Tetrachloride(sim)	7.861	117	92394	2.446	ppbv	98
88] 1,1-Dichloroethene(sim)	5.658	61	142324	2.421	ppbv	99
89] Carbon Disulfide(sim)	5.964	76	181418	2.424	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	159737	2.384	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	90779	2.355	ppbv	98
92] 1,1-Dichloroethane(sim)	6.468	63	129100	2.365	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	68483	2.256	ppbv	99
94] Chloroform(sim)	7.069	83	128848	2.403	ppbv	100
95] Benzene(sim)	7.785	78	94257	2.132	ppbv	98
97] 1,2-dichloropropane(sim)	8.164	63	32162	2.255	ppbv	98
98] Bromodichloromethane(sim)	10.587	83	114797	2.640	ppbv	100
99] Trichloroethene(sim)	8.270	130	41793	2.093	ppbv	99
100] 1,4-Dioxane(sim)	8.258	88	20379	2.097	ppbv	99
101] cis-1,3-Dichloropropen...	8.648	75	49245	2.376	ppbv	98
102] 1,1,2-Trichloroethane(...	8.979	97	45254	2.471	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	80013	2.628	ppbv	100
104] 1,2-Dibromoethane(EDB)...	9.458	107	88308	2.661	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	60583	2.527	ppbv	99
107] Bromoform(sim)	10.399	173	83783	2.529	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	12176	2.139	ppbv	99
109] Chlorobenzene(sim)	10.043	112	89835	2.352	ppbv#	96
110] Ethylbenzene(sim)	10.231	91	150020	2.332	ppbv	100
111] m, p-Xylene(sim)	10.325	91	205890	4.371	ppbv	99
112] Styrene(sim)	10.528	104	79720	2.477	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_11.D
 Acq On : 19 Feb 2016 11:28 pm
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:30:44 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:18:35 2016
 Response via : Initial Calibration

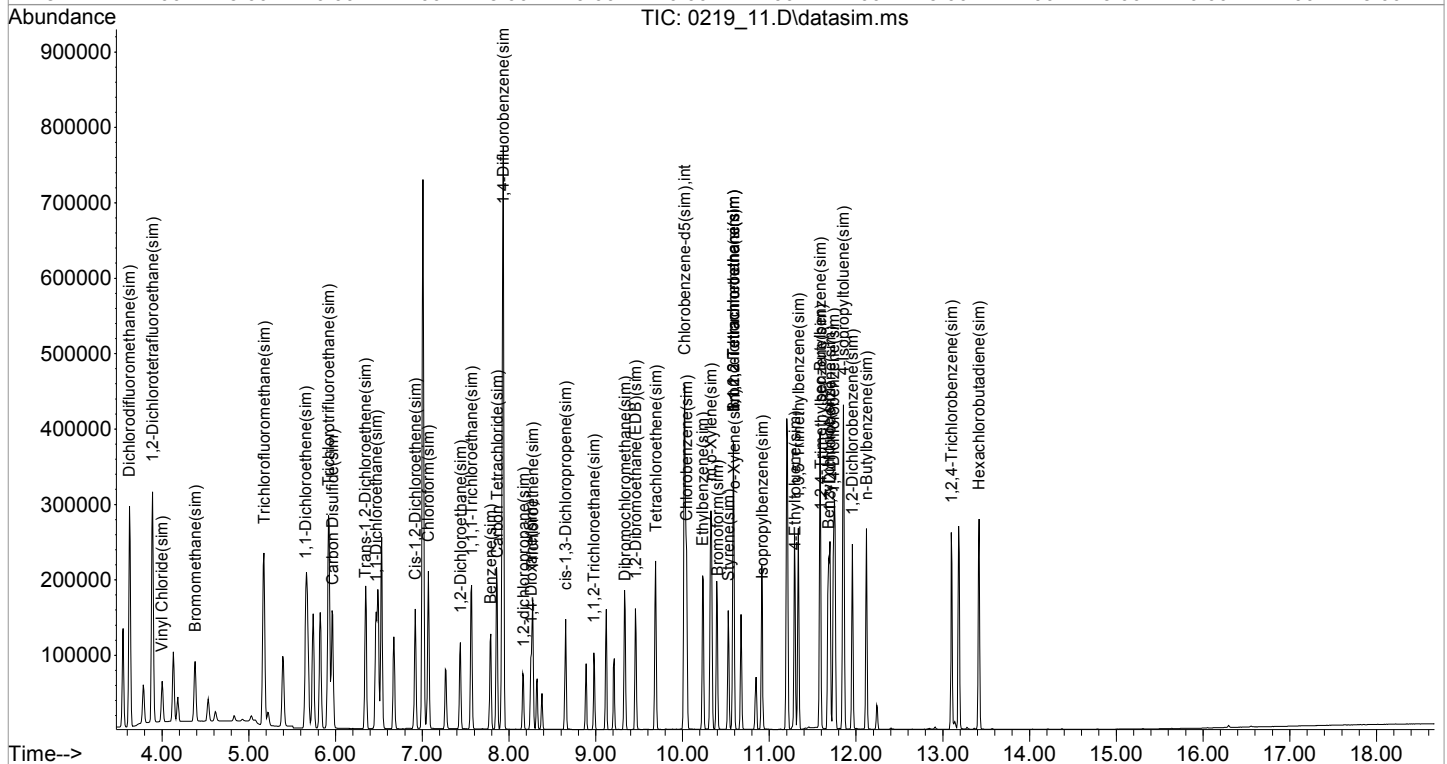
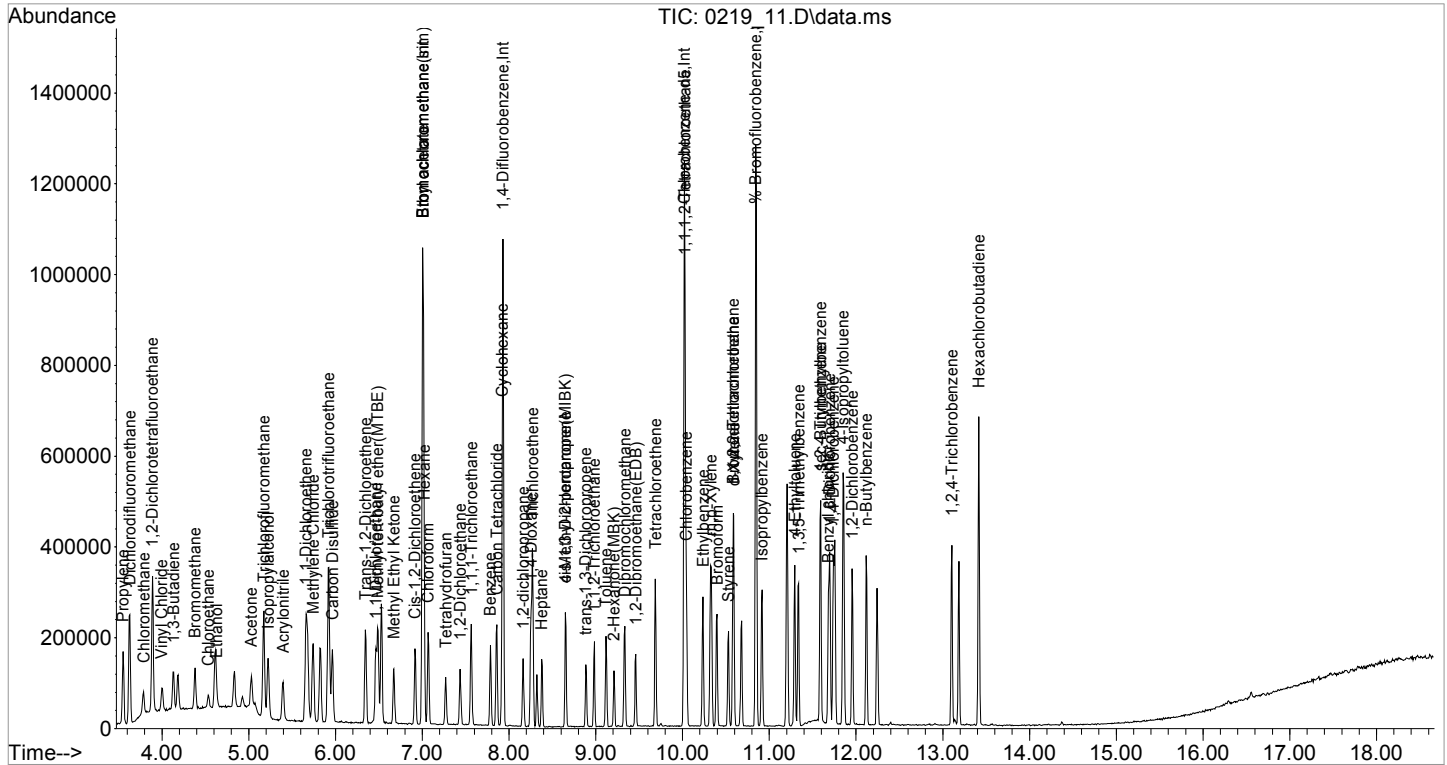
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113]	1,1,2,2-Tetrachloroeth...	10.584	83	96068	2.386	ppbv	100
114]	o-Xylene(sim)	10.594	91	122710	2.343	ppbv	100
115]	Isopropylbenzene(sim)	10.917	105	144402	2.335	ppbv	99
117]	4-Ethyltoluene(sim)	11.295	105	157972	2.347	ppbv	100
118]	1,3,5-Trimethylbenzene...	11.335	105	139738	2.398	ppbv	99
119]	1,2,4-Trimethylbenzene...	11.591	105	103011	1.975	ppbv	98
121]	Benzyl chloride(sim)	11.683	91	136383m	3.248	ppbv	
122]	1,3-Dichlorobenzene(sim)	11.698	146	126911	2.229	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.740	146	94363	2.031	ppbv	99
124]	sec-Butylbenzene(sim)	11.587	105	107095	1.339	ppbv	86
125]	4-Isopropyltoluene(sim)	11.851	119	162074	2.260	ppbv	99
126]	1,2-Dichlorobenzene(sim)	11.958	146	124928	2.223	ppbv	100
127]	n-Butylbenzene(sim)	12.118	91	150266	2.399	ppbv	98
128]	1,2,4-Trichlorobenzene...	13.099	180	117661	2.821	ppbv	100
130]	Hexachlorobutadiene(sim)	13.418	225	115626	2.357	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_11.D
Acq On : 19 Feb 2016 11:28 pm
Operator : CORTEX\yms
Client ID : ICAL 2.5
Lab ID : 2.5ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:30:44 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:18:35 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_12.D
 Acq On : 20 Feb 2016 12:03 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:03:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 09:59:22 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	178577	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	475831	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	219189	10.000	ng	0.03
79) Bromochloromethane(sim)	7.006	130	178577	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	555549	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	231723	10.000	ng	0.03

System Monitoring Compounds						
61) % Bromofluorobenzene	10.850	95	291075	10.056	ppbv	0.07
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.60%		

Target Compounds						Qvalue
2) Propylene	3.543	41	145339	5.239	ppbv	99
3) Dichlorodifluoromethane	3.622	85	409621	5.390	ppbv	100
4) Chloromethane	3.781	52	30296	4.888	ppbv	99
5) 1,2-Dichlorotetrafluor...	3.882	85	285819	5.408	ppbv	99
6) Vinyl Chloride	3.997	62	98081	5.210	ppbv	99
7) 1,3-Butadiene	4.127	54	70339	5.123	ppbv	98
8) Bromomethane	4.372	94	103817	5.030	ppbv	99
9) Chloroethane	4.531	64	44628	5.105	ppbv	98
10) Ethanol	4.632	45	30923	5.100	ppbv	98
11) Acetone	5.029	43	158432	4.973	ppbv	99
12) Trichlorofluoromethane	5.166	101	359898	5.357	ppbv	99
13) Isopropylalcohol	5.223	45	301148	5.181	ppbv	99
14) Acrylonitrile	5.396	53	124911	5.239	ppbv	100
15) 1,1-Dichloroethene	5.655	61	249956	5.356	ppbv	100
16) Methylene Chloride	5.738	49	200003	5.331	ppbv	100
19) Carbon Disulfide	5.958	76	385841	5.352	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	266620	5.344	ppbv	99
21) Trans-1,2-Dichloroethene	6.345	61	191415	5.403	ppbv	99
22) 1,1-Dichloroethane	6.465	63	233434	5.421	ppbv	100
23) Methyl tert-butyl ethe...	6.486	73	297388	5.338	ppbv	99
24) Methyl Ethyl Ketone	6.668	43	232919	5.357	ppbv	100
25) Cis-1,2-Dichloroethene	6.915	61	148420	5.362	ppbv	98
26) Hexane	7.021	57	124993	5.471	ppbv	99
27) Chloroform	7.066	83	225591	5.363	ppbv	99
28) Ethyl acetate	7.006	43	302174	5.266	ppbv	100
29) Tetrahydrofuran	7.271	42	87648	5.316	ppbv	98
30) 1,2-Dichloroethane	7.437	62	136932	5.504	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	197898	5.374	ppbv	99
32) Benzene	7.785	78	201991	5.303	ppbv	99
33) Carbon Tetrachloride	7.861	117	195398	5.469	ppbv	99
34) Cyclohexane	7.922	41	49694	1.972	ppbv#	46
36) 1,2-dichloropropane	8.164	63	68031	5.286	ppbv	97
37) Bromodichloromethane	10.584	83	200367	5.625	ppbv	99
38) Trichloroethene	8.270	130	89599m	0.455	ppbv	
40) 1,4-Dioxane	8.255	88	41560	5.527	ppbv	98
42) Heptane	8.376	43	80159	5.188	ppbv	98
43) cis-1,3-Dichloropropene	8.656	75	120892	5.686	ppbv	94
44) 4-Methyl-2-pentanone(M...	8.648	43	133665	5.623	ppbv	97
45) trans-1,3-Dichloropropene	8.885	75	98680	5.379	ppbv	100
46) 1,1,2-Trichloroethane	8.983	97	78908	5.342	ppbv	99
47) Toluene	9.117	91	192039	5.366	ppbv	100
48) Dibromochloromethane	9.335	129	174881	5.431	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_12.D
 Acq On : 20 Feb 2016 12:03 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:03:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 09:59:22 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	111572	5.536	ppbv	98
50) 1,2-Dibromoethane(EDB)	9.462	107	156219	5.569	ppbv	99
51) Tetrachloroethene	9.687	166	130413	5.438	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.036	131	110234	5.419	ppbv	99
54) Chlorobenzene	10.043	112	185194	5.421	ppbv	98
55) Ethylbenzene	10.236	91	293847	5.477	ppbv	100
56) m, p-Xylene	10.332	91	458025	11.398	ppbv	100
57) Bromoform	10.399	173	189664	5.718	ppbv	98
58) Styrene	10.532	104	161266	5.606	ppbv	99
59) 1,1,2,2-Tetrachloroethane	10.584	83	200367	5.582	ppbv	99
60) o-Xylene	10.591	91	235462	5.426	ppbv	99
63) Isopropylbenzene	10.917	105	302456	5.482	ppbv	98
65) 4-Ethyltoluene	11.295	105	331853m	5.537	ppbv	
66) 1,3,5-Trimethylbenzene	11.339	105	278362m	5.612	ppbv	
67) 1,2,4-Trimethylbenzene	11.592	105	247370m	5.432	ppbv	
69) Benzyl chloride	11.680	91	272103	5.792	ppbv	99
70) 1,3-Dichlorobenzene	11.695	146	216938	5.596	ppbv	99
71) 1,4-Dichlorobenzene	11.740	146	209212m	5.516	ppbv	
72) sec-Butylbenzene	11.755	105	367823m	7.213	ppbv	
73) 4-Isopropyltoluene	11.851	119	327295	5.417	ppbv	98
74) 1,2-Dichlorobenzene	11.955	146	211005	5.483	ppbv	99
75) n-Butylbenzene	12.118	91	301576	5.420	ppbv	99
76) 1,2,4-Trichlorobenzene	13.104	180	175797m	5.502	ppbv	
78) Hexachlorobutadiene	13.415	225	168056m	5.295	ppbv	
80] Dichlorodifluoromethan...	3.618	85	506417	5.370	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.882	85	285819	5.193	ppbv	99
82] Vinyl Chloride(sim)	3.993	62	116763	5.185	ppbv	100
83] Bromomethane(sim)	4.372	94	103817	4.417	ppbv	99
84] Trichlorofluoromethane...	5.169	101	458571	5.358	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	136932	5.362	ppbv	99
86] 1,1,1-Trichloroethane(...	7.569	97	243163	5.348	ppbv#	100
87] Carbon Tetrachloride(sim)	7.861	117	195398	5.335	ppbv	99
88] 1,1-Dichloroethene(sim)	5.658	61	304895	5.357	ppbv	100
89] Carbon Disulfide(sim)	5.958	76	385841	5.322	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	340892	5.264	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	191415	5.145	ppbv	99
92] 1,1-Dichloroethane(sim)	6.468	63	275136	5.220	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	148420	5.115	ppbv	98
94] Chloroform(sim)	7.069	83	273825	5.278	ppbv	100
95] Benzene(sim)	7.785	78	201991	4.868	ppbv	99
97] 1,2-dichloropropane(sim)	8.164	63	68031	4.465	ppbv	94
98] Bromodichloromethane(sim)	10.587	83	243245	5.774	ppbv	100
99] Trichloroethene(sim)	8.273	130	116590m	0.076	ppbv	
100] 1,4-Dioxane(sim)	8.258	88	45706	4.801	ppbv	97
101] cis-1,3-Dichloropropen...	8.656	75	120892	5.705	ppbv#	90
102] 1,1,2-Trichloroethane(...	8.979	97	96615	5.536	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	174881	4.884	ppbv	99
104] 1,2-Dibromoethane(EDB)...	9.458	107	190528	5.943	ppbv	98
105] Tetrachloroethene(sim)	9.687	166	130413	4.274	ppbv	99
107] Bromoform(sim)	10.399	173	189585	5.178	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	25981	5.055	ppbv	97
109] Chlorobenzene(sim)	10.043	112	185194	4.542	ppbv#	95
110] Ethylbenzene(sim)	10.239	91	324136	5.265	ppbv	99
111] m, p-Xylene(sim)	10.332	91	458266	9.550	ppbv	99
112] Styrene(sim)	10.528	104	176490	5.688	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_12.D
 Acq On : 20 Feb 2016 12:03 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0ppb
 ALS Vial : 1 Sample Multiplier: 1

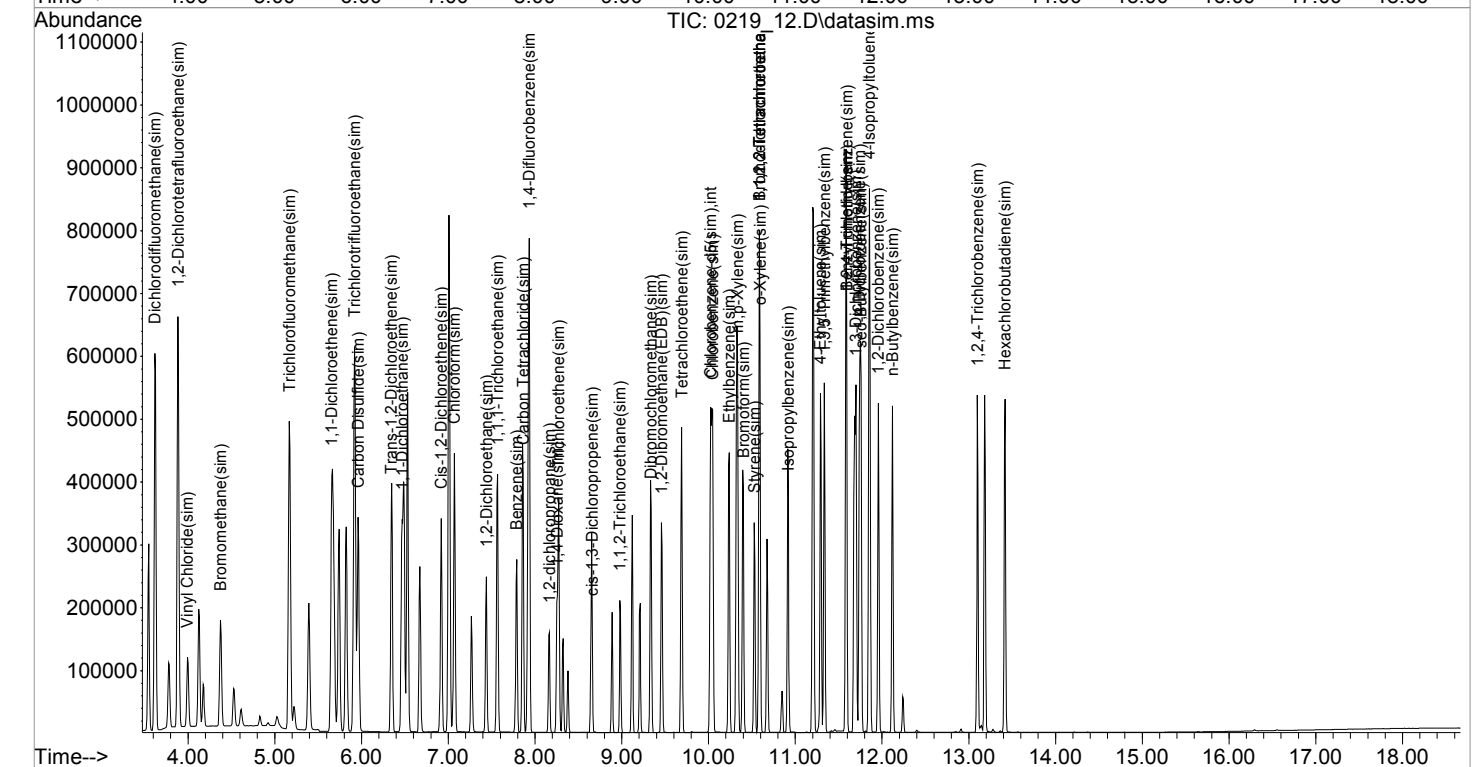
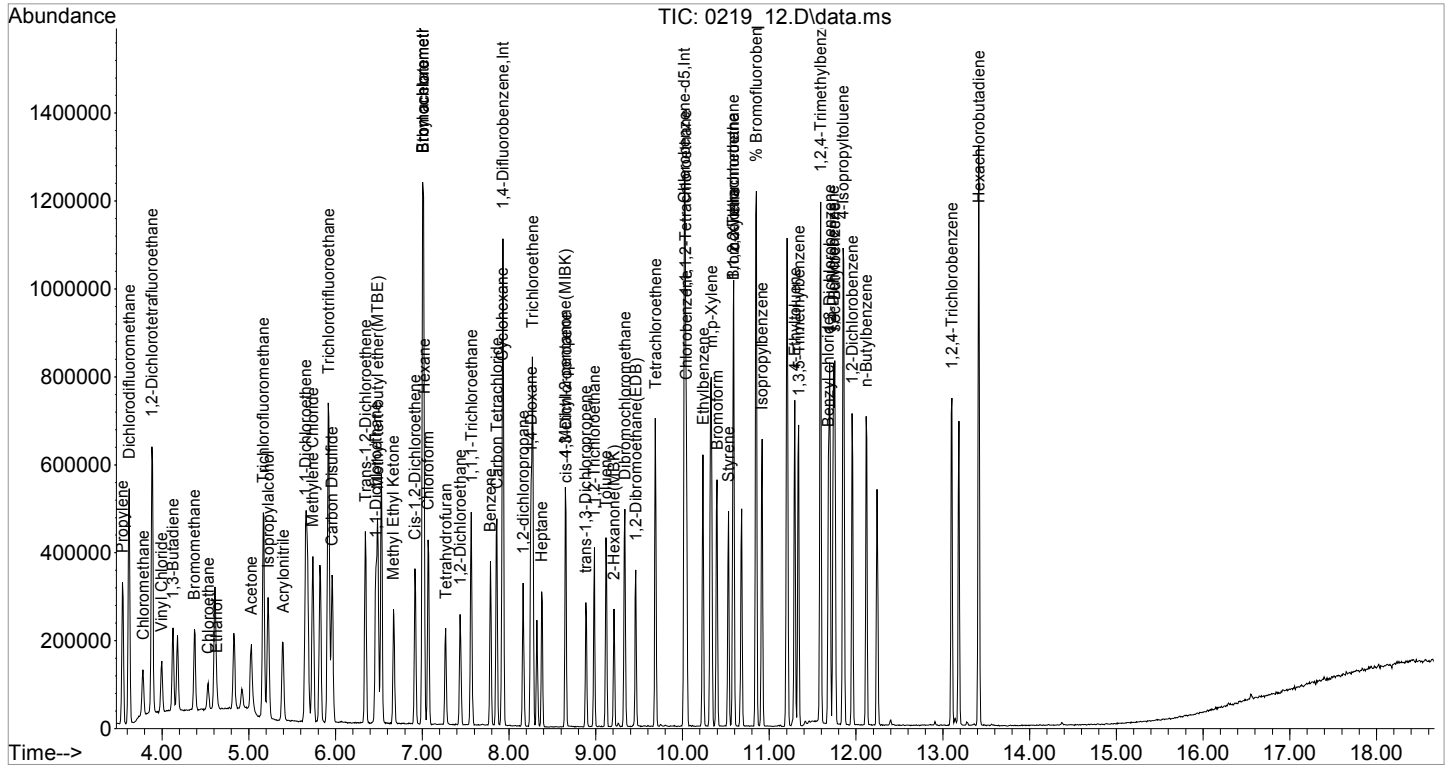
Quant Time: Feb 22 10:03:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 09:59:22 2016
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113]	1,1,2,2-Tetrachloroeth...	10.584	83	200367	4.752	ppbv	99
114]	o-Xylene(sim)	10.594	91	259063	5.153	ppbv	97
115]	Isopropylbenzene(sim)	10.917	105	302456	4.751	ppbv	99
117]	4-Ethyltoluene(sim)	11.290	105	355506m	5.412	ppbv	
118]	1,3,5-Trimethylbenzene...	11.335	105	296708m	5.307	ppbv	
119]	1,2,4-Trimethylbenzene...	11.592	105	247388	4.770	ppbv	99
121]	Benzyl chloride(sim)	11.592	91	179327	3.590	ppbv#	69
122]	1,3-Dichlorobenzene(sim)	11.698	146	274175	5.340	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.743	146	265306m	5.871	ppbv	
124]	sec-Butylbenzene(sim)	11.758	105	397990m	7.194	ppbv	
125]	4-Isopropyltoluene(sim)	11.851	119	327346	4.583	ppbv	98
126]	1,2-Dichlorobenzene(sim)	11.958	146	267255	5.228	ppbv	99
127]	n-Butylbenzene(sim)	12.118	91	302162	4.712	ppbv	97
128]	1,2,4-Trichlorobenzene...	13.100	180	235196	6.103	ppbv	99
130]	Hexachlorobutadiene(sim)	13.418	225	225737	5.203	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_12.D
 Acq On : 20 Feb 2016 12:03 am
 Operator : CORTEX\jms
 Client ID : ICAL 5
 Lab ID : 5.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:03:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 09:59:22 2016
 Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_13.D
 Acq On : 20 Feb 2016 12:38 am
 Operator : CORTEX\ms
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:04:55 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:03:50 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	175077	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	461474	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	220022	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	175077	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	545153	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.025	82	237244	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	295525	10.114	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.10%		

Target Compounds					Qvalue
2) Propylene	3.544	41	281994	9.895	ppbv 99
3) Dichlorodifluoromethane	3.616	85	784029	9.761	ppbv 100
4) Chloromethane	3.782	52	56138	9.450	ppbv 99
5) 1,2-Dichlorotetrafluor...	3.882	85	533100	9.512	ppbv 99
6) Vinyl Chloride	3.991	62	184718	9.605	ppbv 99
7) 1,3-Butadiene	4.128	54	136419	9.891	ppbv 98
8) Bromomethane	4.373	94	199646	9.808	ppbv 99
9) Chloroethane	4.524	64	85908	9.817	ppbv 98
10) Ethanol	4.632	45	54461	8.982	ppbv 98
11) Acetone	5.022	43	270728	8.715	ppbv 99
12) Trichlorofluoromethane	5.166	101	696046	9.863	ppbv 99
13) Isopropylalcohol	5.224	45	566504	9.594	ppbv 99
14) Acrylonitrile	5.397	53	234835	9.588	ppbv 100
15) 1,1-Dichloroethene	5.655	61	473122	9.653	ppbv 100
16) Methylene Chloride	5.738	49	381557	9.729	ppbv 100
19) Carbon Disulfide	5.959	76	740578	9.789	ppbv 100
20) Trichlorotrifluoroethane	5.917	101	512777	9.808	ppbv 99
21) Trans-1,2-Dichloroethene	6.345	61	359065	9.567	ppbv 99
22) 1,1-Dichloroethane	6.465	63	438065	9.571	ppbv 100
23) Methyl tert-butyl ethe...	6.486	73	562671	9.649	ppbv 99
24) Methyl Ethyl Ketone	6.674	43	441933	9.676	ppbv 100
25) Cis-1,2-Dichloroethene	6.915	61	276734	9.509	ppbv 98
26) Hexane	7.021	57	231575	9.449	ppbv 99
27) Chloroform	7.074	83	428432	9.686	ppbv 99
28) Ethyl acetate	7.006	43	565841	9.550	ppbv 99
29) Tetrahydrofuran	7.271	42	164042	9.545	ppbv 98
30) 1,2-Dichloroethane	7.438	62	253379	9.437	ppbv 99
31) 1,1,1-Trichloroethane	7.566	97	376579	9.705	ppbv 99
32) Benzene	7.786	78	379015	9.570	ppbv 99
33) Carbon Tetrachloride	7.862	117	369055	9.632	ppbv 99
34) Cyclohexane	7.922	41	94963	9.746	ppbv 94
36) 1,2-dichloropropane	8.164	63	128688	9.752	ppbv 97
37) Bromodichloromethane	10.584	83	369794	9.515	ppbv 99
38) Trichloroethene	8.270	130	167282	9.625	ppbv# 36
40) 1,4-Dioxane	8.255	88	76074	9.437	ppbv 98
42) Heptane	8.376	43	148709	9.564	ppbv 98
43) cis-1,3-Dichloropropene	8.656	75	227960	9.722	ppbv 94
44) 4-Methyl-2-pentanone(M...	8.649	43	237620	9.165	ppbv 96
45) trans-1,3-Dichloropropene	8.885	75	194005	10.136	ppbv 100
46) 1,1,2-Trichloroethane	8.984	97	150288	9.819	ppbv 98
47) Toluene	9.118	91	362225	9.724	ppbv 100
48) Dibromochloromethane	9.336	129	343852	10.137	ppbv 99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_13.D
 Acq On : 20 Feb 2016 12:38 am
 Operator : CORTEX\ms
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:04:55 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:03:50 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	212873	9.837	ppbv	98
50) 1,2-Dibromoethane(EDB)	9.462	107	295495	9.752	ppbv	99
51) Tetrachloroethene	9.688	166	248790	9.835	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.036	131	208344	9.414	ppbv	99
54) Chlorobenzene	10.044	112	354724	9.541	ppbv	98
55) Ethylbenzene	10.236	91	557598	9.452	ppbv	100
56) m, p-Xylene	10.333	91	872480	18.977	ppbv	100
57) Bromoform	10.399	173	373456	9.808	ppbv	99
58) Styrene	10.532	104	319781	9.877	ppbv	99
59) 1,1,2,2-Tetrachloroethane	10.584	83	369794	9.193	ppbv	99
60) o-Xylene	10.592	91	432248	9.144	ppbv	99
63) Isopropylbenzene	10.917	105	572087	9.422	ppbv	98
65) 4-Ethyltoluene	11.295	105	629170	9.444	ppbv#	88
66) 1,3,5-Trimethylbenzene	11.340	105	510577	9.136	ppbv#	83
67) 1,2,4-Trimethylbenzene	11.592	105	487055	9.807	ppbv	98
69) Benzyl chloride	11.681	91	517715	9.477	ppbv	99
70) 1,3-Dichlorobenzene	11.696	146	411968	9.459	ppbv	99
71) 1,4-Dichlorobenzene	11.740	146	408518	9.726	ppbv	96
72) sec-Butylbenzene	11.755	105	698265	9.456	ppbv#	90
73) 4-Isopropyltoluene	11.851	119	617048	9.391	ppbv	98
74) 1,2-Dichlorobenzene	11.955	146	393982	9.300	ppbv	99
75) n-Butylbenzene	12.118	91	579817	9.577	ppbv	99
76) 1,2,4-Trichlorobenzene	13.104	180	354019	10.031	ppbv	98
78) Hexachlorobutadiene	13.416	225	323486	9.588	ppbv	95
80] Dichlorodifluoromethan...	3.619	85	961747	9.685	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.882	85	533100	9.512	ppbv	99
82] Vinyl Chloride(sim)	3.994	62	220256	9.620	ppbv	100
83] Bromomethane(sim)	4.373	94	199646	9.808	ppbv	99
84] Trichlorofluoromethane...	5.169	101	875578	9.738	ppbv	100
85] 1,2-Dichloroethane(sim)	7.438	62	253379	9.437	ppbv	99
86] 1,1,1-Trichloroethane(...	7.569	97	460597	9.660	ppbv#	100
87] Carbon Tetrachloride(sim)	7.862	117	369055	9.632	ppbv	99
88] 1,1-Dichloroethene(sim)	5.658	61	580847	9.716	ppbv	100
89] Carbon Disulfide(sim)	5.959	76	740578	9.789	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	646830	9.677	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	359065	9.567	ppbv	99
92] 1,1-Dichloroethane(sim)	6.468	63	519128	9.623	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	276734	9.509	ppbv	98
94] Chloroform(sim)	7.070	83	518201	9.651	ppbv	100
95] Benzene(sim)	7.786	78	379015	9.570	ppbv	99
97] 1,2-dichloropropane(sim)	8.164	63	128688	9.638	ppbv	97
98] Bromodichloromethane(sim)	10.587	83	448385	9.392	ppbv	100
99] Trichloroethene(sim)	8.270	130	167282	7.311	ppbv#	1
102] 1,1,2-Trichloroethane(...	8.987	97	184070	9.708	ppbv	100
103] Dibromochloromethane(sim)	9.336	129	343852	10.019	ppbv	100
104] 1,2-Dibromoethane(EDB)...	9.458	107	364412	9.746	ppbv	100
105] Tetrachloroethene(sim)	9.688	166	248790	9.720	ppbv	99
107] Bromoform(sim)	10.399	173	373456	9.620	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	48341	9.087	ppbv	100
109] Chlorobenzene(sim)	10.044	112	354724	9.354	ppbv#	98
110] Ethylbenzene(sim)	10.239	91	610074	9.192	ppbv	100
111] m, p-Xylene(sim)	10.333	91	872480	18.596	ppbv	100
112] Styrene(sim)	10.528	104	348589	9.646	ppbv	100
114] o-Xylene(sim)	10.595	91	473452	8.925	ppbv	100
115] Isopropylbenzene(sim)	10.917	105	572087	9.237	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_13.D
 Acq On : 20 Feb 2016 12:38 am
 Operator : CORTEX\ms
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

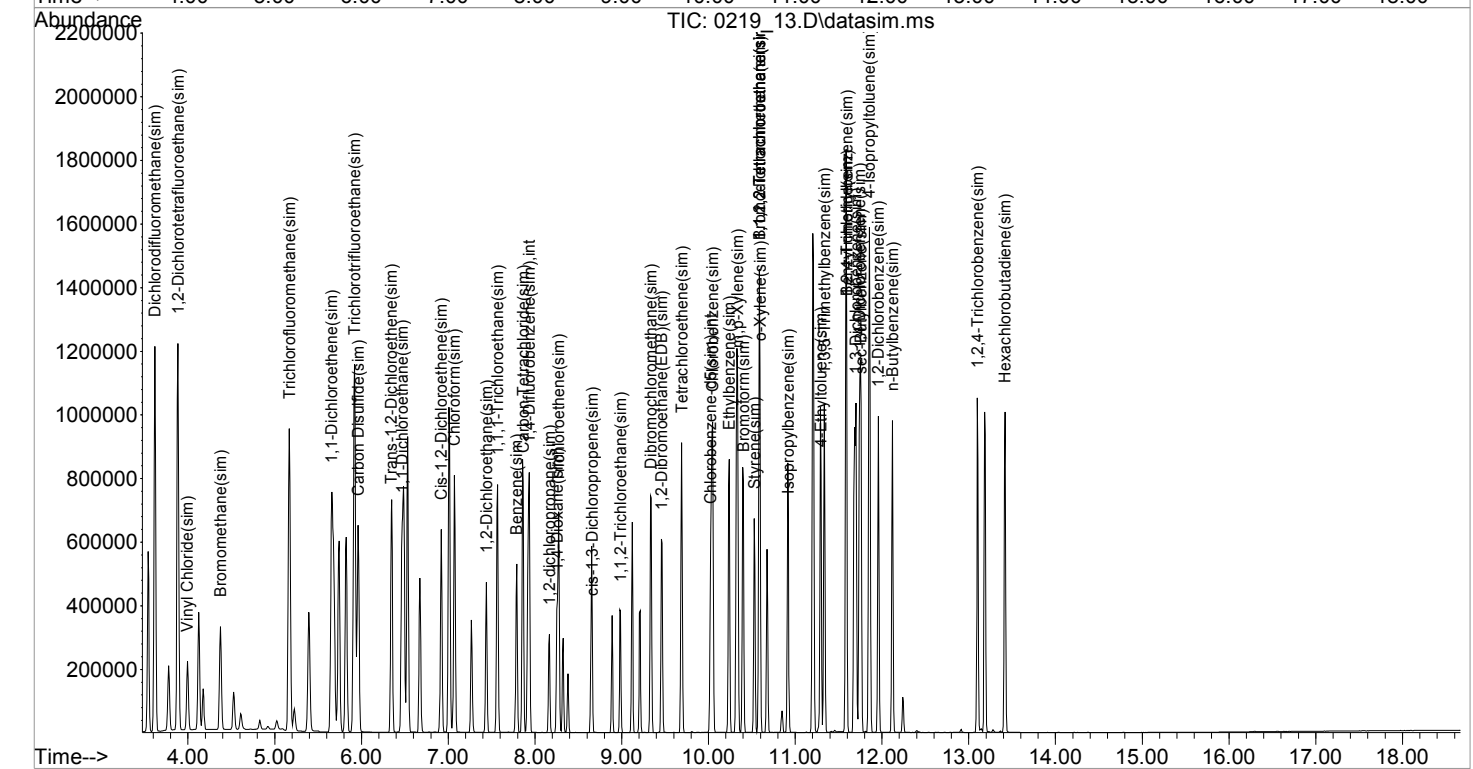
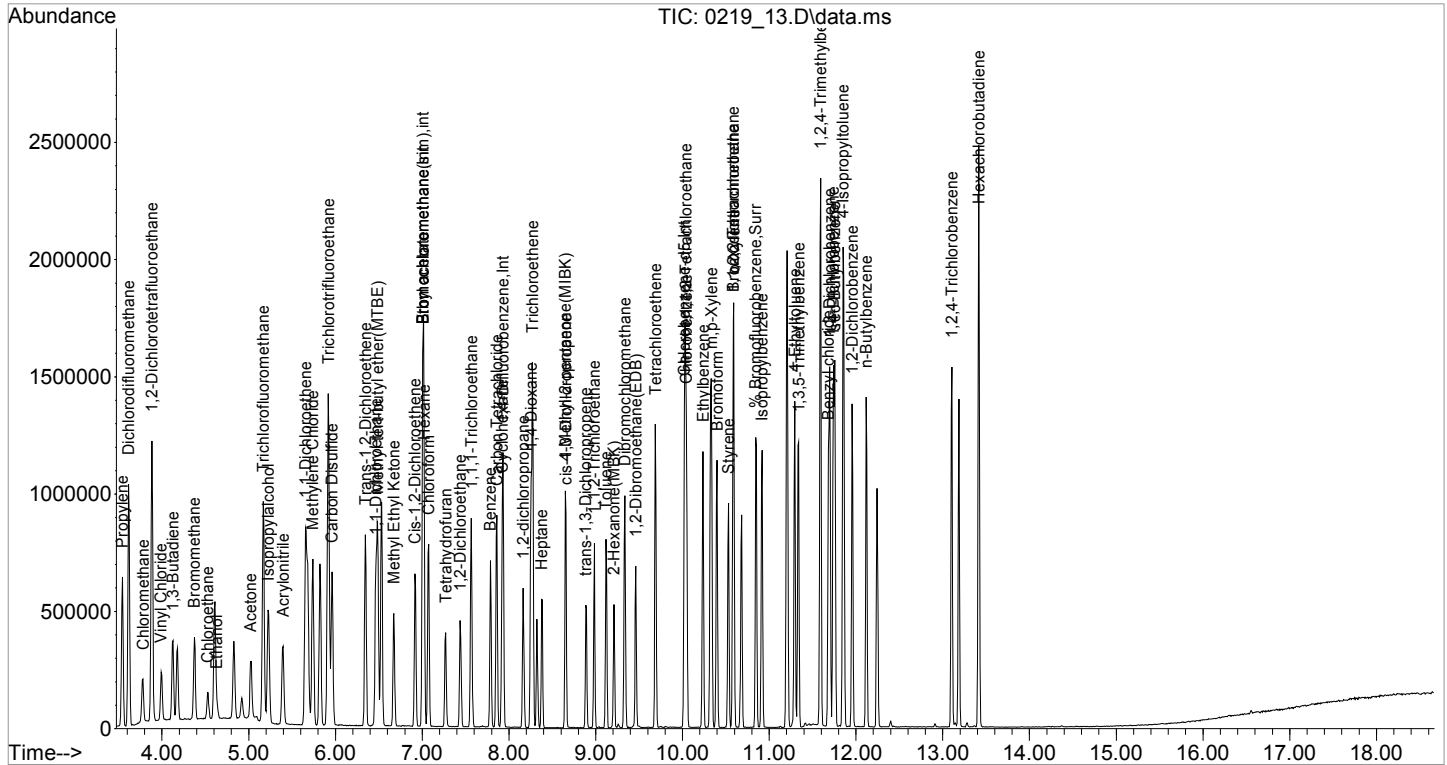
Quant Time: Feb 22 10:04:55 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:03:50 2016
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	4-Ethyltoluene(sim)	11.295	105	629170	8.643	ppbv#	85
118]	1,3,5-Trimethylbenzene...	11.335	105	553951	9.118	ppbv	84
119]	1,2,4-Trimethylbenzene...	11.592	105	487055	9.615	ppbv	99
121]	Benzyl chloride(sim)	11.592	91	353418	9.625	ppbv	99
122]	1,3-Dichlorobenzene(sim)	11.699	146	520685	9.275	ppbv	100
123]	1,4-Dichlorobenzene(sim)	11.740	146	408518	7.520	ppbv	86
124]	sec-Butylbenzene(sim)	11.758	105	744243	9.132	ppbv	100
126]	1,2-Dichlorobenzene(sim)	11.958	146	503862	9.207	ppbv	100
130]	Hexachlorobutadiene(sim)	13.419	225	424693	9.188	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_13.D
 Acq On : 20 Feb 2016 12:38 am
 Operator : CORTEX\jms
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:04:55 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:03:50 2016
 Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_14.D
 Acq On : 20 Feb 2016 01:15 am
 Operator : CORTEX\ms
 Client ID : ICAL 25
 Lab ID : 25ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:09:31 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:09:23 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.013	130	172316	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.937	114	450124	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	231678	10.000	ng	0.00
79) Bromochloromethane(sim)	7.013	130	172316	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	527345	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	248550	10.000	ng	0.00

System Monitoring Compounds

61) % Bromofluorobenzene	10.850	95	299501	9.679	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Propylene	3.543	41	671648	24.072	ppbv	99
3) Dichlorodifluoromethane	3.615	85	1816784	23.260	ppbv	100
4) Chloromethane	3.774	52	126094	22.176	ppbv	97
5) 1,2-Dichlorotetrafluor...	3.882	85	1213583	22.551	ppbv	99
6) Vinyl Chloride	3.990	62	431081	23.233	ppbv	100
7) 1,3-Butadiene	4.120	54	309883	22.953	ppbv	99
8) Bromomethane	4.372	94	468332	23.602	ppbv	100
9) Chloroethane	4.531	64	195654	22.926	ppbv	99
10) Ethanol	4.639	45	121835	21.510	ppbv	98
11) Acetone	5.029	43	641123	22.409	ppbv	99
12) Trichlorofluoromethane	5.166	101	1623201	23.531	ppbv	100
13) Isopropylalcohol	5.231	45	1286199	22.590	ppbv	99
14) Acrylonitrile	5.396	53	557875	23.629	ppbv	98
15) 1,1-Dichloroethene	5.655	61	1120588	23.640	ppbv	100
16) Methylene Chloride	5.738	49	884916	23.241	ppbv	100
19) Carbon Disulfide	5.964	76	1714465	23.270	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	1190851	23.368	ppbv	99
21) Trans-1,2-Dichloroethene	6.345	61	842992	23.325	ppbv	100
22) 1,1-Dichloroethane	6.465	63	1005808	22.816	ppbv	99
23) Methyl tert-butyl ethe...	6.486	73	1316492	23.348	ppbv	99
24) Methyl Ethyl Ketone	6.673	43	1029472	23.279	ppbv	99
25) Cis-1,2-Dichloroethene	6.923	61	657604	23.536	ppbv	100
26) Hexane	7.021	57	530191	22.602	ppbv	98
27) Chloroform	7.074	83	998212	23.294	ppbv	99
28) Ethyl acetate	7.013	43	1290359	22.636	ppbv	100
29) Tetrahydrofuran	7.271	42	385487	23.320	ppbv	99
30) 1,2-Dichloroethane	7.445	62	598437	23.302	ppbv	100
31) 1,1,1-Trichloroethane	7.566	97	874386	23.238	ppbv	99
32) Benzene	7.785	78	886915	23.252	ppbv	98
33) Carbon Tetrachloride	7.861	117	857967	23.178	ppbv	99
34) Cyclohexane	7.922	41	217578	22.979	ppbv	96
36) 1,2-dichloropropane	8.164	63	297379	23.394	ppbv	99
37) Bromodichloromethane	10.584	83	864386	23.369	ppbv	100
38) Trichloroethene	8.270	130	387247	23.280	ppbv	99
40) 1,4-Dioxane	8.255	88	172206	22.535	ppbv	96
42) Heptane	8.383	43	342509	23.087	ppbv	99
43) cis-1,3-Dichloropropene	8.656	75	520397	23.074	ppbv	99
44) 4-Methyl-2-pentanone(M...	8.648	43	569747	23.511	ppbv	97
45) trans-1,3-Dichloropropene	8.892	75	460967	24.524	ppbv	99
46) 1,1,2-Trichloroethane	8.983	97	349820	23.646	ppbv	100
47) Toluene	9.124	91	844188	23.559	ppbv	100
48) Dibromochloromethane	9.335	129	816365	24.506	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_14.D
 Acq On : 20 Feb 2016 01:15 am
 Operator : CORTEX\ms
 Client ID : ICAL 25
 Lab ID : 25ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:09:31 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:09:23 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	501764	23.966	ppbv	99
50) 1,2-Dibromoethane(EDB)	9.462	107	704315	24.129	ppbv	99
51) Tetrachloroethene	9.687	166	586316	23.960	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.036	131	502145	22.199	ppbv	98
54) Chlorobenzene	10.051	112	824817	21.564	ppbv	98
55) Ethylbenzene	10.236	91	1310482	21.691	ppbv	99
56) m, p-Xylene	10.332	91	1959013	41.528	ppbv	99
57) Bromoform	10.399	173	921418	23.204	ppbv	99
58) Styrene	10.532	104	781050	23.052	ppbv	99
59) 1,1,2,2-Tetrachloroethane	10.584	83	864386	21.265	ppbv	99
60) o-Xylene	10.591	91	1022746	21.466	ppbv	100
63) Isopropylbenzene	10.917	105	1322947	21.307	ppbv	98
65) 4-Ethyltoluene	11.295	105	1464948	21.480	ppbv	99
66) 1,3,5-Trimethylbenzene	11.339	105	1195856	21.239	ppbv	100
67) 1,2,4-Trimethylbenzene	11.591	105	1123548	21.695	ppbv	100
69) Benzyl chloride	11.680	91	1223473	21.841	ppbv	100
70) 1,3-Dichlorobenzene	11.695	146	949911	21.289	ppbv	99
71) 1,4-Dichlorobenzene	11.740	146	960638	22.022	ppbv	100
72) sec-Butylbenzene	11.755	105	1590139	21.022	ppbv	99
73) 4-Isopropyltoluene	11.851	119	1421837	21.196	ppbv	100
74) 1,2-Dichlorobenzene	11.955	146	949200	22.051	ppbv	99
75) n-Butylbenzene	12.118	91	1334616	21.387	ppbv	98
76) 1,2,4-Trichlorobenzene	13.104	180	847633	22.774	ppbv	100
78) Hexachlorobutadiene	13.415	225	753084	21.644	ppbv	99
80] Dichlorodifluoromethan...	3.618	85	2209769	22.610	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.882	85	1213583	22.001	ppbv	99
82] Vinyl Chloride(sim)	3.993	62	511585	22.703	ppbv	100
83] Bromomethane(sim)	4.372	94	468332	23.375	ppbv	100
84] Trichlorofluoromethane...	5.169	101	2040262	23.054	ppbv	100
85] 1,2-Dichloroethane(sim)	7.445	62	598437	22.646	ppbv	100
86] 1,1,1-Trichloroethane(...	7.569	97	1057718	22.539	ppbv#	100
87] Carbon Tetrachloride(sim)	7.861	117	857967	22.752	ppbv	99
88] 1,1-Dichloroethene(sim)	5.658	61	1358420	23.086	ppbv	100
89] Carbon Disulfide(sim)	5.964	76	1714465	23.024	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	1484947	22.572	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	842992	22.820	ppbv	100
92] 1,1-Dichloroethane(sim)	6.468	63	1184260	22.303	ppbv	100
93] Cis-1,2-Dichloroethene...	6.923	61	657604	22.958	ppbv	100
94] Chloroform(sim)	7.077	83	1199911	22.706	ppbv	100
95] Benzene(sim)	7.785	78	886915	22.752	ppbv	98
97] 1,2-dichloropropane(sim)	8.164	63	297379	23.025	ppbv	99
98] Bromodichloromethane(sim)	10.587	83	1037029	22.457	ppbv	100
99] Trichloroethene(sim)	8.270	130	387247	17.495	ppbv	100
102] 1,1,2-Trichloroethane(...	8.986	97	431066	23.502	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	816365	24.589	ppbv	100
104] 1,2-Dibromoethane(EDB)...	9.465	107	854472	23.623	ppbv	99
105] Tetrachloroethene(sim)	9.687	166	586316	24.017	ppbv	99
107] Bromoform(sim)	10.399	173	921418	22.656	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	114739	20.586	ppbv	99
109] Chlorobenzene(sim)	10.051	112	824817	20.761	ppbv#	98
110] Ethylbenzene(sim)	10.239	91	1415961	20.363	ppbv	99
111] m, p-Xylene(sim)	10.332	91	1959631	39.867	ppbv	100
112] Styrene(sim)	10.528	104	844368	22.302	ppbv	99
114] o-Xylene(sim)	10.594	91	1107018	19.919	ppbv	99
115] Isopropylbenzene(sim)	10.917	105	1322947	20.389	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_14.D
Acq On : 20 Feb 2016 01:15 am
Operator : CORTEX\ms
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 1 Sample Multiplier: 1

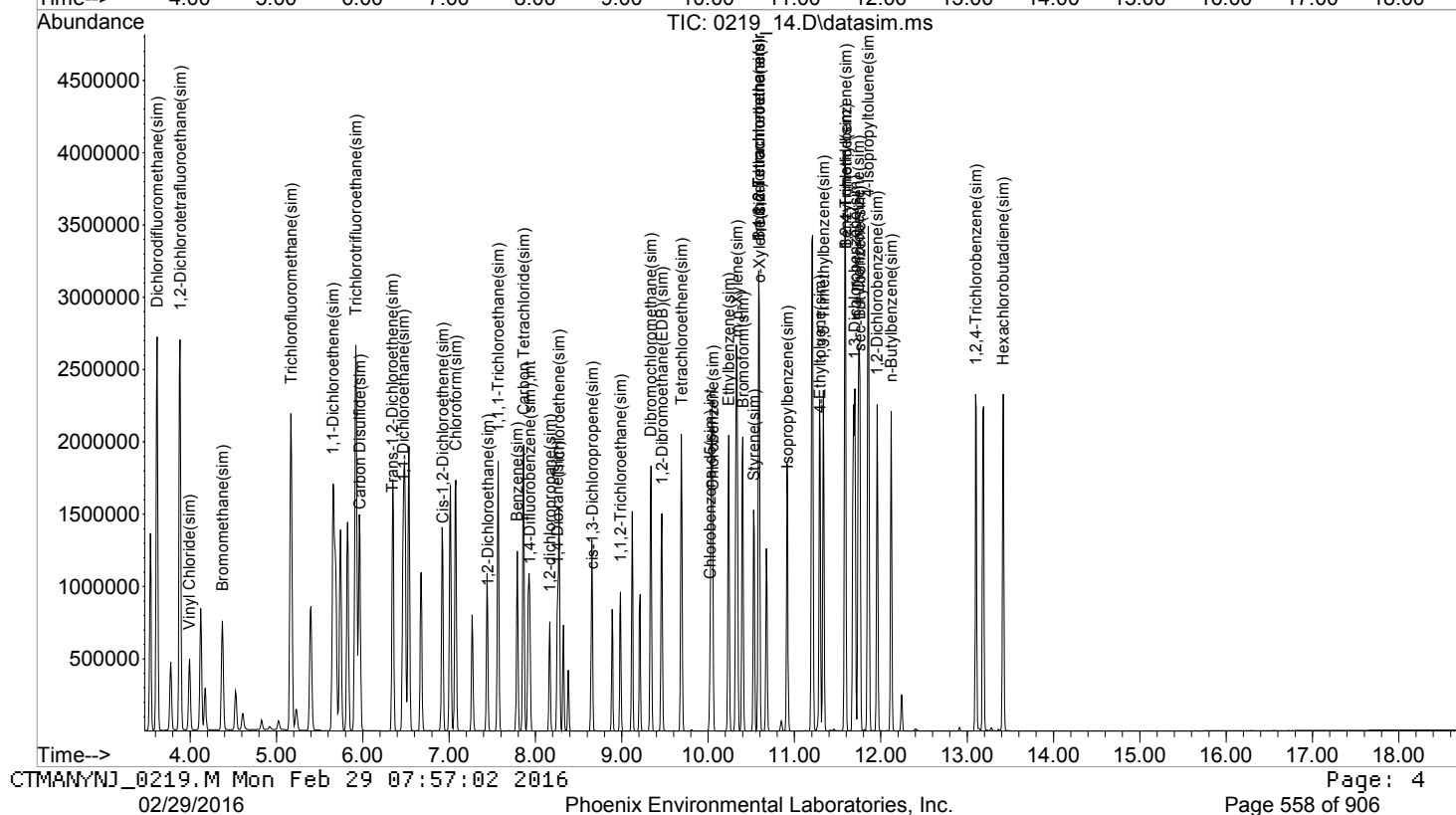
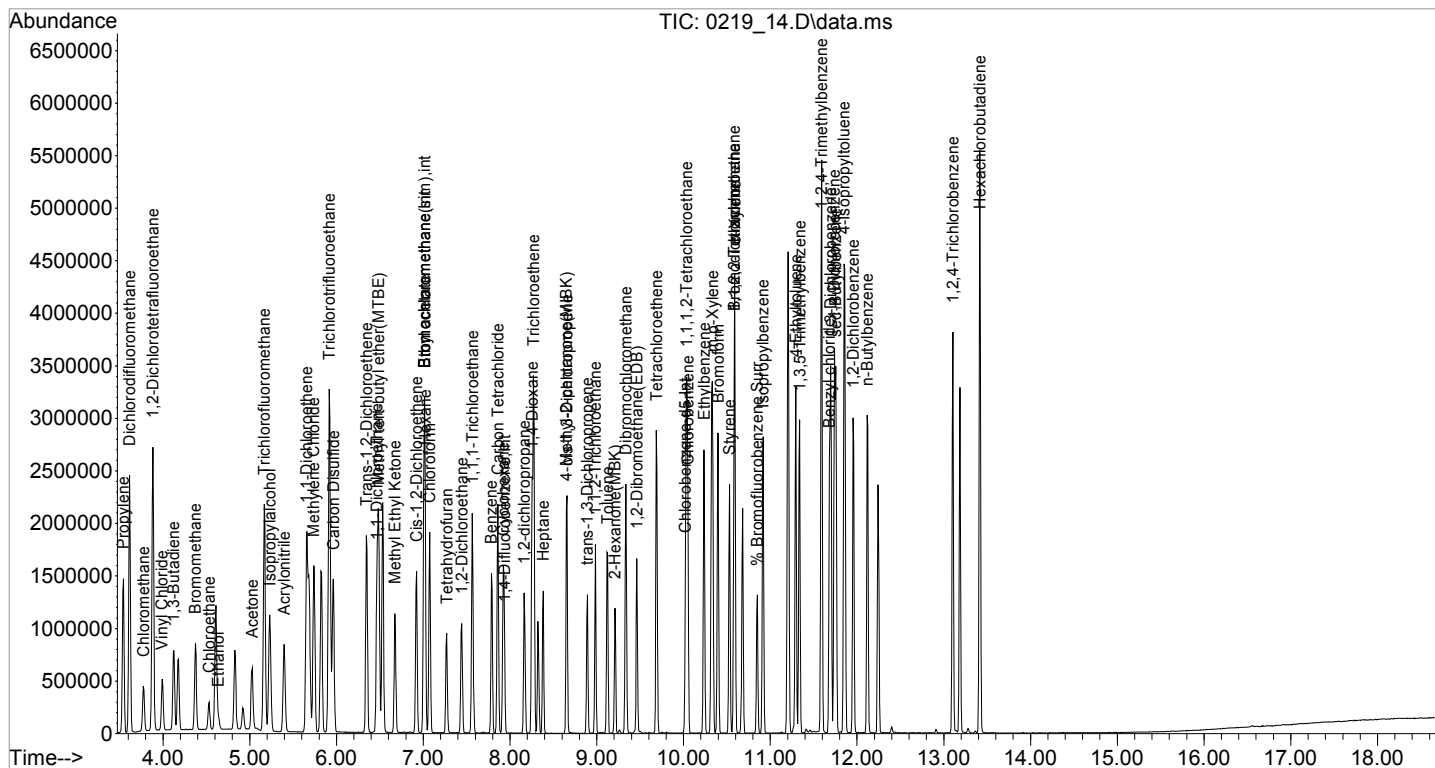
Quant Time: Feb 22 10:09:31 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:09:23 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	4-Ethyltoluene(sim)	11.295	105	1464948	19.209	ppbv	99
118]	1,3,5-Trimethylbenzene...	11.335	105	1278459	20.086	ppbv	99
119]	1,2,4-Trimethylbenzene...	11.591	105	1123548	21.171	ppbv	100
121]	Benzyl chloride(sim)	11.591	91	813847	21.155	ppbv	100
122]	1,3-Dichlorobenzene(sim)	11.698	146	1184837	20.144	ppbv	100
123]	1,4-Dichlorobenzene(sim)	11.740	146	960638	16.879	ppbv	100
124]	sec-Butylbenzene(sim)	11.758	105	1687613	19.766	ppbv	99
126]	1,2-Dichlorobenzene(sim)	11.958	146	1183872	20.649	ppbv	100
130]	Hexachlorobutadiene(sim)	13.418	225	968266	19.995	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_14.D
Acq On : 20 Feb 2016 01:15 am
Operator : CORTEX\jms
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:09:31 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:09:23 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_15.D
 Acq On : 20 Feb 2016 01:54 am
 Operator : CORTEX\ms
 Client ID : ICAL 40
 Lab ID : 40ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:09:52 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:09:44 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.013	130	169807	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.937	114	441933	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	235865	10.000	ng	0.00
79) Bromochloromethane(sim)	7.013	130	169807	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	516011	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	258129	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.850	95	296151	9.503	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	95.00%	

Target Compounds					Qvalue
2) Propylene	3.536	41	1048350	38.606	ppbv 99
3) Dichlorodifluoromethane	3.608	85	2800328	37.246	ppbv 99
4) Chloromethane	3.767	52	202804	37.610	ppbv 99
5) 1,2-Dichlorotetrafluor...	3.875	85	1857022	36.200	ppbv 98
6) Vinyl Chloride	3.983	62	664152	37.200	ppbv 100
7) 1,3-Butadiene	4.120	54	480310	37.115	ppbv 100
8) Bromomethane	4.373	94	736240	38.367	ppbv 99
9) Chloroethane	4.524	64	307405	37.593	ppbv 99
10) Ethanol	4.632	45	171035	32.138	ppbv 98
11) Acetone	5.022	43	979655	35.990	ppbv 100
12) Trichlorofluoromethane	5.166	101	2578696	38.693	ppbv 100
13) Isopropylalcohol	5.231	45	1765723	32.515	ppbv 99
14) Acrylonitrile	5.396	53	887809	38.870	ppbv 99
15) 1,1-Dichloroethene	5.655	61	1770420	38.601	ppbv 99
16) Methylene Chloride	5.738	49	1388962	37.907	ppbv 99
19) Carbon Disulfide	5.958	76	2698397	38.044	ppbv 100
20) Trichlorotrifluoroethane	5.917	101	1888242	38.436	ppbv 98
21) Trans-1,2-Dichloroethene	6.345	61	1314107	37.741	ppbv 98
22) 1,1-Dichloroethane	6.465	63	1550337	36.759	ppbv 99
23) Methyl tert-butyl ethe...	6.486	73	2043178	37.599	ppbv 98
24) Methyl Ethyl Ketone	6.673	43	1565123	36.758	ppbv 99
25) Cis-1,2-Dichloroethene	6.923	61	1008678	37.364	ppbv 99
26) Hexane	7.021	57	804438	35.950	ppbv 97
27) Chloroform	7.074	83	1534395	37.181	ppbv 99
28) Ethyl acetate	7.013	43	1915797	35.215	ppbv 99
29) Tetrahydrofuran	7.271	42	592535	37.209	ppbv 98
30) 1,2-Dichloroethane	7.445	62	912386	36.886	ppbv 100
31) 1,1,1-Trichloroethane	7.566	97	1348113	37.232	ppbv 100
32) Benzene	7.786	78	1368204	37.269	ppbv 99
33) Carbon Tetrachloride	7.861	117	1323538	37.187	ppbv 99
34) Cyclohexane	7.922	41	328136	36.142	ppbv 94
36) 1,2-dichloropropane	8.164	63	454768	37.236	ppbv 99
37) Bromodichloromethane	10.584	83	1277922	35.971	ppbv 100
38) Trichloroethene	8.270	130	582426	36.500	ppbv 98
40) 1,4-Dioxane	8.255	88	237115	32.678	ppbv 97
42) Heptane	8.384	43	514320	36.235	ppbv 97
43) cis-1,3-Dichloropropene	8.656	75	800379	37.098	ppbv 96
44) 4-Methyl-2-pentanone(M...	8.648	43	821586	35.231	ppbv 92
45) trans-1,3-Dichloropropene	8.892	75	700520	38.202	ppbv 100
46) 1,1,2-Trichloroethane	8.984	97	538661	37.767	ppbv 100
47) Toluene	9.124	91	1291659	37.435	ppbv 100
48) Dibromochloromethane	9.335	129	1233903	37.976	ppbv 99

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_15.D
 Acq On : 20 Feb 2016 01:54 am
 Operator : CORTEX\ms
 Client ID : ICAL 40
 Lab ID : 40ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:09:52 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:09:44 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	761607	37.569	ppbv	98
50) 1,2-Dibromoethane(EDB)	9.462	107	1063621	37.550	ppbv	100
51) Tetrachloroethene	9.687	166	895053	37.779	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.036	131	767232	34.608	ppbv	98
54) Chlorobenzene	10.051	112	1251518	33.681	ppbv	98
55) Ethylbenzene	10.236	91	1971351	33.530	ppbv	99
56) m, p-Xylene	10.332	91	2971577	65.578	ppbv	99
57) Bromoform	10.399	173	1416819	35.906	ppbv	99
58) Styrene	10.532	104	1194241	35.545	ppbv	98
59) 1,1,2,2-Tetrachloroethane	10.584	83	1277922	32.499	ppbv	99
60) o-Xylene	10.591	91	1499558	32.444	ppbv	99
63) Isopropylbenzene	10.917	105	2018709	33.590	ppbv	98
65) 4-Ethyltoluene	11.295	105	2208112	33.368	ppbv	99
66) 1,3,5-Trimethylbenzene	11.339	105	1803197	33.118	ppbv	99
67) 1,2,4-Trimethylbenzene	11.592	105	1652829	32.793	ppbv	99
69) Benzyl chloride	11.681	91	1854610	33.950	ppbv	99
70) 1,3-Dichlorobenzene	11.703	146	1449139	33.562	ppbv	99
71) 1,4-Dichlorobenzene	11.740	146	1471291	34.500	ppbv	99
72) sec-Butylbenzene	11.755	105	2379491	32.630	ppbv	99
73) 4-Isopropyltoluene	11.851	119	2127798	32.821	ppbv	100
74) 1,2-Dichlorobenzene	11.962	146	1460696	34.696	ppbv	99
75) n-Butylbenzene	12.125	91	2017178	33.358	ppbv	98
76) 1,2,4-Trichlorobenzene	13.104	180	1337087	36.366	ppbv	99
78) Hexachlorobutadiene	13.416	225	1116621	32.999	ppbv	100
80] Dichlorodifluoromethan...	3.611	85	3382794	35.124	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.875	85	1857022	34.164	ppbv	98
82] Vinyl Chloride(sim)	3.986	62	792465	35.687	ppbv	100
83] Bromomethane(sim)	4.373	94	736240	37.290	ppbv	99
84] Trichlorofluoromethane...	5.169	101	3199396	36.686	ppbv	99
85] 1,2-Dichloroethane(sim)	7.445	62	912386	35.036	ppbv	100
86] 1,1,1-Trichloroethane(...	7.569	97	1631479	35.280	ppbv#	99
87] Carbon Tetrachloride(sim)	7.861	117	1323538	35.617	ppbv	99
88] 1,1-Dichloroethene(sim)	5.652	61	2127170	36.685	ppbv	99
89] Carbon Disulfide(sim)	5.958	76	2698397	36.774	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	2329360	35.930	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	1314107	36.099	ppbv	98
92] 1,1-Dichloroethane(sim)	6.468	63	1824394	34.867	ppbv	99
93] Cis-1,2-Dichloroethene...	6.923	61	1008678	35.736	ppbv	99
94] Chloroform(sim)	7.077	83	1834031	35.219	ppbv	99
95] Benzene(sim)	7.786	78	1368204	35.617	ppbv	99
97] 1,2-dichloropropane(sim)	8.164	63	454768	35.985	ppbv	99
98] Bromodichloromethane(sim)	10.587	83	1520539	33.650	ppbv	99
99] Trichloroethene(sim)	8.270	130	582426	26.891	ppbv	99
102] 1,1,2-Trichloroethane(...	8.986	97	658798	36.706	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	1233903	37.981	ppbv	98
104] 1,2-Dibromoethane(EDB)...	9.465	107	1292200	36.509	ppbv	99
105] Tetrachloroethene(sim)	9.687	166	895053	37.469	ppbv	99
107] Bromoform(sim)	10.399	173	1416819	33.544	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	170197	29.403	ppbv	100
109] Chlorobenzene(sim)	10.051	112	1251518	30.333	ppbv#	98
110] Ethylbenzene(sim)	10.239	91	2133165	29.539	ppbv	99
111] m, p-Xylene(sim)	10.332	91	2972735	58.233	ppbv	99
112] Styrene(sim)	10.535	104	1288084	32.759	ppbv	99
114] o-Xylene(sim)	10.594	91	1614210	27.968	ppbv	99
115] Isopropylbenzene(sim)	10.917	105	2018709	29.958	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
 Data File : 0219_15.D
 Acq On : 20 Feb 2016 01:54 am
 Operator : CORTEX\ms
 Client ID : ICAL 40
 Lab ID : 40ppb
 ALS Vial : 1 Sample Multiplier: 1

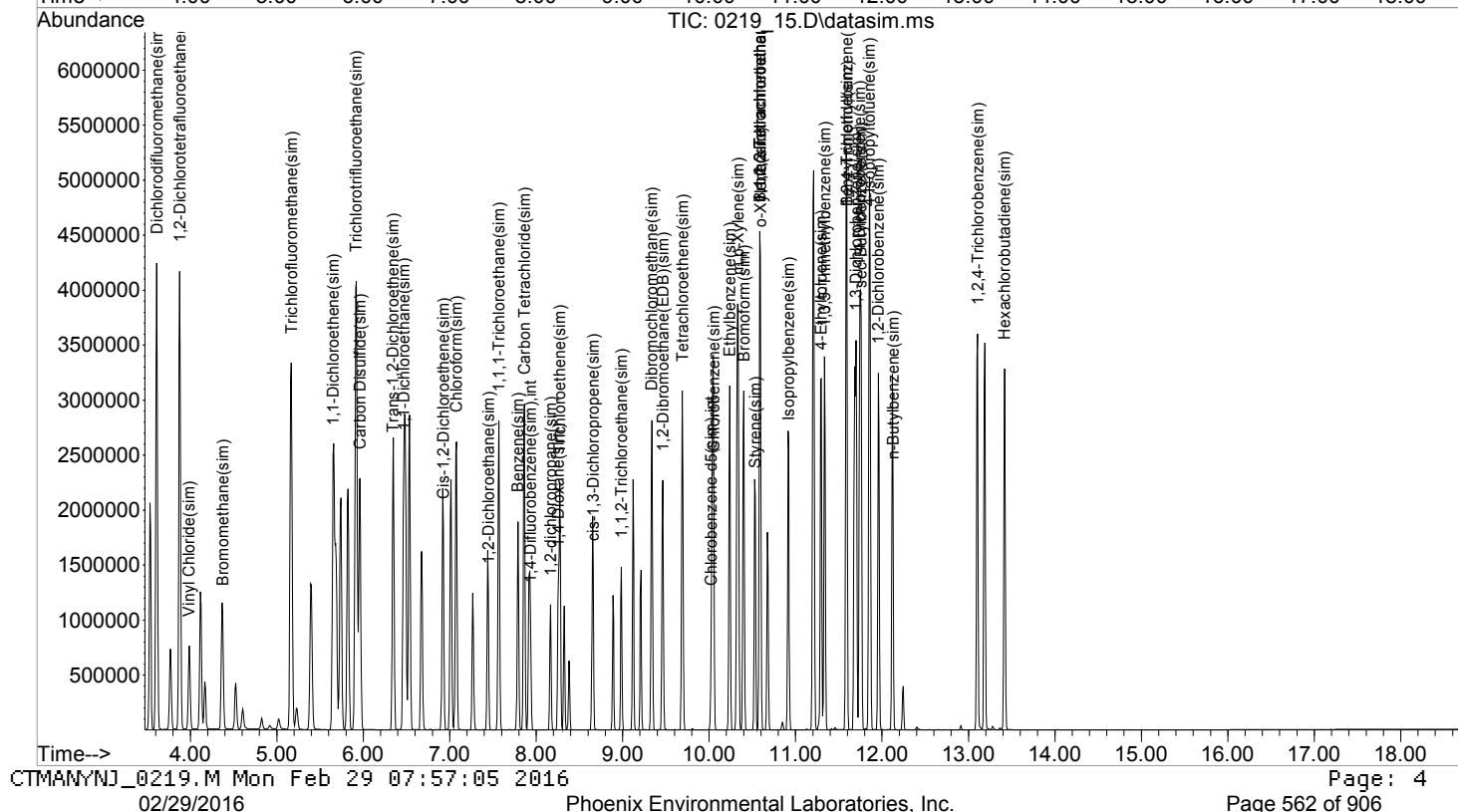
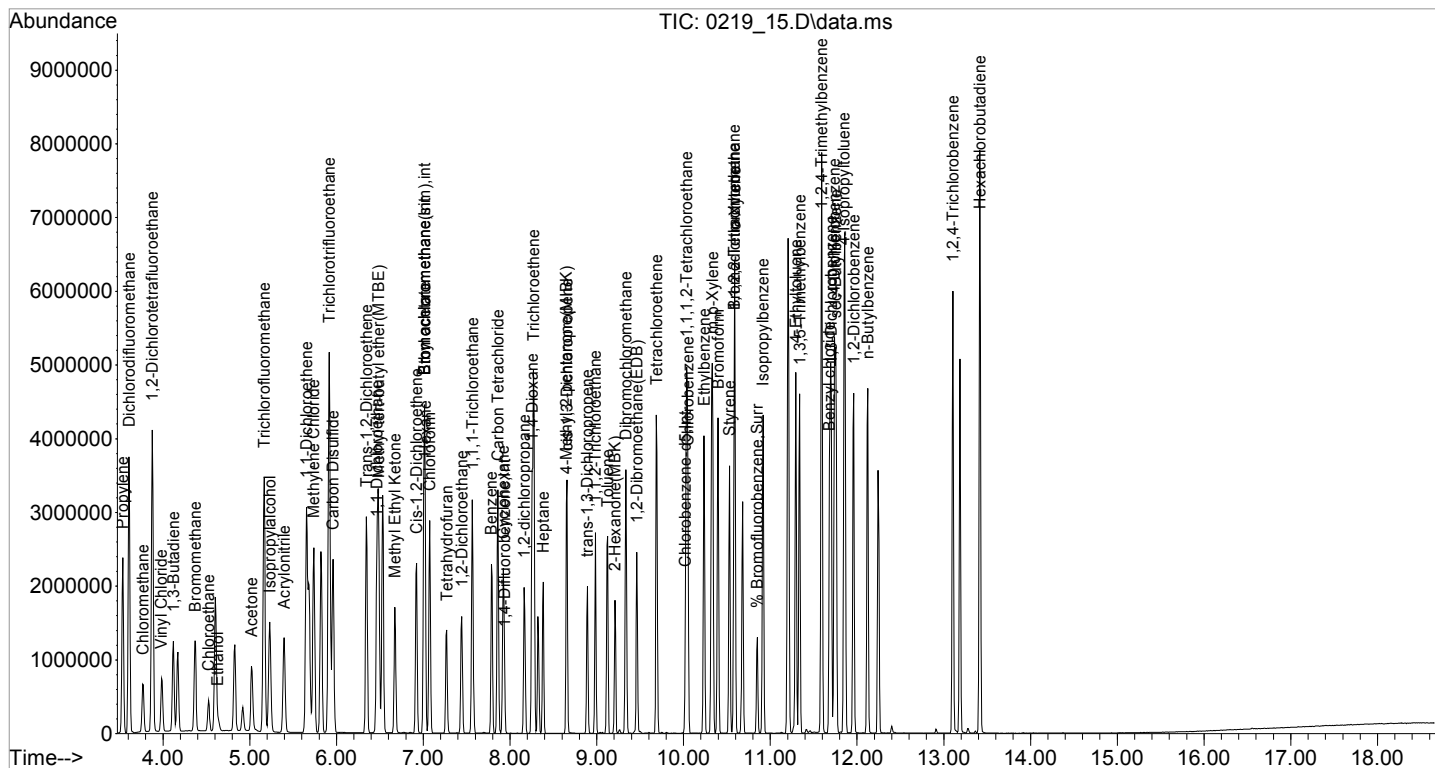
Quant Time: Feb 22 10:09:52 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:09:44 2016
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	4-Ethyltoluene(sim)	11.295	105	2208112	27.879	ppbv	99
118]	1,3,5-Trimethylbenzene...	11.335	105	1907987	28.863	ppbv	99
119]	1,2,4-Trimethylbenzene...	11.592	105	1652829	29.988	ppbv	99
121]	Benzyl chloride(sim)	11.592	91	1199389	30.020	ppbv	100
122]	1,3-Dichlorobenzene(sim)	11.698	146	1792588	29.346	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.740	146	1470951	24.886	ppbv	99
124]	sec-Butylbenzene(sim)	11.758	105	2482066	27.993	ppbv	99
126]	1,2-Dichlorobenzene(sim)	11.958	146	1801478	30.256	ppbv	99
130]	Hexachlorobutadiene(sim)	13.418	225	1404657	27.930	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\19A\
Data File : 0219_15.D
Acq On : 20 Feb 2016 01:54 am
Operator : CORTEX\jms
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:09:52 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:09:44 2016
Response via : Initial Calibration



6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM24 Calibration Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Calibration Time(s): 13:02 17:09

GC Column: zb-1ms

LAB FILE ID:

RRF0.1 = 0223_08.D RRF0.5 = 0223_10.D RRF2.5 = 0223_12.D RRF10 = 0223_14.D RRF40 = 0223_16.D
 RRF0.25 = 0223_09.D RRF1 = 0223_11.D RRF5 = 0223_13.D RRF25 = 0223_15.D

COMPOUND		RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10	RRF25	RRF40		— RRF	% RSD
Propylene			1.133	1.167	1.150	1.186	1.056	1.076	1.157	1.073		1.125	4.4
Dichlorodifluoromethane			3.560	3.715	3.720	3.775	3.681	3.592	3.540	3.081		3.583	6.1
Chloromethane			0.213	0.278	0.301	0.303	0.273	0.269	0.287	0.276		0.275	10.2
1,2-Dichlorotetrafluoroethane			2.323	2.347	2.498	2.351	2.347	2.416	2.118	1.633		2.254	12.1
Vinyl Chloride			0.813	0.798	0.846	0.869	0.823	0.822	0.850	0.796		0.827	3.1
1,3-Butadiene			0.562	0.642	0.590	0.626	0.571	0.590	0.593	0.557		0.591	5.0
Bromomethane			1.038	1.122	1.014	1.040	0.978	0.939	0.975	0.915		1.003	6.5
Chloroethane			0.291	0.365	0.369	0.392	0.362	0.356	0.361	0.344		0.355	8.2
Ethanol			0.400	0.372	0.322	0.325	0.232	0.281	0.291	0.264		0.311	17.9
Acetone			1.948	1.644	1.485	1.520	1.273	1.351	1.347	1.267		1.479	15.5
Trichlorofluoromethane			2.582	2.631	2.741	2.852	2.578	2.645	2.682	2.482		2.649	4.2
Isopropylalcohol			2.175	2.205	1.894	1.908	1.161	1.531	1.572	1.458		1.738	21.1
Acrylonitrile			0.600	0.573	0.584	0.604	0.556	0.578	0.586	0.556		0.580	3.1
1,1-Dichloroethene			1.353	1.427	1.472	1.496	1.390	1.410	1.412	1.328		1.411	4.0
Methylene Chloride			1.112	1.051	1.092	1.118	1.038	1.027	1.024	0.947		1.051	5.4
Carbon Disulfide			1.934	2.119	2.238	2.274	2.184	2.206	2.208	2.032		2.149	5.3
Trichlorotrifluoroethane			1.948	2.087	2.107	2.174	1.952	1.976	2.029	1.849		2.015	5.2
Trans-1,2-Dichloroethene			1.120	1.129	1.233	1.265	1.223	1.229	1.222	1.147		1.196	4.6
1,1-Dichloroethane			1.543	1.563	1.653	1.686	1.587	1.580	1.568	1.480		1.583	4.0
Methyl tert-butyl ether(MTBE)			2.070	2.318	2.303	2.343	2.042	2.124	2.184	2.045		2.179	5.8
Methyl Ethyl Ketone			1.843	1.705	1.733	1.811	1.509	1.694	1.715	1.588		1.700	6.4
Cis-1,2-Dichloroethene			1.140	1.136	1.213	1.223	1.183	1.185	1.214	1.123		1.177	3.3

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM24 Calibration Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Calibration Time(s): 13:02 17:09

GC Column: zb-1ms

LAB FILE ID:

RRF0.1 = 0223_08.D RRF0.5 = 0223_10.D RRF2.5 = 0223_12.D RRF10 = 0223_14.D RRF40 = 0223_16.D
 RRF0.25 = 0223_09.D RRF1 = 0223_11.D RRF5 = 0223_13.D RRF25 = 0223_15.D

COMPOUND		RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10	RRF25	RRF40		— RRF	% RSD
Hexane			1.199	1.115	1.129	1.165	1.074	1.076	1.092	1.019		1.109	5.1
Chloroform			2.046	2.036	2.043	2.082	2.001	2.006	2.007	1.853		2.009	3.4
Ethyl acetate			1.976	2.014	1.975	1.992	1.733	1.880	1.999	1.832		1.925	5.2
Tetrahydrofuran			0.996	1.033	0.948	0.957	0.767	0.940	0.903	0.905		0.931	8.5
1,2-Dichloroethane			1.237	1.312	1.409	1.392	1.333	1.348	1.357	1.277		1.333	4.3
1,1,1-Trichloroethane			1.926	2.114	2.161	2.251	2.091	2.081	2.196	2.043		2.108	4.7
Benzene			2.626	2.531	2.625	2.599	2.437	2.490	2.512	2.334		2.519	4.0
Carbon Tetrachloride			2.167	2.305	2.327	2.434	2.275	2.333	2.471	2.311		2.328	4.0
Cyclohexane			1.349	1.271	1.223	1.209	1.124	1.094	1.152	1.071		1.187	8.0
1,2-dichloropropane			0.302	0.268	0.275	0.294	0.275	0.277	0.282	0.270		0.280	4.2
Bromodichloromethane			0.530	0.549	0.583	0.598	0.580	0.607	0.621	0.598		0.583	5.2
Trichloroethene			0.420	0.414	0.433	0.428	0.414	0.415	0.421	0.398		0.418	2.5
1,4-Dioxane			0.143	0.173	0.168	0.182	0.132	0.167	0.176	0.165		0.163	10.4
Heptane				0.199	0.210	0.202	0.198	0.199	0.198	0.190		0.199	3.0
cis-1,3-Dichloropropene				0.339	0.358	0.364	0.359	0.372	0.385	0.371		0.364	3.9
4-Methyl-2-pentanone(MIBK)				0.488	0.467	0.505	0.365	0.442	0.466	0.438		0.453	10.0
trans-1,3-Dichloropropene			0.621	0.594	0.629	0.677	0.646	0.682	0.691	0.657		0.650	5.2
1,1,2-Trichloroethane			0.580	0.538	0.548	0.564	0.497	0.522	0.536	0.509		0.537	5.1
Toluene			1.466	1.370	1.428	1.439	1.307	1.311	1.329	1.264		1.364	5.4
Dibromochloromethane			0.953	0.924	0.989	1.075	1.012	1.093	1.174	1.133		1.044	8.5
2-Hexanone(MBK)			1.035	1.087	1.069	1.115	0.875	1.082	1.055	0.983		1.038	7.4
1,2-Dibromoethane(EDB)			0.989	0.952	0.994	1.014	0.948	0.971	0.985	0.950		0.975	2.5

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBK67651

Instrument ID: CHEM24 Calibration Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Calibration Time(s): 13:02 17:09

GC Column: zb-1ms

LAB FILE ID:

RRF0.1 = 0223_08.D RRF0.5 = 0223_10.D RRF2.5 = 0223_12.D RRF10 = 0223_14.D RRF40 = 0223_16.D
 RRF0.25 = 0223_09.D RRF1 = 0223_11.D RRF5 = 0223_13.D RRF25 = 0223_15.D

COMPOUND		RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10	RRF25	RRF40		— RRF	% RSD
Tetrachloroethene			0.922	0.917	0.905	0.931	0.847	0.899	0.983	0.962		0.921	4.5
1,1,1,2-Tetrachloroethane			0.923	0.942	1.007	1.039	0.948	0.979	0.976	0.880		0.962	5.2
Chlorobenzene			1.792	1.752	1.836	1.818	1.637	1.646	1.515	1.371		1.671	9.8
Ethylbenzene			2.762	2.708	2.899	2.895	2.591	2.588	2.509	2.207		2.645	8.6
m,p-Xylene			2.224	2.235	1.942	2.394	2.115	2.142	1.900	1.595		2.068	12.0
Bromoform			1.188	1.243	1.467	1.641	1.530	1.805	1.900	1.716		1.561	16.3
Styrene			1.518	1.529	1.726	1.695	1.534	1.618	1.516	1.404		1.568	6.8
1,1,2,2-Tetrachloroethane			1.870	1.878	1.971	1.955	1.657	1.705	1.506	1.252		1.724	14.5
o-Xylene			2.237	2.231	2.317	2.333	2.011	2.053	1.853	1.587		2.078	12.4
Isopropylbenzene			2.853	2.907	3.063	3.086	2.561	2.771	2.661	2.382		2.786	8.7
4-Ethyltoluene			2.897	3.038	3.251	3.263	2.960	3.079	2.820	2.470		2.972	8.6
1,3,5-Trimethylbenzene			2.594	2.594	2.803	2.772	2.571	2.550	2.369	2.074		2.541	9.1
1,2,4-Trimethylbenzene			2.494	2.549	2.793	2.795	2.632	2.592	2.241	1.881		2.497	12.2
Benzyl chloride			1.165	1.331	1.526	1.874	1.802	2.079	2.043	1.748		1.696	19.4
1,3-Dichlorobenzene			1.734	1.778	1.937	2.014	1.900	1.993	1.983	1.733		1.884	6.3
1,4-Dichlorobenzene			1.736	1.761	1.871	1.949	1.821	2.005	2.008	1.837		1.874	5.6
sec-Butylbenzene			3.611	3.651	3.891	3.922	3.522	3.550	3.267	2.806		3.528	10.2
4-Isopropyltoluene			3.239	3.232	3.537	3.552	3.260	3.297	2.905	2.440		3.183	11.4
1,2-Dichlorobenzene			1.707	1.722	1.873	1.890	1.813	1.916	1.963	1.774		1.832	5.1
n-Butylbenzene			2.624	2.749	2.921	3.034	2.839	2.832	2.629	2.275		2.738	8.5
1,2,4-Trichlorobenzene			0.758	0.844	0.957	1.113	1.155	1.387	1.621	1.599		1.179	27.9
Hexachlorobutadiene			1.626	1.479	1.606	1.588	1.695	1.937	2.021	1.759		1.714	10.7

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

FORM VI AIR

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM24 Calibration Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Calibration Time(s): 12:07 16:02

GC Column: zb-1ms

LAB FILE ID:

RRF0.035 = 0223_06.D RRF0.1 = 0223_08.D RRF0.5 = 0223_10.D RRF2.5 = 0223_12.D RRF10 = 0223_14.D
 RRF0.05 = 0223_07.D RRF0.25 = 0223_09.D RRF1 = 0223_11.D RRF5 = 0223_13.D

COMPOUND		RRF0.035	RRF0.05	RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10		— RRF	% RSD
1,2-Dichlorotetrafluoroethane(sim)			1.886	2.043	2.527	2.499	2.697	2.520	2.515			2.384	12.5
Vinyl Chloride(sim)		0.692	0.805	0.741	0.813	0.798	0.846	0.869	0.823			0.798	7.1
Bromomethane(sim)		0.932	1.035	0.970	1.005	1.054	1.057	1.104	1.019			1.022	5.3
Trichlorofluoromethane(sim)		2.028	2.530	2.234	2.582	2.631	2.741	2.852	2.578			2.522	10.6
Trans-1,2-Dichloroethene(sim)		1.215	1.358	1.263	1.312	1.293	1.355	1.366	1.320			1.310	4.0
1,1-Dichloroethene(sim)		1.445	1.627	1.305	1.353	1.427	1.472	1.496	1.390			1.439	6.8
1,1-Dichloroethane(sim)		1.638	1.768	1.632	1.689	1.709	1.779	1.812	1.702			1.716	3.8
Cis-1,2-Dichloroethene(sim)		1.673	1.331	1.026	1.140	1.136	1.213	1.223	1.183			1.241	15.7
1,2-Dichloroethane(sim)		1.396	1.460	1.423	1.436	1.411	1.489	1.518	1.446			1.447	2.8
1,1,1-Trichloroethane(sim)		1.993	2.326	2.000	1.926	2.114	2.161	2.251	2.091			2.108	6.4
Carbon Tetrachloride(sim)		2.080	2.347	2.180	2.312	2.377	2.447	2.591	2.422			2.345	6.8
Trichlorotrifluoroethane(sim)		1.668	2.006	1.565	1.948	2.087	2.107	2.174	1.952			1.938	11.1
1,2-dichloropropane(sim)		0.247	0.327	0.253	0.278	0.247	0.251	0.268	0.252			0.265	10.2
Bromodichloromethane(sim)		0.813	0.594	0.633	0.543	0.545	0.572	0.597	0.573			0.609	14.4
Trichloroethene(sim)			0.448	0.516	0.388	0.381	0.395	0.390	0.378			0.414	12.3
1,4-Dioxane(sim)				0.218	0.151	0.171	0.165	0.177	0.129	0.162		0.168	16.2
cis-1,3-Dichloropropene(sim)		0.687	0.488	0.624	0.635	0.313	0.327	0.332	0.328			0.467	34.6 #
1,1,2-Trichloroethane(sim)		0.531	0.387	0.583	0.589	0.564	0.560	0.582	0.526			0.540	12.3
Dibromochloromethane(sim)		0.895	0.621	0.847	0.880	0.852	0.903	0.980	0.924			0.863	12.3
1,2-Dibromoethane(EDB)(sim)		1.039	0.705	1.041	1.051	1.005	1.046	1.051	0.990			0.991	11.9
Tetrachloroethene(sim)			0.608	0.874	0.851	0.841	0.827	0.849	0.773			0.803	11.4
Bromoform(sim)		0.867	0.971	1.010	1.060	1.112	1.301	1.453	1.359			1.142	18.1

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument ID: CHEM24 Calibration Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Calibration Time(s): 12:07 16:02

GC Column: zb-1ms

LAB FILE ID:

RRF0.035 = 0223_06.D RRF0.1 = 0223_08.D RRF0.5 = 0223_10.D RRF2.5 = 0223_12.D RRF10 = 0223_14.D
 RRF0.05 = 0223_07.D RRF0.25 = 0223_09.D RRF1 = 0223_11.D RRF5 = 0223_13.D

COMPOUND		RRF0.035	RRF0.05	RRF0.1	RRF0.25	RRF0.5	RRF1	RRF2.5	RRF5	RRF10		— RRF	% RSD
1,1,1,2-Tetrachloroethane(sim)		0.736	0.838	0.895	0.954	0.991	1.020	1.071	0.964			0.934	11.5
m,p-Xylene(sim)		1.865	1.953	1.854	1.985	1.999	2.152	2.123	1.880			1.976	5.7
1,1,2,2-Tetrachloroethane(sim)		1.605	1.577	1.681	1.851	1.872	1.989	1.972	1.652			1.775	9.3
Benzyl chloride(sim)		1.022	0.945	0.899	1.040	1.190	1.329	1.662	1.602			1.211	24.2
1,3-Dichlorobenzene(sim)		1.553	1.636	1.671	1.892	1.930	2.069	2.161	2.023			1.867	11.9
1,4-Dichlorobenzene(sim)		1.355	1.755	1.394	1.549	1.574	1.659	1.729	1.619			1.579	9.2
sec-Butylbenzene(sim)		3.155	3.323	3.341	3.709	3.732	3.989	3.990	3.593			3.604	8.6
4-Isopropyltoluene(sim)		2.486	2.752	2.589	2.890	2.890	3.136	3.151	2.897			2.849	8.3
1,2-Dichlorobenzene(sim)		1.599	1.627	1.653	1.863	1.875	2.017	2.035	1.942			1.826	9.7
n-Butylbenzene(sim)		1.710	2.068	2.052	2.342	2.458	2.590	2.691	2.524			2.304	14.5
1,2,4-Trichlorobenzene(sim)		0.778	0.885	0.829	0.900	0.982	1.083	1.258	1.299			1.002	19.4
Hexachlorobutadiene(sim)		1.806	1.997	1.745	1.768	1.683	1.769	1.770	1.850			1.799	5.2

* The minimum RRF was not met for this compound.

(#) The maximum %RSD was not met for this compound

Response Factor Report Chem24

Method Path : H:\AIR2016\CHEM24\METHODS\
 Method File : CTMANYNJ_0223.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Feb 24 09:11:11 2016
 Response Via : Initial Calibration

Calibration Files

.035=0223_06.D 0.05=0223_07.D 0.10=0223_08.D 0.2 =0223_09.D 0.5 =0223_10.D 1.0 =0223_11.D 2.5 =0223_12.D 5.0 =0223_13.D
 10 =0223_14.D 25 =0223_15.D 40 =0223_16.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----												
2) Propylene	1.133	1.167	1.150	1.186	1.056	1.076	1.157	1.073	1.125			4.38	
3) Dichlorodifluo...	3.560	3.715	3.720	3.775	3.681	3.592	3.540	3.081	3.583			6.13	
4) Chloromethane	0.213	0.278	0.301	0.303	0.273	0.269	0.287	0.276	0.275			10.13	
5) 1,2-Dichlorote...	2.323	2.347	2.498	2.351	2.347	2.416	2.118	1.633	2.254			12.11	
6) Vinyl Chloride	0.813	0.798	0.846	0.869	0.823	0.822	0.850	0.796	0.827			3.12	
7) 1,3-Butadiene	0.562	0.642	0.590	0.626	0.571	0.590	0.593	0.557	0.591			5.04	
8) Bromomethane	1.038	1.122	1.014	1.040	0.978	0.939	0.975	0.915	1.003			6.55	
9) Chloroethane	0.291	0.365	0.369	0.392	0.362	0.356	0.361	0.344	0.355			8.19	
10) Ethanol	0.400	0.372	0.322	0.325	0.232	0.281	0.291	0.264	0.311			17.90	
12) Acetone	1.948	1.644	1.485	1.520	1.273	1.351	1.347	1.267	1.479			15.54	
13) Trichlorofluor...	2.582	2.631	2.741	2.852	2.578	2.645	2.682	2.482	2.649			4.25	
14) Isopropylalcohol	2.175	2.205	1.894	1.908	1.161	1.531	1.572	1.458	1.738			21.13	
15) Acrylonitrile	0.600	0.573	0.584	0.604	0.556	0.578	0.586	0.556	0.580			3.09	
16) 1,1-Dichloroet...	1.353	1.427	1.472	1.496	1.390	1.410	1.412	1.328	1.411			3.96	
17) Methylene Chlo...	1.112	1.051	1.092	1.118	1.038	1.027	1.024	0.947	1.051			5.38	
20) Carbon Disulfide	1.934	2.119	2.238	2.274	2.184	2.206	2.208	2.032	2.149			5.35	
21) Trichlorotrifl...	1.948	2.087	2.107	2.174	1.952	1.976	2.029	1.849	2.015			5.19	
22) Trans-1,2-Dich...	1.120	1.129	1.233	1.265	1.223	1.229	1.222	1.147	1.196			4.61	
23) 1,1-Dichloroet...	1.543	1.563	1.653	1.686	1.587	1.580	1.568	1.480	1.583			4.03	
24) Methyl tert-bu...	2.070	2.318	2.303	2.343	2.042	2.124	2.184	2.045	2.179			5.83	
25) Methyl Ethyl K...	1.843	1.705	1.733	1.811	1.509	1.694	1.715	1.588	1.700			6.41	
26) Cis-1,2-Dichlo...	1.140	1.136	1.213	1.223	1.183	1.185	1.214	1.123	1.177			3.35	
27) Hexane	1.199	1.115	1.129	1.165	1.074	1.076	1.092	1.019	1.109			5.08	
28) Chloroform	2.046	2.036	2.043	2.082	2.001	2.006	2.007	1.853	2.009			3.40	
29) Ethyl acetate	1.976	2.014	1.975	1.992	1.733	1.880	1.999	1.832	1.925			5.21	
30) Tetrahydrofuran	0.996	1.033	0.948	0.957	0.767	0.940	0.903	0.905	0.931			8.52	
31) 1,2-Dichloroet...	1.237	1.312	1.409	1.392	1.333	1.348	1.357	1.277	1.333			4.28	
32) 1,1,1-Trichlor...	1.926	2.114	2.161	2.251	2.091	2.081	2.196	2.043	2.108			4.73	
33) Benzene	2.626	2.531	2.625	2.599	2.437	2.490	2.512	2.334	2.519			4.00	
34) Carbon Tetrach...	2.167	2.305	2.327	2.434	2.275	2.333	2.471	2.311	2.328			4.01	
35) Cyclohexane	1.349	1.271	1.223	1.209	1.124	1.094	1.152	1.071	1.187			7.95	
36) Int 1,4-Difluorobenzene	-----ISTD-----												
37) 1,2-dichloropr...	0.302	0.268	0.275	0.294	0.275	0.277	0.282	0.270	0.280			4.22	
38) Bromodichlorom...	0.530	0.549	0.583	0.598	0.580	0.607	0.621	0.598	0.583			5.20	
39) Trichloroethene	0.420	0.414	0.433	0.428	0.414	0.415	0.421	0.398	0.418			2.50	
41) 1,4-Dioxane	0.143	0.173	0.168	0.182	0.132	0.167	0.176	0.165	0.163			10.36	
43) Heptane		0.199	0.210	0.202	0.198	0.199	0.198	0.190	0.200			2.95	
44) cis-1,3-Dichlo...		0.339	0.358	0.364	0.359	0.372	0.385	0.371	0.364			3.93	

Response Factor Report Chem24

Method Path : H:\AIR2016\CHEM24\METHODS\

Method File : CTMANYNJ_0223.M

Title : VOA Standards for 5 point calibration

45)	4-Methyl-2-pen...	0.488	0.467	0.505	0.365	0.442	0.466	0.438	0.453	10.06
46)	trans-1,3-Dich...	0.621	0.594	0.629	0.677	0.646	0.682	0.691	0.650	5.19
47)	1,1,2-Trichlor...	0.580	0.538	0.548	0.564	0.497	0.522	0.536	0.509	5.13
48)	Toluene	1.466	1.370	1.428	1.439	1.307	1.311	1.329	1.264	5.35
49)	Dibromochlorom...	0.953	0.924	0.989	1.075	1.012	1.093	1.174	1.133	8.46
50)	2-Hexanone(MBK)	1.035	1.087	1.069	1.115	0.875	1.082	1.055	0.983	7.39
51)	1,2-Dibromoeth...	0.989	0.952	0.994	1.014	0.948	0.971	0.985	0.950	2.47
52)	Tetrachloroethene	0.922	0.917	0.905	0.931	0.847	0.899	0.983	0.962	4.48

53)	Int Chlorobenzene-d5	-----ISTD-----									
54)	1,1,1,2-Tetrac...	0.923	0.942	1.007	1.039	0.948	0.979	0.976	0.880	0.962	5.14
55)	Chlorobenzene	1.792	1.752	1.836	1.818	1.637	1.646	1.515	1.371	1.671	9.77
56)	Ethylbenzene	2.762	2.708	2.899	2.895	2.591	2.588	2.509	2.207	2.645	8.59
57)	m,p-Xylene	2.224	2.235	1.942	2.394	2.115	2.142	1.900	1.595	2.068	12.04
58)	Bromoform	1.188	1.243	1.467	1.641	1.530	1.805	1.900	1.716	1.561	16.32
59)	Styrene	1.518	1.529	1.726	1.695	1.534	1.618	1.516	1.404	1.567	6.75
60)	1,1,2,2-Tetrac...	1.870	1.878	1.971	1.955	1.657	1.705	1.506	1.252	1.724	14.44
61)	o-Xylene	2.237	2.231	2.317	2.333	2.011	2.053	1.853	1.587	2.078	12.44
62)	Surr% Bromofluorob...	1.378	1.370	1.366	1.368	1.361	1.320	1.238	1.215	1.327	4.87
64)	Isopropylbenzene	2.853	2.907	3.063	3.086	2.561	2.771	2.661	2.382	2.785	8.74
66)	4-Ethyltoluene	2.897	3.038	3.251	3.263	2.960	3.079	2.820	2.470	2.972	8.62
67)	1,3,5-Trimethy...	2.594	2.594	2.803	2.772	2.571	2.550	2.369	2.074	2.541	9.13
68)	1,2,4-Trimethy...	2.494	2.549	2.793	2.795	2.632	2.592	2.241	1.881	2.497	12.22
70)	Benzyl chloride	1.165	1.331	1.526	1.874	1.802	2.079	2.043	1.748	1.696	19.39
71)	1,3-Dichlorobe...	1.734	1.778	1.937	2.014	1.900	1.993	1.983	1.733	1.884	6.28
72)	1,4-Dichlorobe...	1.736	1.761	1.871	1.949	1.821	2.005	2.008	1.837	1.874	5.60
73)	sec-Butylbenzene	3.611	3.651	3.891	3.922	3.522	3.550	3.267	2.806	3.528	10.16
74)	4-Isopropyltol...	3.239	3.232	3.537	3.552	3.260	3.297	2.905	2.440	3.183	11.37
75)	1,2-Dichlorobe...	1.707	1.722	1.873	1.890	1.813	1.916	1.963	1.774	1.832	5.08
76)	n-Butylbenzene	2.624	2.749	2.921	3.034	2.839	2.832	2.629	2.275	2.738	8.51
77)	1,2,4-Trichlor...	0.758	0.844	0.957	1.113	1.155	1.387	1.621	1.599	1.179	27.92
79)	Hexachlorobuta...	1.626	1.479	1.606	1.588	1.695	1.937	2.021	1.759	1.714	10.73

80)	int Bromochloromethane...	-----ISTD-----									
81)	1,2-Dichlorote...	1.886	2.043	2.527	2.499	2.697	2.520	2.515	2.384	12.49	
82)	Vinyl Chloride...	0.692	0.805	0.741	0.813	0.798	0.846	0.869	0.823	0.798	7.15
83)	Bromomethane(sim)	0.932	1.035	0.970	1.005	1.054	1.057	1.104	1.019	1.022	5.28
84)	Trichlorofluor...	2.028	2.530	2.234	2.582	2.631	2.741	2.852	2.578	2.522	10.63
85)	Trans-1,2-Dich...	1.215	1.358	1.263	1.312	1.293	1.355	1.366	1.320	1.310	3.99
86)	1,1-Dichloroet...	1.445	1.627	1.305	1.353	1.427	1.472	1.496	1.390	1.439	6.82
87)	1,1-Dichloroet...	1.638	1.768	1.632	1.689	1.709	1.779	1.812	1.702	1.716	3.81
88)	Cis-1,2-Dichlo...	1.673	1.331	1.026	1.140	1.136	1.213	1.223	1.183	1.241	15.74
89)	1,2-Dichloroet...	1.396	1.460	1.423	1.436	1.411	1.489	1.518	1.446	1.447	2.82
90)	1,1,1-Trichlor...	1.993	2.326	2.000	1.926	2.114	2.161	2.251	2.091	2.108	6.45
91)	Carbon Tetrach...	2.080	2.347	2.180	2.312	2.377	2.447	2.591	2.422	2.345	6.77
92)	Trichlorotrifl...	1.668	2.006	1.565	1.948	2.087	2.107	2.174	1.952	1.938	11.09

93)	int 1,4-Difluorobenzen...	-----ISTD-----									
94)	1,2-dichloropr...	0.247	0.327	0.253	0.278	0.247	0.251	0.268	0.252	0.265	10.30
95)	Bromodichlorom...	0.813	0.594	0.633	0.543	0.545	0.572	0.597	0.573	0.609	14.37

Response Factor Report Chem24

Method Path : H:\AIR2016\CHEM24\METHODS\

Method File : CTMANYNJ_0223.M

Title : VOA Standards for 5 point calibration

96)	Trichloroethen...	0.448	0.516	0.388	0.381	0.395	0.390	0.378		0.414	12.33
97)	1,4-Dioxane(sim)		0.218	0.151	0.171	0.165	0.177	0.129	0.162	0.167	16.17
98)	cis-1,3-Dichlo...	0.687	0.488	0.624	0.635	0.313	0.327	0.332	0.328	0.466	34.63
99)	1,1,2-Trichlor...	0.531	0.387	0.583	0.589	0.564	0.560	0.582	0.526	0.540	12.25
100)	Dibromochlorom...	0.895	0.621	0.847	0.880	0.852	0.903	0.980	0.924	0.863	12.33
101)	1,2-Dibromoeth...	1.039	0.705	1.041	1.051	1.005	1.046	1.051	0.990	0.991	11.88
102)	Tetrachloroeth...		0.608	0.874	0.851	0.841	0.827	0.849	0.773	0.803	11.38
103)	int Chlorobenzene-d5(sim) -----ISTD-----										
104)	Bromoform(sim)	0.867	0.971	1.010	1.060	1.112	1.301	1.453	1.359	1.142	18.10
105)	1,1,1,2-Tetrac...	0.736	0.838	0.895	0.954	0.991	1.020	1.071	0.964	0.934	11.48
106)	m,p-Xylene(sim)	1.865	1.953	1.854	1.985	1.999	2.152	2.123	1.880	1.976	5.74
107)	1,1,2,2-Tetrac...	1.605	1.577	1.681	1.851	1.872	1.989	1.972	1.652	1.775	9.33
110)	Benzyl chlorid...	1.022	0.945	0.899	1.040	1.190	1.329	1.662	1.602	1.211	24.25
111)	1,3-Dichlorobe...	1.553	1.636	1.671	1.892	1.930	2.069	2.161	2.023	1.867	11.91
112)	1,4-Dichlorobe...	1.355	1.755	1.394	1.549	1.574	1.659	1.729	1.619	1.579	9.16
113)	sec-Butylbenze...	3.155	3.323	3.341	3.709	3.732	3.989	3.990	3.593	3.604	8.61
114)	4-Isopropyltol...	2.486	2.752	2.589	2.890	2.890	3.136	3.151	2.897	2.849	8.27
115)	1,2-Dichlorobe...	1.599	1.627	1.653	1.863	1.875	2.017	2.035	1.942	1.826	9.66
116)	n-Butylbenzene...	1.710	2.068	2.052	2.342	2.458	2.590	2.691	2.524	2.304	14.46
117)	1,2,4-Trichlor...	0.778	0.885	0.829	0.900	0.982	1.083	1.258	1.299	1.002	19.45
119)	Hexachlorobuta...	1.806	1.997	1.745	1.768	1.683	1.769	1.770	1.850	1.798	5.18

(#) = Out of Range q=Quadratic qf=Quadratic Force(0,0)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_06.D
 Acq On : 23 Feb 2016 12:07 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppb
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 09:08:39 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:33:34 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	115268	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	400088	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	297875	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	115268	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	431565	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	332535	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.178	95	409482	10.058	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.60%		

Target Compounds				Qvalue		
2) Propylene	1.596	41	698	0.052	ppbv#	83
3) Dichlorodifluoromethane	1.622	85	1181	0.027	ppbv#	79
5) 1,2-Dichlorotetrafluor...	1.723	85	422	0.015	ppbv#	75
6) Vinyl Chloride	1.774	62	193	0.020	ppbv#	44
7) 1,3-Butadiene	1.816	54	249	0.036	ppbv#	32
8) Bromomethane	1.927	94	659	0.056	ppbv#	49
10) Ethanol	2.088	45	1200	0.322	ppbv#	64
12) Acetone	2.291	43	2844	0.164	ppbv#	88
13) Trichlorofluoromethane	2.316	101	637	0.020	ppbv	88
14) Isopropylalcohol	2.418	45	2506	0.114	ppbv#	96
15) Acrylonitrile	2.477	53	80	0.012	ppbv#	17
16) 1,1-Dichloroethene	2.613	61	447	0.026	ppbv#	69
17) Methylene Chloride	2.672	49	667	0.052	ppbv#	89
20) Carbon Disulfide	2.825	76	683	0.026	ppbv#	70
21) Trichlorotrifluoroethane	2.816	101	433	0.018	ppbv#	80
22) Trans-1,2-Dichloroethene	3.204	61	357	0.025	ppbv#	44
23) 1,1-Dichloroethane	3.331	63	487	0.025	ppbv	88
24) Methyl tert-butyl ethe...	3.458	73	600	0.022	ppbv#	16
25) Methyl Ethyl Ketone	3.604	43	130	0.006	ppbv#	57
26) Cis-1,2-Dichloroethene	3.938	61	469	0.033	ppbv#	32
27) Hexane	4.138	57	765	0.058	ppbv#	73
28) Chloroform	4.185	83	770	0.032	ppbv#	74
29) Ethyl acetate	4.231	43	819	0.036	ppbv#	65
30) Tetrahydrofuran	4.605	42	91	0.008	ppbv#	29
31) 1,2-Dichloroethane	4.915	62	252	0.016	ppbv#	46
32) 1,1,1-Trichloroethane	5.196	97	563	0.022	ppbv#	64
33) Benzene	5.639	78	1281	0.043	ppbv#	85
34) Carbon Tetrachloride	5.772	117	728	0.027	ppbv#	85
35) Cyclohexane	5.892	56	735	0.052	ppbv#	60
37) 1,2-dichloropropane	6.420	63	214	0.019	ppbv#	1
38) Bromodichloromethane	6.580	83	1108	0.047	ppbv	85
39) Trichloroethene	6.613	130	847	0.049	ppbv	97
41) 1,4-Dioxane	6.713	88	224	0.032	ppbv#	92
43) Heptane	6.933	71	421	0.051	ppbv#	87
44) cis-1,3-Dichloropropene	7.340	75	912	0.063	ppbv	75
45) 4-Methyl-2-pentanone(M...	7.440	43	2132	0.110	ppbv#	62
46) trans-1,3-Dichloropropene	7.744	75	747	0.029	ppbv#	87
47) 1,1,2-Trichloroethane	7.853	97	673	0.030	ppbv#	81
48) Toluene	8.045	91	2388	0.042	ppbv#	89
49) Dibromochloromethane	8.334	129	1099	0.027	ppbv#	90
50) 2-Hexanone(MBK)	8.327	43	2356	0.054	ppbv#	69
51) 1,2-Dibromoethane(EDB)	8.498	107	1164	0.029	ppbv	82

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_06.D
 Acq On : 23 Feb 2016 12:07 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppb
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 09:08:39 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:33:34 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Tetrachloroethene	8.841	166	2409	0.066	ppbv	90
54) 1,1,1,2-Tetrachloroethane	9.306	131	626	0.021	ppbv#	83
55) Chlorobenzene	9.313	112	1510	0.028	ppbv#	1
56) Ethylbenzene	9.563	91	2593	0.030	ppbv	89
57) m,p-Xylene	9.670	91	4342	0.067	ppbv	93
58) Bromoform	9.685	173	1009	0.022	ppbv	99
59) Styrene	9.882	104	1378	0.027	ppbv#	74
60) 1,1,2,2-Tetrachloroethane	9.935	83	1606	0.027	ppbv	90
61) o-Xylene	9.935	91	2052	0.030	ppbv#	93
64) Isopropylbenzene	10.253	105	2479	0.027	ppbv#	86
66) 4-Ethyltoluene	10.594	105	2825	0.029	ppbv#	92
67) 1,3,5-Trimethylbenzene	10.632	105	2539	0.031	ppbv#	86
68) 1,2,4-Trimethylbenzene	10.832	105	2231	0.027	ppbv	93
70) Benzyl chloride	10.892	91	989	0.020	ppbv#	89
71) 1,3-Dichlorobenzene	10.897	146	1481	0.025	ppbv#	94
72) 1,4-Dichlorobenzene	10.929	146	1577	0.028	ppbv#	92
73) sec-Butylbenzene	10.962	105	3134	0.027	ppbv#	89
74) 4-Isopropyltoluene	11.043	119	2893	0.027	ppbv	90
75) 1,2-Dichlorobenzene	11.097	146	1539	0.027	ppbv#	93
76) n-Butylbenzene	11.249	91	1990	0.022	ppbv#	84
77) 1,2,4-Trichlorobenzene	11.938	180	618	0.020	ppbv#	83
79) Hexachlorobutadiene	12.162	225	1676	0.035	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.726	85	532	0.018	ppbv#	73
82] Vinyl Chloride(sim)	1.769	62	279m	0.028	ppbv	
83] Bromomethane(sim)	1.938	94	376	0.030	ug/l	99
84] Trichlorofluoromethane...	2.319	101	818m	0.025	ppbv	
85] Trans-1,2-Dichloroethe...	3.201	61	490	0.031	ppbv#	75
86] 1,1-Dichloroethene(sim)	2.616	61	583m	0.034	ppbv	
87] 1,1-Dichloroethane(sim)	3.327	63	661	0.032	ppbv	98
88] Cis-1,2-Dichloroethene...	3.941	61	675m	0.048	ppbv	
89] 1,2-Dichloroethane(sim)	4.918	62	563	0.032	ppbv#	91
90] 1,1,1-Trichloroethane(...	5.185	97	804m	0.032	ppbv	
91] Carbon Tetrachloride(sim)	5.782	117	839	0.029	ppbv	98
92] Trichlorotrifluoroetha...	2.819	101	673m	0.027	ppbv	
94] 1,2-dichloropropane(sim)	6.409	63	373m	0.033	ppbv	
95] Bromodichloromethane(sim)	6.576	83	1228	0.049	ppbv	96
96] Trichloroethene(sim)	6.616	130	1044m	0.062	ppbv	
97] 1,4-Dioxane(sim)	6.716	88	408	0.055	ppbv	97
98] cis-1,3-Dichloropropen...	7.336	75	1037m	0.073	ppbv	
99] 1,1,2-Trichloroethane(...	7.856	97	802	0.033	ppbv	93
100] Dibromochloromethane(sim)	8.336	129	1352m	0.033	ppbv	
101] 1,2-Dibromoethane(EDB)...	8.501	107	1569m	0.035	ppbv	
102] Tetrachloroethene(sim)	8.841	166	2409	0.067	ppbv	90
104] Bromoform(sim)	9.685	173	1009	0.022	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.309	131	857	0.025	ppbv	96
106] m,p-Xylene(sim)	9.670	91	4342	0.061	ppbv#	93
107] 1,1,2,2-Tetrachloroeth...	9.930	83	1868	0.028	ppbv#	98
110] Benzyl chloride(sim)	10.895	91	1190m	0.024	ppbv	
111] 1,3-Dichlorobenzene(sim)	10.900	146	1808	0.026	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.929	146	1577	0.028	ppbv	92
113] sec-Butylbenzene(sim)	10.965	105	3672	0.028	ppbv	92
114] 4-Isopropyltoluene(sim)	11.043	119	2893	0.028	ppbv	90
115] 1,2-Dichlorobenzene(sim)	11.100	146	1861	0.028	ppbv	96
116] n-Butylbenzene(sim)	11.249	91	1990	0.023	ppbv	84
117] 1,2,4-Trichlorobenzene...	11.936	180	905	0.023	ppbv	98

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_06.D
Acq On : 23 Feb 2016 12:07 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 ppb
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 09:08:39 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:33:34 2016
Response via : Initial Calibration

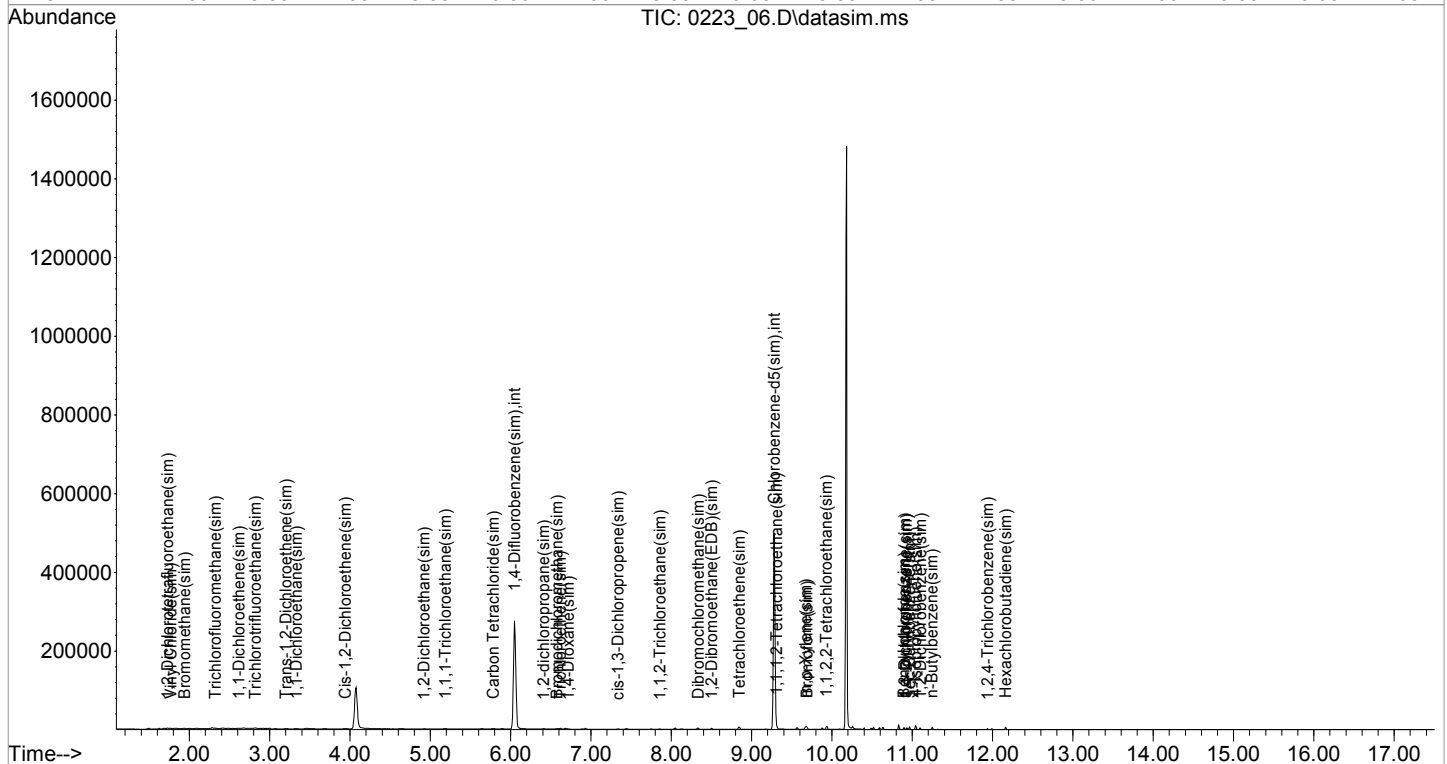
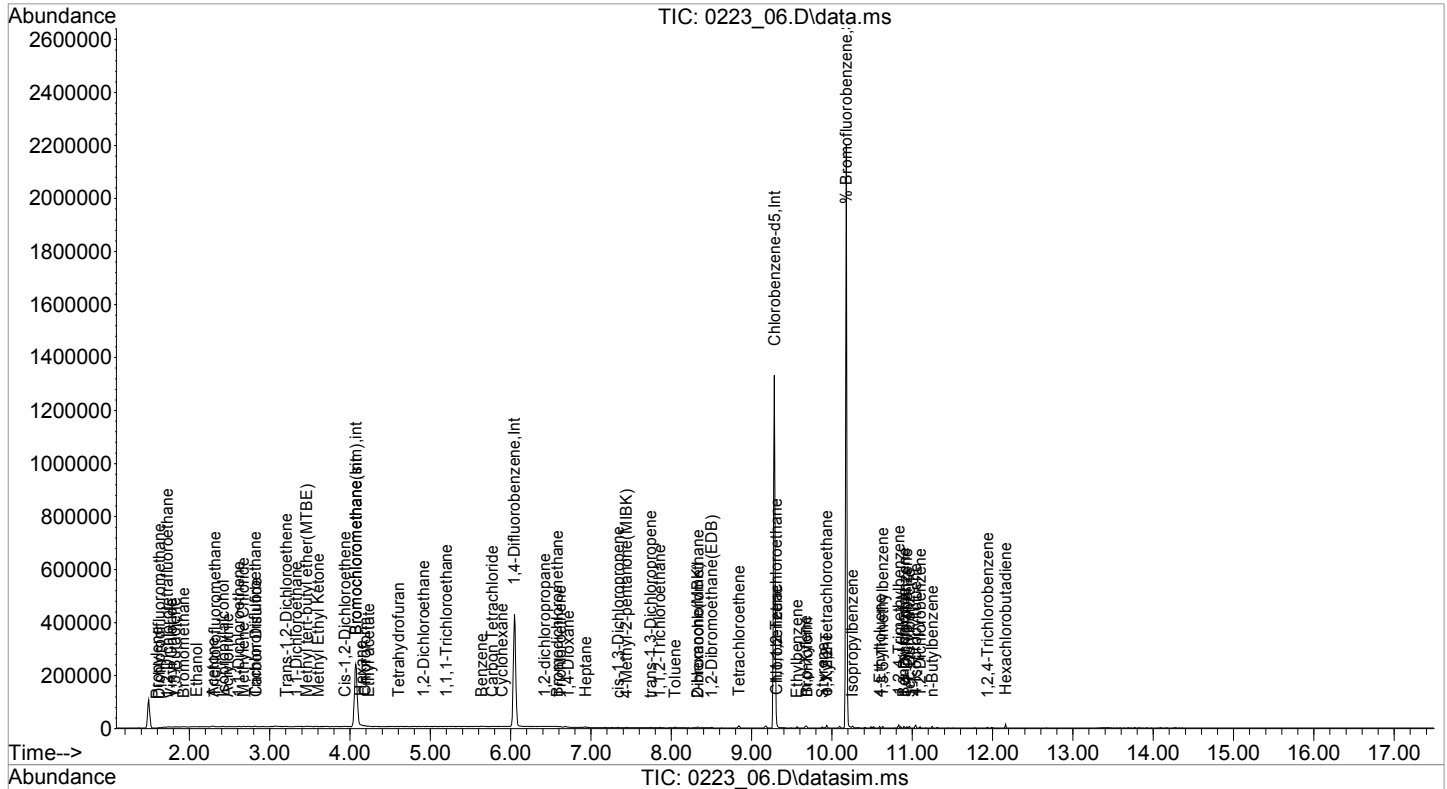
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
119] Hexachlorobutadiene(sim)	12.160	225	2102	0.036	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_06.D
Acq On : 23 Feb 2016 12:07 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 ppb
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 09:08:39 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Tue Feb 23 15:33:34 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_07.D
 Acq On : 23 Feb 2016 12:35 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 15:36:21 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:34:39 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	113576	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	559166	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	288369	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	113576	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	646909	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	319413	10.000	ng	# 0.00

System Monitoring Compounds

62) % Bromofluorobenzene	10.178	95	393707	9.989	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.90%	

Target Compounds

					Qvalue	
2) Propylene	1.596	41	709	0.053	ppbv	84
3) Dichlorodifluoromethane	1.622	85	1664	0.039	ppbv#	85
5) 1,2-Dichlorotetrafluor...	1.723	85	945	0.034	ppbv	96
6) Vinyl Chloride	1.774	62	350	0.036	ppbv#	44
7) 1,3-Butadiene	1.825	54	415	0.060	ppbv#	1
8) Bromomethane	1.927	94	890	0.076	ppbv#	76
9) Chloroethane	2.003	64	79	0.018	ppbv#	36
10) Ethanol	2.088	45	635	0.173	ppbv#	68
12) Acetone	2.282	43	2046	0.120	ppbv#	65
13) Trichlorofluoromethane	2.325	101	1072	0.034	ppbv#	84
14) Isopropylalcohol	2.418	45	1895	0.088	ppbv#	74
15) Acrylonitrile	2.477	53	272	0.040	ppbv#	82
16) 1,1-Dichloroethene	2.613	61	682	0.040	ppbv#	63
17) Methylene Chloride	2.672	49	602	0.048	ppbv#	80
20) Carbon Disulfide	2.825	76	1103	0.043	ppbv#	70
21) Trichlorotrifluoroethane	2.816	101	1039	0.043	ppbv#	85
22) Trans-1,2-Dichloroethene	3.204	61	575	0.041	ppbv	89
23) 1,1-Dichloroethane	3.331	63	895	0.047	ppbv	83
24) Methyl tert-butyl ethe...	3.458	73	1099	0.042	ppbv#	81
25) Methyl Ethyl Ketone	3.678	43	1065	0.053	ppbv#	57
26) Cis-1,2-Dichloroethene	3.945	61	511	0.037	ppbv#	52
27) Hexane	4.138	57	852	0.065	ppbv#	62
28) Chloroform	4.191	83	1212	0.052	ppbv#	78
29) Ethyl acetate	4.245	43	1342	0.060	ppbv#	65
30) Tetrahydrofuran	4.585	42	344	0.032	ppbv#	29
31) 1,2-Dichloroethane	4.922	62	589	0.037	ppbv#	46
32) 1,1,1-Trichloroethane	5.189	97	1163	0.046	ppbv#	61
33) Benzene	5.632	78	1627	0.055	ppbv#	87
34) Carbon Tetrachloride	5.779	117	1199	0.044	ppbv	92
35) Cyclohexane	5.892	56	1010	0.073	ppbv#	61
37) 1,2-dichloropropane	6.413	63	976	0.061	ppbv#	45
38) Bromodichloromethane	6.580	83	1824	0.055	ppbv	95
39) Trichloroethene	6.620	130	1112	0.046	ppbv	95
41) 1,4-Dioxane	6.713	88	361	0.037	ppbv#	23
43) Heptane	6.933	71	733	0.064	ppbv#	94
44) cis-1,3-Dichloropropene	7.340	75	1331	0.066	ppbv	94
45) 4-Methyl-2-pentanone(M...	7.440	43	1492	0.055	ppbv#	61
46) trans-1,3-Dichloropropene	7.751	75	1173	0.032	ppbv#	89
47) 1,1,2-Trichloroethane	7.853	97	1003	0.032	ppbv	86
48) Toluene	8.045	91	2832	0.035	ppbv#	92
49) Dibromochloromethane	8.334	129	1893	0.033	ppbv#	96
50) 2-Hexanone(MBK)	8.327	43	1827	0.030	ppbv#	81

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_07.D
 Acq On : 23 Feb 2016 12:35 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 15:36:21 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:34:39 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) 1,2-Dibromoethane(EDB)	8.505	107	1853	0.033	ppbv	94
52) Tetrachloroethene	8.841	166	1968	0.038	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.306	131	1183	0.040	ppbv#	97
55) Chlorobenzene	9.313	112	2358	0.045	ppbv#	1
56) Ethylbenzene	9.563	91	3880	0.046	ppbv	92
57) m,p-Xylene	9.677	91	6238	0.100	ppbv#	90
58) Bromoform	9.685	173	1551	0.035	ppbv	98
59) Styrene	9.874	104	2030	0.041	ppbv#	81
60) 1,1,2,2-Tetrachloroethane	9.935	83	2412	0.043	ppbv	93
61) o-Xylene	9.935	91	3013	0.045	ppbv	96
64) Isopropylbenzene	10.253	105	3697	0.042	ppbv#	91
66) 4-Ethyltoluene	10.594	105	3703	0.039	ppbv#	93
67) 1,3,5-Trimethylbenzene	10.632	105	3407	0.042	ppbv#	87
68) 1,2,4-Trimethylbenzene	10.832	105	3077	0.038	ppbv#	90
70) Benzyl chloride	10.892	91	1370	0.028	ppbv#	91
71) 1,3-Dichlorobenzene	10.897	146	2232	0.039	ppbv#	92
72) 1,4-Dichlorobenzene	10.929	146	2038	0.037	ppbv	94
73) sec-Butylbenzene	10.962	105	4560	0.040	ppbv#	90
74) 4-Isopropyltoluene	11.043	119	4395	0.043	ppbv#	89
75) 1,2-Dichlorobenzene	11.097	146	2105	0.039	ppbv	92
76) n-Butylbenzene	11.249	91	3302	0.038	ppbv#	95
77) 1,2,4-Trichlorobenzene	11.933	180	1052	0.035	ppbv#	95
79) Hexachlorobutadiene	12.162	225	2465	0.054	ppbv	98
81] 1,2-Dichlorotetrafluor...	1.726	85	1071	0.036	ppbv#	79
82] Vinyl Chloride(sim)	1.768	62	457m	0.050	ppbv	
83] Bromomethane(sim)	1.938	94	588m	0.050	ug/l	
84] Trichlorofluoromethane...	2.319	101	1437m	0.050	ppbv	
85] Trans-1,2-Dichloroethe...	3.201	61	771	0.052	ppbv	88
86] 1,1-Dichloroethene(sim)	2.616	61	924m	0.055	ppbv	
87] 1,1-Dichloroethane(sim)	3.327	63	1004	0.051	ppbv	91
88] Cis-1,2-Dichloroethene...	3.941	61	756m	0.049	ppbv	
89] 1,2-Dichloroethane(sim)	4.925	62	829	0.050	ppbv	92
90] 1,1,1-Trichloroethane(...	5.185	97	1321m	0.054	ppbv	
91] Carbon Tetrachloride(sim)	5.782	117	1333	0.049	ppbv	99
92] Trichlorotrifluoroetha...	2.819	101	1139m	0.051	ppbv	
94] 1,2-dichloropropane(sim)	6.416	63	1058m	0.064	ppbv	
95] Bromodichloromethane(sim)	6.583	83	1921	0.045	ppbv	96
96] Trichloroethene(sim)	6.616	130	1448m	0.045	ppbv	
97] 1,4-Dioxane(sim)	6.716	88	516	0.047	ppbv	94
98] cis-1,3-Dichloropropen...	7.336	75	1577m	0.058	ppbv	
99] 1,1,2-Trichloroethane(...	7.856	97	1252	0.035	ppbv	90
100] Dibromochloromethane(sim)	8.330	129	2009m	0.036	ppbv	
101] 1,2-Dibromoethane(EDB)...	8.501	107	2280m	0.034	ppbv	
102] Tetrachloroethene(sim)	8.841	166	1968	0.028	ppbv	89
104] Bromoform(sim)	9.685	173	1551	0.040	ppbv	91
105] 1,1,1,2-Tetrachloroeth...	9.309	131	1339	0.044	ppbv	100
106] m,p-Xylene(sim)	9.677	91	6238	0.095	ppbv#	90
107] 1,1,2,2-Tetrachloroeth...	9.930	83	2518	0.042	ppbv#	97
110] Benzyl chloride(sim)	10.895	91	1509m	0.035	ppbv	
111] 1,3-Dichlorobenzene(sim)	10.900	146	2612	0.042	ppbv	96
112] 1,4-Dichlorobenzene(sim)	10.932	146	2803m	0.056	ppbv	
113] sec-Butylbenzene(sim)	10.965	105	5307	0.045	ppbv	92
114] 4-Isopropyltoluene(sim)	11.043	119	4395	0.047	ppbv#	89
115] 1,2-Dichlorobenzene(sim)	11.100	146	2599	0.043	ppbv	97
116] n-Butylbenzene(sim)	11.249	91	3302	0.044	ppbv	95

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_07.D
Acq On : 23 Feb 2016 12:35 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 15:36:21 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:34:39 2016
Response via : Initial Calibration

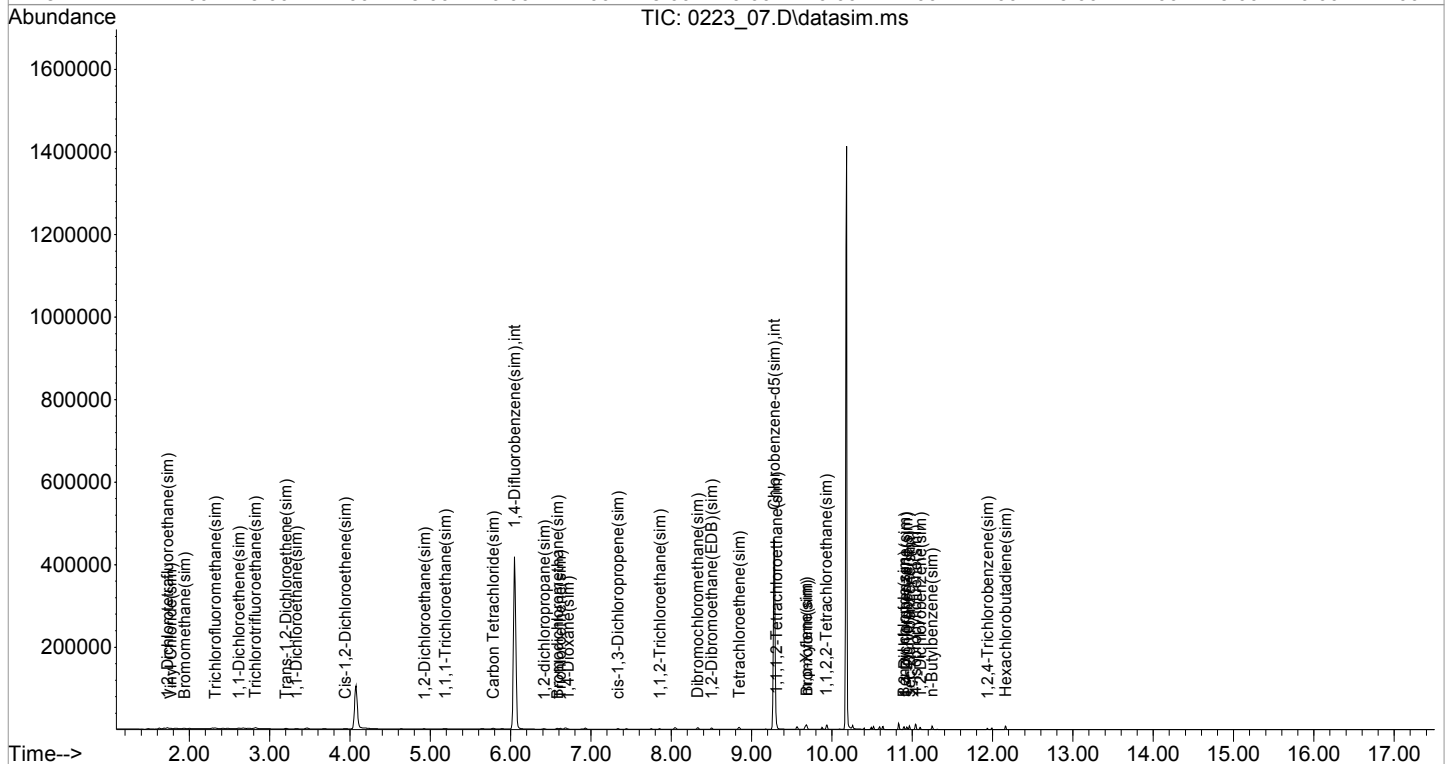
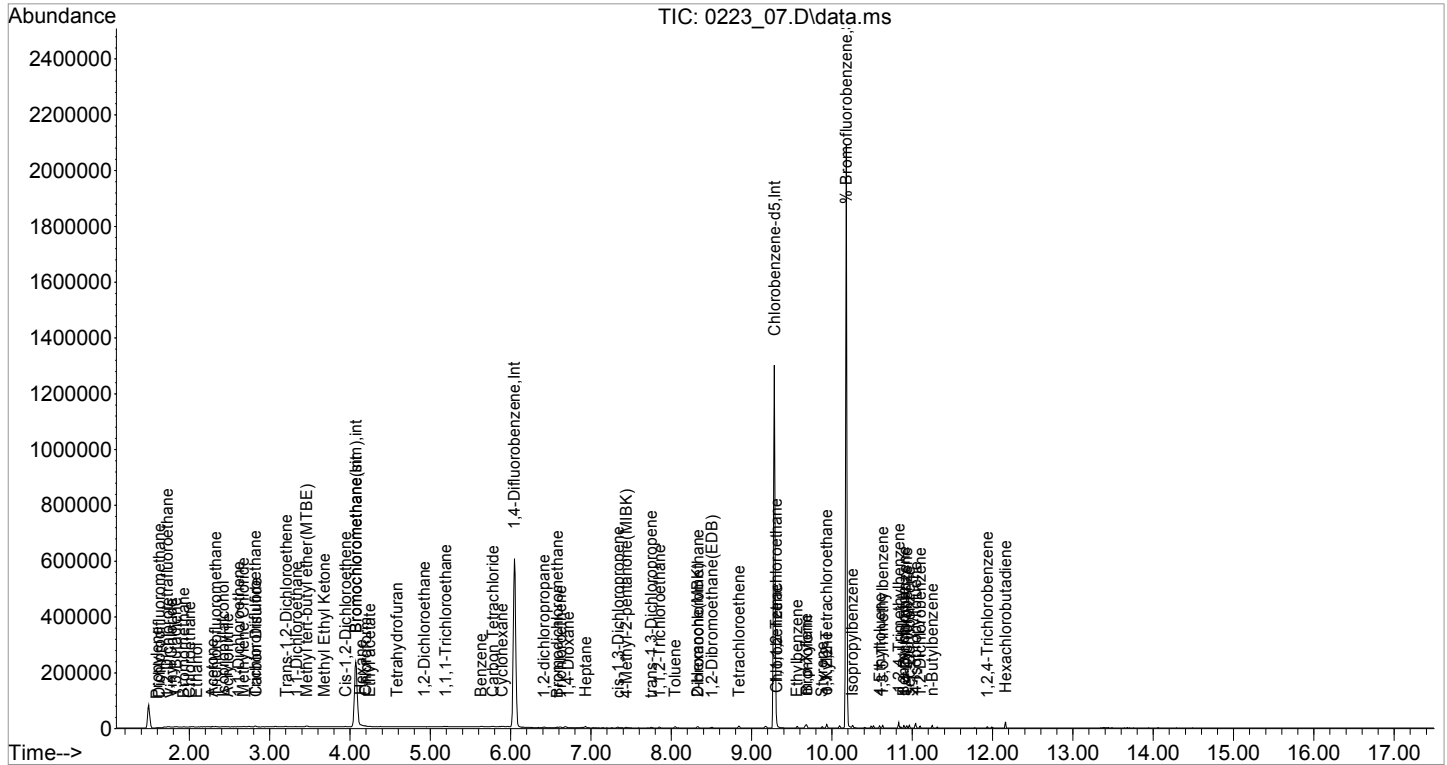
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117] 1,2,4-Trichlorobenzene...	11.936	180	1413	0.043	ppbv	99
119] Hexachlorobutadiene(sim)	12.160	225	3189	0.056	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_07.D
Acq On : 23 Feb 2016 12:35 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 15:36:21 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Tue Feb 23 15:34:39 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_08.D
 Acq On : 23 Feb 2016 1:02 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.1 ppb
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 15:36:34 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:36:30 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	113751	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	390486	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	286566	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	113751	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	421495	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	320446	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.177	95	387541	9.895	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.90%	
Target Compounds						
					Qvalue	
2) Propylene	1.588	41	1094	0.082	ppbv	88
3) Dichlorodifluoromethane	1.622	85	3381	0.079	ppbv	93
4) Chloromethane	1.681	52	189	0.055	ppbv#	1
5) 1,2-Dichlorotetrafluor...	1.723	85	2333	0.085	ppbv	91
6) Vinyl Chloride	1.774	62	843	0.086	ppbv	93
7) 1,3-Butadiene	1.825	54	622	0.090	ppbv#	51
8) Bromomethane	1.935	94	1512	0.129	ppbv#	66
9) Chloroethane	2.003	64	373	0.086	ppbv#	36
10) Ethanol	2.079	45	746	0.203	ppbv#	65
12) Acetone	2.282	43	2465	0.144	ppbv	91
13) Trichlorofluoromethane	2.316	101	2541	0.080	ppbv#	96
14) Isopropylalcohol	2.418	45	2789	0.129	ppbv#	88
15) Acrylonitrile	2.486	53	616	0.091	ppbv#	54
16) 1,1-Dichloroethene	2.613	61	1485	0.088	ppbv	93
17) Methylene Chloride	2.672	49	1156	0.092	ppbv	94
20) Carbon Disulfide	2.825	76	2314	0.090	ppbv#	93
21) Trichlorotrifluoroethane	2.816	101	1780	0.073	ppbv#	77
22) Trans-1,2-Dichloroethene	3.204	61	1244	0.088	ppbv#	85
23) 1,1-Dichloroethane	3.338	63	1698	0.089	ppbv	93
24) Methyl tert-butyl ethe...	3.451	73	2237	0.085	ppbv#	80
25) Methyl Ethyl Ketone	3.678	43	1650	0.082	ppbv#	76
26) Cis-1,2-Dichloroethene	3.938	61	1167	0.084	ppbv#	67
27) Hexane	4.145	57	1413	0.108	ppbv#	66
28) Chloroform	4.191	83	2230	0.095	ppbv	99
29) Ethyl acetate	4.238	43	2511	0.111	ppbv#	68
30) Tetrahydrofuran	4.558	42	233	0.022	ppbv#	29
31) 1,2-Dichloroethane	4.915	62	1476	0.093	ppbv#	69
32) 1,1,1-Trichloroethane	5.189	97	2275	0.091	ppbv#	85
33) Benzene	5.639	78	3111	0.105	ppbv	97
34) Carbon Tetrachloride	5.779	117	2487	0.092	ppbv	92
35) Cyclohexane	5.892	56	1809	0.131	ppbv#	78
37) 1,2-dichloropropane	6.413	63	1067	0.096	ppbv#	71
38) Bromodichloromethane	6.586	83	2551	0.111	ppbv	97
39) Trichloroethene	6.620	130	2177	0.130	ppbv	98
41) 1,4-Dioxane	6.706	88	783	0.115	ppbv#	92
43) Heptane	6.933	71	1358	0.169	ppbv	98
44) cis-1,3-Dichloropropene	7.340	75	2629	0.187	ppbv	95
45) 4-Methyl-2-pentanone(M...	7.440	43	3564	0.188	ppbv#	79
46) trans-1,3-Dichloropropene	7.750	75	2251	0.088	ppbv	97
47) 1,1,2-Trichloroethane	7.853	97	2149	0.099	ppbv	87
48) Toluene	8.045	91	5969	0.107	ppbv#	98
49) Dibromochloromethane	8.333	129	3572	0.089	ppbv	98

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_08.D
 Acq On : 23 Feb 2016 1:02 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.1 ppb
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 15:36:34 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:36:30 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.327	43	3440	0.081	ppbv#	90
51) 1,2-Dibromoethane(EDB)	8.498	107	3684	0.094	ppbv	93
52) Tetrachloroethene	8.841	166	3684	0.103	ppbv	88
54) 1,1,1,2-Tetrachloroethane	9.306	131	2586	0.088	ppbv#	94
55) Chlorobenzene	9.313	112	4774	0.091	ppbv#	22
56) Ethylbenzene	9.563	91	7326	0.088	ppbv	95
57) m, p-Xylene	9.677	91	11882	0.191	ppbv#	89
58) Bromoform	9.685	173	3238	0.073	ppbv	96
59) Styrene	9.874	104	4112	0.084	ppbv#	78
60) 1,1,2,2-Tetrachloroethane	9.935	83	4694	0.083	ppbv#	92
61) o-Xylene	9.935	91	6060	0.091	ppbv	95
64) Isopropylbenzene	10.253	105	7381	0.084	ppbv#	92
66) 4-Ethyltoluene	10.594	105	7698	0.082	ppbv#	91
67) 1,3,5-Trimethylbenzene	10.632	105	6774	0.085	ppbv	91
68) 1,2,4-Trimethylbenzene	10.832	105	6475	0.081	ppbv#	90
70) Benzyl chloride	10.892	91	2881	0.059	ppbv#	94
71) 1,3-Dichlorobenzene	10.897	146	4548	0.080	ppbv#	92
72) 1,4-Dichlorobenzene	10.929	146	4468	0.082	ppbv	96
73) sec-Butylbenzene	10.962	105	9621	0.086	ppbv#	91
74) 4-Isopropyltoluene	11.043	119	8296	0.082	ppbv#	89
75) 1,2-Dichlorobenzene	11.097	146	4261	0.079	ppbv	95
76) n-Butylbenzene	11.248	91	6576	0.077	ppbv#	93
77) 1,2,4-Trichlorobenzene	11.933	180	2053	0.069	ppbv	98
79) Hexachlorobutadiene	12.162	225	4386	0.096	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.726	85	2324	0.086	ppbv#	81
82] Vinyl Chloride(sim)	1.774	62	843	0.092	ppbv	93
83] Bromomethane(sim)	1.938	94	1103	0.094	ug/l	93
84] Trichlorofluoromethane...	2.316	101	2541	0.088	ppbv	98
85] Trans-1,2-Dichloroethe...	3.201	61	1437	0.095	ppbv	86
86] 1,1-Dichloroethene(sim)	2.613	61	1485	0.086	ppbv	93
87] 1,1-Dichloroethane(sim)	3.334	63	1856	0.093	ppbv	92
88] Cis-1,2-Dichloroethene...	3.938	61	1167	0.075	ppbv#	68
89] 1,2-Dichloroethane(sim)	4.925	62	1619	0.097	ppbv	96
90] 1,1,1-Trichloroethane(...	5.189	97	2275	0.092	ppbv#	85
91] Carbon Tetrachloride(sim)	5.782	117	2480	0.092	ppbv	99
92] Trichlorotrifluoroetha...	2.816	101	1780	0.079	ppbv	88
94] 1,2-dichloropropane(sim)	6.413	63	1067	0.093	ppbv#	83
95] Bromodichloromethane(sim)	6.589	83	2669	0.098	ppbv	95
96] Trichloroethene(sim)	6.620	130	2177	0.107	ppbv	98
97] 1,4-Dioxane(sim)	6.709	88	917	0.127	ppbv	99
98] cis-1,3-Dichloropropen...	7.340	75	2629	0.143	ppbv#	95
99] 1,1,2-Trichloroethane(...	7.856	97	2457	0.113	ppbv	92
100] Dibromochloromethane(sim)	8.333	129	3572	0.105	ppbv	98
101] 1,2-Dibromoethane(EDB)...	8.501	107	4386	0.108	ppbv	97
102] Tetrachloroethene(sim)	8.841	166	3684	0.090	ppbv	88
104] Bromoform(sim)	9.685	173	3238	0.088	ppbv	96
105] 1,1,1,2-Tetrachloroeth...	9.309	131	2867	0.098	ppbv	100
106] m, p-Xylene(sim)	9.677	91	11882	0.183	ppbv#	89
107] 1,1,2,2-Tetrachloroeth...	9.930	83	5386	0.094	ppbv#	98
110] Benzyl chloride(sim)	10.892	91	2881	0.073	ppbv	94
111] 1,3-Dichlorobenzene(sim)	10.900	146	5354	0.090	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.929	146	4468	0.086	ppbv	96
113] sec-Butylbenzene(sim)	10.965	105	10706	0.092	ppbv	92
114] 4-Isopropyltoluene(sim)	11.043	119	8296	0.090	ppbv#	89
115] 1,2-Dichlorobenzene(sim)	11.095	146	5298	0.091	ppbv	96

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_08.D
Acq On : 23 Feb 2016 1:02 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.1 ppb
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 15:36:34 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:36:30 2016
Response via : Initial Calibration

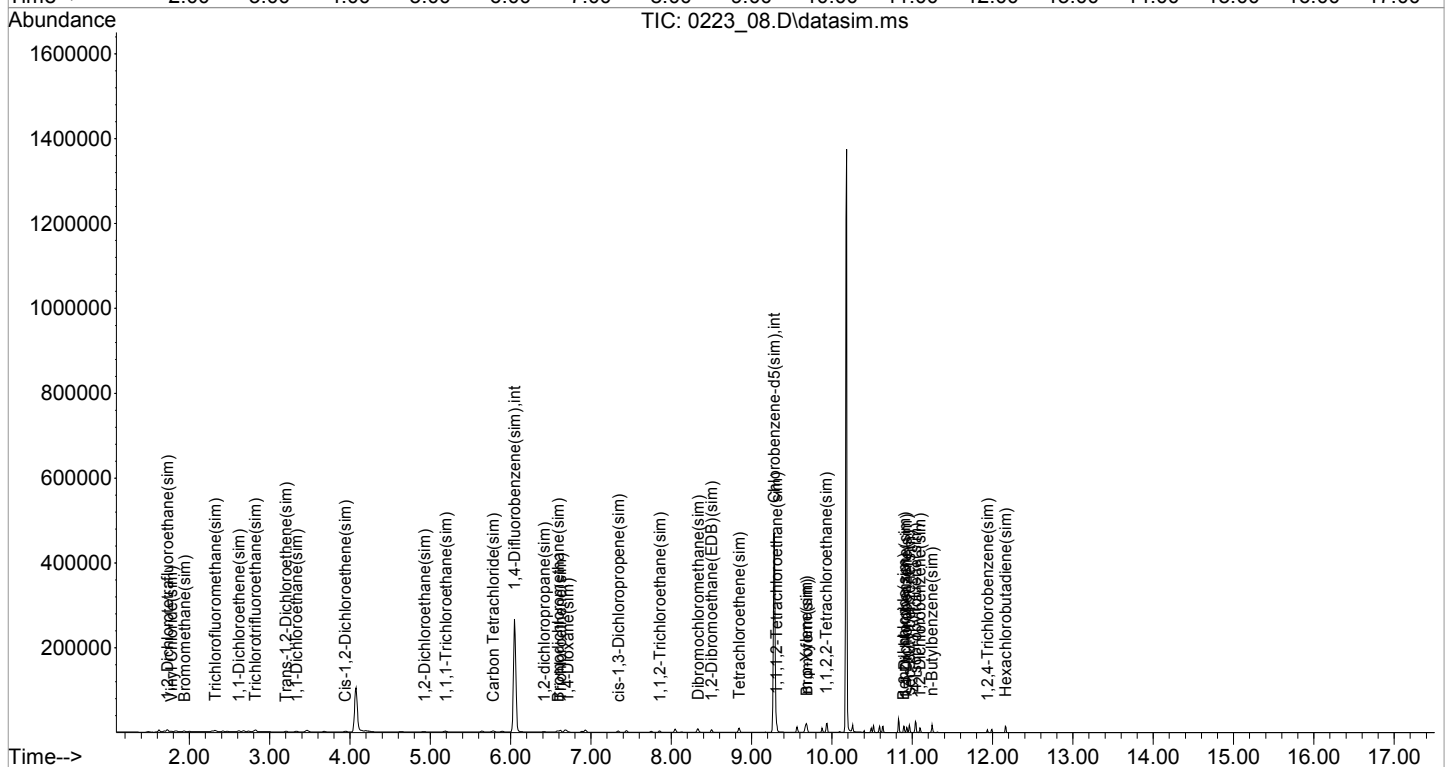
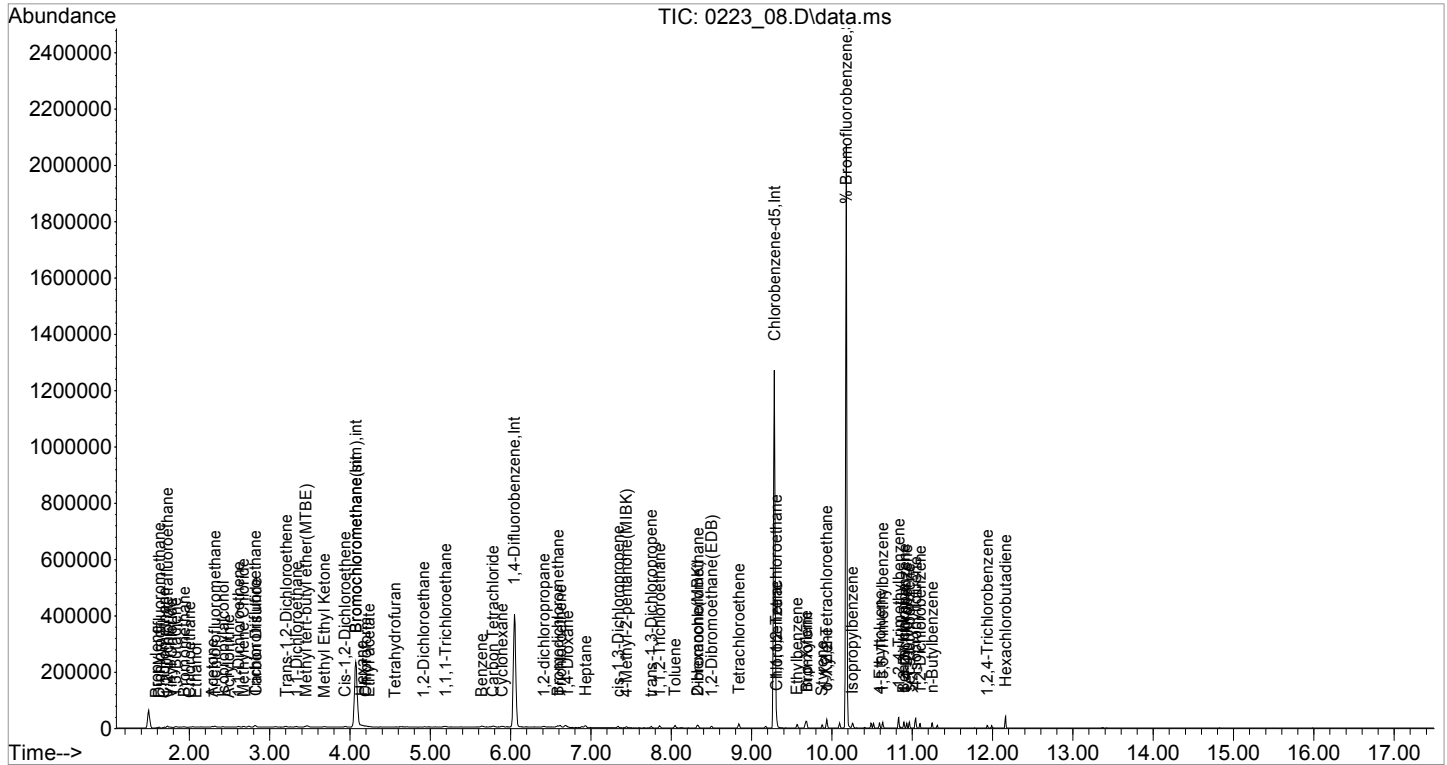
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.248	91	6576	0.091	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.936	180	2655	0.083	ppbv	100
119] Hexachlorobutadiene(sim)	12.160	225	5592	0.095	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_08.D
Acq On : 23 Feb 2016 1:02 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.1 ppb
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 15:36:34 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Tue Feb 23 15:36:30 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_09.D
 Acq On : 23 Feb 2016 1:31 pm
 Operator : Keith
 Client ID : ICAL 0.2
 Lab ID : 0.2 ppbv
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 15:37:15 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:36:57 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	111754	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	376337	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	271149	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	111754	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	407723	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	303836	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.178	95	373548	10.080	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.80%		

Target Compounds				Qvalue		
2) Propylene	1.596	41	2533	0.194	ppbv	94
3) Dichlorodifluoromethane	1.622	85	7957	0.190	ppbv	97
4) Chloromethane	1.681	52	477	0.141	ppbv#	17
5) 1,2-Dichlorotetrafluor...	1.723	85	5191	0.192	ppbv#	84
6) Vinyl Chloride	1.774	62	1818	0.190	ppbv	86
7) 1,3-Butadiene	1.825	54	1256	0.185	ppbv#	8
8) Bromomethane	1.935	94	2319	0.202	ppbv#	93
9) Chloroethane	2.003	64	651	0.153	ppbv	78
10) Ethanol	2.088	45	893	0.247	ppbv#	81
12) Acetone	2.283	43	4354	0.259	ppbv#	87
13) Trichlorofluoromethane	2.316	101	5771	0.185	ppbv	95
14) Isopropylalcohol	2.418	45	4861	0.229	ppbv#	94
15) Acrylonitrile	2.477	53	1341	0.202	ppbv#	77
16) 1,1-Dichloroethene	2.613	61	3024	0.182	ppbv#	87
17) Methylene Chloride	2.681	49	2486	0.201	ppbv	93
20) Carbon Disulfide	2.825	76	4322	0.171	ppbv#	91
21) Trichlorotrifluoroethane	2.825	101	4355	0.182	ppbv#	87
22) Trans-1,2-Dichloroethene	3.205	61	2504	0.179	ppbv#	83
23) 1,1-Dichloroethane	3.331	63	3449	0.185	ppbv	97
24) Methyl tert-butyl ethe...	3.445	73	4626	0.178	ppbv#	93
25) Methyl Ethyl Ketone	3.671	43	4120	0.208	ppbv#	83
26) Cis-1,2-Dichloroethene	3.938	61	2548	0.187	ppbv	88
27) Hexane	4.138	57	2680	0.209	ppbv#	43
28) Chloroform	4.198	83	4572	0.198	ppbv	94
29) Ethyl acetate	4.238	43	4416	0.199	ppbv#	86
30) Tetrahydrofuran	4.632	42	2227m	0.209	ppbv	
31) 1,2-Dichloroethane	4.915	62	2765	0.177	ppbv	97
32) 1,1,1-Trichloroethane	5.189	97	4304	0.175	ppbv	96
33) Benzene	5.639	78	5869	0.201	ppbv	97
34) Carbon Tetrachloride	5.779	117	4844	0.182	ppbv	98
35) Cyclohexane	5.892	56	3015	0.222	ppbv#	93
37) 1,2-dichloropropane	6.413	63	2271	0.212	ppbv#	74
38) Bromodichloromethane	6.580	83	3992	0.180	ppbv	94
39) Trichloroethene	6.620	130	3160	0.195	ppbv	91
41) 1,4-Dioxane	6.707	88	1079	0.164	ppbv#	93
43) Heptane	6.933	71	2317	0.299	ppbv	94
44) cis-1,3-Dichloropropene	7.333	75	5177	0.381	ppbv	99
45) 4-Methyl-2-pentanone(M...	7.440	43	8488	0.464	ppbv#	85
46) trans-1,3-Dichloropropene	7.751	75	4674	0.190	ppbv	99
47) 1,1,2-Trichloroethane	7.854	97	4363	0.209	ppbv	92
48) Toluene	8.046	91	11033	0.205	ppbv	98
49) Dibromochloromethane	8.334	129	7176	0.185	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_09.D
 Acq On : 23 Feb 2016 1:31 pm
 Operator : Keith
 Client ID : ICAL 0.2
 Lab ID : 0.2 ppbv
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 15:37:15 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:36:57 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.320	43	7789	0.190	ppbv	99
51) 1,2-Dibromoethane(EDB)	8.498	107	7445	0.197	ppbv	97
52) Tetrachloroethene	8.841	166	6942	0.201	ppbv	94
54) 1,1,1,2-Tetrachloroethane	9.306	131	5008	0.181	ppbv	97
55) Chlorobenzene	9.313	112	9720	0.196	ppbv#	81
56) Ethylbenzene	9.564	91	14978	0.191	ppbv	95
57) m, p-Xylene	9.677	91	24119	0.410	ppbv	89
58) Bromoform	9.685	173	6442	0.153	ppbv	97
59) Styrene	9.874	104	8233	0.178	ppbv#	81
60) 1,1,2,2-Tetrachloroethane	9.935	83	10140	0.191	ppbv	95
61) o-Xylene	9.935	91	12132	0.192	ppbv	93
64) Isopropylbenzene	10.253	105	15472	0.186	ppbv#	93
66) 4-Ethyltoluene	10.589	105	15713	0.178	ppbv	93
67) 1,3,5-Trimethylbenzene	10.632	105	14068	0.186	ppbv	93
68) 1,2,4-Trimethylbenzene	10.832	105	13523	0.178	ppbv	90
70) Benzyl chloride	10.892	91	6317	0.137	ppbv#	94
71) 1,3-Dichlorobenzene	10.897	146	9406	0.176	ppbv	95
72) 1,4-Dichlorobenzene	10.930	146	9412	0.182	ppbv	95
73) sec-Butylbenzene	10.962	105	19584	0.185	ppbv#	93
74) 4-Isopropyltoluene	11.043	119	17563	0.183	ppbv	91
75) 1,2-Dichlorobenzene	11.097	146	9255	0.181	ppbv	96
76) n-Butylbenzene	11.249	91	14232	0.176	ppbv#	94
77) 1,2,4-Trichlorobenzene	11.933	180	4109	0.146	ppbv	92
79) Hexachlorobutadiene	12.162	225	8820	0.204	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.726	85	5648	0.221	ppbv#	81
82] Vinyl Chloride(sim)	1.774	62	1818	0.206	ppbv#	86
83] Bromomethane(sim)	1.938	94	2247	0.197	ug/l	100
84] Trichlorofluoromethane...	2.316	101	5771	0.208	ppbv	95
85] Trans-1,2-Dichloroethe...	3.201	61	2933	0.200	ppbv	89
86] 1,1-Dichloroethene(sim)	2.613	61	3024	0.184	ppbv#	87
87] 1,1-Dichloroethane(sim)	3.334	63	3775	0.196	ppbv	100
88] Cis-1,2-Dichloroethene...	3.938	61	2548	0.176	ppbv	88
89] 1,2-Dichloroethane(sim)	4.918	62	3210	0.197	ppbv	96
90] 1,1,1-Trichloroethane(...	5.189	97	4304	0.179	ppbv#	96
91] Carbon Tetrachloride(sim)	5.782	117	5168	0.199	ppbv	99
92] Trichlorotrifluoroetha...	2.825	101	4355	0.205	ppbv	100
94] 1,2-dichloropropane(sim)	6.413	63	2271	0.207	ppbv#	79
95] Bromodichloromethane(sim)	6.583	83	4431	0.169	ppbv	96
96] Trichloroethene(sim)	6.620	130	3160	0.159	ppbv	94
97] 1,4-Dioxane(sim)	6.710	88	1228	0.161	ppbv	84
98] cis-1,3-Dichloropropen...	7.333	75	5177	0.267	ppbv	99
99] 1,1,2-Trichloroethane(...	7.856	97	4801	0.223	ppbv	94
100] Dibromochloromethane(sim)	8.334	129	7176	0.216	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.501	107	8574	0.215	ppbv	97
102] Tetrachloroethene(sim)	8.841	166	6942	0.179	ppbv	94
104] Bromoform(sim)	9.685	173	6442	0.189	ppbv	97
105] 1,1,1,2-Tetrachloroeth...	9.309	131	5799	0.209	ppbv	100
106] m, p-Xylene(sim)	9.677	91	24119	0.399	ppbv#	89
107] 1,1,2,2-Tetrachloroeth...	9.930	83	11251	0.210	ppbv#	98
110] Benzyl chloride(sim)	10.892	91	6317	0.177	ppbv	94
111] 1,3-Dichlorobenzene(sim)	10.895	146	11495	0.208	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.930	146	9412	0.196	ppbv	95
113] sec-Butylbenzene(sim)	10.965	105	22537	0.208	ppbv	92
114] 4-Isopropyltoluene(sim)	11.043	119	17563	0.205	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.095	146	11319	0.209	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_09.D
Acq On : 23 Feb 2016 1:31 pm
Operator : Keith
Client ID : ICAL 0.2
Lab ID : 0.2 ppbv
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 15:37:15 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:36:57 2016
Response via : Initial Calibration

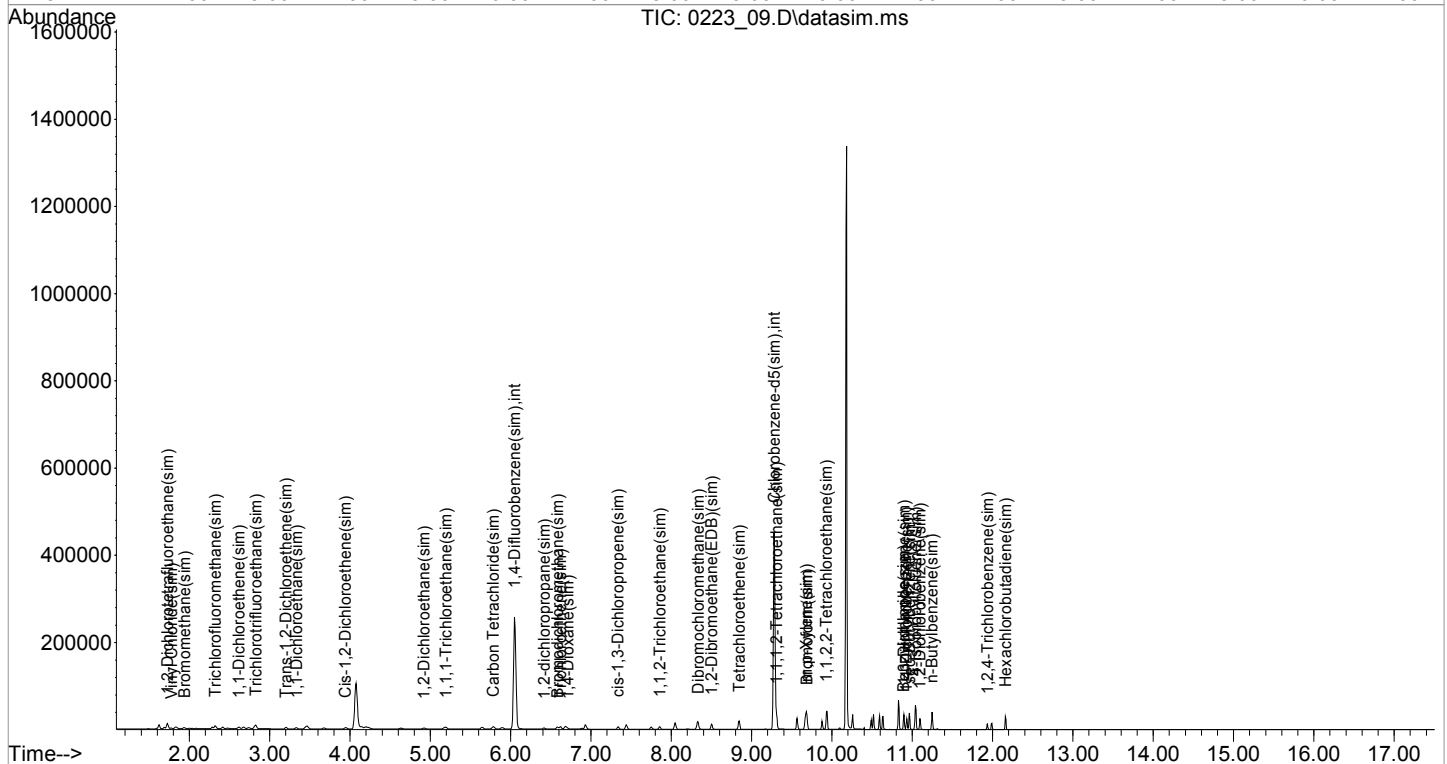
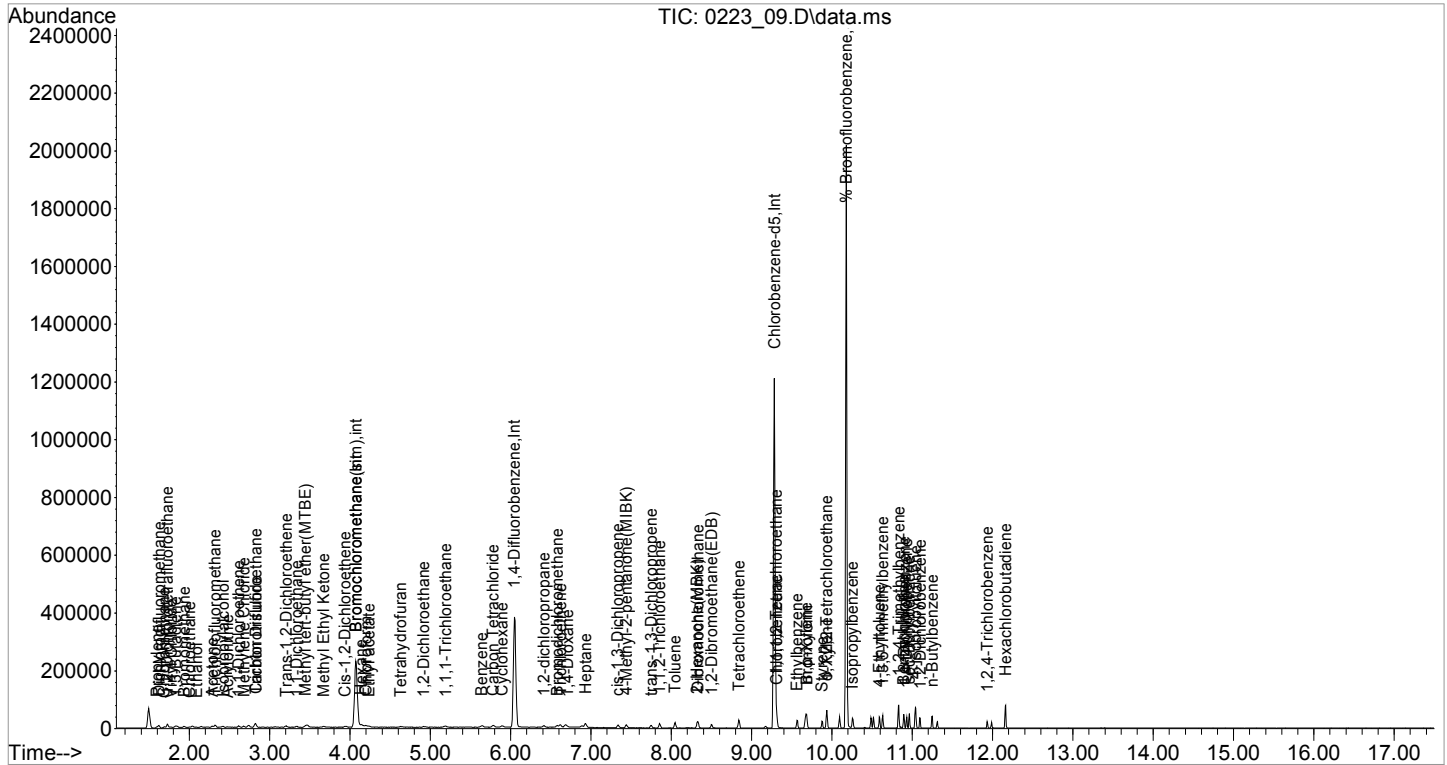
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.249	91	14232	0.211	ppbv	94
117] 1,2,4-Trichlorobenzene...	11.936	180	5467	0.186	ppbv	100
119] Hexachlorobutadiene(sim)	12.160	225	10744	0.195	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_09.D
Acq On : 23 Feb 2016 1:31 pm
Operator : Keith
Client ID : ICAI 0.2
Lab ID : 0.2 ppbv
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 15:37:15 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Tue Feb 23 15:36:57 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_10.D
 Acq On : 23 Feb 2016 2:03 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.5 ppb
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 15:37:42 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:37:37 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	112852	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	379169	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	268803	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	112852	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	411552	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	300611	10.000	ng	0.00

System Monitoring Compounds

62) % Bromofluorobenzene	10.178	95	368266	9.997	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.00%		

Target Compounds

						Qvalue
2) Propylene	1.588	41	6587	0.505	ppbv	99
3) Dichlorodifluoromethane	1.622	85	20965	0.504	ppbv	97
4) Chloromethane	1.681	52	1569	0.510	ppbv#	35
5) 1,2-Dichlorotetrafluor...	1.723	85	13241	0.491	ppbv#	83
6) Vinyl Chloride	1.774	62	4502	0.473	ppbv	92
7) 1,3-Butadiene	1.825	54	3623	0.542	ppbv#	54
8) Bromomethane	1.935	94	6333	0.544	ppbv#	88
9) Chloroethane	2.003	64	2060	0.521	ppbv	91
10) Ethanol	2.079	45	2100	0.533	ppbv	97
12) Acetone	2.282	43	9274	0.498	ppbv	97
13) Trichlorofluoromethane	2.316	101	14843	0.483	ppbv	98
14) Isopropylalcohol	2.401	45	12441	0.553	ppbv#	87
15) Acrylonitrile	2.469	53	3232	0.480	ppbv	94
16) 1,1-Dichloroethene	2.613	61	8050	0.495	ppbv	89
17) Methylene Chloride	2.672	49	5931	0.475	ppbv	96
20) Carbon Disulfide	2.825	76	11954	0.493	ppbv	100
21) Trichlorotrifluoroethane	2.816	101	11774	0.502	ppbv#	86
22) Trans-1,2-Dichloroethene	3.198	61	6370	0.468	ppbv#	84
23) 1,1-Dichloroethane	3.331	63	8821	0.480	ppbv	96
24) Methyl tert-butyl ethe...	3.438	73	13080	0.518	ppbv#	89
25) Methyl Ethyl Ketone	3.664	43	9620	0.475	ppbv	93
26) Cis-1,2-Dichloroethene	3.945	61	6410	0.477	ppbv#	85
27) Hexane	4.138	57	6293	0.479	ppbv	87
28) Chloroform	4.198	83	11490	0.495	ppbv	99
29) Ethyl acetate	4.225	43	11367	0.508	ppbv#	92
30) Tetrahydrofuran	4.631	42	5830	0.534	ppbv#	81
31) 1,2-Dichloroethane	4.922	62	7401	0.487	ppbv	98
32) 1,1,1-Trichloroethane	5.182	97	11928	0.500	ppbv	94
33) Benzene	5.639	78	14282	0.484	ppbv	99
34) Carbon Tetrachloride	5.786	117	13005	0.499	ppbv	98
35) Cyclohexane	5.899	56	7171	0.504	ppbv#	86
37) 1,2-dichloropropane	6.413	63	5076	0.462	ppbv#	79
38) Bromodichloromethane	6.580	83	10400	0.481	ppbv	97
39) Trichloroethene	6.613	130	7847	0.485	ppbv	90
41) 1,4-Dioxane	6.700	88	3276	0.525	ppbv#	85
43) Heptane	6.933	71	3773	0.415	ppbv	94
44) cis-1,3-Dichloropropene	7.333	75	6431	0.361	ppbv	95
45) 4-Methyl-2-pentanone(M...	7.433	43	9255	0.349	ppbv	94
46) trans-1,3-Dichloropropene	7.744	75	11257	0.462	ppbv	98
47) 1,1,2-Trichloroethane	7.853	97	10202	0.477	ppbv	94
48) Toluene	8.045	91	25972	0.474	ppbv	96
49) Dibromochloromethane	8.334	129	17523	0.460	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_10.D
 Acq On : 23 Feb 2016 2:03 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.5 ppb
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 15:37:42 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:37:37 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.320	43	20603	0.506	ppbv#	97
51) 1,2-Dibromoethane(EDB)	8.498	107	18053	0.477	ppbv	98
52) Tetrachloroethene	8.841	166	17378	0.498	ppbv	91
54) 1,1,1,2-Tetrachloroethane	9.306	131	12667	0.476	ppbv	97
55) Chlorobenzene	9.313	112	23542	0.482	ppbv	98
56) Ethylbenzene	9.563	91	36391	0.475	ppbv	94
57) m, p-Xylene	9.677	91	60084	1.022	ppbv	91
58) Bromoform	9.685	173	16710	0.434	ppbv	99
59) Styrene	9.874	104	20547	0.464	ppbv#	81
60) 1,1,2,2-Tetrachloroethane	9.935	83	25234	0.486	ppbv	94
61) o-Xylene	9.935	91	29986	0.486	ppbv	92
64) Isopropylbenzene	10.253	105	39066	0.484	ppbv	93
66) 4-Ethyltoluene	10.589	105	40829	0.484	ppbv	94
67) 1,3,5-Trimethylbenzene	10.632	105	34862	0.476	ppbv	91
68) 1,2,4-Trimethylbenzene	10.832	105	34255	0.473	ppbv	91
70) Benzyl chloride	10.892	91	17892	0.437	ppbv	96
71) 1,3-Dichlorobenzene	10.897	146	23891	0.469	ppbv	94
72) 1,4-Dichlorobenzene	10.929	146	23664	0.475	ppbv	95
73) sec-Butylbenzene	10.962	105	49075	0.479	ppbv#	92
74) 4-Isopropyltoluene	11.043	119	43432	0.469	ppbv	91
75) 1,2-Dichlorobenzene	11.097	146	23150	0.472	ppbv	95
76) n-Butylbenzene	11.249	91	36952	0.481	ppbv#	92
77) 1,2,4-Trichlorobenzene	11.933	180	11346	0.448	ppbv	96
79) Hexachlorobutadiene	12.162	225	19880	0.460	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	14100	0.535	ppbv#	81
82] Vinyl Chloride(sim)	1.774	62	4502	0.502	ppbv	92
83] Bromomethane(sim)	1.929	94	5950	0.518	ug/l	99
84] Trichlorofluoromethane...	2.316	101	14843	0.527	ppbv	98
85] Trans-1,2-Dichloroethe...	3.201	61	7295	0.493	ppbv	88
86] 1,1-Dichloroethene(sim)	2.613	61	8050	0.492	ppbv	89
87] 1,1-Dichloroethane(sim)	3.327	63	9645	0.497	ppbv	99
88] Cis-1,2-Dichloroethene...	3.945	61	6410	0.448	ppbv#	85
89] 1,2-Dichloroethane(sim)	4.918	62	7959	0.485	ppbv	96
90] 1,1,1-Trichloroethane(...	5.182	97	11928	0.501	ppbv#	94
91] Carbon Tetrachloride(sim)	5.782	117	13413	0.511	ppbv	99
92] Trichlorotrifluoroetha...	2.816	101	11774	0.546	ppbv	95
94] 1,2-dichloropropane(sim)	6.413	63	5076	0.456	ppbv#	81
95] Bromodichloromethane(sim)	6.576	83	11215	0.436	ppbv	96
96] Trichloroethene(sim)	6.613	130	7847	0.404	ppbv	94
97] 1,4-Dioxane(sim)	6.696	88	3520	0.482	ppbv#	81
98] cis-1,3-Dichloropropen...	7.333	75	6431	0.312	ppbv	95
99] 1,1,2-Trichloroethane(...	7.849	97	11616	0.524	ppbv	92
100] Dibromochloromethane(sim)	8.334	129	17523	0.515	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.501	107	20688	0.508	ppbv	97
102] Tetrachloroethene(sim)	8.841	166	17296	0.450	ppbv	91
104] Bromoform(sim)	9.685	173	16710	0.501	ppbv	98
105] 1,1,1,2-Tetrachloroeth...	9.309	131	14894	0.539	ppbv	100
106] m, p-Xylene(sim)	9.677	91	60084	1.005	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.930	83	28134	0.526	ppbv#	97
110] Benzyl chloride(sim)	10.892	91	17892	0.518	ppbv	96
111] 1,3-Dichlorobenzene(sim)	10.895	146	29008	0.527	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.929	146	23664	0.500	ppbv	95
113] sec-Butylbenzene(sim)	10.965	105	56093	0.521	ppbv	93
114] 4-Isopropyltoluene(sim)	11.043	119	43432	0.510	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.095	146	28175	0.521	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_10.D
Acq On : 23 Feb 2016 2:03 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5 ppb
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 15:37:42 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:37:37 2016
Response via : Initial Calibration

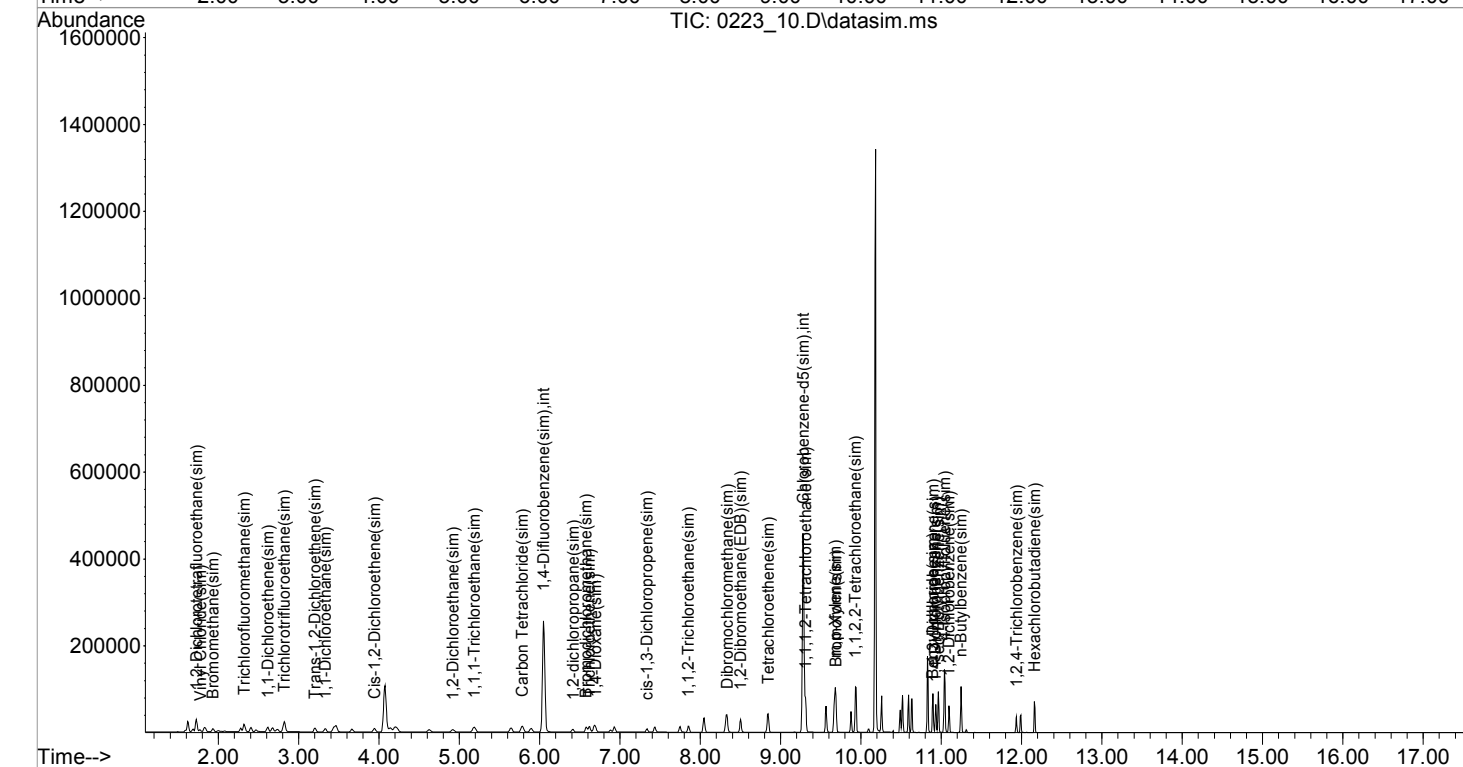
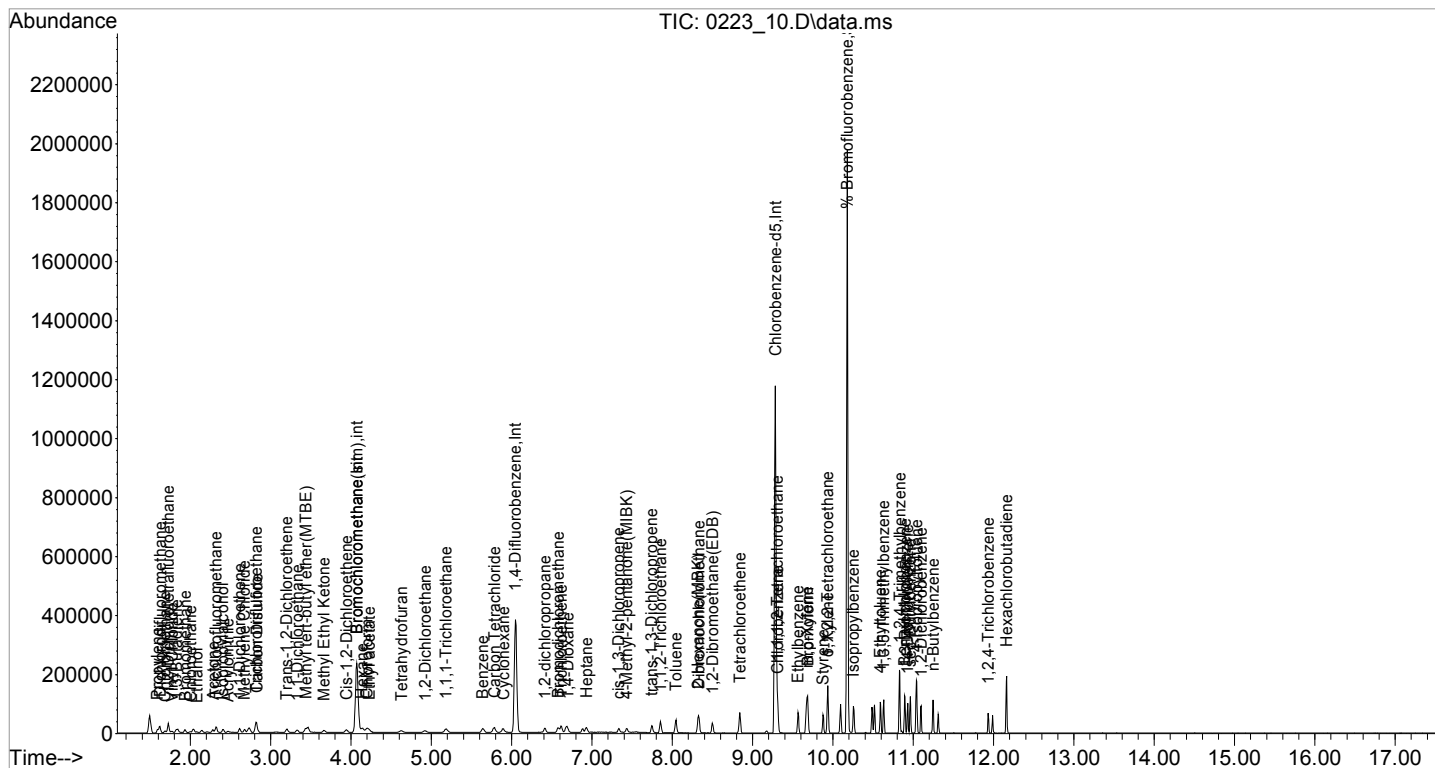
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.249	91	36952	0.548	ppbv	92
117] 1,2,4-Trichlorobenzene...	11.936	180	14753	0.514	ppbv	99
119] Hexachlorobutadiene(sim)	12.160	225	25300	0.465	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(Not Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_10.D
Acq On : 23 Feb 2016 2:03 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5 ppb
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 15:37:42 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:37:37 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_11.D
 Acq On : 23 Feb 2016 2:32 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1.0 ppb
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 09:12:03 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	110501	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	372647	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	257453	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	110501	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	408071	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	290399	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.178	95	351601	10.292	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.90%		

Target Compounds				Qvalue		
2) Propylene	1.588	41	12703	1.022	ppbv	98
3) Dichlorodifluoromethane	1.622	85	41108	1.038	ppbv#	97
4) Chloromethane	1.681	52	3324	1.094	ppbv#	81
5) 1,2-Dichlorotetrafluor...	1.723	85	27605	1.108	ppbv#	81
6) Vinyl Chloride	1.766	62	9344	1.022	ppbv	96
7) 1,3-Butadiene	1.825	54	6520	0.998	ppbv#	60
8) Bromomethane	1.935	94	11208	1.012	ppbv	96
9) Chloroethane	2.003	64	4078	1.040	ppbv	81
10) Ethanol	2.071	45	3559	1.036	ppbv	95
12) Acetone	2.274	43	16408	1.004	ppbv	97
13) Trichlorofluoromethane	2.316	101	30292	1.035	ppbv	98
14) Isopropylalcohol	2.401	45	20926	1.090	ppbv#	92
15) Acrylonitrile	2.469	53	6458	1.008	ppbv	95
16) 1,1-Dichloroethene	2.613	61	16263	1.043	ppbv	90
17) Methylene Chloride	2.681	49	12068	1.039	ppbv	97
20) Carbon Disulfide	2.825	76	24623	1.037	ppbv	99
21) Trichlorotrifluoroethane	2.816	101	23288	1.046	ppbv#	87
22) Trans-1,2-Dichloroethene	3.198	61	13623	1.031	ppbv	87
23) 1,1-Dichloroethane	3.331	63	18269	1.045	ppbv	97
24) Methyl tert-butyl ethe...	3.425	73	25443	1.057	ppbv	93
25) Methyl Ethyl Ketone	3.651	43	19146	1.019	ppbv	94
26) Cis-1,2-Dichloroethene	3.938	61	13409	1.031	ppbv	91
27) Hexane	4.145	57	12476	1.018	ppbv#	77
28) Chloroform	4.198	83	22570	1.017	ppbv	94
29) Ethyl acetate	4.218	43	21822	1.026	ppbv#	94
30) Tetrahydrofuran	4.612	42	10475	1.018	ppbv#	86
31) 1,2-Dichloroethane	4.922	62	15566	1.057	ppbv	98
32) 1,1,1-Trichloroethane	5.189	97	23878	1.025	ppbv	95
33) Benzene	5.646	78	29007	1.042	ppbv	99
34) Carbon Tetrachloride	5.786	117	25717	1.000	ppbv	99
35) Cyclohexane	5.892	56	13515	1.031	ppbv#	89
37) 1,2-dichloropropane	6.413	63	10235	0.980	ppbv#	77
38) Bromodichloromethane	6.580	83	21737	1.000	ppbv	98
39) Trichloroethene	6.620	130	16121	1.035	ppbv	89
41) 1,4-Dioxane	6.687	88	6264	1.030	ppbv	87
43) Heptane	6.933	71	7815	1.051	ppbv	93
44) cis-1,3-Dichloropropene	7.333	75	13343	0.984	ppbv	94
45) 4-Methyl-2-pentanone(M...	7.427	43	17389	1.030	ppbv	95
46) trans-1,3-Dichloropropene	7.744	75	23458	0.969	ppbv	98
47) 1,1,2-Trichloroethane	7.854	97	20421	1.021	ppbv	92
48) Toluene	8.046	91	53205	1.047	ppbv	96
49) Dibromochloromethane	8.334	129	36843	0.947	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_11.D
 Acq On : 23 Feb 2016 2:32 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1.0 ppb
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 09:12:03 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.313	43	39848	1.031	ppbv#	97
51) 1,2-Dibromoethane(EDB)	8.498	107	37049	1.019	ppbv	95
52) Tetrachloroethene	8.841	166	33740	0.983	ppbv	93
54) 1,1,1,2-Tetrachloroethane	9.306	131	25938	1.047	ppbv	99
55) Chlorobenzene	9.313	112	47267	1.099	ppbv	95
56) Ethylbenzene	9.564	91	74645	1.096	ppbv	94
57) m, p-Xylene	9.677	91	124990	2.347	ppbv	91
58) Bromoform	9.685	173	37764	0.940	ppbv	100
59) Styrene	9.874	104	44444	1.101	ppbv#	80
60) 1,1,2,2-Tetrachloroethane	9.935	83	50738	1.143	ppbv	93
61) o-Xylene	9.935	91	59659	1.115	ppbv	92
64) Isopropylbenzene	10.254	105	78849	1.100	ppbv	93
66) 4-Ethyltoluene	10.589	105	83705	1.094	ppbv	94
67) 1,3,5-Trimethylbenzene	10.632	105	72155	1.103	ppbv	92
68) 1,2,4-Trimethylbenzene	10.832	105	71907	1.119	ppbv	91
70) Benzyl chloride	10.892	91	39285	0.900	ppbv#	94
71) 1,3-Dichlorobenzene	10.897	146	49858	1.028	ppbv	95
72) 1,4-Dichlorobenzene	10.930	146	48161	0.998	ppbv	96
73) sec-Butylbenzene	10.962	105	100173	1.103	ppbv#	93
74) 4-Isopropyltoluene	11.043	119	91060	1.111	ppbv	91
75) 1,2-Dichlorobenzene	11.097	146	48213	1.022	ppbv	95
76) n-Butylbenzene	11.243	91	75204	1.067	ppbv#	93
77) 1,2,4-Trichlorobenzene	11.933	180	24626	0.811	ppbv	99
79) Hexachlorobutadiene	12.162	225	41359	0.937	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.726	85	29799	1.131	ppbv#	81
82] Vinyl Chloride(sim)	1.766	62	9344	1.059	ppbv	96
83] Bromomethane(sim)	1.930	94	11682	1.034	ug/l	99
84] Trichlorofluoromethane...	2.316	101	30292	1.087	ppbv	99
85] Trans-1,2-Dichloroethe...	3.201	61	14969	1.034	ppbv	87
86] 1,1-Dichloroethene(sim)	2.613	61	16263	1.022	ppbv	90
87] 1,1-Dichloroethane(sim)	3.328	63	19668	1.037	ppbv	99
88] Cis-1,2-Dichloroethene...	3.938	61	13409	0.978	ppbv	91
89] 1,2-Dichloroethane(sim)	4.918	62	16454	1.029	ppbv	97
90] 1,1,1-Trichloroethane(...	5.189	97	23878	1.025	ppbv#	95
91] Carbon Tetrachloride(sim)	5.782	117	27035	1.044	ppbv	99
92] Trichlorotrifluoroetha...	2.816	101	23288	1.087	ppbv	100
94] 1,2-dichloropropane(sim)	6.413	63	10235	0.945	ppbv#	77
95] Bromodichloromethane(sim)	6.576	83	23357	0.940	ppbv	96
96] Trichloroethene(sim)	6.620	130	16121	0.955	ppbv	92
97] 1,4-Dioxane(sim)	6.690	88	6735	0.985	ppbv	83
98] cis-1,3-Dichloropropen...	7.333	75	13343	0.701	ppbv	94
99] 1,1,2-Trichloroethane(...	7.850	97	22868	1.037	ppbv	93
100] Dibromochloromethane(sim)	8.334	129	36843	1.046	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.501	107	42720	1.056	ppbv	97
102] Tetrachloroethene(sim)	8.841	166	33740	1.029	ppbv	94
104] Bromoform(sim)	9.685	173	37764	1.139	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.309	131	29614	1.092	ppbv	100
106] m, p-Xylene(sim)	9.677	91	124991	2.178	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.930	83	57751	1.121	ppbv#	97
110] Benzyl chloride(sim)	10.892	91	38964	1.108	ppbv	94
111] 1,3-Dichlorobenzene(sim)	10.895	146	60076	1.108	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.930	146	48161	1.050	ppbv	96
113] sec-Butylbenzene(sim)	10.965	105	116937	1.117	ppbv	93
114] 4-Isopropyltoluene(sim)	11.043	119	91060	1.101	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.095	146	58565	1.104	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_11.D
Acq On : 23 Feb 2016 2:32 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1.0 ppb
ALS Vial : 8 Sample Multiplier: 1

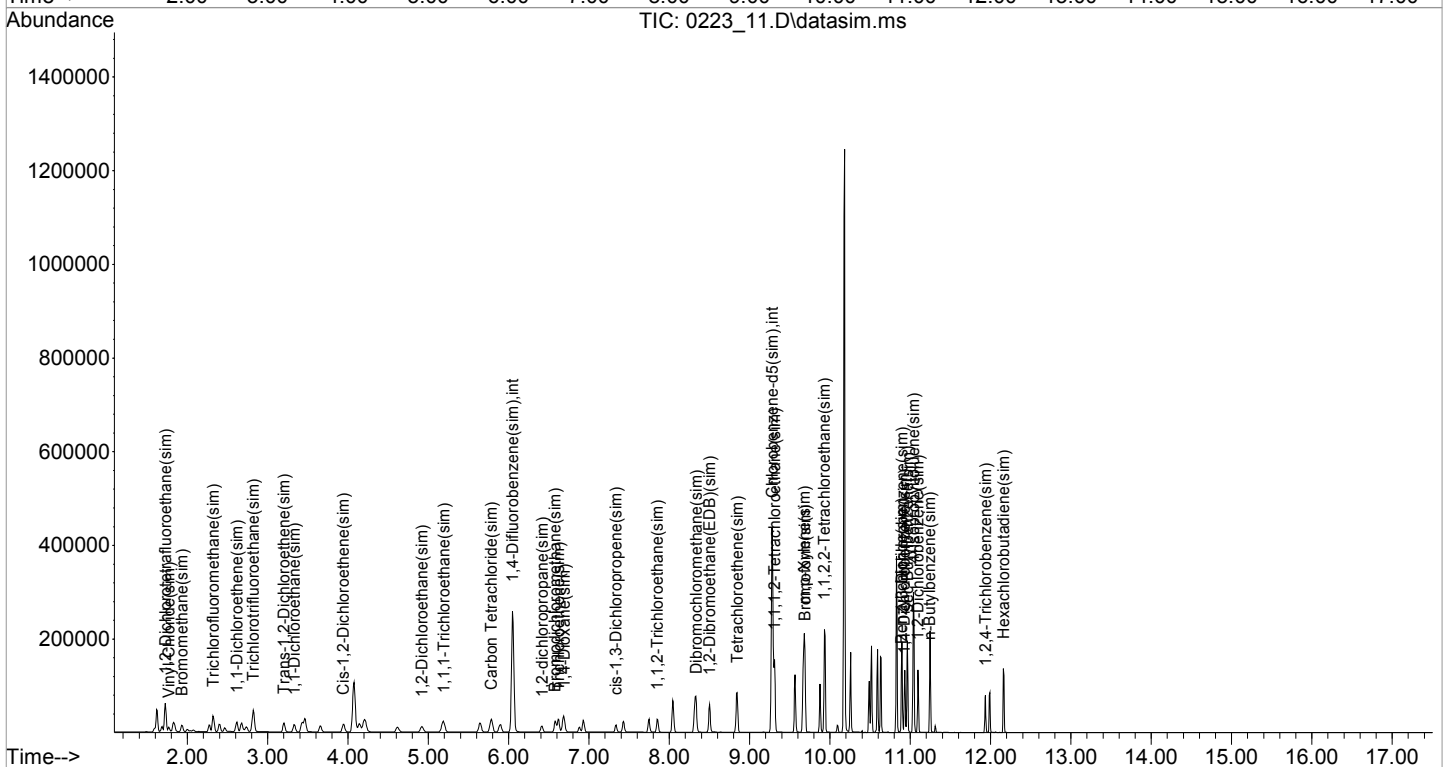
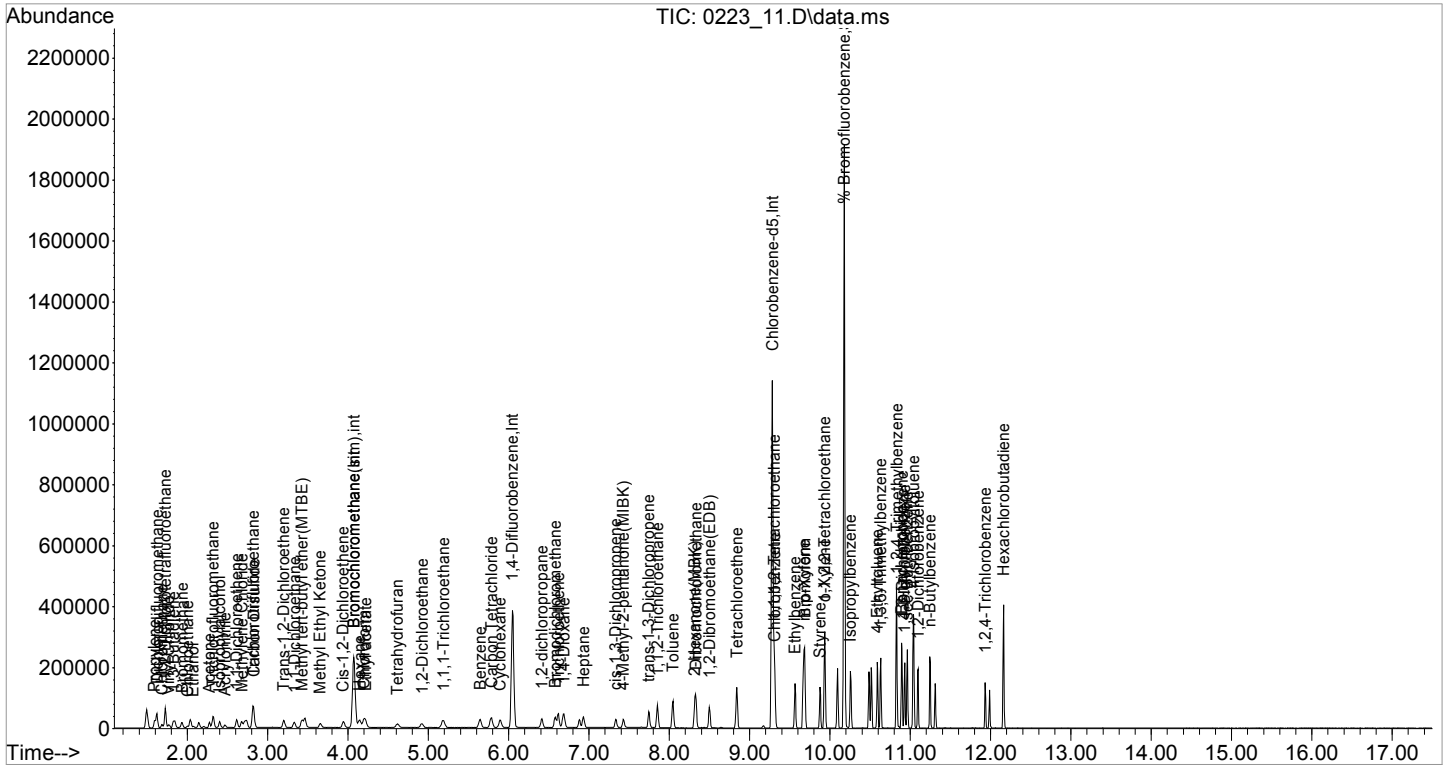
Quant Time: Feb 24 09:12:03 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.243	91	75204	1.124	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.936	180	31448	1.081	ppbv	99
119] Hexachlorobutadiene(sim)	12.160	225	51369	0.984	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_11.D
Acq On : 23 Feb 2016 2:32 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1.0 ppb
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 09:12:03 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_12.D
 Acq On : 23 Feb 2016 3:05 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 15:33:29 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:33:24 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	110443	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	372338	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	260039	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	110443	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	408441	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	293191	10.000	ng	0.00

System Monitoring Compounds

62) % Bromofluorobenzene	10.178	95	355689	10.016	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.20%		

Target Compounds

					Qvalue	
2) Propylene	1.588	41	32742	2.579	ppbv	99
3) Dichlorodifluoromethane	1.622	85	104239	2.537	ppbv#	97
4) Chloromethane	1.681	52	8367	2.518	ppbv#	43
5) 1,2-Dichlorotetrafluor...	1.723	85	64924	2.353	ppbv#	81
6) Vinyl Chloride	1.766	62	23996	2.569	ppbv	95
7) 1,3-Butadiene	1.825	54	17286	2.653	ppbv#	70
8) Bromomethane	1.927	94	28721	2.564	ppbv	98
9) Chloroethane	2.003	64	10813	2.653	ppbv	95
10) Ethanol	2.071	45	8983	2.525	ppbv	99
12) Acetone	2.266	43	41977	2.560	ppbv	95
13) Trichlorofluoromethane	2.316	101	78755	2.601	ppbv	99
14) Isopropylalcohol	2.393	45	52672	2.518	ppbv	97
15) Acrylonitrile	2.460	53	16669	2.582	ppbv	99
16) 1,1-Dichloroethene	2.613	61	41303	2.541	ppbv	90
17) Methylene Chloride	2.672	49	30877	2.560	ppbv	96
20) Carbon Disulfide	2.825	76	62791	2.541	ppbv	98
21) Trichlorotrifluoroethane	2.816	101	60036	2.579	ppbv#	86
22) Trans-1,2-Dichloroethene	3.198	61	34938	2.566	ppbv	89
23) 1,1-Dichloroethane	3.331	63	46562	2.550	ppbv	99
24) Methyl tert-butyl ethe...	3.411	73	64702	2.544	ppbv	97
25) Methyl Ethyl Ketone	3.638	43	50003	2.613	ppbv	93
26) Cis-1,2-Dichloroethene	3.945	61	33756	2.519	ppbv	87
27) Hexane	4.145	57	32161	2.579	ppbv#	82
28) Chloroform	4.198	83	57472	2.548	ppbv	96
29) Ethyl acetate	4.211	43	55007	2.522	ppbv	95
30) Tetrahydrofuran	4.605	42	26435	2.525	ppbv	86
31) 1,2-Dichloroethane	4.915	62	38428	2.470	ppbv	96
32) 1,1,1-Trichloroethane	5.182	97	62147	2.604	ppbv	95
33) Benzene	5.639	78	71766	2.475	ppbv	99
34) Carbon Tetrachloride	5.779	117	67191	2.614	ppbv	99
35) Cyclohexane	5.899	56	33387	2.472	ppbv#	90
37) 1,2-dichloropropane	6.413	63	27349	2.674	ppbv#	89
38) Bromodichloromethane	6.580	83	55679	2.564	ppbv	96
39) Trichloroethene	6.613	130	39869	2.475	ppbv	92
41) 1,4-Dioxane	6.680	88	16944	2.707	ppbv	84
43) Heptane	6.927	71	18824	2.411	ppbv	96
44) cis-1,3-Dichloropropene	7.333	75	33851	2.539	ppbv	96
45) 4-Methyl-2-pentanone(M...	7.420	43	47015	2.706	ppbv	95
46) trans-1,3-Dichloropropene	7.744	75	63047	2.690	ppbv	98
47) 1,1,2-Trichloroethane	7.854	97	52500	2.573	ppbv	94
48) Toluene	8.046	91	133917	2.519	ppbv	96
49) Dibromochloromethane	8.334	129	100042	2.718	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_12.D
 Acq On : 23 Feb 2016 3:05 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 15:33:29 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:33:24 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.313	43	103762	2.606	ppbv#	98
51) 1,2-Dibromoethane(EDB)	8.498	107	94380	2.550	ppbv	96
52) Tetrachloroethene	8.841	166	86648	2.570	ppbv	93
54) 1,1,1,2-Tetrachloroethane	9.306	131	67522	2.577	ppbv	98
55) Chlorobenzene	9.313	112	118186	2.476	ppbv	91
56) Ethylbenzene	9.564	91	188206	2.496	ppbv	94
57) m, p-Xylene	9.677	91	311206	6.163	ppbv	91
58) Bromoform	9.685	173	106706	2.798	ppbv	99
59) Styrene	9.874	104	110182	2.454	ppbv#	82
60) 1,1,2,2-Tetrachloroethane	9.935	83	127073	2.480	ppbv	93
61) o-Xylene	9.935	91	151694	2.517	ppbv	92
64) Isopropylbenzene	10.253	105	200635	2.519	ppbv	93
66) 4-Ethyltoluene	10.589	105	212122	2.509	ppbv	94
67) 1,3,5-Trimethylbenzene	10.632	105	180231	2.473	ppbv	91
68) 1,2,4-Trimethylbenzene	10.832	105	181703	2.502	ppbv	91
70) Benzyl chloride	10.892	91	121853	3.071	ppbv#	94
71) 1,3-Dichlorobenzene	10.897	146	130940	2.600	ppbv	96
72) 1,4-Dichlorobenzene	10.930	146	126724	2.605	ppbv	95
73) sec-Butylbenzene	10.962	105	254947	2.520	ppbv#	92
74) 4-Isopropyltoluene	11.043	119	230940	2.511	ppbv	91
75) 1,2-Dichlorobenzene	11.097	146	122899	2.524	ppbv	95
76) n-Butylbenzene	11.243	91	197254	2.597	ppbv#	94
77) 1,2,4-Trichlorobenzene	11.933	180	72355	2.909	ppbv	98
79) Hexachlorobutadiene	12.162	225	103252	2.472	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	69585	2.336	ppbv#	82
82] Vinyl Chloride(sim)	1.766	62	23996	2.569	ppbv	95
83] Bromomethane(sim)	1.930	94	30490	2.611	ug/l	99
84] Trichlorofluoromethane...	2.316	101	78755	2.601	ppbv	99
85] Trans-1,2-Dichloroethe...	3.201	61	37725	2.522	ppbv	88
86] 1,1-Dichloroethene(sim)	2.613	61	41303	2.541	ppbv	90
87] 1,1-Dichloroethane(sim)	3.327	63	50029	2.547	ppbv	99
88] Cis-1,2-Dichloroethene...	3.945	61	33756	2.519	ppbv	87
89] 1,2-Dichloroethane(sim)	4.918	62	41913	2.549	ppbv	96
90] 1,1,1-Trichloroethane(...	5.182	97	62147	2.604	ppbv#	95
91] Carbon Tetrachloride(sim)	5.782	117	71540	2.648	ppbv	100
92] Trichlorotrifluoroetha...	2.816	101	60036	2.579	ppbv	99
94] 1,2-dichloropropane(sim)	6.413	63	27349	2.669	ppbv#	89
95] Bromodichloromethane(sim)	6.576	83	60984	2.608	ppbv	96
96] Trichloroethene(sim)	6.613	130	39869	2.471	ppbv	93
97] 1,4-Dioxane(sim)	6.676	88	18095	2.684	ppbv	82
98] cis-1,3-Dichloropropen...	7.333	75	33851	2.534	ppbv	96
99] 1,1,2-Trichloroethane(...	7.850	97	59449	2.597	ppbv	93
100] Dibromochloromethane(sim)	8.334	129	100042	2.713	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.501	107	107291	2.511	ppbv	97
102] Tetrachloroethene(sim)	8.841	166	86648	2.565	ppbv	93
104] Bromoform(sim)	9.685	173	106493	2.793	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.309	131	78498	2.625	ppbv	100
106] m, p-Xylene(sim)	9.677	91	311212	4.932	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.930	83	144536	2.479	ppbv#	97
110] Benzyl chloride(sim)	10.892	91	121853	3.127	ppbv	94
111] 1,3-Dichlorobenzene(sim)	10.895	146	158360	2.610	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.930	146	126724	2.606	ppbv	95
113] sec-Butylbenzene(sim)	10.965	105	292471	2.501	ppbv	93
114] 4-Isopropyltoluene(sim)	11.043	119	230940	2.512	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.095	146	149141	2.522	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_12.D
Acq On : 23 Feb 2016 3:05 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5 ppb
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 15:33:29 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:33:24 2016
Response via : Initial Calibration

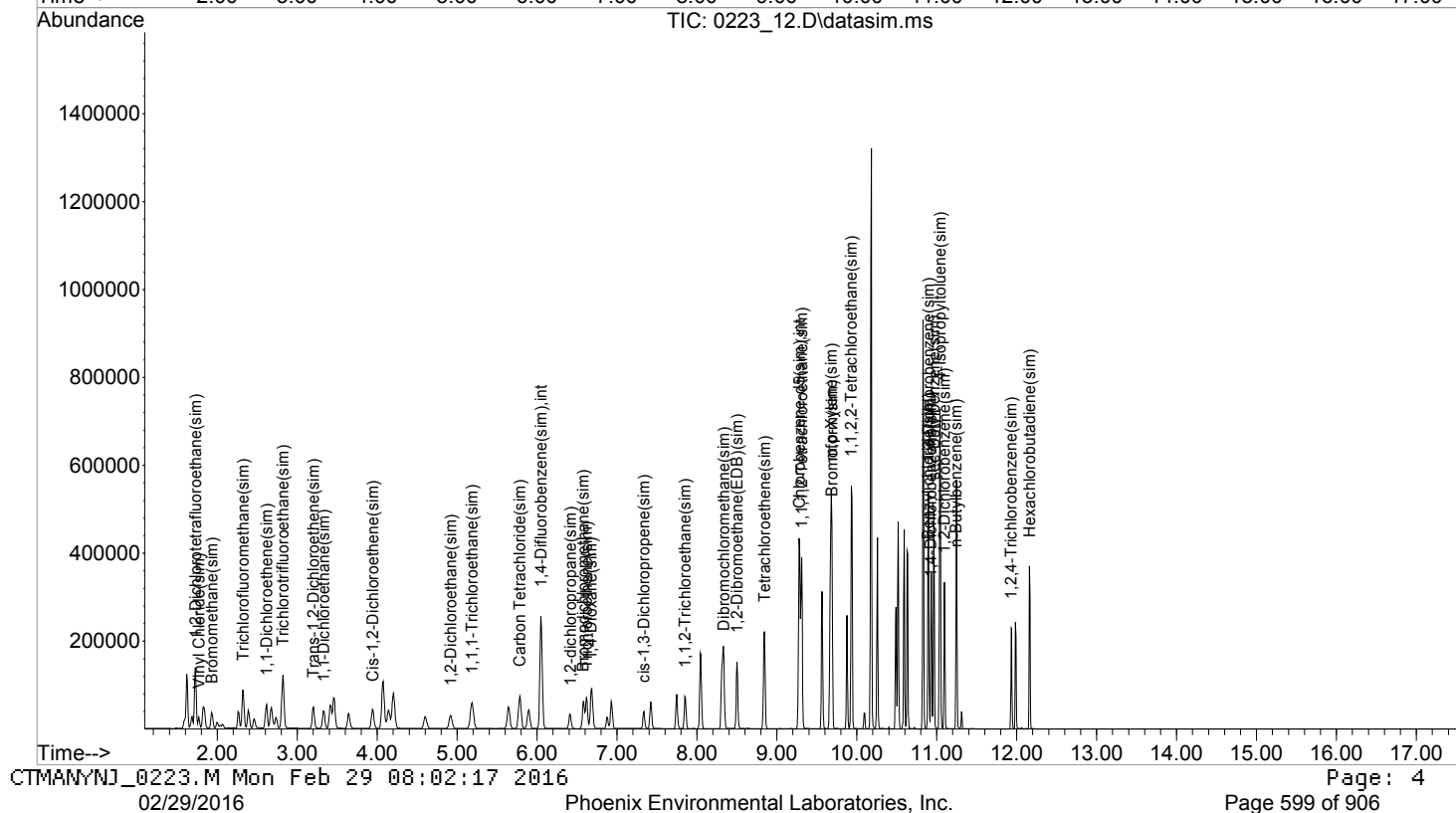
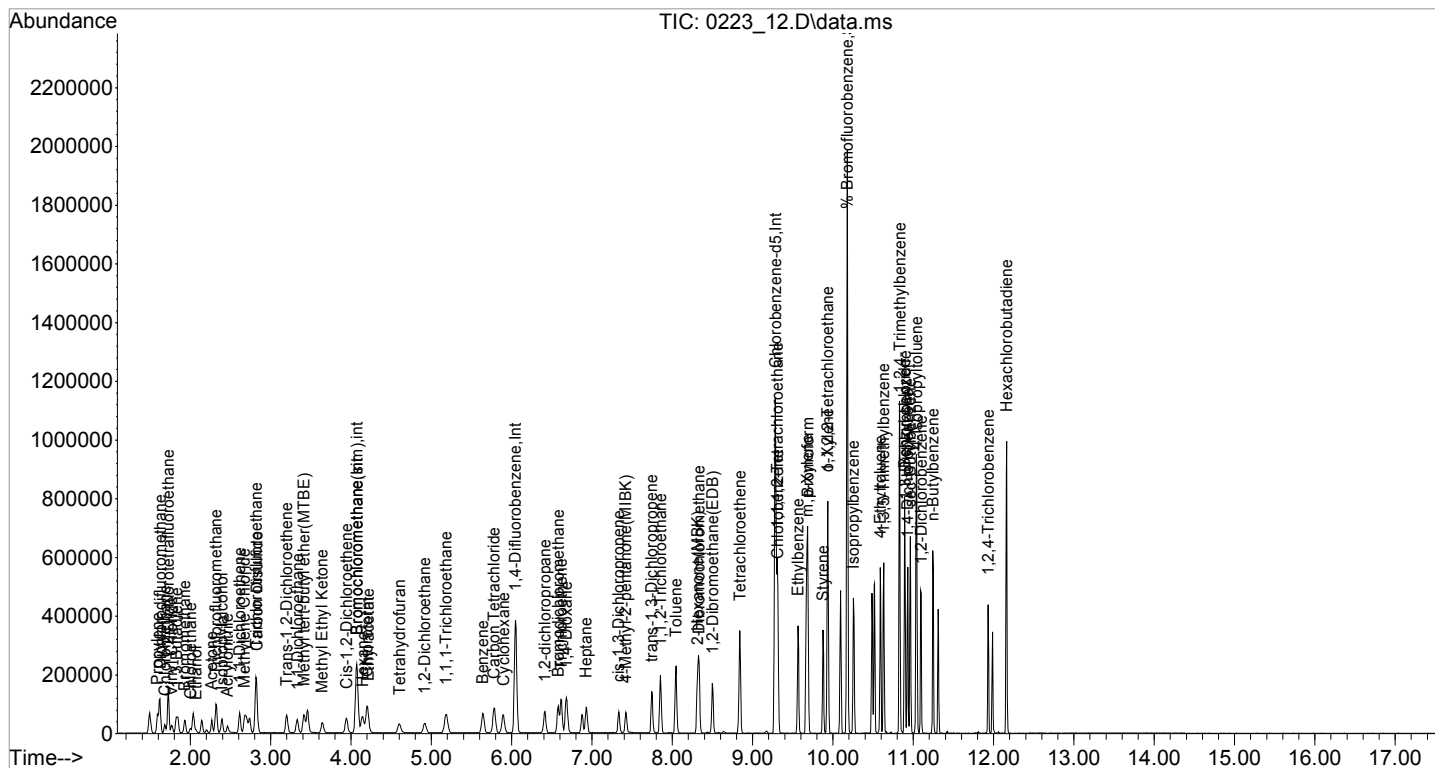
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.243	91	197254	2.598	ppbv	94
117] 1,2,4-Trichlorobenzene...	11.931	180	92235	2.905	ppbv	99
119] Hexachlorobutadiene(sim)	12.160	225	129708	2.501	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(Not Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_12.D
Acq On : 23 Feb 2016 3:05 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5 ppb
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 15:33:29 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:33:24 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_13.D
 Acq On : 23 Feb 2016 3:33 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0 ppb
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 23 15:58:34 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:38:29 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	110699	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	369793	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	258528	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	110699	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	404734	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	290861	10.000	ng	0.00

System Monitoring Compounds

62) % Bromofluorobenzene	10.178	95	351730	9.929	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.30%	

Target Compounds

					Qvalue	
2) Propylene	1.588	41	58476	4.558	ppbv	98
3) Dichlorodifluoromethane	1.622	85	203735	4.984	ppbv	98
4) Chloromethane	1.681	52	15121	4.988	ppbv	96
5) 1,2-Dichlorotetrafluor...	1.723	85	129895	4.931	ppbv#	80
6) Vinyl Chloride	1.766	62	45542	4.948	ppbv	98
7) 1,3-Butadiene	1.825	54	31587	4.716	ppbv#	73
8) Bromomethane	1.927	94	54112	4.640	ppbv	98
9) Chloroethane	2.003	64	20039	5.110	ppbv	95
10) Ethanol	2.062	45	12833	3.268	ppbv	95
12) Acetone	2.257	43	70456	3.859	ppbv	93
13) Trichlorofluoromethane	2.316	101	142669	4.771	ppbv	98
14) Isopropylalcohol	2.384	45	64240	2.837	ppbv	92
15) Acrylonitrile	2.460	53	30752	4.707	ppbv	99
16) 1,1-Dichloroethene	2.613	61	76960	4.839	ppbv	87
17) Methylene Chloride	2.672	49	57429	4.744	ppbv	99
20) Carbon Disulfide	2.816	76	120870	5.100	ppbv	98
21) Trichlorotrifluoroethane	2.816	101	108051	4.694	ppbv#	86
22) Trans-1,2-Dichloroethene	3.198	61	67665	5.150	ppbv	89
23) 1,1-Dichloroethane	3.331	63	87825	4.923	ppbv	99
24) Methyl tert-butyl ethe...	3.405	73	113050	4.522	ppbv	97
25) Methyl Ethyl Ketone	3.638	43	83530	4.256	ppbv	94
26) Cis-1,2-Dichloroethene	3.945	61	65463	5.020	ppbv	87
27) Hexane	4.145	57	59468	4.663	ppbv#	83
28) Chloroform	4.198	83	110782	4.878	ppbv	97
29) Ethyl acetate	4.205	43	95929	4.356	ppbv	96
30) Tetrahydrofuran	4.591	42	42472	3.900	ppbv	89
31) 1,2-Dichloroethane	4.922	62	73793	4.985	ppbv	97
32) 1,1,1-Trichloroethane	5.182	97	115738	4.948	ppbv	95
33) Benzene	5.646	78	134891	4.695	ppbv	99
34) Carbon Tetrachloride	5.779	117	125927	4.928	ppbv	99
35) Cyclohexane	5.892	56	62213	4.450	ppbv#	91
37) 1,2-dichloropropane	6.413	63	50909	4.839	ppbv	90
38) Bromodichloromethane	6.580	83	107197	5.130	ppbv	96
39) Trichloroethene	6.620	130	76513	4.884	ppbv	91
41) 1,4-Dioxane	6.667	88	24422	3.965	ppbv	87
43) Heptane	6.933	71	36658	4.316	ppbv	91
44) cis-1,3-Dichloropropene	7.333	75	66292	4.100	ppbv	96
45) 4-Methyl-2-pentanone(M...	7.420	43	67418	2.818	ppbv#	96
46) trans-1,3-Dichloropropene	7.744	75	119406	5.122	ppbv	98
47) 1,1,2-Trichloroethane	7.854	97	91840	4.455	ppbv	96
48) Toluene	8.046	91	241727	4.585	ppbv	96
49) Dibromochloromethane	8.334	129	187036	5.133	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_13.D
 Acq On : 23 Feb 2016 3:33 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0 ppb
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 23 15:58:34 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 15:38:29 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.306	43	161712	4.063	ppbv#	98
51) 1,2-Dibromoethane(EDB)	8.498	107	175352	4.803	ppbv	97
52) Tetrachloroethene	8.841	166	156526	4.607	ppbv	93
54) 1,1,1,2-Tetrachloroethane	9.306	131	122588	4.848	ppbv	99
55) Chlorobenzene	9.313	112	211572	4.548	ppbv	90
56) Ethylbenzene	9.564	91	334984	4.601	ppbv	94
57) m, p-Xylene	9.677	91	546842	9.621	ppbv	92
58) Bromoform	9.685	173	197782	5.524	ppbv	100
59) Styrene	9.874	104	198227	4.742	ppbv#	81
60) 1,1,2,2-Tetrachloroethane	9.935	83	214228	4.320	ppbv	92
61) o-Xylene	9.935	91	259940	4.410	ppbv	93
64) Isopropylbenzene	10.253	105	331014	4.301	ppbv	93
66) 4-Ethyltoluene	10.589	105	382632	4.755	ppbv	93
67) 1,3,5-Trimethylbenzene	10.632	105	332379	4.778	ppbv	92
68) 1,2,4-Trimethylbenzene	10.832	105	340188	4.951	ppbv	91
70) Benzyl chloride	10.892	91	232977	6.113	ppbv#	93
71) 1,3-Dichlorobenzene	10.897	146	245555	5.091	ppbv	95
72) 1,4-Dichlorobenzene	10.930	146	235388	4.978	ppbv	95
73) sec-Butylbenzene	10.962	105	455325	4.673	ppbv#	92
74) 4-Isopropyltoluene	11.043	119	421377	4.808	ppbv	91
75) 1,2-Dichlorobenzene	11.097	146	234396	5.042	ppbv	95
76) n-Butylbenzene	11.243	91	367008	5.012	ppbv#	93
77) 1,2,4-Trichlorobenzene	11.933	180	149298	6.292	ppbv	98
79) Hexachlorobutadiene	12.162	225	219086	5.380	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	139222	5.325	ppbv#	81
82] Vinyl Chloride(sim)	1.766	62	45542	5.176	ppbv	98
83] Bromomethane(sim)	1.930	94	56382	4.981	ug/l	99
84] Trichlorofluoromethane...	2.316	101	142669	5.126	ppbv	99
85] Trans-1,2-Dichloroethe...	3.201	61	73068	5.043	ppbv	88
86] 1,1-Dichloroethene(sim)	2.613	61	76960	4.806	ppbv	87
87] 1,1-Dichloroethane(sim)	3.327	63	94231	4.954	ppbv	99
88] Cis-1,2-Dichloroethene...	3.945	61	65463	4.735	ppbv	87
89] 1,2-Dichloroethane(sim)	4.918	62	80049	4.996	ppbv	96
90] 1,1,1-Trichloroethane(...	5.182	97	115738	4.955	ppbv#	95
91] Carbon Tetrachloride(sim)	5.782	117	134059	5.190	ppbv	100
92] Trichlorotrifluoroetha...	2.816	101	108051	5.040	ppbv	99
94] 1,2-dichloropropane(sim)	6.413	63	50909	4.706	ppbv	90
95] Bromodichloromethane(sim)	6.576	83	115998	4.668	ppbv	96
96] Trichloroethene(sim)	6.620	130	76513	4.123	ppbv	93
97] 1,4-Dioxane(sim)	6.676	88	26161	3.666	ppbv	87
98] cis-1,3-Dichloropropen...	7.333	75	66292	3.452	ppbv	96
99] 1,1,2-Trichloroethane(...	7.850	97	106452	4.849	ppbv	93
100] Dibromochloromethane(sim)	8.334	129	187036	5.567	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.501	107	200282	4.993	ppbv	96
102] Tetrachloroethene(sim)	8.841	166	156526	4.201	ppbv	93
104] Bromoform(sim)	9.685	173	197688	6.120	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.309	131	140184	5.186	ppbv	100
106] m, p-Xylene(sim)	9.677	91	546937	9.449	ppbv#	92
107] 1,1,2,2-Tetrachloroeth...	9.930	83	240195	4.607	ppbv#	97
110] Benzyl chloride(sim)	10.892	91	232977	6.933	ppbv	93
111] 1,3-Dichlorobenzene(sim)	10.895	146	294193	5.484	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.930	146	235388	5.143	ppbv	95
113] sec-Butylbenzene(sim)	10.965	105	522555	4.983	ppbv	93
114] 4-Isopropyltoluene(sim)	11.043	119	421377	5.098	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.095	146	282379	5.364	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_13.D
Acq On : 23 Feb 2016 3:33 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0 ppb
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 23 15:58:34 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:38:29 2016
Response via : Initial Calibration

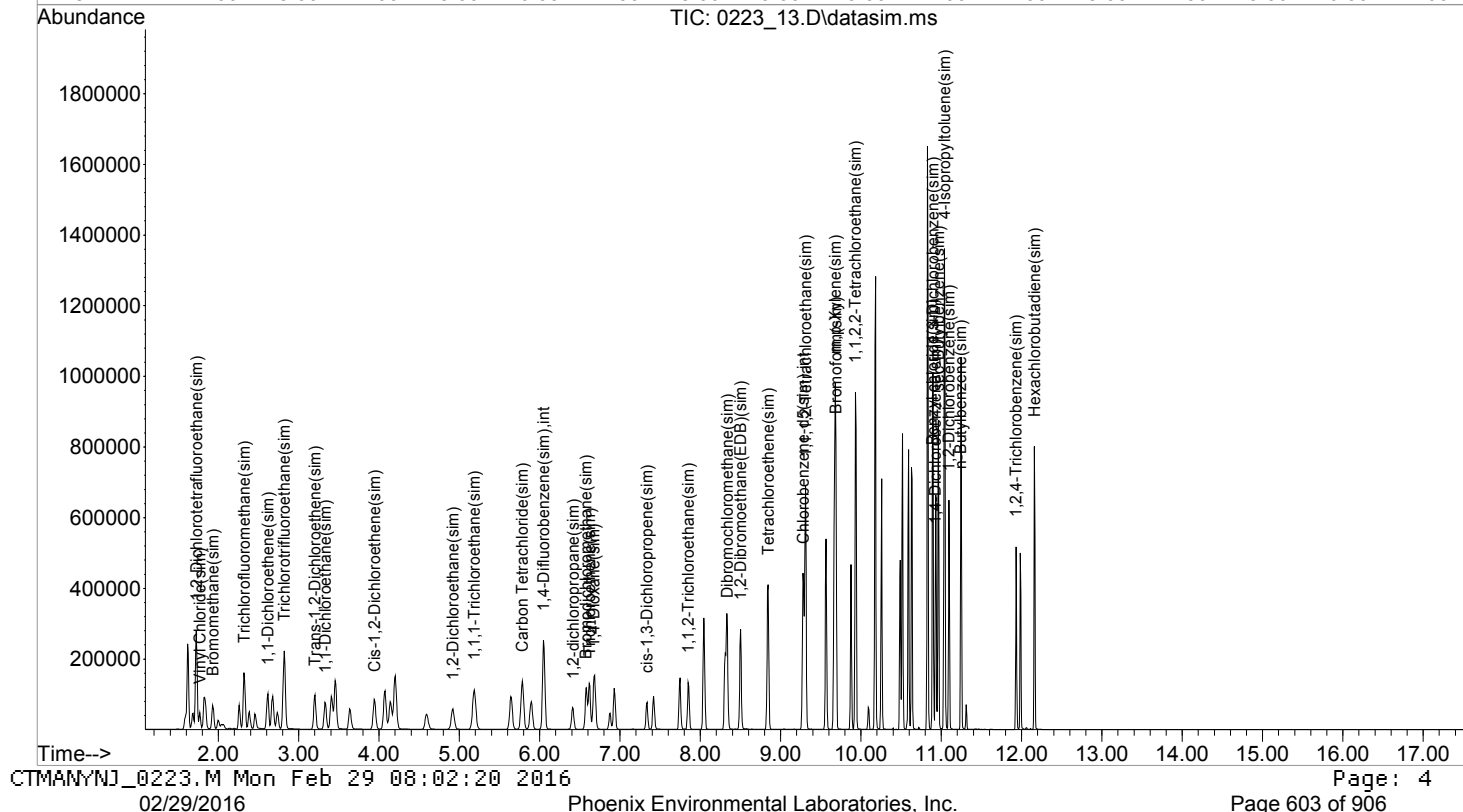
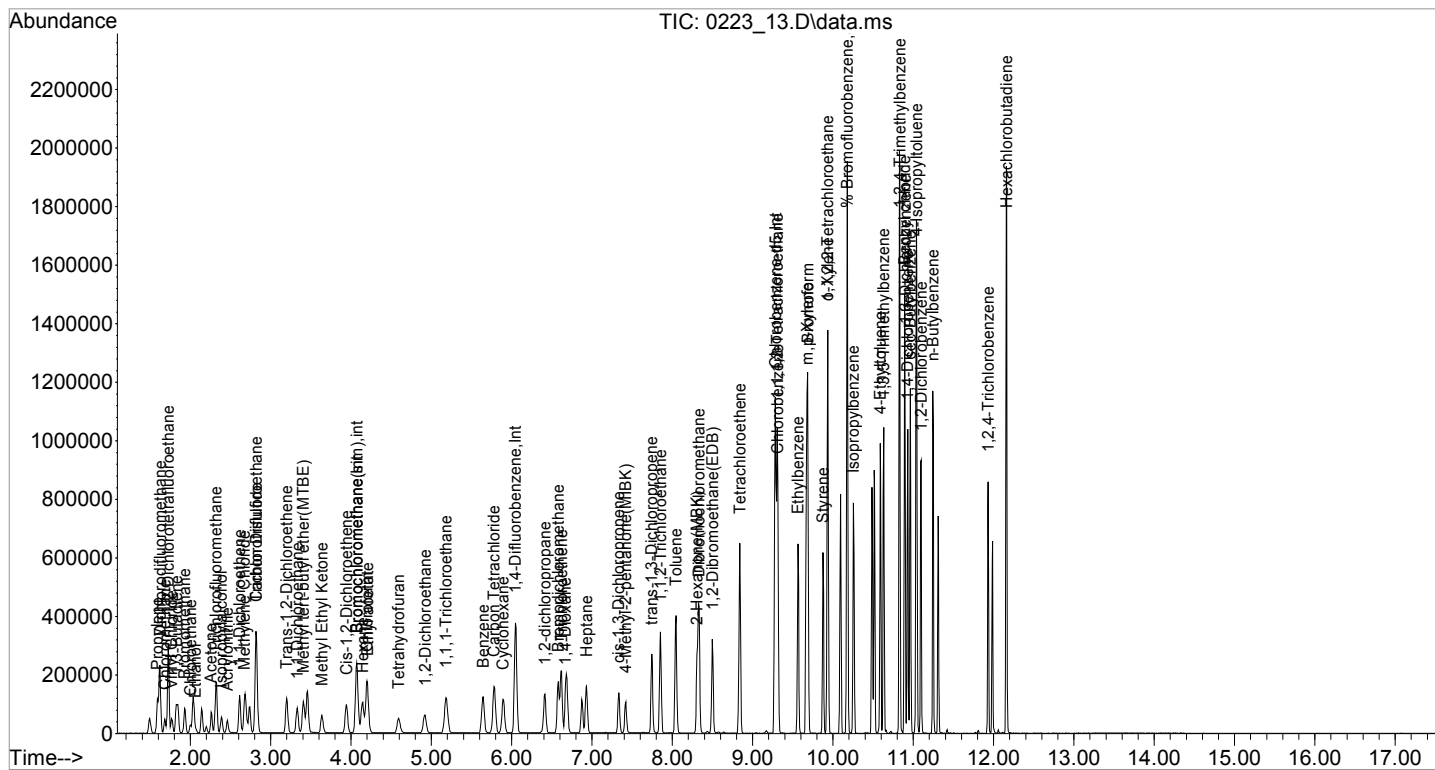
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.243	91	367008	5.551	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.931	180	188934	6.773	ppbv	99
119] Hexachlorobutadiene(sim)	12.160	225	268978	5.163	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(Not Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_13.D
Acq On : 23 Feb 2016 3:33 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0 ppb
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 23 15:58:34 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 15:38:29 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_14.D
 Acq On : 23 Feb 2016 4:02 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 09:12:31 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.071	130	108531	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.046	114	364351	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	262318	10.000	ng	0.00
80) Bromochloromethane(sim)	4.071	130	108531	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.049	114	401894	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.278	82	294026	10.000	ng	# 0.00

System Monitoring Compounds

62) % Bromofluorobenzene	10.178	95	346344	9.951	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.50%	

Target Compounds

					Qvalue	
2) Propylene	1.588	41	116804	9.567	ppbv	99
3) Dichlorodifluoromethane	1.622	85	389891	10.026	ppbv	97
4) Chloromethane	1.681	52	29202	9.786	ppbv#	88
5) 1,2-Dichlorotetrafluor...	1.723	85	262185	10.718	ppbv#	82
6) Vinyl Chloride	1.766	62	89211	9.939	ppbv	99
7) 1,3-Butadiene	1.825	54	64080	9.982	ppbv#	77
8) Bromomethane	1.927	94	101950	9.369	ppbv	99
9) Chloroethane	2.003	64	38657	10.035	ppbv	96
10) Ethanol	2.062	45	30509	9.043	ppbv	95
12) Acetone	2.257	43	146580	9.130	ppbv	92
13) Trichlorofluoromethane	2.316	101	287112	9.986	ppbv	99
14) Isopropylalcohol	2.376	45	166184	8.811	ppbv	94
15) Acrylonitrile	2.460	53	62781	9.980	ppbv	98
16) 1,1-Dichloroethene	2.613	61	153041	9.994	ppbv	88
17) Methylene Chloride	2.672	49	111455	9.770	ppbv	98
20) Carbon Disulfide	2.816	76	239345	10.261	ppbv	98
21) Trichlorotrifluoroethane	2.816	101	214478	9.805	ppbv#	86
22) Trans-1,2-Dichloroethene	3.198	61	133419	10.278	ppbv	87
23) 1,1-Dichloroethane	3.331	63	171461	9.983	ppbv	99
24) Methyl tert-butyl ethe...	3.398	73	230540	9.750	ppbv	95
25) Methyl Ethyl Ketone	3.631	43	184417	9.996	ppbv	94
26) Cis-1,2-Dichloroethene	3.945	61	128621	10.068	ppbv	87
27) Hexane	4.145	57	116819	9.708	ppbv#	84
28) Chloroform	4.198	83	217750	9.986	ppbv	97
29) Ethyl acetate	4.191	43	204054	9.766	ppbv	96
30) Tetrahydrofuran	4.578	42	102001	10.092	ppbv#	85
31) 1,2-Dichloroethane	4.915	62	146352	10.115	ppbv	97
32) 1,1,1-Trichloroethane	5.182	97	225903	9.875	ppbv	95
33) Benzene	5.646	78	270188	9.882	ppbv	99
34) Carbon Tetrachloride	5.779	117	253150	10.020	ppbv	99
35) Cyclohexane	5.892	56	118715	9.218	ppbv#	91
37) 1,2-dichloropropane	6.413	63	101004	9.889	ppbv	90
38) Bromodichloromethane	6.580	83	221186	10.408	ppbv	96
39) Trichloroethene	6.620	130	151105	9.925	ppbv	91
41) 1,4-Dioxane	6.660	88	60792	10.222	ppbv	83
43) Heptane	6.933	71	72652	9.994	ppbv	92
44) cis-1,3-Dichloropropene	7.333	75	135655	10.231	ppbv	95
45) 4-Methyl-2-pentanone(M...	7.413	43	161072	9.759	ppbv#	96
46) trans-1,3-Dichloropropene	7.744	75	248420	10.494	ppbv	98
47) 1,1,2-Trichloroethane	7.853	97	190112	9.723	ppbv	95
48) Toluene	8.045	91	477534	9.608	ppbv	96
49) Dibromochloromethane	8.334	129	398288	10.471	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_14.D
 Acq On : 23 Feb 2016 4:02 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 09:12:31 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.306	43	394058	10.424	ppbv#	99
51) 1,2-Dibromoethane(EDB)	8.498	107	353741	9.953	ppbv	96
52) Tetrachloroethene	8.841	166	327417	9.761	ppbv	92
54) 1,1,1,2-Tetrachloroethane	9.306	131	256743	10.175	ppbv	98
55) Chlorobenzene	9.313	112	431666	9.850	ppbv	88
56) Ethylbenzene	9.563	91	678907	9.785	ppbv	94
57) m, p-Xylene	9.677	91	1124007	20.717	ppbv	91
58) Bromoform	9.685	173	473495	11.562	ppbv	99
59) Styrene	9.874	104	424356	10.321	ppbv#	81
60) 1,1,2,2-Tetrachloroethane	9.935	83	447262	9.889	ppbv	92
61) o-Xylene	9.935	91	538623	9.882	ppbv	93
64) Isopropylbenzene	10.253	105	726829	9.947	ppbv	93
66) 4-Ethyltoluene	10.589	105	807699	10.359	ppbv	93
67) 1,3,5-Trimethylbenzene	10.632	105	668805	10.034	ppbv	91
68) 1,2,4-Trimethylbenzene	10.832	105	679895	10.380	ppbv	90
70) Benzyl chloride	10.892	91	545874	12.269	ppbv#	92
71) 1,3-Dichlorobenzene	10.897	146	522674	10.576	ppbv	95
72) 1,4-Dichlorobenzene	10.929	146	526213	10.707	ppbv	95
73) sec-Butylbenzene	10.962	105	931169	10.063	ppbv#	92
74) 4-Isopropyltoluene	11.043	119	864847	10.359	ppbv	90
75) 1,2-Dichlorobenzene	11.097	146	502541	10.456	ppbv	94
76) n-Butylbenzene	11.243	91	742980	10.344	ppbv#	93
77) 1,2,4-Trichlorobenzene	11.933	180	363831	11.762	ppbv	98
79) Hexachlorobutadiene	12.162	225	508120	11.301	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	278600	10.768	ppbv#	82
82] Vinyl Chloride(sim)	1.766	62	89211	10.297	ppbv	99
83] Bromomethane(sim)	1.929	94	108259	9.759	ug/l	100
84] Trichlorofluoromethane...	2.316	101	287112	10.490	ppbv	99
85] Trans-1,2-Dichloroethe...	3.201	61	145501	10.232	ppbv	88
86] 1,1-Dichloroethene(sim)	2.613	61	153041	9.796	ppbv	88
87] 1,1-Dichloroethane(sim)	3.327	63	185311	9.949	ppbv	99
88] Cis-1,2-Dichloroethene...	3.945	61	128621	9.552	ppbv	87
89] 1,2-Dichloroethane(sim)	4.918	62	159345	10.144	ppbv	96
90] 1,1,1-Trichloroethane(...	5.182	97	225903	9.876	ppbv#	95
91] Carbon Tetrachloride(sim)	5.782	117	270243	10.621	ppbv	100
92] Trichlorotrifluoroetha...	2.816	101	214478	10.195	ppbv	99
94] 1,2-dichloropropane(sim)	6.413	63	101004	9.472	ppbv	90
95] Bromodichloromethane(sim)	6.583	83	238058	9.728	ppbv	96
96] Trichloroethene(sim)	6.620	130	151105	9.086	ppbv	93
97] 1,4-Dioxane(sim)	6.663	88	64997	9.655	ppbv#	81
98] cis-1,3-Dichloropropen...	7.333	75	135655	7.237	ppbv	95
99] 1,1,2-Trichloroethane(...	7.856	97	216799	9.983	ppbv	93
100] Dibromochloromethane(sim)	8.334	129	398288	11.487	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.501	107	403765	10.138	ppbv	96
102] Tetrachloroethene(sim)	8.841	166	327319	10.138	ppbv	92
104] Bromoform(sim)	9.685	173	473495	14.106	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.309	131	299641	10.915	ppbv	100
106] m, p-Xylene(sim)	9.677	91	1126243	19.381	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.930	83	492754	9.443	ppbv#	96
110] Benzyl chloride(sim)	10.892	91	545076	15.305	ppbv	92
111] 1,3-Dichlorobenzene(sim)	10.900	146	622106	11.334	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.929	146	525725	11.322	ppbv	95
113] sec-Butylbenzene(sim)	10.965	105	1052609	9.933	ppbv	92
114] 4-Isopropyltoluene(sim)	11.043	119	864847	10.325	ppbv	90
115] 1,2-Dichlorobenzene(sim)	11.095	146	600951	11.191	ppbv	96

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_14.D
Acq On : 23 Feb 2016 4:02 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 11 Sample Multiplier: 1

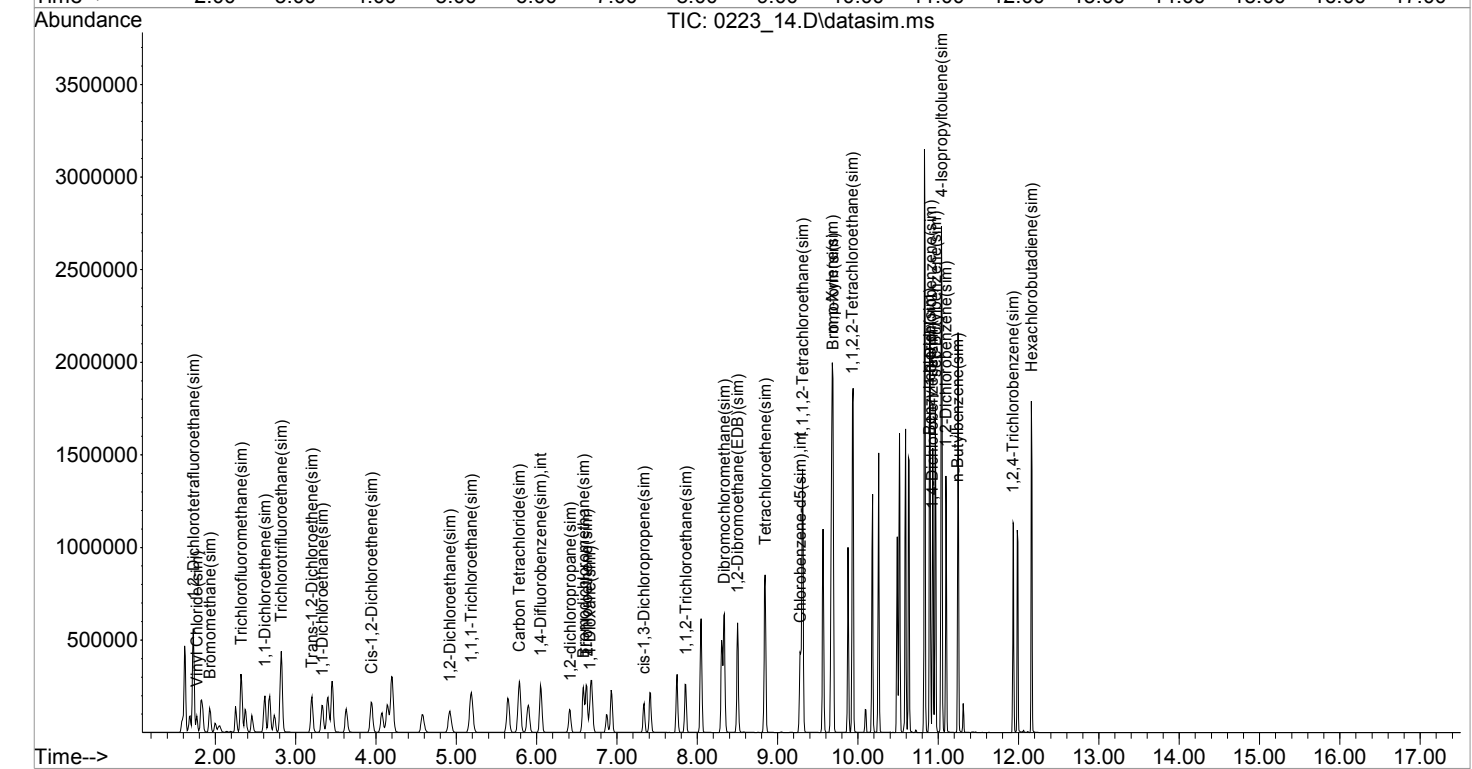
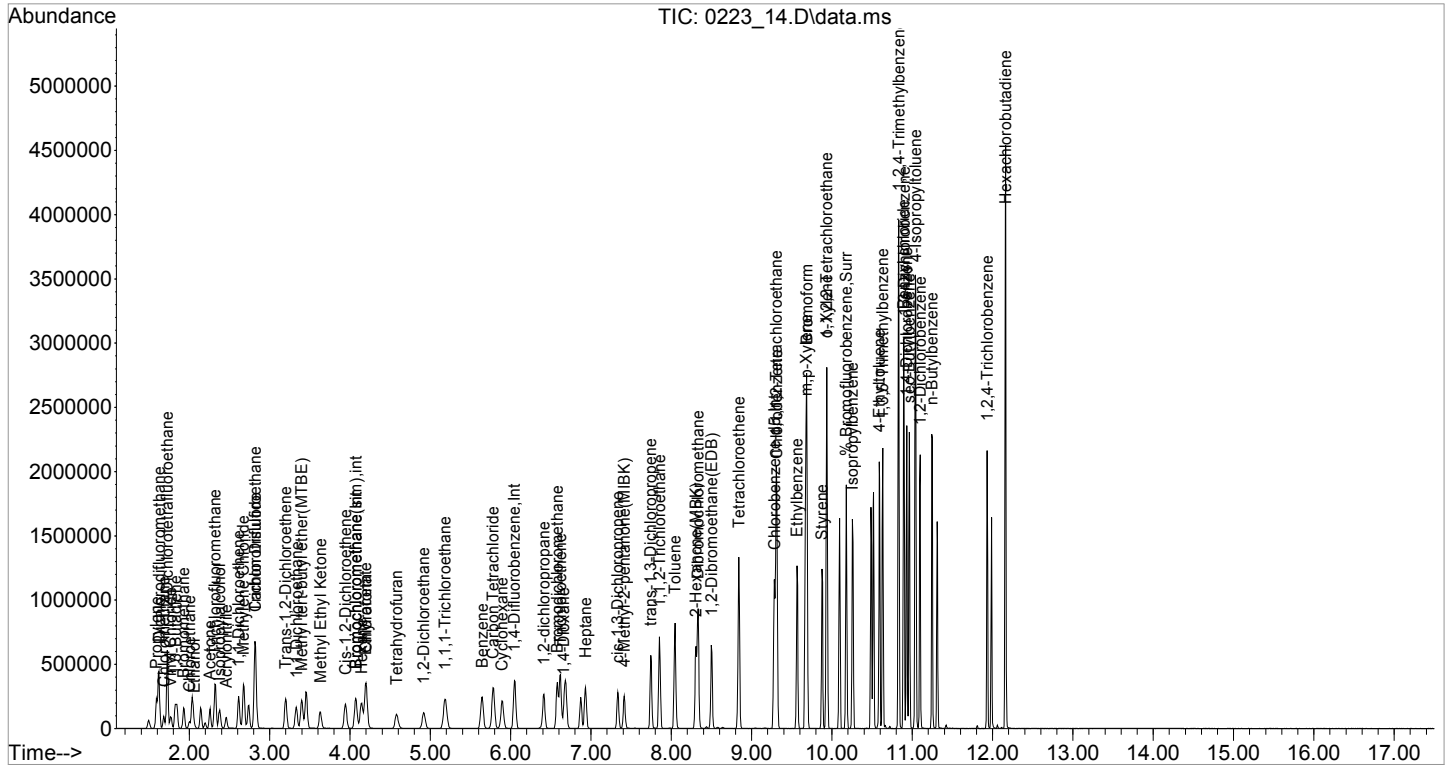
Quant Time: Feb 24 09:12:31 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.243	91	742980	10.966	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.931	180	449270	15.256	ppbv	98
119] Hexachlorobutadiene(sim)	12.160	225	601978	11.384	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_14.D
Acq On : 23 Feb 2016 4:02 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 09:12:31 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_15.D
 Acq On : 23 Feb 2016 4:34 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25ppb
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 23 19:18:10 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 19:18:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.078	130	108369	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.053	114	359467	10.000	ng	0.00
53) Chlorobenzene-d5	9.283	82	277425	10.000	ng	0.00
80) Bromochloromethane(sim)	4.078	130	108369	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.056	114	395425	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.286	82	311467	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.178	95	343408	9.100	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	91.00%	

Target Compounds						Qvalue
2) Propylene	1.588	41	313552	25.647	ppbv	99
3) Dichlorodifluoromethane	1.622	85	958968	24.085	ppbv#	97
4) Chloromethane	1.681	52	77633	26.248	ppbv	92
5) 1,2-Dichlorotetrafluor...	1.723	85	573697	22.241	ppbv#	81
6) Vinyl Chloride	1.766	62	230162	25.637	ppbv	98
7) 1,3-Butadiene	1.825	54	160716	24.847	ppbv#	78
8) Bromomethane	1.927	94	264065	23.845	ppbv	99
9) Chloroethane	2.003	64	97681	25.328	ppbv	96
10) Ethanol	2.054	45	78771	22.573	ppbv	95
12) Acetone	2.249	43	364875	21.910	ppbv	93
13) Trichlorofluoromethane	2.316	101	726720	25.102	ppbv	99
14) Isopropylalcohol	2.367	45	425984	21.692	ppbv	92
15) Acrylonitrile	2.452	53	158809	25.158	ppbv	99
16) 1,1-Dichloroethene	2.613	61	382560	24.779	ppbv	88
17) Methylene Chloride	2.672	49	277411	23.856	ppbv	98
20) Carbon Disulfide	2.816	76	598143	25.565	ppbv	99
21) Trichlorotrifluoroethane	2.816	101	549701	24.854	ppbv#	86
22) Trans-1,2-Dichloroethene	3.198	61	331105	25.464	ppbv	87
23) 1,1-Dichloroethane	3.331	63	424722	24.463	ppbv	98
24) Methyl tert-butyl ethe...	3.391	73	591630	24.815	ppbv	95
25) Methyl Ethyl Ketone	3.624	43	464560	24.983	ppbv	94
26) Cis-1,2-Dichloroethene	3.945	61	328969	25.726	ppbv	87
27) Hexane	4.145	57	295739	24.226	ppbv	85
28) Chloroform	4.205	83	543673	24.645	ppbv	97
29) Ethyl acetate	4.191	43	541620	25.917	ppbv	95
30) Tetrahydrofuran	4.571	42	244512	23.994	ppbv	90
31) 1,2-Dichloroethane	4.922	62	367637	25.346	ppbv	97
32) 1,1,1-Trichloroethane	5.189	97	595057	26.098	ppbv	95
33) Benzene	5.646	78	680451	24.611	ppbv	99
34) Carbon Tetrachloride	5.786	117	669405	26.778	ppbv	99
35) Cyclohexane	5.899	56	312149	23.773	ppbv	91
37) 1,2-dichloropropane	6.413	63	253585	25.038	ppbv#	87
38) Bromodichloromethane	6.580	83	558080	27.022	ppbv	96
39) Trichloroethene	6.620	130	378661	25.049	ppbv	90
41) 1,4-Dioxane	6.653	88	157796	27.288	ppbv#	80
43) Heptane	6.933	71	178019	22.571	ppbv	92
44) cis-1,3-Dichloropropene	7.333	75	345856	23.281	ppbv	96
45) 4-Methyl-2-pentanone(M...	7.413	43	418850	20.597	ppbv#	96
46) trans-1,3-Dichloropropene	7.751	75	621111	26.934	ppbv	96
47) 1,1,2-Trichloroethane	7.853	97	481672	24.751	ppbv	93
48) Toluene	8.045	91	1194440	23.962	ppbv	95
49) Dibromochloromethane	8.334	129	1054677	29.118	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_15.D
 Acq On : 23 Feb 2016 4:34 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25ppb
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 23 19:18:10 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 19:18:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.306	43	948118	25.273	ppbv#	98
51) 1,2-Dibromoethane(EDB)	8.505	107	885359	25.181	ppbv	95
52) Tetrachloroethene	8.841	166	883065	27.193	ppbv	90
54) 1,1,1,2-Tetrachloroethane	9.306	131	676652	25.062	ppbv	99
55) Chlorobenzene	9.313	112	1050661	21.682	ppbv	86
56) Ethylbenzene	9.571	91	1740143	22.887	ppbv	93
57) m, p-Xylene	9.677	91	2635165	43.665	ppbv	89
58) Bromoform	9.692	173	1317436	32.106	ppbv	99
59) Styrene	9.882	104	1051183	23.634	ppbv#	80
60) 1,1,2,2-Tetrachloroethane	9.935	83	1044178	20.465	ppbv#	90
61) o-Xylene	9.935	91	1285352	21.087	ppbv	91
64) Isopropylbenzene	10.261	105	1845890	23.156	ppbv#	92
66) 4-Ethyltoluene	10.594	105	1955815	22.878	ppbv	92
67) 1,3,5-Trimethylbenzene	10.632	105	1642938	22.370	ppbv#	90
68) 1,2,4-Trimethylbenzene	10.832	105	1553979	21.199	ppbv#	88
70) Benzyl chloride	10.892	91	1416943	31.340	ppbv#	89
71) 1,3-Dichlorobenzene	10.897	146	1375589	26.200	ppbv#	94
72) 1,4-Dichlorobenzene	10.935	146	1392692	27.031	ppbv	94
73) sec-Butylbenzene	10.967	105	2265750	22.126	ppbv#	90
74) 4-Isopropyltoluene	11.043	119	2014657	21.660	ppbv#	88
75) 1,2-Dichlorobenzene	11.097	146	1361148	26.955	ppbv	93
76) n-Butylbenzene	11.249	91	1823617	23.199	ppbv#	90
77) 1,2,4-Trichlorobenzene	11.933	180	1124158	39.130	ppbv	97
79) Hexachlorobutadiene	12.162	225	1401942	30.527	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	614825	23.799	ppbv#	82
82] Vinyl Chloride(sim)	1.766	62	230162	26.606	ppbv	98
83] Bromomethane(sim)	1.929	94	281346	25.400	ug/l	100
84] Trichlorofluoromethane...	2.316	101	726720	26.590	ppbv	100
85] Trans-1,2-Dichloroethe...	3.201	61	360477	25.388	ppbv	88
86] 1,1-Dichloroethene(sim)	2.613	61	382560	24.525	ppbv	88
87] 1,1-Dichloroethane(sim)	3.334	63	459361	24.700	ppbv	99
88] Cis-1,2-Dichloroethene...	3.945	61	328969	24.468	ppbv	87
89] 1,2-Dichloroethane(sim)	4.925	62	397584	25.349	ppbv	96
90] 1,1,1-Trichloroethane(...	5.189	97	595080	26.054	ppbv#	95
91] Carbon Tetrachloride(sim)	5.782	117	709723	27.934	ppbv	100
92] Trichlorotrifluoroetha...	2.816	101	549701	26.167	ppbv	99
94] 1,2-dichloropropane(sim)	6.413	63	253585	24.170	ppbv#	87
95] Bromodichloromethane(sim)	6.583	83	603098	25.047	ppbv	96
96] Trichloroethene(sim)	6.620	130	378661	21.352	ppbv	92
97] 1,4-Dioxane(sim)	6.656	88	167464	25.284	ppbv#	80
98] cis-1,3-Dichloropropen...	7.333	75	345856	19.178	ppbv	96
99] 1,1,2-Trichloroethane(...	7.856	97	543744	25.447	ppbv	92
100] Dibromochloromethane(sim)	8.334	129	1054137	31.667	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.501	107	997855	25.465	ppbv	96
102] Tetrachloroethene(sim)	8.841	166	883065	24.751	ppbv	90
104] Bromoform(sim)	9.692	173	1316897	37.034	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.309	131	760567	26.153	ppbv	100
106] m, p-Xylene(sim)	9.677	91	2637570	42.846	ppbv#	89
107] 1,1,2,2-Tetrachloroeth...	9.938	83	1129239	20.428	ppbv#	95
110] Benzyl chloride(sim)	10.892	91	1418440	37.599	ppbv	89
111] 1,3-Dichlorobenzene(sim)	10.900	146	1566421	26.941	ppbv	95
112] 1,4-Dichlorobenzene(sim)	10.935	146	1393524	28.331	ppbv	94
113] sec-Butylbenzene(sim)	10.965	105	2496623	22.241	ppbv	91
114] 4-Isopropyltoluene(sim)	11.043	119	2014657	22.705	ppbv#	88
115] 1,2-Dichlorobenzene(sim)	11.100	146	1583079	27.831	ppbv	95

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_15.D
Acq On : 23 Feb 2016 4:34 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 12 Sample Multiplier: 1

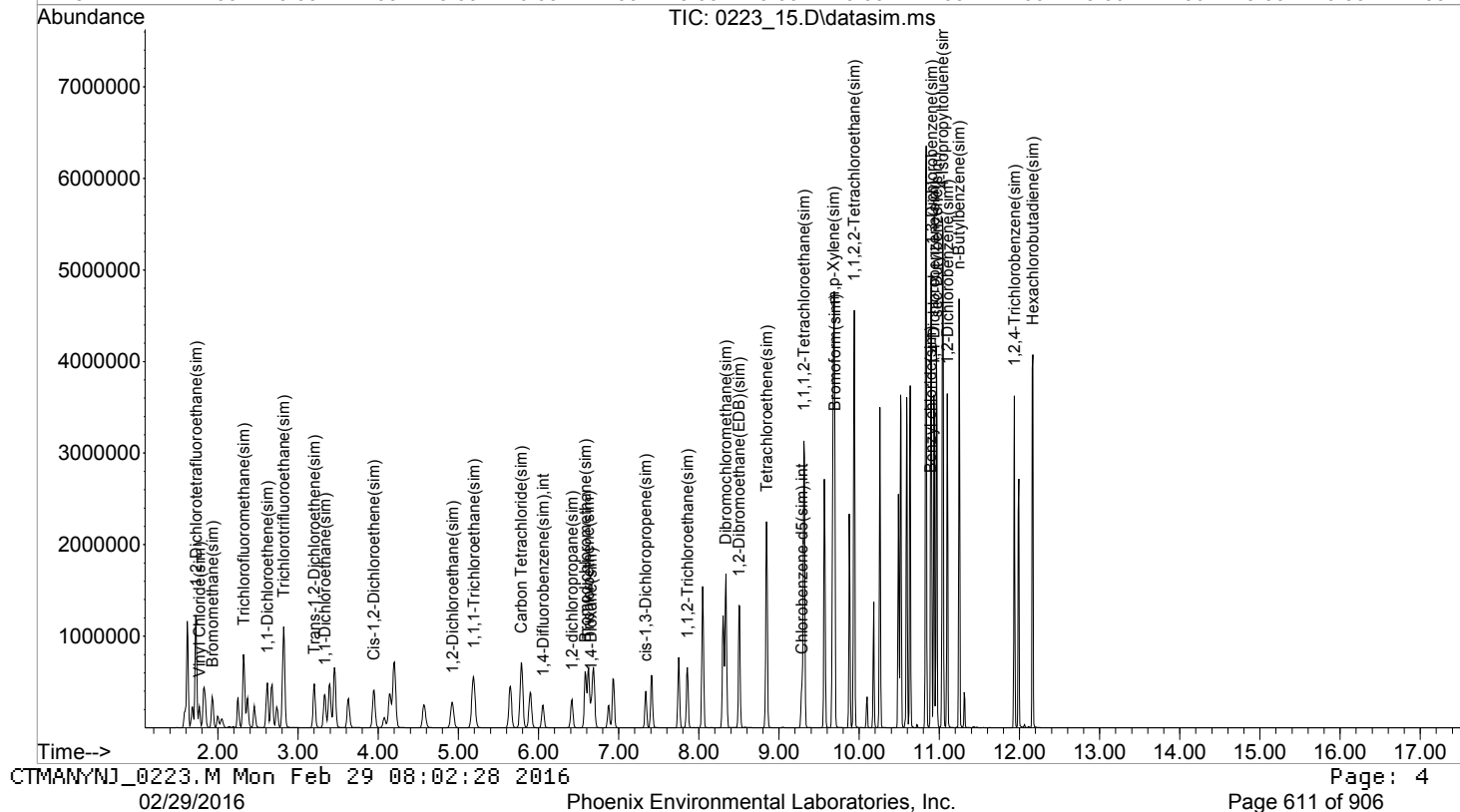
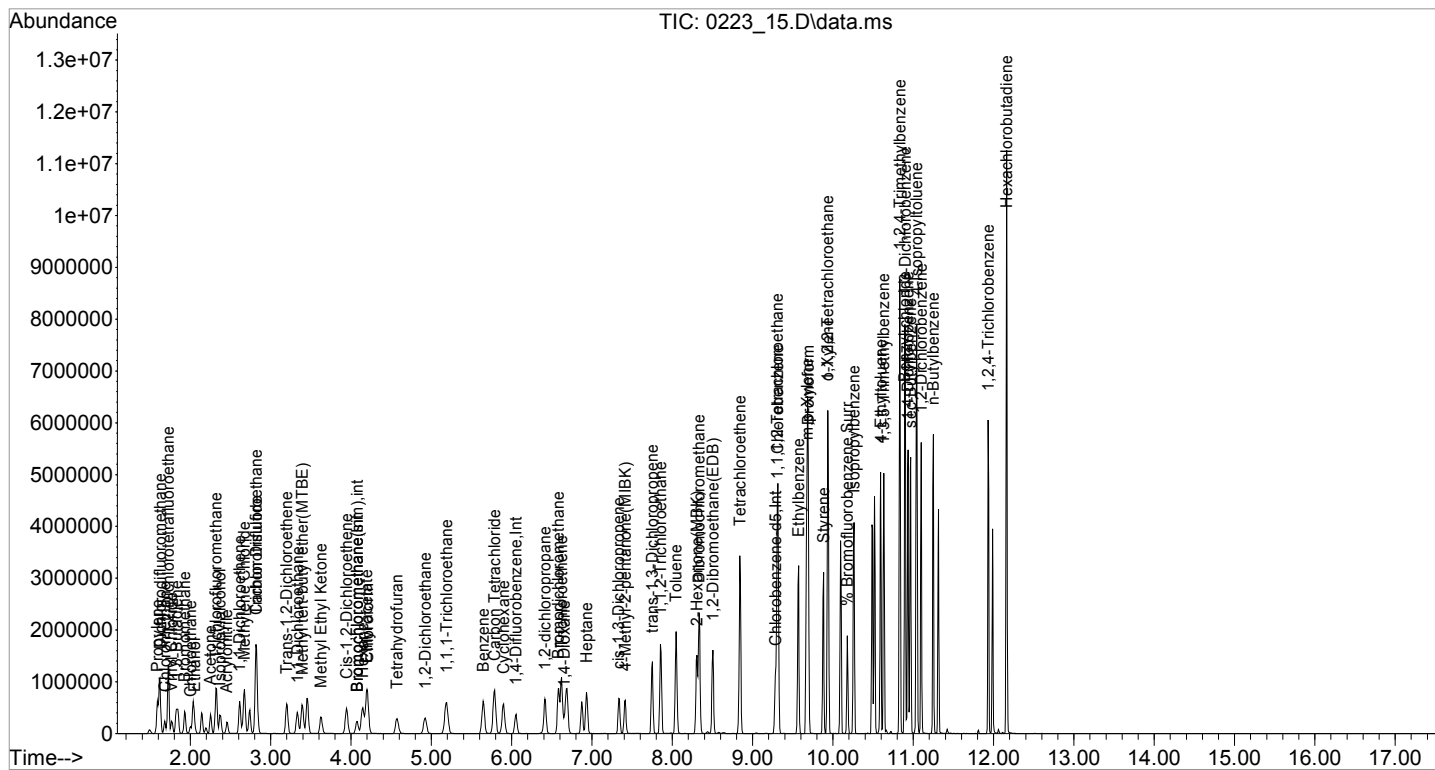
Quant Time: Feb 23 19:18:10 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 19:18:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.249	91	1823617	25.408	ppbv	90
117] 1,2,4-Trichlorobenzene...	11.936	180	1337399	42.871	ppbv	97
119] Hexachlorobutadiene(sim)	12.165	225	1562385	27.892	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_15.D
Acq On : 23 Feb 2016 4:34 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 23 19:18:10 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 19:18:03 2016
Response via : Initial Calibration



Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_16.D
 Acq On : 23 Feb 2016 5:09 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40ppb
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 19:18:22 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 19:18:17 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.078	130	115921	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.053	114	373449	10.000	ng	0.00
53) Chlorobenzene-d5	9.290	82	298166	10.000	ng	0.00
80) Bromochloromethane(sim)	4.078	130	115921	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.056	114	409372	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.286	82	333632	10.000	ng	# 0.00

System Monitoring Compounds

62) % Bromofluorobenzene	10.177	95	362333	9.050	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	90.50%	

Target Compounds

					Qvalue	
2) Propylene	1.588	41	497582	37.909	ppbv	99
3) Dichlorodifluoromethane	1.613	85	1428554	33.718	ppbv#	97
4) Chloromethane	1.681	52	127759	40.095	ppbv#	57
5) 1,2-Dichlorotetrafluor...	1.723	85	757205	27.883	ppbv#	82
6) Vinyl Chloride	1.766	62	369098	38.294	ppbv	97
7) 1,3-Butadiene	1.825	54	258471	37.389	ppbv#	79
8) Bromomethane	1.927	94	424178	36.046	ppbv	99
9) Chloroethane	2.003	64	159375	38.561	ppbv	97
10) Ethanol	2.054	45	122467	33.269	ppbv	94
12) Acetone	2.248	43	587604	33.579	ppbv	93
13) Trichlorofluoromethane	2.316	101	1150947	37.143	ppbv	99
14) Isopropylalcohol	2.367	45	675899	32.795	ppbv	92
15) Acrylonitrile	2.452	53	257792	38.144	ppbv	99
16) 1,1-Dichloroethene	2.613	61	615640	37.326	ppbv	87
17) Methylene Chloride	2.672	49	438899	35.517	ppbv	98
20) Carbon Disulfide	2.816	76	942235	37.527	ppbv	99
21) Trichlorotrifluoroethane	2.816	101	857556	36.278	ppbv#	86
22) Trans-1,2-Dichloroethene	3.198	61	531793	38.132	ppbv	87
23) 1,1-Dichloroethane	3.331	63	686171	37.061	ppbv	98
24) Methyl tert-butyl ethe...	3.391	73	948361	37.225	ppbv	94
25) Methyl Ethyl Ketone	3.624	43	736480	37.030	ppbv	94
26) Cis-1,2-Dichloroethene	3.945	61	520596	37.902	ppbv	86
27) Hexane	4.145	57	472717	36.361	ppbv	86
28) Chloroform	4.205	83	859363	36.492	ppbv	97
29) Ethyl acetate	4.191	43	849656	37.810	ppbv	96
30) Tetrahydrofuran	4.571	42	419702	38.725	ppbv#	86
31) 1,2-Dichloroethane	4.929	62	592074	38.084	ppbv	97
32) 1,1,1-Trichloroethane	5.189	97	947329	38.600	ppbv	95
33) Benzene	5.646	78	1082065	36.669	ppbv	99
34) Carbon Tetrachloride	5.786	117	1071492	39.668	ppbv	99
35) Cyclohexane	5.899	56	496599	35.606	ppbv	91
37) 1,2-dichloropropane	6.420	63	403126	38.305	ppbv	92
38) Bromodichloromethane	6.586	83	893457	41.165	ppbv	96
39) Trichloroethene	6.620	130	595140	37.885	ppbv	91
41) 1,4-Dioxane	6.653	88	246540	40.508	ppbv#	80
43) Heptane	6.933	71	283625	35.102	ppbv#	92
44) cis-1,3-Dichloropropene	7.340	75	553645	36.229	ppbv	95
45) 4-Methyl-2-pentanone(M...	7.413	43	654638	31.786	ppbv#	96
46) trans-1,3-Dichloropropene	7.750	75	981758	40.531	ppbv	96
47) 1,1,2-Trichloroethane	7.860	97	760248	37.656	ppbv	93
48) Toluene	8.052	91	1888328	36.681	ppbv	95
49) Dibromochloromethane	8.340	129	1691800	43.925	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
 Data File : 0223_16.D
 Acq On : 23 Feb 2016 5:09 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40ppb
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 19:18:22 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 19:18:17 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.306	43	1468906	37.631	ppbv#	97
51) 1,2-Dibromoethane(EDB)	8.505	107	1418960	38.806	ppbv	95
52) Tetrachloroethene	8.848	166	1437032	42.067	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.313	131	1050093	36.176	ppbv	98
55) Chlorobenzene	9.321	112	1634713	31.995	ppbv	84
56) Ethylbenzene	9.571	91	2632146	32.605	ppbv	92
57) m, p-Xylene	9.677	91	3804129	59.731	ppbv#	88
58) Bromoform	9.692	173	2046126	44.586	ppbv	98
59) Styrene	9.882	104	1674541	35.306	ppbv#	78
60) 1,1,2,2-Tetrachloroethane	9.935	83	1493344	27.956	ppbv#	88
61) o-Xylene	9.942	91	1892737	29.552	ppbv	90
64) Isopropylbenzene	10.261	105	2841038	33.514	ppbv#	91
66) 4-Ethyltoluene	10.594	105	2945738	32.455	ppbv#	91
67) 1,3,5-Trimethylbenzene	10.637	105	2473589	31.816	ppbv#	89
68) 1,2,4-Trimethylbenzene	10.838	105	2243443	29.108	ppbv#	86
70) Benzyl chloride	10.897	91	2084358	41.396	ppbv#	87
71) 1,3-Dichlorobenzene	10.902	146	2067367	36.388	ppbv#	94
72) 1,4-Dichlorobenzene	10.935	146	2191242	39.118	ppbv#	94
73) sec-Butylbenzene	10.967	105	3346930	30.918	ppbv#	89
74) 4-Isopropyltoluene	11.048	119	2909720	29.673	ppbv#	88
75) 1,2-Dichlorobenzene	11.102	146	2115373	38.546	ppbv#	93
76) n-Butylbenzene	11.248	91	2713297	32.450	ppbv#	89
77) 1,2,4-Trichlorobenzene	11.938	180	1907176	57.152	ppbv	97
79) Hexachlorobutadiene	12.162	225	2097734	41.200	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	806585	29.188	ppbv#	82
82] Vinyl Chloride(sim)	1.766	62	369098	39.887	ppbv	97
83] Bromomethane(sim)	1.929	94	451628	38.117	ug/l	100
84] Trichlorofluoromethane...	2.316	101	1150947	39.369	ppbv	100
85] Trans-1,2-Dichloroethe...	3.201	61	577084	37.996	ppbv	87
86] 1,1-Dichloroethene(sim)	2.613	61	615640	36.896	ppbv	87
87] 1,1-Dichloroethane(sim)	3.334	63	738873	37.140	ppbv	99
88] Cis-1,2-Dichloroethene...	3.945	61	520596	36.199	ppbv	86
89] 1,2-Dichloroethane(sim)	4.925	62	642632	38.303	ppbv	96
90] 1,1,1-Trichloroethane(...	5.189	97	947445	38.778	ppbv#	95
91] Carbon Tetrachloride(sim)	5.789	117	1138397	41.887	ppbv	100
92] Trichlorotrifluoroetha...	2.816	101	857556	38.163	ppbv	99
94] 1,2-dichloropropane(sim)	6.420	63	403126	37.114	ppbv	92
95] Bromodichloromethane(sim)	6.589	83	963198	38.640	ppbv	96
96] Trichloroethene(sim)	6.620	130	595140	32.416	ppbv	92
97] 1,4-Dioxane(sim)	6.656	88	261523	38.140	ppbv#	80
98] cis-1,3-Dichloropropen...	7.340	75	553645	29.654	ppbv	95
99] 1,1,2-Trichloroethane(...	7.856	97	861912	38.964	ppbv	91
100] Dibromochloromethane(sim)	8.340	129	1691139	49.072	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.508	107	1582564	39.011	ppbv	95
102] Tetrachloroethene(sim)	8.848	166	1436656	38.896	ppbv	89
104] Bromoform(sim)	9.692	173	2045126	53.693	ppbv	98
105] 1,1,1,2-Tetrachloroeth...	9.309	131	1163579	37.353	ppbv	100
106] m, p-Xylene(sim)	9.677	91	3806957	57.734	ppbv#	88
107] 1,1,2,2-Tetrachloroeth...	9.938	83	1612000	27.224	ppbv#	95
110] Benzyl chloride(sim)	10.897	91	2084358	51.579	ppbv	87
111] 1,3-Dichlorobenzene(sim)	10.905	146	2350980	37.749	ppbv	95
112] 1,4-Dichlorobenzene(sim)	10.935	146	2190555	41.576	ppbv	94
113] sec-Butylbenzene(sim)	10.970	105	3603744	29.971	ppbv	90
114] 4-Isopropyltoluene(sim)	11.048	119	2909720	30.614	ppbv#	88
115] 1,2-Dichlorobenzene(sim)	11.100	146	2432903	39.929	ppbv	95

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_16.D
Acq On : 23 Feb 2016 5:09 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 19:18:22 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 19:18:17 2016
Response via : Initial Calibration

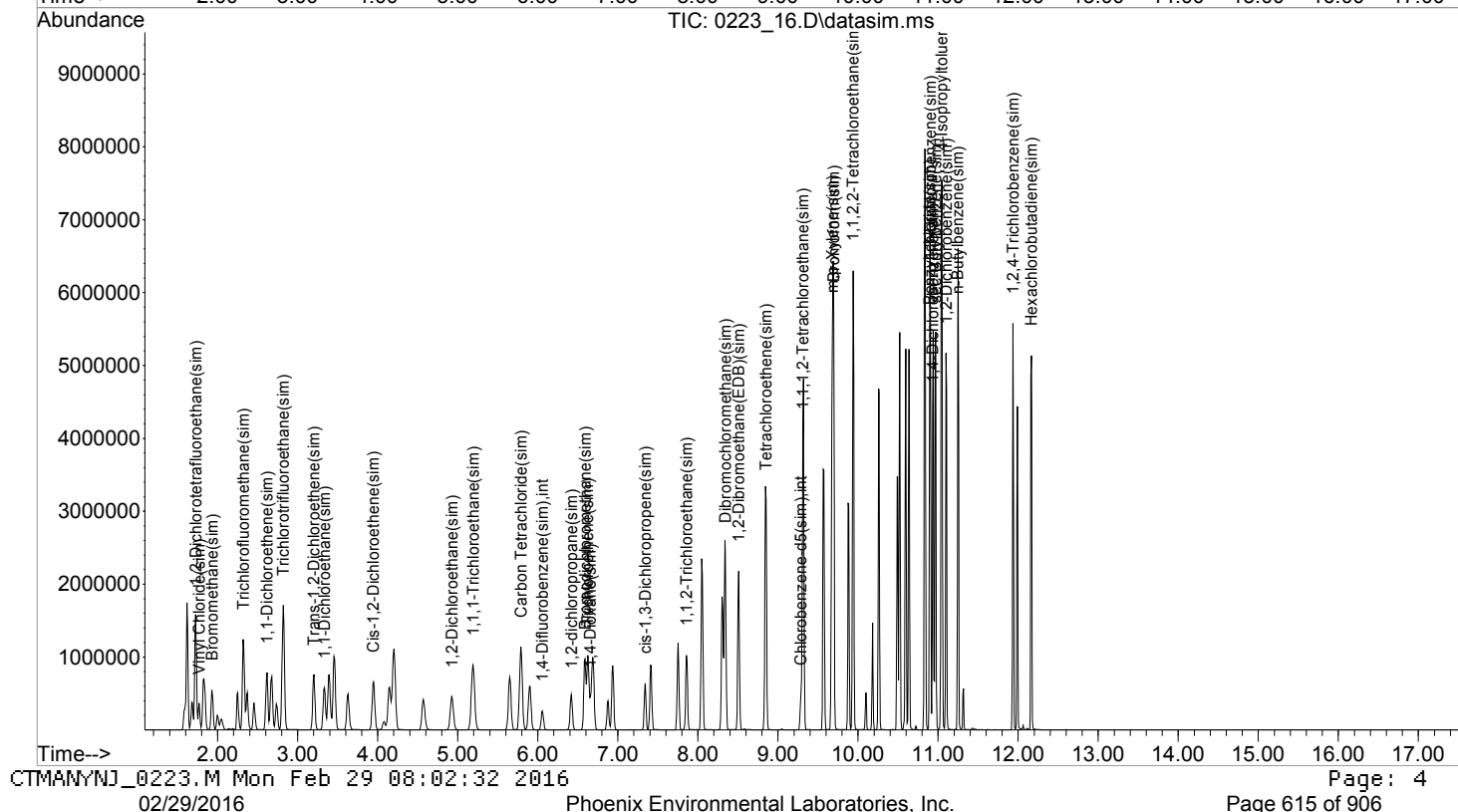
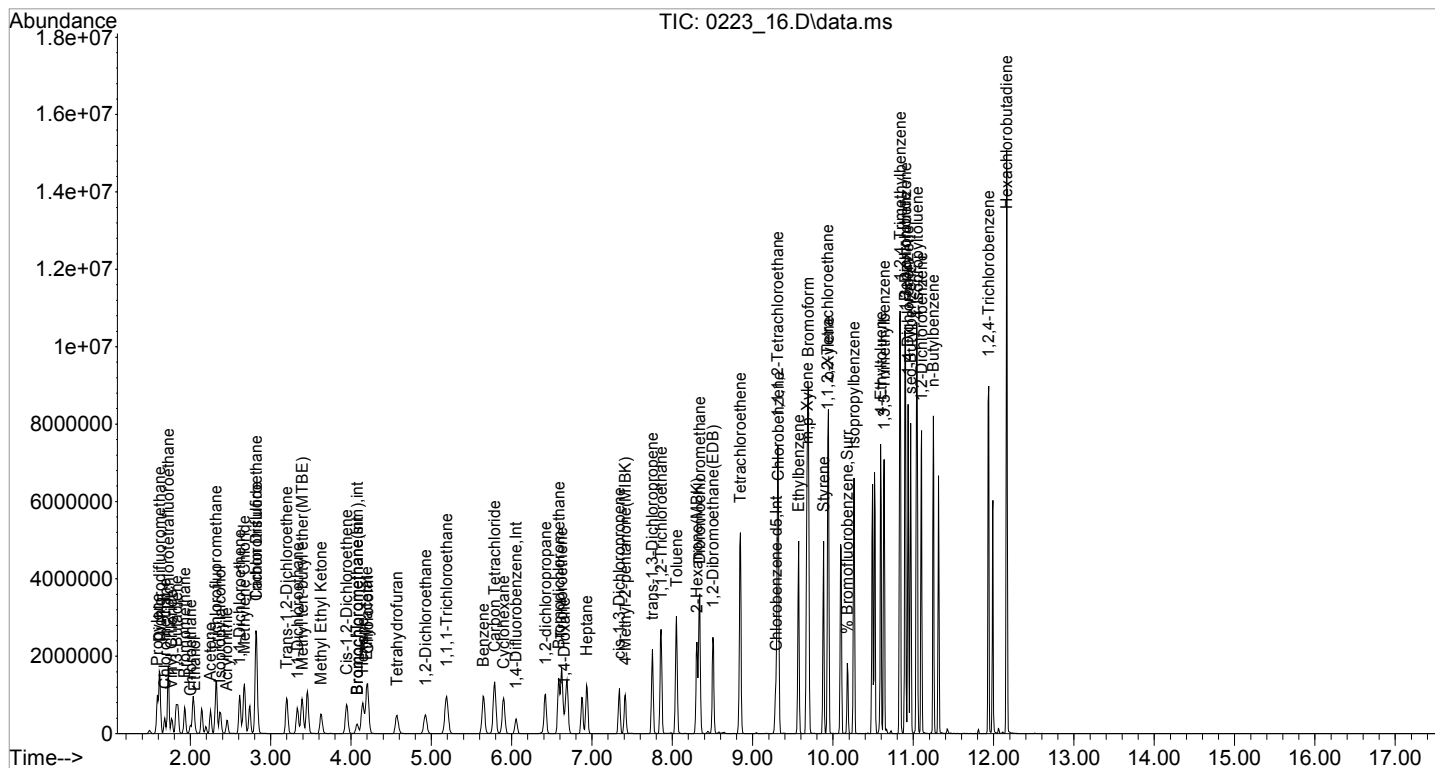
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.248	91	2713297	35.292	ppbv	89
117] 1,2,4-Trichlorobenzene...	11.936	180	2191707	65.589	ppbv	97
119] Hexachlorobutadiene(sim)	12.165	225	2209955	36.832	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(Not Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23a\
Data File : 0223_16.D
Acq On : 23 Feb 2016 5:09 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 19:18:22 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 19:18:17 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/22/16 Time: 07:43

Lab File Id: 0222_02.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF1	RRF MIN	%D	MAX %D
Dichlorodifluoromethane(sim)	5.281	5.224		1.1	30
1,2-Dichlorotetrafluoroethane(sim)	3.082	3.020		2.0	30
Vinyl Chloride(sim)	1.263	1.187		6.0	30
Bromomethane(sim)	1.330	1.104		17.0	30
Trichlorofluoromethane(sim)	4.793	4.787		0.1	30
1,2-Dichloroethane(sim)	1.430	1.360		4.9	30
1,1,1-Trichloroethane(sim)	2.546	2.519		1.1	30
Carbon Tetrachloride(sim)	2.051	1.984		3.3	30
1,1-Dichloroethene(sim)	3.187	3.161		0.8	30
Carbon Disulfide(sim)	4.059	4.003		1.4	30
Trichlorotrifluoroethane(sim)	3.627	3.593		0.9	30
Trans-1,2-Dichloroethene(sim)	2.083	2.031		2.5	30
1,1-Dichloroethane(sim)	2.951	2.858		3.2	30
Cis-1,2-Dichloroethene(sim)	1.632	1.561		4.4	30
Chloroform(sim)	2.905	2.858		1.6	30
Benzene(sim)	2.363	2.377		-0.6	30
1,2-dichloropropane(sim)	0.247	0.230		6.7	30
Bromodichloromethane(sim)	0.767	0.803		-4.7	30
Trichloroethene(sim)	0.343	0.313		8.7	30
1,4-Dioxane(sim)	0.166	0.151		9.1	30
cis-1,3-Dichloropropene(sim)	0.361	0.338		6.3	30
1,1,2-Trichloroethane(sim)	0.320	0.317		1.0	30
Dibromochloromethane(sim)	0.537	0.541		-0.7	30
1,2-Dibromoethane(EDB)(sim)	0.586	0.610		-4.1	30
Tetrachloroethene(sim)	0.420	0.438		-4.2	30
Bromoform(sim)	1.400	1.305		6.8	30
1,1,1,2-Tetrachloroethane(sim)	0.236	0.211		10.5	30
Chlorobenzene(sim)	1.599	1.539		3.8	30
Ethylbenzene(sim)	2.687	2.618		2.6	30
m,p-Xylene(sim)	1.956	1.878		4.0	30
Styrene(sim)	1.356	1.312		3.2	30
1,1,2,2-Tetrachloroethane(sim)	1.688	1.637		3.0	30
o-Xylene(sim)	2.189	2.156		1.5	30
Isopropylbenzene(sim)	2.584	2.521		2.4	30
4-Ethyltoluene(sim)	2.814	2.639		6.2	30
1,3,5-Trimethylbenzene(sim)	2.444	2.375		2.8	30

(#) Maximum %D not met.

FORM VII AIR

7B

Lab Name:	Phoenix Environmental Labs		Client:	WALDENE	
Lab Code:	Phoenix	Case No.:	SAS No.:	SDG No.:	GBK67651
Instrument:	CHEM20	Calibration Date:	02/22/16	Time:	07:43
Lab File Id:	0222_02.D	Init. Calib. Date(s):	02/19/16		02/20/16
Heated Purge (Y/N):	Y	Init. Calib. Times:	19:27		01:54
GC Column:	zb-1ms				

[illegible]

(#) Maximum %D not met.

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_02.D
 Acq On : 22 Feb 2016 07:43 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb - 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:35:38 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	180685	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	469062	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	210574	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	180685	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	553635	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	223429	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	274762	9.881	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.80%	

Target Compounds						Qvalue
2) Propylene	3.543	41	26430	0.942	ppbv	95
3) Dichlorodifluoromethane	3.615	85	76221	0.991	ppbv	100
4) Chloromethane	3.781	52	6034m	0.967	ppbv	
5) 1,2-Dichlorotetrafluor...	3.882	85	54559	1.020	ppbv	96
6) Vinyl Chloride	3.990	62	18342	0.963	ppbv	98
7) 1,3-Butadiene	4.120	54	13482	0.975	ppbv	88
8) Bromomethane	4.372	94	19954	0.990	ppbv	99
9) Chloroethane	4.524	64	8513	0.960	ppbv	92
10) Ethanol	4.625	45	6103	1.066	ppbv	96
11) Acetone	5.029	43	28268	0.879	ppbv	90
12) Trichlorofluoromethane	5.166	101	67016	0.986	ppbv	98
13) Isopropylalcohol	5.216	45	62335	1.060	ppbv	99
14) Acrylonitrile	5.389	53	25130	1.042	ppbv	99
15) 1,1-Dichloroethene	5.655	61	46774	0.991	ppbv	96
16) Methylene Chloride	5.738	49	37856	0.997	ppbv	99
19) Carbon Disulfide	5.958	76	72330	0.992	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	50365	0.998	ppbv	98
21) Trans-1,2-Dichloroethene	6.345	61	36701	1.024	ppbv	96
22) 1,1-Dichloroethane	6.460	63	43861	1.007	ppbv	100
23) Methyl tert-butyl ethe...	6.486	73	56074	0.995	ppbv	95
24) Methyl Ethyl Ketone	6.668	43	42027	0.955	ppbv	99
25) Cis-1,2-Dichloroethene	6.915	61	28206	1.007	ppbv	99
26) Hexane	7.013	57	22188	0.960	ppbv	96
27) Chloroform	7.066	83	42916	1.008	ppbv	96
28) Ethyl acetate	7.006	43	54670	0.942	ppbv	99
29) Tetrahydrofuran	7.271	42	16430	0.985	ppbv	98
30) 1,2-Dichloroethane	7.437	62	24578	0.976	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	37533	1.007	ppbv	99
32) Benzene	7.786	78	42954	1.115	ppbv	93
33) Carbon Tetrachloride	7.854	117	35854	0.992	ppbv	100
34) Cyclohexane	7.914	41	9499	0.947	ppbv#	44
36) 1,2-dichloropropane	8.164	63	12747	1.005	ppbv	97
37) Bromodichloromethane	10.584	83	36586	1.042	ppbv	97
38) Trichloroethene	8.270	130	17343	1.065	ppbv	97
40) 1,4-Dioxane	8.255	88	7524	1.015	ppbv	98
42) Heptane	8.376	43	15104	0.992	ppbv	99
43) cis-1,3-Dichloropropene	8.648	75	18724	0.893	ppbv	96
44) 4-Methyl-2-pentanone(M...	8.648	43	22921	0.978	ppbv	97
45) trans-1,3-Dichloropropene	8.885	75	18317	1.013	ppbv	98
46) 1,1,2-Trichloroethane	8.984	97	14605	1.003	ppbv	99
47) Toluene	9.117	91	35612	1.009	ppbv	99
48) Dibromochloromethane	9.335	129	29949	0.944	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_02.D
 Acq On : 22 Feb 2016 07:43 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb - 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:35:38 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	18271	0.920	ppbv	99
50) 1,2-Dibromoethane(EDB)	9.455	107	26629	0.963	ppbv	96
51) Tetrachloroethene	9.687	166	24266	1.026	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.029	131	21014	1.075	ppbv	99
54) Chlorobenzene	10.044	112	34381	1.048	ppbv	92
55) Ethylbenzene	10.236	91	52792	1.024	ppbv	99
56) m, p-Xylene	10.325	91	83900	2.173	ppbv	100
57) Bromoform	10.391	173	29164	0.915	ppbv	100
58) Styrene	10.532	104	26432	0.956	ppbv	98
59) 1,1,2,2-Tetrachloroethane	10.584	83	36586	1.061	ppbv	99
60) o-Xylene	10.591	91	43646	1.047	ppbv	99
63) Isopropylbenzene	10.917	105	56322	1.063	ppbv	97
65) 4-Ethyltoluene	11.295	105	58958	1.025	ppbv	98
66) 1,3,5-Trimethylbenzene	11.332	105	47463	0.992	ppbv	97
67) 1,2,4-Trimethylbenzene	11.592	105	46901	1.065	ppbv	99
69) Benzyl chloride	11.681	91	48324	1.071	ppbv	98
70) 1,3-Dichlorobenzene	11.695	146	39656	1.065	ppbv	98
71) 1,4-Dichlorobenzene	11.740	146	37540	1.030	ppbv	97
72) sec-Butylbenzene	11.592	105	46901	0.801	ppbv#	86
73) 4-Isopropyltoluene	11.851	119	62511	1.077	ppbv	97
74) 1,2-Dichlorobenzene	11.955	146	38910	1.052	ppbv	99
75) n-Butylbenzene	12.118	91	59178	1.108	ppbv	100
76) 1,2,4-Trichlorobenzene	13.104	180	31518	1.027	ppbv	97
78) Hexachlorobutadiene	13.415	225	32542	1.068	ppbv	99
80] Dichlorodifluoromethan...	3.618	85	94384	0.989	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.882	85	54559	0.980	ppbv	96
82] Vinyl Chloride(sim)	3.993	62	21445	0.940	ppbv	100
83] Bromomethane(sim)	4.372	94	19954	0.830	ppbv	99
84] Trichlorofluoromethane...	5.169	101	86501	0.999	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	24578	0.951	ppbv	99
86] 1,1,1-Trichloroethane(...	7.561	97	45511	0.989	ppbv#	100
87] Carbon Tetrachloride(sim)	7.854	117	35854	0.968	ppbv	100
88] 1,1-Dichloroethene(sim)	5.658	61	57122	0.992	ppbv	100
89] Carbon Disulfide(sim)	5.958	76	72330	0.986	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	64918	0.991	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	36701	0.975	ppbv	96
92] 1,1-Dichloroethane(sim)	6.463	63	51638	0.968	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	28206	0.956	ppbv	99
94] Chloroform(sim)	7.069	83	51648	0.984	ppbv	100
95] Benzene(sim)	7.786	78	42954	1.006	ppbv#	93
97] 1,2-dichloropropane(sim)	8.164	63	12747	0.933	ppbv	97
98] Bromodichloromethane(sim)	10.587	83	44465	1.047	ppbv	99
99] Trichloroethene(sim)	8.270	130	17343	0.914	ppbv	97
100] 1,4-Dioxane(sim)	8.258	88	8377	0.910	ppbv	99
101] cis-1,3-Dichloropropen...	8.648	75	18724	0.938	ppbv	96
102] 1,1,2-Trichloroethane(...	8.979	97	17559	0.990	ppbv	99
103] Dibromochloromethane(sim)	9.335	129	29949	1.007	ppbv	99
104] 1,2-Dibromoethane(EDB)...	9.458	107	33799	1.042	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	24266	1.042	ppbv	99
107] Bromoform(sim)	10.391	173	29164	0.932	ppbv	100
108] 1,1,1,2-Tetrachloroeth...	10.587	131	4722	0.896	ppbv	100
109] Chlorobenzene(sim)	10.044	112	34381	0.962	ppbv#	92
110] Ethylbenzene(sim)	10.232	91	58503	0.974	ppbv	100
111] m, p-Xylene(sim)	10.325	91	83900	1.920	ppbv	100
112] Styrene(sim)	10.528	104	29324	0.968	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_02.D
 Acq On : 22 Feb 2016 07:43 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb - 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:35:38 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

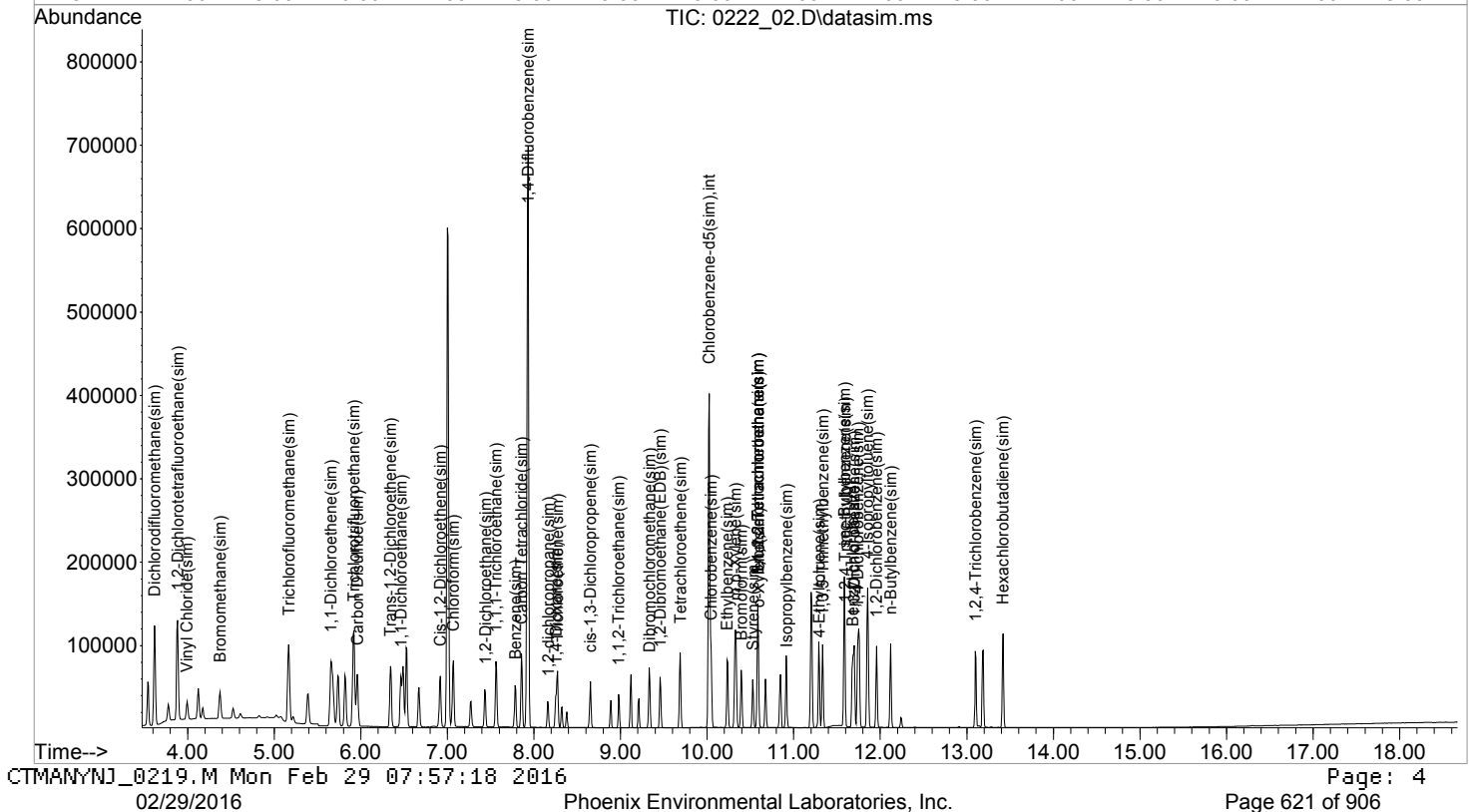
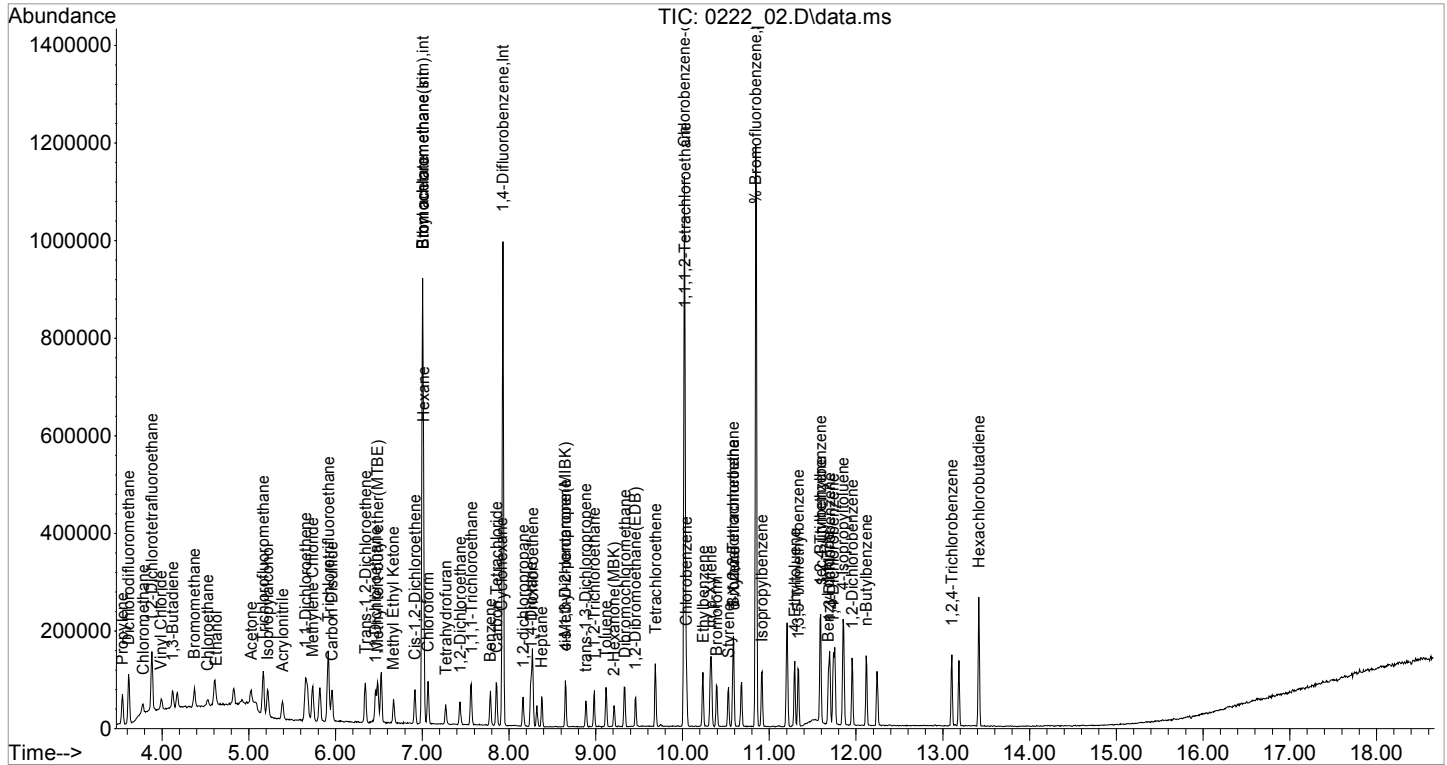
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113] 1,1,2,2-Tetrachloroeth...	10.584	83	36586	0.970	ppbv	98
114] o-Xylene(sim)	10.594	91	48163	0.985	ppbv	99
115] Isopropylbenzene(sim)	10.917	105	56322	0.975	ppbv	97
117] 4-Ethyltoluene(sim)	11.295	105	58958	0.938	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.335	105	53064	0.972	ppbv	99
119] 1,2,4-Trimethylbenzene...	11.592	105	46901	0.984	ppbv	99
121] Benzyl chloride(sim)	11.681	91	48324	1.177	ppbv	99
122] 1,3-Dichlorobenzene(sim)	11.698	146	50456	0.953	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.740	146	37540	0.881	ppbv	97
124] sec-Butylbenzene(sim)	11.587	105	48678	0.686	ppbv	85
125] 4-Isopropyltoluene(sim)	11.851	119	62511	0.938	ppbv	97
126] 1,2-Dichlorobenzene(sim)	11.958	146	49568	0.949	ppbv	100
127] n-Butylbenzene(sim)	12.118	91	59178	1.008	ppbv	100
128] 1,2,4-Trichlorobenzene...	13.100	180	42579	1.061	ppbv	100
130] Hexachlorobutadiene(sim)	13.418	225	44811	0.977	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data Path : H:\AIR2016\CHEM20\02FEB\22\  
Data File : 0222_02.D  
Acq On : 22 Feb 2016 07:43 am  
Operator : CORTEX\ms  
Client ID : BFB TUNE - CCAL 1  
Lab ID : 1.0ppb - 1.0ppb  
ALS Vial : 1 Sample Multiplier: 1
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Quant Time: Feb 23 08:35:38 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/22/16 Time: 08:19

Lab File Id: 0222_03.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Propylene	1.553	1.594		-2.6	30
Dichlorodifluoromethane	4.255	4.431		-4.1	30
Chloromethane	0.346	0.319		7.7	30
1,2-Dichlorotetrafluoroethane	2.959	3.031		-2.4	30
Vinyl Chloride	1.054	1.038		1.5	30
1,3-Butadiene	0.766	0.761		0.6	30
Bromomethane	1.116	1.144		-2.5	30
Chloroethane	0.491	0.489		0.4	30
Ethanol	0.317	0.320		-0.9	30
Acetone	1.780	1.581		11.2	30
Trichlorofluoromethane	3.762	3.910		-3.9	30
Isopropylalcohol	3.255	3.232		0.7	30
Acrylonitrile	1.335	1.343		-0.6	30
1,1-Dichloroethene	2.613	2.706		-3.5	30
Methylene Chloride	2.101	2.169		-3.2	30
Carbon Disulfide	4.037	4.152		-2.8	30
Trichlorotrifluoroethane	2.794	2.872		-2.8	30
Trans-1,2-Dichloroethene	1.984	2.045		-3.1	30
1,1-Dichloroethane	2.411	2.470		-2.4	30
Methyl tert-butyl ether(MTBE)	3.120	3.162		-1.3	30
Methyl Ethyl Ketone	2.435	2.462		-1.1	30
Cis-1,2-Dichloroethene	1.550	1.591		-2.6	30
Hexane	1.279	1.328		-3.8	30
Chloroform	2.356	2.431		-3.2	30
Ethyl acetate	3.213	3.200		0.4	30
Tetrahydrofuran	0.923	0.938		-1.6	30
1,2-Dichloroethane	1.393	1.464		-5.1	30
1,1,1-Trichloroethane	2.062	2.144		-4.0	30
Benzene	2.133	2.163		-1.4	30
Carbon Tetrachloride	2.001	2.099		-4.9	30
Cyclohexane	0.556	0.546		1.7	30
1,2-dichloropropane	0.270	0.271		-0.2	30
Bromodichloromethane	0.749	0.798		-6.6	30
Trichloroethene	0.347	0.361		-3.9	30
1,4-Dioxane	0.158	0.168		-6.3	30
Heptane	0.325	0.325		-0.1	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/22/16 Time: 08:19

Lab File Id: 0222_03.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
cis-1,3-Dichloropropene	0.447	0.496		-11.0	30
4-Methyl-2-pentanone(MIBK)	0.500	0.538		-7.7	30
trans-1,3-Dichloropropene	0.386	0.416		-7.9	30
1,1,2-Trichloroethane	0.311	0.317		-2.1	30
Toluene	0.752	0.771		-2.5	30
Dibromochloromethane	0.677	0.734		-8.5	30
2-Hexanone(MBK)	0.423	0.456		-7.7	30
1,2-Dibromoethane(EDB)	0.590	0.634		-7.5	30
Tetrachloroethene	0.504	0.533		-5.8	30
1,1,1,2-Tetrachloroethane	0.928	0.964		-3.9	30
Chlorobenzene	1.559	1.582		-1.5	30
Ethylbenzene	2.448	2.493		-1.8	30
m,p-Xylene	1.833	1.951		-6.4	30
Bromoform	1.513	1.682		-11.2	30
Styrene	1.313	1.426		-8.6	30
1,1,2,2-Tetrachloroethane	1.638	1.687		-3.0	30
o-Xylene	1.980	1.980		0.0	30
Isopropylbenzene	2.517	2.575		-2.3	30
4-Ethyltoluene	2.733	2.822		-3.3	30
1,3,5-Trimethylbenzene	2.273	2.307		-1.5	30
1,2,4-Trimethylbenzene	2.091	2.343		-12.0	30
Benzyl chloride	2.144	2.363		-10.2	30
1,3-Dichlorobenzene	1.769	1.845		-4.3	30
1,4-Dichlorobenzene	1.731	1.827		-5.6	30
sec-Butylbenzene	2.781	2.343		15.7	30
4-Isopropyltoluene	2.756	2.761		-0.2	30
1,2-Dichlorobenzene	1.756	1.796		-2.3	30
n-Butylbenzene	2.537	2.614		-3.0	30
1,2,4-Trichlorobenzene	1.458	1.577		-8.2	30
Hexachlorobutadiene	1.447	1.459		-0.8	30
% Bromofluorobenzene	1.321	1.335		-1.1	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_03.D
 Acq On : 22 Feb 2016 08:19 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:20:39 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	167624	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	442928	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	209362	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	167624	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	519900	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	226747	10.000	ng	0.00

System Monitoring Compounds

61) % Bromofluorobenzene	10.850	95	279539	10.111	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.10%		

Target Compounds

						Qvalue
2) Propylene	3.543	41	267274	10.265	ppbv	99
3) Dichlorodifluoromethane	3.623	85	742664	10.412	ppbv	99
4) Chloromethane	3.781	52	53538	9.251	ppbv	94
5) 1,2-Dichlorotetrafluor...	3.882	85	508073	10.242	ppbv	99
6) Vinyl Chloride	3.997	62	174026	9.848	ppbv	99
7) 1,3-Butadiene	4.127	54	127507	9.935	ppbv	98
8) Bromomethane	4.372	94	191814	10.255	ppbv	100
9) Chloroethane	4.531	64	82016	9.973	ppbv	99
10) Ethanol	4.632	45	53592	10.089	ppbv	98
11) Acetone	5.021	43	264942	8.879	ppbv	99
12) Trichlorofluoromethane	5.166	101	655482	10.395	ppbv	100
13) Isopropylalcohol	5.223	45	541806	9.930	ppbv	100
14) Acrylonitrile	5.389	53	225058	10.057	ppbv	98
15) 1,1-Dichloroethene	5.655	61	453588	10.354	ppbv	99
16) Methylene Chloride	5.738	49	363618	10.326	ppbv	99
19) Carbon Disulfide	5.958	76	696010	10.285	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	481345	10.278	ppbv	99
21) Trans-1,2-Dichloroethene	6.345	61	342712	10.307	ppbv	100
22) 1,1-Dichloroethane	6.465	63	414050	10.244	ppbv	100
23) Methyl tert-butyl ethe...	6.486	73	530042	10.135	ppbv	100
24) Methyl Ethyl Ketone	6.668	43	412711	10.112	ppbv	100
25) Cis-1,2-Dichloroethene	6.915	61	266619	10.261	ppbv	100
26) Hexane	7.021	57	222637	10.383	ppbv	99
27) Chloroform	7.074	83	407494	10.321	ppbv	100
28) Ethyl acetate	7.006	43	536464	9.960	ppbv	100
29) Tetrahydrofuran	7.271	42	157206	10.158	ppbv	100
30) 1,2-Dichloroethane	7.437	62	245321	10.504	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	359373	10.396	ppbv	100
32) Benzene	7.785	78	362520	10.140	ppbv	98
33) Carbon Tetrachloride	7.861	117	351836	10.490	ppbv	99
34) Cyclohexane	7.922	41	91564	9.835	ppbv	98
36) 1,2-dichloropropane	8.164	63	120035	10.020	ppbv	96
37) Bromodichloromethane	10.584	83	353273	10.655	ppbv	100
38) Trichloroethene	8.270	130	159924	10.397	ppbv	99
40) 1,4-Dioxane	8.255	88	74346	10.622	ppbv	99
42) Heptane	8.383	43	144104	10.019	ppbv	99
43) cis-1,3-Dichloropropene	8.656	75	219574	11.094	ppbv	93
44) 4-Methyl-2-pentanone(M...	8.648	43	238136	10.761	ppbv	96
45) trans-1,3-Dichloropropene	8.892	75	184326	10.795	ppbv	99
46) 1,1,2-Trichloroethane	8.983	97	140363	10.208	ppbv	98
47) Toluene	9.117	91	341717	10.257	ppbv	100
48) Dibromochloromethane	9.335	129	325010	10.843	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_03.D
 Acq On : 22 Feb 2016 08:19 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:20:39 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	202092	10.773	ppbv	99
50) 1,2-Dibromoethane(EDB)	9.462	107	280947	10.760	ppbv	99
51) Tetrachloroethene	9.687	166	236003	10.572	ppbv	100
53) 1,1,1,2-Tetrachloroethane	10.036	131	201866	10.389	ppbv	98
54) Chlorobenzene	10.051	112	331266	10.152	ppbv	99
55) Ethylbenzene	10.236	91	522000	10.186	ppbv	99
56) m, p-Xylene	10.332	91	816920	21.285	ppbv	100
57) Bromoform	10.399	173	352165	11.115	ppbv	99
58) Styrene	10.532	104	298527	10.865	ppbv	100
59) 1,1,2,2-Tetrachloroethane	10.584	83	353273	10.304	ppbv	100
60) o-Xylene	10.591	91	414482	10.000	ppbv	100
63) Isopropylbenzene	10.917	105	539010	10.227	ppbv	99
65) 4-Ethyltoluene	11.295	105	590785	10.326	ppbv	100
66) 1,3,5-Trimethylbenzene	11.339	105	482921	10.150	ppbv	99
67) 1,2,4-Trimethylbenzene	11.592	105	490449	11.201	ppbv	99
69) Benzyl chloride	11.681	91	494695	11.024	ppbv	100
70) 1,3-Dichlorobenzene	11.695	146	386229	10.430	ppbv	100
71) 1,4-Dichlorobenzene	11.740	146	382594	10.561	ppbv	100
72) sec-Butylbenzene	11.592	105	490449	8.424	ppbv#	86
73) 4-Isopropyltoluene	11.851	119	578055	10.017	ppbv	100
74) 1,2-Dichlorobenzene	11.955	146	375946	10.228	ppbv	100
75) n-Butylbenzene	12.118	91	547229	10.303	ppbv	99
76) 1,2,4-Trichlorobenzene	13.104	180	330104	10.816	ppbv	99
78) Hexachlorobutadiene	13.415	225	305464	10.081	ppbv	100
80] Dichlorodifluoromethan...	3.618	85	908070	10.258	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.882	85	508073	9.834	ppbv	99
82] Vinyl Chloride(sim)	3.993	62	209071	9.875	ppbv	100
83] Bromomethane(sim)	4.372	94	191814	8.604	ppbv	100
84] Trichlorofluoromethane...	5.169	101	834791	10.391	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	245321	10.235	ppbv	99
86] 1,1,1-Trichloroethane(...	7.569	97	438719	10.279	ppbv#	100
87] Carbon Tetrachloride(sim)	7.861	117	351836	10.234	ppbv	99
88] 1,1-Dichloroethene(sim)	5.658	61	554086	10.371	ppbv	100
89] Carbon Disulfide(sim)	5.958	76	696010	10.228	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	612395	10.074	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	342712	9.813	ppbv	100
92] 1,1-Dichloroethane(sim)	6.468	63	491655	9.937	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	266619	9.745	ppbv	100
94] Chloroform(sim)	7.069	83	493297	10.129	ppbv	100
95] Benzene(sim)	7.785	78	362520	9.153	ppbv	98
97] 1,2-dichloropropane(sim)	8.164	63	120035	9.356	ppbv	96
98] Bromodichloromethane(sim)	10.587	83	429493	10.772	ppbv	100
99] Trichloroethene(sim)	8.270	130	159924	8.978	ppbv	99
100] 1,4-Dioxane(sim)	8.258	88	81800	9.461	ppbv	99
101] cis-1,3-Dichloropropen...	8.656	75	219574	11.719	ppbv	93
102] 1,1,2-Trichloroethane(...	8.986	97	174576	10.485	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	325010	11.638	ppbv	100
104] 1,2-Dibromoethane(EDB)...	9.465	107	344163	11.299	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	236003	10.795	ppbv	100
107] Bromoform(sim)	10.399	173	352165	11.095	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	46358	8.671	ppbv	100
109] Chlorobenzene(sim)	10.051	112	331266	9.134	ppbv#	99
110] Ethylbenzene(sim)	10.239	91	577364	9.475	ppbv	100
111] m, p-Xylene(sim)	10.332	91	816920	18.422	ppbv	100
112] Styrene(sim)	10.528	104	327505	10.653	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_03.D
 Acq On : 22 Feb 2016 08:19 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

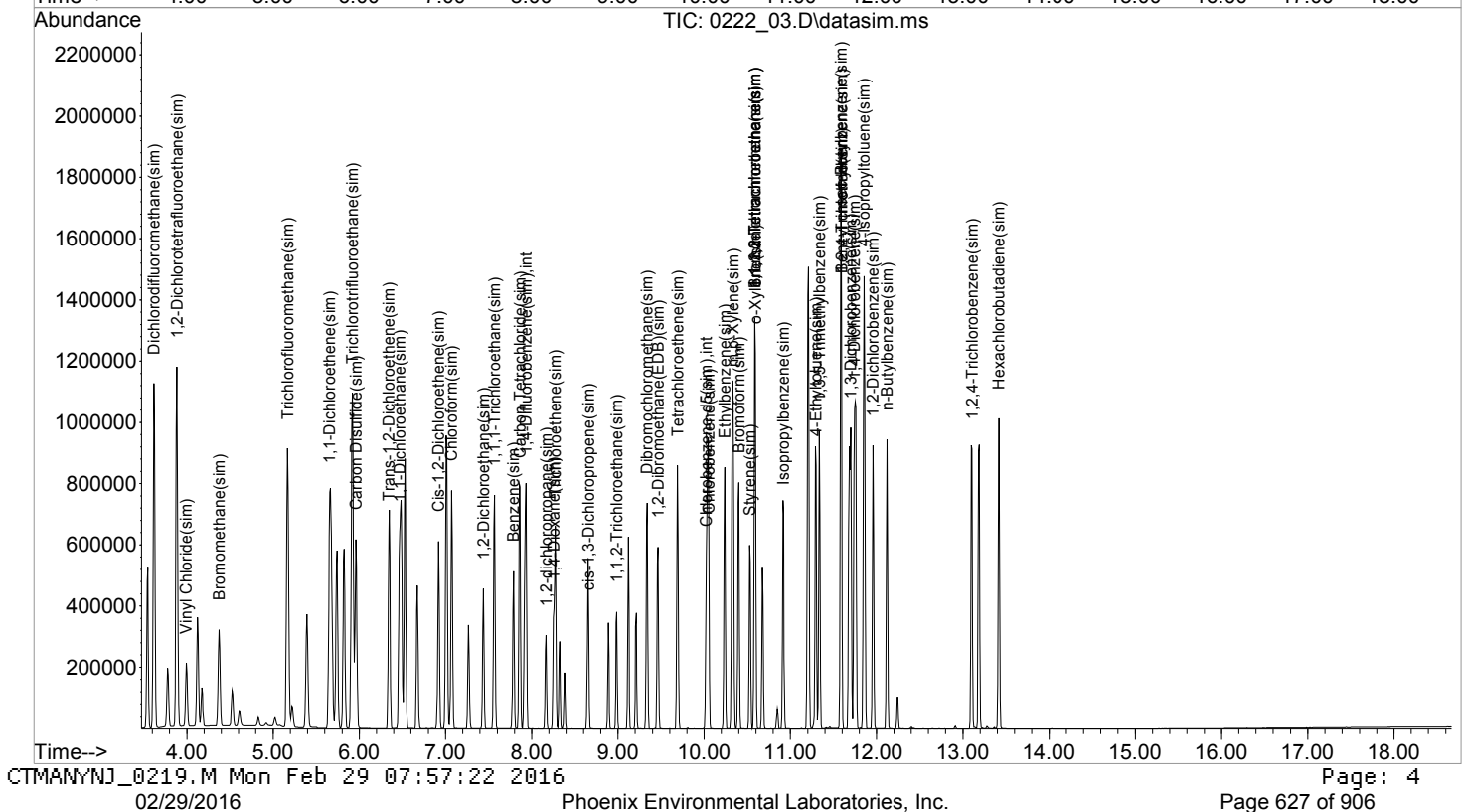
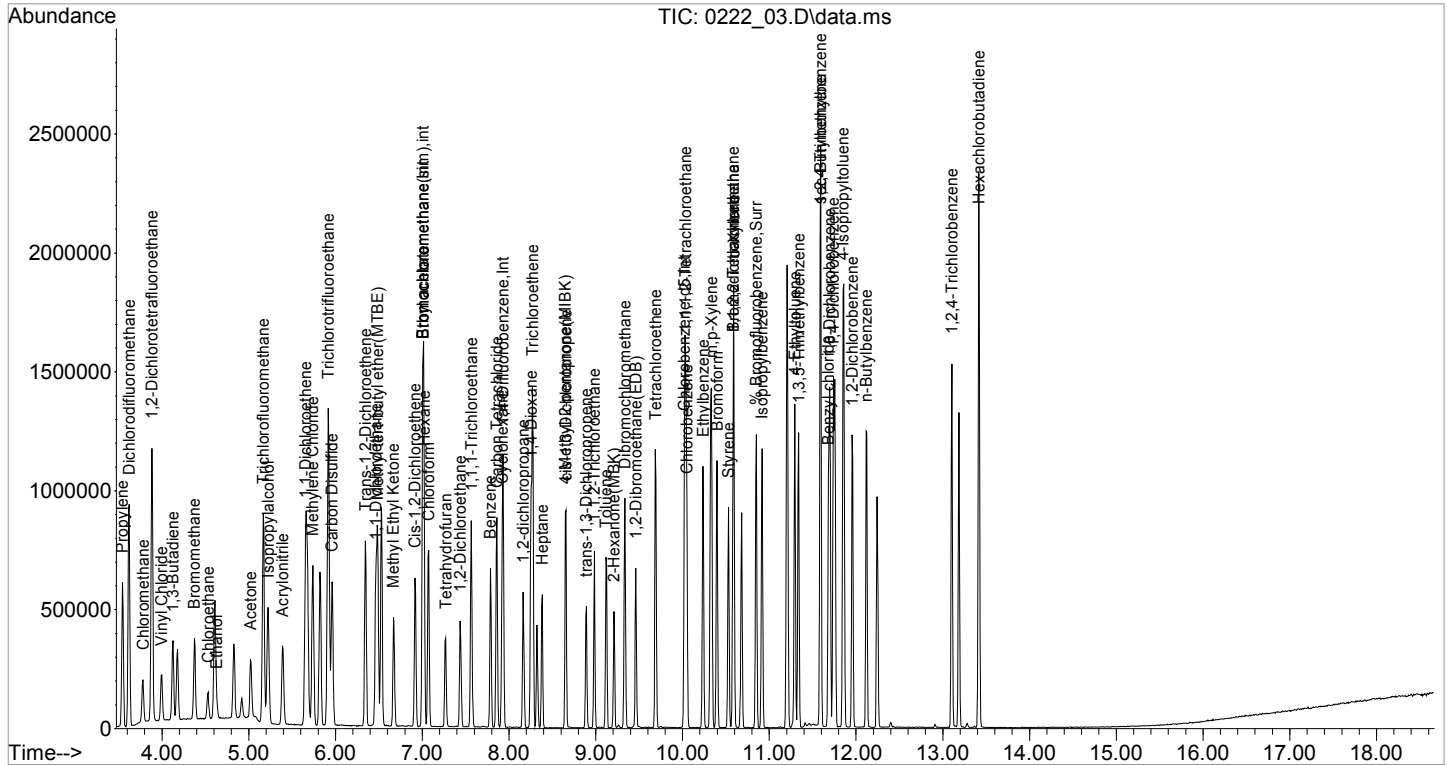
Quant Time: Feb 22 10:20:39 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113] 1,1,2,2-Tetrachloroeth...	10.584	83	353273	9.233	ppbv	100
114] o-Xylene(sim)	10.594	91	457969	9.225	ppbv	100
115] Isopropylbenzene(sim)	10.917	105	539010	9.199	ppbv	99
117] 4-Ethyltoluene(sim)	11.295	105	590785	9.258	ppbv	100
118] 1,3,5-Trimethylbenzene...	11.335	105	527293	9.517	ppbv	100
119] 1,2,4-Trimethylbenzene...	11.592	105	490449	10.135	ppbv	99
121] Benzyl chloride(sim)	11.592	91	363523	9.385	ppbv	99
122] 1,3-Dichlorobenzene(sim)	11.698	146	487989	9.086	ppbv	100
123] 1,4-Dichlorobenzene(sim)	11.740	146	382594	8.846	ppbv	100
124] sec-Butylbenzene(sim)	11.587	105	530477	7.364	ppbv	86
125] 4-Isopropyltoluene(sim)	11.851	119	578055	8.543	ppbv	100
126] 1,2-Dichlorobenzene(sim)	11.958	146	478202	9.021	ppbv	100
127] n-Butylbenzene(sim)	12.118	91	547229	9.188	ppbv	99
128] 1,2,4-Trichlorobenzene...	13.107	180	445842	10.942	ppbv	100
130] Hexachlorobutadiene(sim)	13.418	225	405596	8.716	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_03.D
Acq On : 22 Feb 2016 08:19 am
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 10:20:39 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/23/16 Time: 03:50

Lab File Id: 0222_26.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF1	RRF MIN	%D	MAX %D
Dichlorodifluoromethane(sim)	5.281	5.636		-6.7	30
1,2-Dichlorotetrafluoroethane(sim)	3.082	3.375		-9.5	30
Vinyl Chloride(sim)	1.263	1.386		-9.7	30
Bromomethane(sim)	1.330	1.265		4.9	30
Trichlorofluoromethane(sim)	4.793	5.111		-6.6	30
1,2-Dichloroethane(sim)	1.430	1.588		-11.0	30
1,1,1-Trichloroethane(sim)	2.546	2.740		-7.6	30
Carbon Tetrachloride(sim)	2.051	2.081		-1.5	30
1,1-Dichloroethene(sim)	3.187	3.180		0.2	30
Carbon Disulfide(sim)	4.059	3.941		2.9	30
Trichlorotrifluoroethane(sim)	3.627	3.702		-2.1	30
Trans-1,2-Dichloroethene(sim)	2.083	1.997		4.1	30
1,1-Dichloroethane(sim)	2.951	3.025		-2.5	30
Cis-1,2-Dichloroethene(sim)	1.632	1.566		4.0	30
Chloroform(sim)	2.905	3.117		-7.3	30
Benzene(sim)	2.363	2.086		11.7	30
1,2-dichloropropane(sim)	0.247	0.234		5.1	30
Bromodichloromethane(sim)	0.767	0.797		-3.9	30
Trichloroethene(sim)	0.343	0.296		13.6	30
1,4-Dioxane(sim)	0.166	0.134		19.3	30
cis-1,3-Dichloropropene(sim)	0.361	0.313		13.2	30
1,1,2-Trichloroethane(sim)	0.320	0.321		-0.2	30
Dibromochloromethane(sim)	0.537	0.514		4.3	30
1,2-Dibromoethane(EDB)(sim)	0.586	0.593		-1.2	30
Tetrachloroethene(sim)	0.420	0.416		1.1	30
Bromoform(sim)	1.400	1.089		22.2	30
1,1,1,2-Tetrachloroethane(sim)	0.236	0.195		17.2	30
Chlorobenzene(sim)	1.599	1.356		15.2	30
Ethylbenzene(sim)	2.687	2.280		15.2	30
m,p-Xylene(sim)	1.956	1.650		15.6	30
Styrene(sim)	1.356	1.019		24.8	30
1,1,2,2-Tetrachloroethane(sim)	1.688	1.555		7.9	30
o-Xylene(sim)	2.189	1.891		13.6	30
Isopropylbenzene(sim)	2.584	2.205		14.7	30
4-Ethyltoluene(sim)	2.814	2.253		19.9	30
1,3,5-Trimethylbenzene(sim)	2.444	2.066		15.5	30

(#) Maximum %D not met.

FORM VII AIR

7B

Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/23/16 Time: 03:50

Lab File Id: 0222_26.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N):	Y	Init. Calib. Times:	19:27	01:54

GC Column: zb-1ms

[illegible]

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_26.D
 Acq On : 23 Feb 2016 03:50 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb - 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:37:54 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.999	130	136349	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	365182	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	173103	10.000	ng	0.00
79) Bromochloromethane(sim)	6.999	130	136349	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	441112	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.018	82	184863	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.844	95	220198	9.633	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.30%	

Target Compounds						Qvalue
2) Propylene	3.529	41	22255	1.051	ppbv	99
3) Dichlorodifluoromethane	3.609	85	61510	1.060	ppbv	96
4) Chloromethane	3.767	52	5271m	1.120	ppbv	
5) 1,2-Dichlorotetrafluor...	3.868	85	46024	1.141	ppbv	96
6) Vinyl Chloride	3.983	62	15668	1.090	ppbv	96
7) 1,3-Butadiene	4.113	54	12188	1.167	ppbv	94
8) Bromomethane	4.366	94	17252	1.134	ppbv	94
9) Chloroethane	4.517	64	7182	1.074	ppbv	87
10) Ethanol	4.625	45	5398	1.249	ppbv#	75
11) Acetone	5.022	43	37434m	1.542	ppbv	
12) Trichlorofluoromethane	5.159	101	50493	0.984	ppbv	99
13) Isopropylalcohol	5.209	45	41288	0.930	ppbv#	92
14) Acrylonitrile	5.382	53	16671	0.916	ppbv	94
15) 1,1-Dichloroethene	5.649	61	33980	0.954	ppbv	97
16) Methylene Chloride	5.733	49	29683	1.036	ppbv	99
19) Carbon Disulfide	5.953	76	53740	0.976	ppbv	99
20) Trichlorotrifluoroethane	5.911	101	36507	0.958	ppbv	96
21) Trans-1,2-Dichloroethene	6.340	61	27232	1.007	ppbv	95
22) 1,1-Dichloroethane	6.455	63	34148	1.039	ppbv	99
23) Methyl tert-butyl ethe...	6.481	73	39618	0.931	ppbv#	94
24) Methyl Ethyl Ketone	6.669	43	33944	1.022	ppbv	96
25) Cis-1,2-Dichloroethene	6.908	61	21348	1.010	ppbv	93
26) Hexane	7.014	57	17392	0.997	ppbv	89
27) Chloroform	7.067	83	33813	1.053	ppbv	97
28) Ethyl acetate	7.006	43	45555	1.040	ppbv	96
29) Tetrahydrofuran	7.271	42	13056	1.037	ppbv	89
30) 1,2-Dichloroethane	7.430	62	21649	1.140	ppbv	98
31) 1,1,1-Trichloroethane	7.559	97	30233	1.075	ppbv	95
32) Benzene	7.778	78	28449	0.978	ppbv	98
33) Carbon Tetrachloride	7.854	117	28378	1.040	ppbv	96
34) Cyclohexane	7.915	41	8105	1.070	ppbv#	40
36) 1,2-dichloropropane	8.157	63	10309	1.044	ppbv	95
37) Bromodichloromethane	10.585	83	28754	1.052	ppbv	99
38) Trichloroethene	8.263	130	13069	1.031	ppbv	97
40) 1,4-Dioxane	8.255	88	5303	0.919	ppbv	87
42) Heptane	8.376	43	11047	0.932	ppbv	97
43) cis-1,3-Dichloropropene	8.649	75	13797	0.845	ppbv	97
44) 4-Methyl-2-pentanone(M...	8.649	43	13968	0.766	ppbv	95
45) trans-1,3-Dichloropropene	8.885	75	12888	0.915	ppbv	97
46) 1,1,2-Trichloroethane	8.977	97	11614	1.024	ppbv	99
47) Toluene	9.118	91	24988	0.910	ppbv	98
48) Dibromochloromethane	9.329	129	22662	0.917	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_26.D
 Acq On : 23 Feb 2016 03:50 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb - 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:37:54 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	13597	0.879	ppbv	91
50) 1,2-Dibromoethane(EDB)	9.456	107	20589	0.956	ppbv	100
51) Tetrachloroethene	9.688	166	18351	0.997	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.030	131	16414	1.022	ppbv	93
54) Chlorobenzene	10.044	112	25063	0.929	ppbv	87
55) Ethylbenzene	10.237	91	38539	0.910	ppbv	98
56) m, p-Xylene	10.326	91	61007	1.922	ppbv	98
57) Bromoform	10.392	173	20137	0.769	ppbv	100
58) Styrene	10.525	104	16152	0.711	ppbv	92
59) 1,1,2,2-Tetrachloroethane	10.585	83	28754	1.014	ppbv	95
60) o-Xylene	10.592	91	31449	0.918	ppbv	96
63) Isopropylbenzene	10.910	105	40766	0.936	ppbv	96
65) 4-Ethyltoluene	11.296	105	41641	0.880	ppbv	97
66) 1,3,5-Trimethylbenzene	11.333	105	34937	0.888	ppbv	96
67) 1,2,4-Trimethylbenzene	11.585	105	36776	1.016	ppbv	96
69) Benzyl chloride	11.681	91	33221	0.895	ppbv	97
70) 1,3-Dichlorobenzene	11.696	146	28425	0.928	ppbv	96
71) 1,4-Dichlorobenzene	11.733	146	25971	0.867	ppbv	98
72) sec-Butylbenzene	11.585	105	36776	0.764	ppbv#	82
73) 4-Isopropyltoluene	11.852	119	43941	0.921	ppbv	96
74) 1,2-Dichlorobenzene	11.956	146	27052	0.890	ppbv	98
75) n-Butylbenzene	12.119	91	40161	0.915	ppbv	100
76) 1,2,4-Trichlorobenzene	13.105	180	19866	0.787	ppbv	98
78) Hexachlorobutadiene	13.416	225	23444	0.936	ppbv	97
80] Dichlorodifluoromethan...	3.604	85	76850	1.067	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.868	85	46024	1.095	ppbv	96
82] Vinyl Chloride(sim)	3.979	62	18893	1.097	ppbv	99
83] Bromomethane(sim)	4.366	94	17252	0.951	ppbv	94
84] Trichlorofluoromethane...	5.162	101	69686	1.066	ppbv	99
85] 1,2-Dichloroethane(sim)	7.430	62	21649	1.110	ppbv	98
86] 1,1,1-Trichloroethane(...	7.562	97	37362	1.076	ppbv#	98
87] Carbon Tetrachloride(sim)	7.854	117	28378	1.015	ppbv	96
88] 1,1-Dichloroethene(sim)	5.646	61	43363	0.998	ppbv	96
89] Carbon Disulfide(sim)	5.953	76	53740	0.971	ppbv	99
90] Trichlorotrifluoroetha...	5.914	101	50472	1.021	ppbv	100
91] Trans-1,2-Dichloroethe...	6.340	61	27232	0.959	ppbv	95
92] 1,1-Dichloroethane(sim)	6.458	63	41241	1.025	ppbv	100
93] Cis-1,2-Dichloroethene...	6.908	61	21348	0.959	ppbv	93
94] Chloroform(sim)	7.062	83	42502	1.073	ppbv	99
95] Benzene(sim)	7.778	78	28449	0.883	ppbv	98
97] 1,2-dichloropropane(sim)	8.157	63	10309	0.947	ppbv	95
98] Bromodichloromethane(sim)	10.580	83	35145	1.039	ppbv	99
99] Trichloroethene(sim)	8.263	130	13069	0.865	ppbv	99
100] 1,4-Dioxane(sim)	8.251	88	5913	0.806	ppbv	92
101] cis-1,3-Dichloropropen...	8.649	75	13797	0.868	ppbv	97
102] 1,1,2-Trichloroethane(...	8.980	97	14149	1.002	ppbv	99
103] Dibromochloromethane(sim)	9.329	129	22662	0.956	ppbv	97
104] 1,2-Dibromoethane(EDB)...	9.458	107	26178	1.013	ppbv	100
105] Tetrachloroethene(sim)	9.688	166	18351	0.989	ppbv	99
107] Bromoform(sim)	10.392	173	20137	0.778	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.588	131	3609	0.828	ppbv	96
109] Chlorobenzene(sim)	10.044	112	25063	0.848	ppbv#	87
110] Ethylbenzene(sim)	10.232	91	42151	0.848	ppbv	98
111] m, p-Xylene(sim)	10.326	91	61007	1.687	ppbv	98
112] Styrene(sim)	10.528	104	18843	0.752	ppbv	95

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_26.D
 Acq On : 23 Feb 2016 03:50 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb - 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

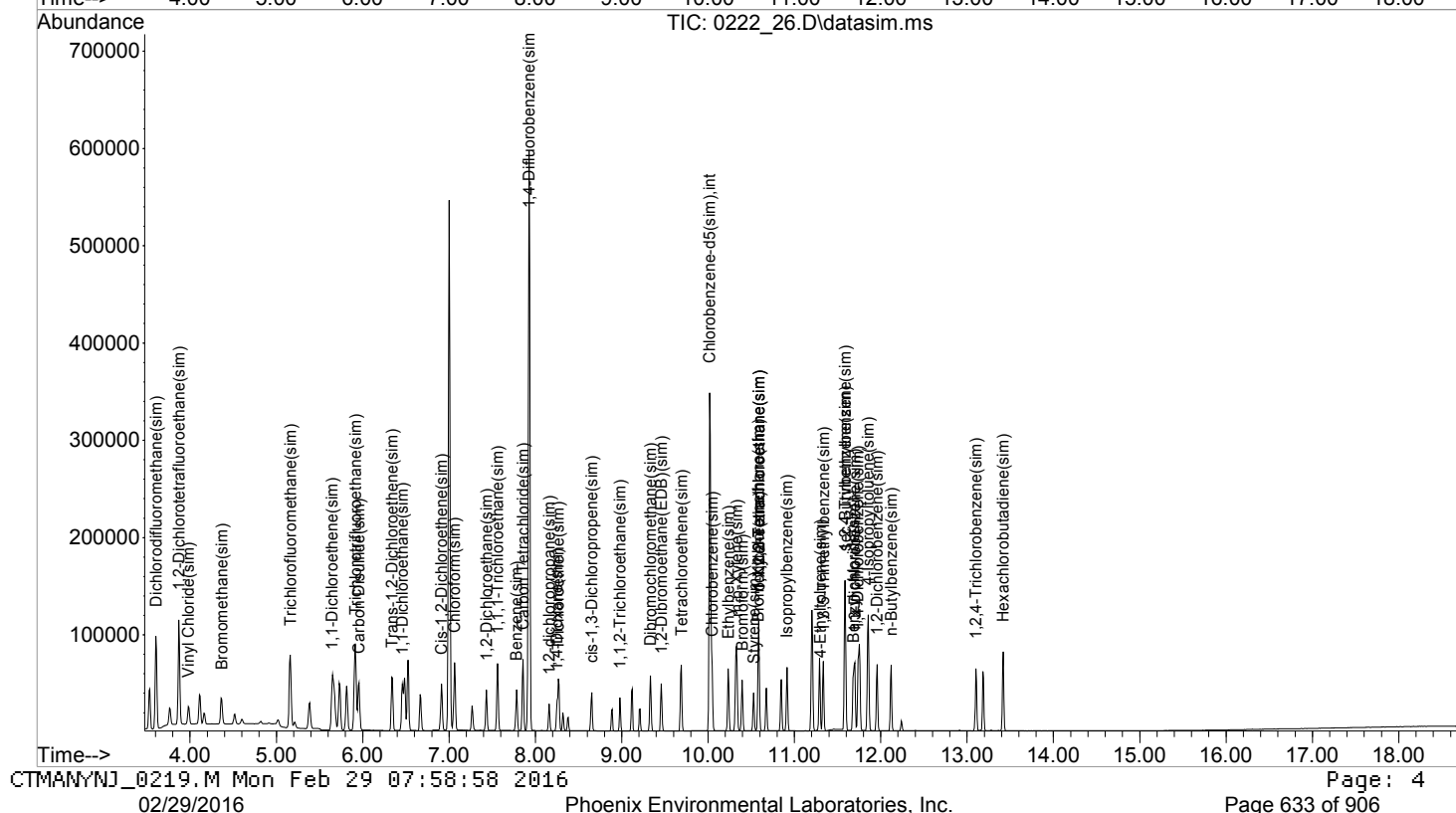
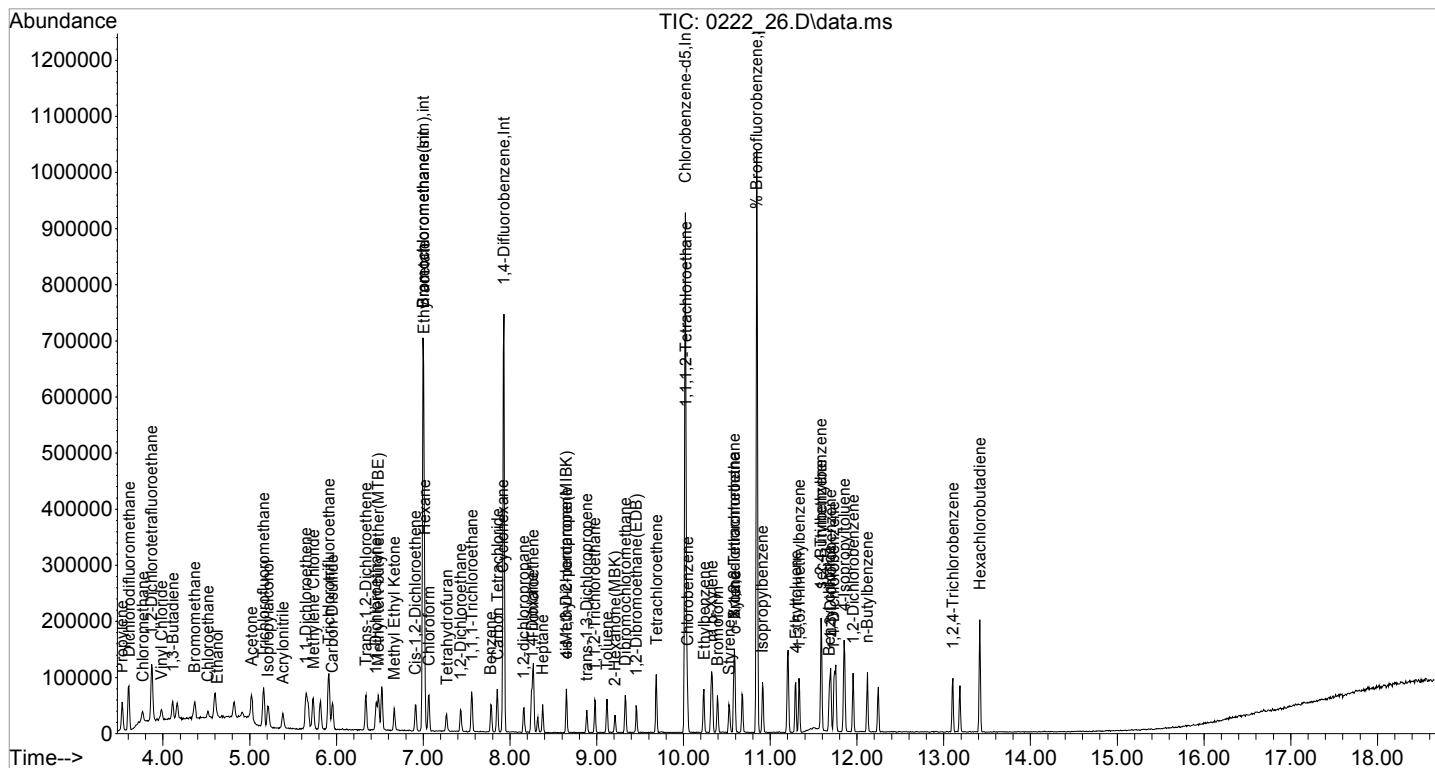
Quant Time: Feb 23 08:37:54 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113] 1,1,2,2-Tetrachloroeth...	10.585	83	28754	0.922	ppbv	99
114] o-Xylene(sim)	10.588	91	34956	0.864	ppbv	97
115] Isopropylbenzene(sim)	10.910	105	40766	0.853	ppbv	96
117] 4-Ethyltoluene(sim)	11.296	105	41641	0.800	ppbv	97
118] 1,3,5-Trimethylbenzene...	11.336	105	38189	0.845	ppbv	97
119] 1,2,4-Trimethylbenzene...	11.585	105	36776	0.932	ppbv	96
121] Benzyl chloride(sim)	11.681	91	33221	0.978	ppbv	96
122] 1,3-Dichlorobenzene(sim)	11.699	146	36961	0.844	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.733	146	25971	0.737	ppbv	98
124] sec-Butylbenzene(sim)	11.588	105	40826m	0.695	ppbv	
125] 4-Isopropyltoluene(sim)	11.852	119	43941	0.797	ppbv	96
126] 1,2-Dichlorobenzene(sim)	11.959	146	36200	0.838	ppbv	99
127] n-Butylbenzene(sim)	12.119	91	40161	0.827	ppbv	100
128] 1,2,4-Trichlorobenzene...	13.100	180	28078	0.845	ppbv	99
130] Hexachlorobutadiene(sim)	13.419	225	32955	0.869	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_26.D
Acq On : 23 Feb 2016 03:50 am
Operator : CORTEX\jms
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb - 1.0ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:37:54 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/23/16 Time: 04:26

Lab File Id: 0222_27.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Propylene	1.553	1.677		-8.0	30
Dichlorodifluoromethane	4.255	4.616		-8.5	30
Chloromethane	0.346	0.368		-6.5	30
1,2-Dichlorotetrafluoroethane	2.959	3.460		-16.9	30
Vinyl Chloride	1.054	1.189		-12.8	30
1,3-Butadiene	0.766	0.875		-14.3	30
Bromomethane	1.116	1.253		-12.3	30
Chloroethane	0.491	0.538		-9.6	30
Ethanol	0.317	0.366		-15.5	30
Acetone	1.780	2.410		-35.4 #	30
Trichlorofluoromethane	3.762	3.972		-5.6	30
Isopropylalcohol	3.255	3.250		0.2	30
Acrylonitrile	1.335	1.306		2.2	30
1,1-Dichloroethene	2.613	2.747		-5.1	30
Methylene Chloride	2.101	2.317		-10.3	30
Carbon Disulfide	4.037	4.186		-3.7	30
Trichlorotrifluoroethane	2.794	2.858		-2.3	30
Trans-1,2-Dichloroethene	1.984	2.153		-8.5	30
1,1-Dichloroethane	2.411	2.601		-7.9	30
Methyl tert-butyl ether(MTBE)	3.120	3.244		-4.0	30
Methyl Ethyl Ketone	2.435	2.746		-12.8	30
Cis-1,2-Dichloroethene	1.550	1.691		-9.1	30
Hexane	1.279	1.401		-9.5	30
Chloroform	2.356	2.629		-11.6	30
Ethyl acetate	3.213	3.655		-13.8	30
Tetrahydrofuran	0.923	1.036		-12.2	30
1,2-Dichloroethane	1.393	1.662		-19.3	30
1,1,1-Trichloroethane	2.062	2.361		-14.5	30
Benzene	2.133	2.257		-5.8	30
Carbon Tetrachloride	2.001	2.274		-13.6	30
Cyclohexane	0.556	0.635		-14.3	30
1,2-dichloropropane	0.270	0.290		-7.3	30
Bromodichloromethane	0.749	0.846		-13.0	30
Trichloroethene	0.347	0.364		-4.8	30
1,4-Dioxane	0.158	0.161		-1.9	30
Heptane	0.325	0.358		-10.2	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/23/16 Time: 04:26

Lab File Id: 0222_27.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
cis-1,3-Dichloropropene	0.447	0.504		-12.8	30
4-Methyl-2-pentanone(MIBK)	0.500	0.579		-15.9	30
trans-1,3-Dichloropropene	0.386	0.435		-12.8	30
1,1,2-Trichloroethane	0.311	0.331		-6.6	30
Toluene	0.752	0.789		-4.9	30
Dibromochloromethane	0.677	0.742		-9.6	30
2-Hexanone(MBK)	0.423	0.483		-14.1	30
1,2-Dibromoethane(EDB)	0.590	0.646		-9.5	30
Tetrachloroethene	0.504	0.528		-4.8	30
1,1,1,2-Tetrachloroethane	0.928	0.908		2.2	30
Chlorobenzene	1.559	1.500		3.8	30
Ethylbenzene	2.448	2.409		1.6	30
m,p-Xylene	1.833	1.857		-1.3	30
Bromoform	1.513	1.535		-1.4	30
Styrene	1.313	1.286		2.0	30
1,1,2,2-Tetrachloroethane	1.638	1.686		-3.0	30
o-Xylene	1.980	1.943		1.9	30
Isopropylbenzene	2.517	2.423		3.7	30
4-Ethyltoluene	2.733	2.653		2.9	30
1,3,5-Trimethylbenzene	2.273	2.220		2.3	30
1,2,4-Trimethylbenzene	2.091	2.251		-7.6	30
Benzyl chloride	2.144	2.254		-5.1	30
1,3-Dichlorobenzene	1.769	1.724		2.5	30
1,4-Dichlorobenzene	1.731	1.695		2.1	30
sec-Butylbenzene	2.781	2.251		19.1	30
4-Isopropyltoluene	2.756	2.671		3.1	30
1,2-Dichlorobenzene	1.756	1.667		5.1	30
n-Butylbenzene	2.537	2.537		0.0	30
1,2,4-Trichlorobenzene	1.458	1.403		3.7	30
Hexachlorobutadiene	1.447	1.312		9.3	30
% Bromofluorobenzene	1.321	1.353		-2.5	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_27.D
 Acq On : 23 Feb 2016 04:26 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:07 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	129405	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	351976	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	176551	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	129405	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	429325	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	191886	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	238811	10.243	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.40%		

Target Compounds					Qvalue
2) Propylene	3.536	41	217049	10.798	ppbv 99
3) Dichlorodifluoromethane	3.608	85	597393	10.849	ppbv 99
4) Chloromethane	3.767	52	47577	10.649	ppbv 94
5) 1,2-Dichlorotetrafluor...	3.875	85	447711	11.691	ppbv 96
6) Vinyl Chloride	3.983	62	153882	11.280	ppbv 99
7) 1,3-Butadiene	4.120	54	113196	11.425	ppbv 95
8) Bromomethane	4.365	94	162141	11.229	ppbv 98
9) Chloroethane	4.524	64	69666	10.973	ppbv 98
10) Ethanol	4.625	45	47338	11.543	ppbv 98
11) Acetone	5.022	43	311852	13.537	ppbv 96
12) Trichlorofluoromethane	5.166	101	514056	10.559	ppbv 99
13) Isopropylalcohol	5.216	45	420613	9.986	ppbv 96
14) Acrylonitrile	5.389	53	169062	9.786	ppbv 97
15) 1,1-Dichloroethene	5.649	61	355529	10.513	ppbv 95
16) Methylene Chloride	5.732	49	299830	11.029	ppbv 93
19) Carbon Disulfide	5.958	76	541724	10.369	ppbv 100
20) Trichlorotrifluoroethane	5.911	101	369843	10.229	ppbv 96
21) Trans-1,2-Dichloroethene	6.340	61	278560	10.851	ppbv 94
22) 1,1-Dichloroethane	6.460	63	336634	10.788	ppbv 100
23) Methyl tert-butyl ethe...	6.481	73	419745	10.396	ppbv 96
24) Methyl Ethyl Ketone	6.668	43	355410	11.280	ppbv 97
25) Cis-1,2-Dichloroethene	6.915	61	218811	10.908	ppbv 94
26) Hexane	7.014	57	181338	10.954	ppbv 92
27) Chloroform	7.067	83	340258	11.163	ppbv 98
28) Ethyl acetate	7.006	43	472926	11.374	ppbv 97
29) Tetrahydrofuran	7.263	42	134086	11.223	ppbv 93
30) 1,2-Dichloroethane	7.437	62	215062	11.929	ppbv 99
31) 1,1,1-Trichloroethane	7.566	97	305570	11.450	ppbv 98
32) Benzene	7.786	78	292014	10.580	ppbv 98
33) Carbon Tetrachloride	7.854	117	294321	11.367	ppbv 99
34) Cyclohexane	7.914	41	82134	11.428	ppbv 89
36) 1,2-dichloropropane	8.164	63	102110	10.726	ppbv 94
37) Bromodichloromethane	10.584	83	297725	11.300	ppbv 100
38) Trichloroethene	8.270	130	128245	10.492	ppbv 97
40) 1,4-Dioxane	8.255	88	56585	10.174	ppbv 94
42) Heptane	8.376	43	125959	11.020	ppbv 96
43) cis-1,3-Dichloropropene	8.649	75	177376	11.278	ppbv 94
44) 4-Methyl-2-pentanone(M...	8.649	43	203810	11.590	ppbv 97
45) trans-1,3-Dichloropropene	8.885	75	153110	11.284	ppbv 98
46) 1,1,2-Trichloroethane	8.984	97	116516	10.663	ppbv 97
47) Toluene	9.117	91	277643	10.487	ppbv 99
48) Dibromochloromethane	9.336	129	261274	10.969	ppbv 98

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_27.D
 Acq On : 23 Feb 2016 04:26 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:07 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	169991	11.403	ppbv	98
50) 1,2-Dibromoethane(EDB)	9.462	107	227328	10.956	ppbv	99
51) Tetrachloroethene	9.687	166	185678	10.467	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.036	131	160278	9.782	ppbv	98
54) Chlorobenzene	10.044	112	264856	9.625	ppbv	97
55) Ethylbenzene	10.236	91	425232	9.840	ppbv	98
56) m, p-Xylene	10.325	91	655622	20.257	ppbv	98
57) Bromoform	10.399	173	270969	10.142	ppbv	99
58) Styrene	10.532	104	226988	9.796	ppbv	95
59) 1,1,2,2-Tetrachloroethane	10.584	83	297725	10.298	ppbv	98
60) o-Xylene	10.591	91	343070	9.816	ppbv	97
63) Isopropylbenzene	10.917	105	427730	9.624	ppbv	98
65) 4-Ethyltoluene	11.295	105	468330	9.707	ppbv	99
66) 1,3,5-Trimethylbenzene	11.340	105	391990	9.770	ppbv	98
67) 1,2,4-Trimethylbenzene	11.592	105	397487	10.765	ppbv	98
69) Benzyl chloride	11.681	91	397860	10.513	ppbv	97
70) 1,3-Dichlorobenzene	11.695	146	304310	9.745	ppbv	98
71) 1,4-Dichlorobenzene	11.740	146	299173	9.793	ppbv	99
72) sec-Butylbenzene	11.592	105	397487	8.096	ppbv#	85
73) 4-Isopropyltoluene	11.851	119	471559	9.690	ppbv	97
74) 1,2-Dichlorobenzene	11.955	146	294291	9.494	ppbv	99
75) n-Butylbenzene	12.118	91	447924	10.001	ppbv	99
76) 1,2,4-Trichlorobenzene	13.104	180	247705	9.625	ppbv	99
78) Hexachlorobutadiene	13.416	225	231621	9.065	ppbv	99
80] Dichlorodifluoromethan...	3.611	85	764399	11.185	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.875	85	447711	11.225	ppbv	96
82] Vinyl Chloride(sim)	3.986	62	186330	11.400	ppbv	100
83] Bromomethane(sim)	4.365	94	162141	9.421	ppbv	98
84] Trichlorofluoromethane...	5.161	101	695393	11.212	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	215062	11.622	ppbv	99
86] 1,1,1-Trichloroethane(...	7.561	97	377996	11.472	ppbv#	98
87] Carbon Tetrachloride(sim)	7.854	117	294321	11.090	ppbv	99
88] 1,1-Dichloroethene(sim)	5.652	61	449379	10.895	ppbv	96
89] Carbon Disulfide(sim)	5.958	76	541724	10.312	ppbv	100
90] Trichlorotrifluoroetha...	5.914	101	493977	10.526	ppbv	100
91] Trans-1,2-Dichloroethe...	6.340	61	278560	10.332	ppbv	94
92] 1,1-Dichloroethane(sim)	6.463	63	408268	10.689	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	218811	10.360	ppbv	94
94] Chloroform(sim)	7.069	83	421914	11.222	ppbv	99
95] Benzene(sim)	7.786	78	292014	9.550	ppbv	98
97] 1,2-dichloropropane(sim)	8.164	63	102110	9.638	ppbv	94
98] Bromodichloromethane(sim)	10.587	83	364873	11.082	ppbv	100
99] Trichloroethene(sim)	8.270	130	128245	8.719	ppbv	96
100] 1,4-Dioxane(sim)	8.250	88	65305	9.147	ppbv	96
101] cis-1,3-Dichloropropen...	8.649	75	177376	11.464	ppbv	94
102] 1,1,2-Trichloroethane(...	8.979	97	145432	10.578	ppbv	99
103] Dibromochloromethane(sim)	9.336	129	261274	11.329	ppbv	98
104] 1,2-Dibromoethane(EDB)...	9.458	107	285080	11.334	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	185678	10.285	ppbv	99
107] Bromoform(sim)	10.399	173	270969	10.088	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	38631	8.539	ppbv	100
109] Chlorobenzene(sim)	10.044	112	264856	8.630	ppbv#	97
110] Ethylbenzene(sim)	10.232	91	471090	9.136	ppbv	99
111] m, p-Xylene(sim)	10.325	91	655622	17.471	ppbv	98
112] Styrene(sim)	10.528	104	251863	9.681	ppbv	96

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_27.D
 Acq On : 23 Feb 2016 04:26 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

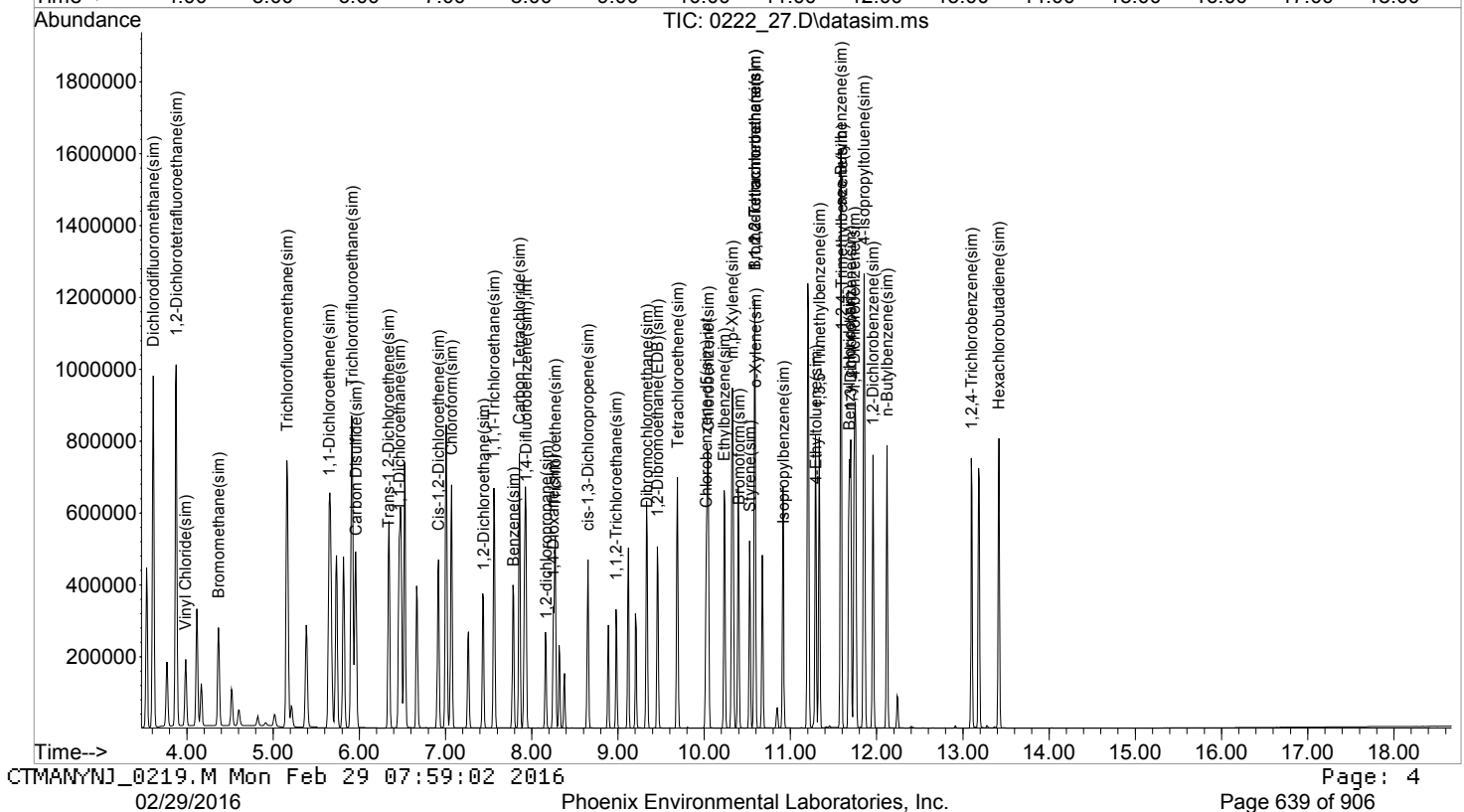
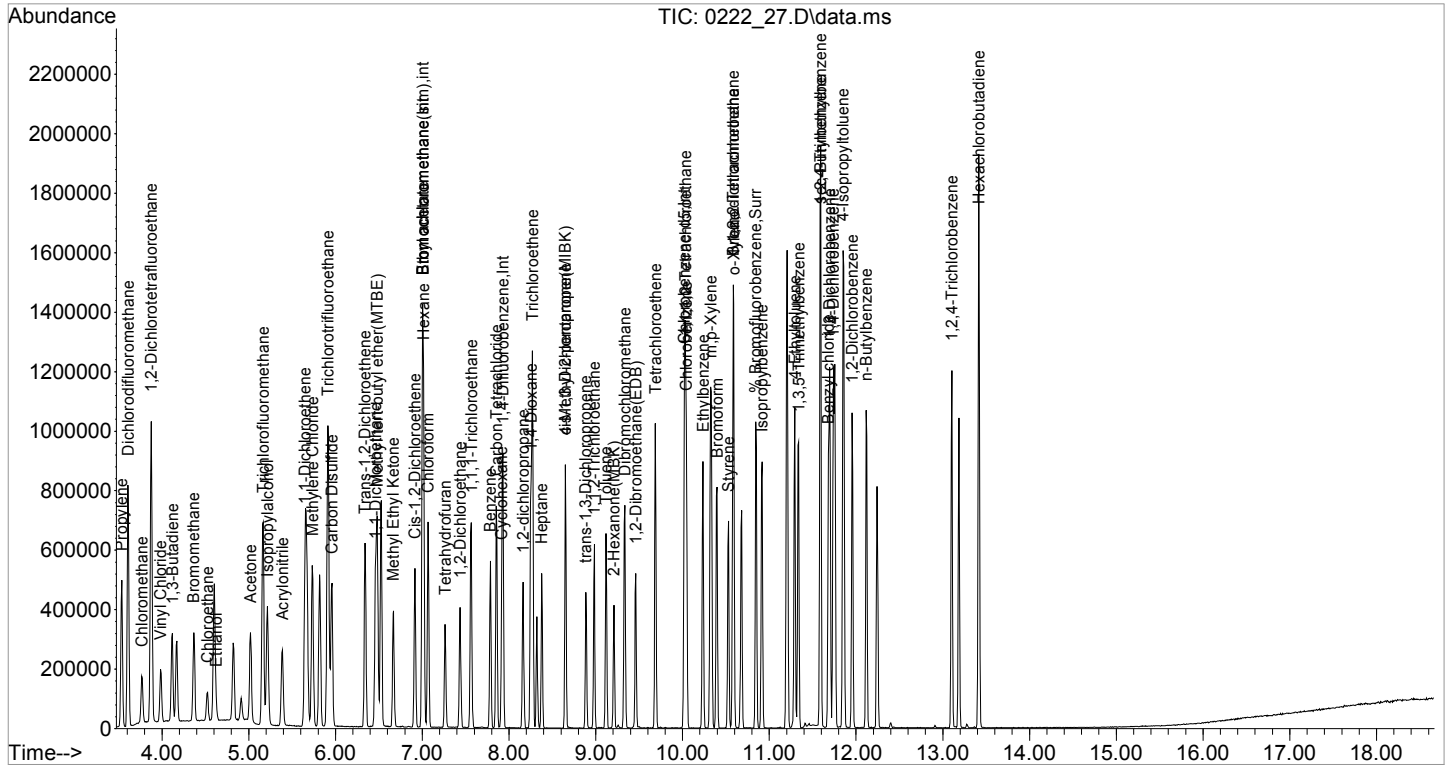
Quant Time: Feb 23 08:36:07 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113]	1,1,2,2-Tetrachloroeth...	10.584	83	297725	9.195	ppbv	100
114]	o-Xylene(sim)	10.594	91	381406	9.079	ppbv	98
115]	Isopropylbenzene(sim)	10.917	105	427730	8.626	ppbv	98
117]	4-Ethyltoluene(sim)	11.295	105	468330	8.673	ppbv	99
118]	1,3,5-Trimethylbenzene...	11.335	105	424812	9.060	ppbv	98
119]	1,2,4-Trimethylbenzene...	11.592	105	397487	9.707	ppbv	98
121]	Benzyl chloride(sim)	11.681	91	397860	11.283	ppbv	100
122]	1,3-Dichlorobenzene(sim)	11.698	146	398939	8.777	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.740	146	299173	8.174	ppbv	99
124]	sec-Butylbenzene(sim)	11.587	105	430829	7.067	ppbv	85
125]	4-Isopropyltoluene(sim)	11.851	119	471559	8.235	ppbv	97
126]	1,2-Dichlorobenzene(sim)	11.958	146	385867	8.602	ppbv	99
127]	n-Butylbenzene(sim)	12.118	91	447924	8.887	ppbv	99
128]	1,2,4-Trichlorobenzene...	13.100	180	342968	9.947	ppbv	99
130]	Hexachlorobutadiene(sim)	13.418	225	324108	8.231	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_27.D
Acq On : 23 Feb 2016 04:26 am
Operator : CORTEX\jms
Client ID : CCAL 10
Lab ID : 10ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:07 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/24/16 Time: 00:44

Lab File Id: 0222_58.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF1	RRF MIN	%D	MAX %D
Dichlorodifluoromethane(sim)	5.281	6.340		-20.1	30
1,2-Dichlorotetrafluoroethane(sim)	3.082	3.875		-25.7	30
Vinyl Chloride(sim)	1.263	1.616		-27.9	30
Bromomethane(sim)	1.330	1.335		-0.4	30
Trichlorofluoromethane(sim)	4.793	5.689		-18.7	30
1,2-Dichloroethane(sim)	1.430	1.801		-25.9	30
1,1,1-Trichloroethane(sim)	2.546	3.075		-20.8	30
Carbon Tetrachloride(sim)	2.051	2.434		-18.7	30
1,1-Dichloroethene(sim)	3.187	3.436		-7.8	30
Carbon Disulfide(sim)	4.059	4.049		0.3	30
Trichlorotrifluoroethane(sim)	3.627	3.969		-9.4	30
Trans-1,2-Dichloroethene(sim)	2.083	2.103		-0.9	30
1,1-Dichloroethane(sim)	2.951	3.201		-8.5	30
Cis-1,2-Dichloroethene(sim)	1.632	1.651		-1.2	30
Chloroform(sim)	2.905	3.434		-18.2	30
Benzene(sim)	2.363	2.186		7.5	30
1,2-dichloropropane(sim)	0.247	0.241		2.3	30
Bromodichloromethane(sim)	0.767	0.823		-7.3	30
Trichloroethene(sim)	0.343	0.287		16.3	30
1,4-Dioxane(sim)	0.166	0.129		22.4	30
cis-1,3-Dichloropropene(sim)	0.361	0.319		11.5	30
1,1,2-Trichloroethane(sim)	0.320	0.333		-4.0	30
Dibromochloromethane(sim)	0.537	0.531		1.2	30
1,2-Dibromoethane(EDB)(sim)	0.586	0.611		-4.3	30
Tetrachloroethene(sim)	0.420	0.416		1.1	30
Bromoform(sim)	1.400	1.085		22.5	30
1,1,1,2-Tetrachloroethane(sim)	0.236	0.201		14.7	30
Chlorobenzene(sim)	1.599	1.357		15.2	30
Ethylbenzene(sim)	2.687	2.094		22.1	30
m,p-Xylene(sim)	1.956	1.509		22.8	30
Styrene(sim)	1.356	0.869		35.9 #	30
1,1,2,2-Tetrachloroethane(sim)	1.688	1.597		5.4	30
o-Xylene(sim)	2.189	1.790		18.2	30
Isopropylbenzene(sim)	2.584	2.100		18.7	30
4-Ethyltoluene(sim)	2.814	2.006		28.7	30
1,3,5-Trimethylbenzene(sim)	2.444	1.940		20.6	30

(#) Maximum %D not met.

FORM VII AIR

7B

Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/24/16 Time: 00:44

Lab File Id: 0222_58.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N):	Y	Init. Calib. Times:	19:27	01:54

GC Column: zb-1ms

[illegible]

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_58.D
 Acq On : 24 Feb 2016 12:44 am
 Operator : CORTEX\ms
 Client ID : CCAL 1
 Lab ID : 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:54:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	139399	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	391148	10.000	ng	0.00
52) Chlorobenzene-d5	10.022	82	187863	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	139399	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	469381	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	201344	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	237631	9.579	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	95.80%	
Target Compounds						
					Qvalue	
2) Propylene	3.529	41	25388	1.172	ppbv	96
3) Dichlorodifluoromethane	3.608	85	68466	1.154	ppbv	98
4) Chloromethane	3.767	52	6577m	1.367	ppbv	
5) 1,2-Dichlorotetrafluor...	3.875	85	54020	1.309	ppbv	92
6) Vinyl Chloride	3.983	62	19026	1.295	ppbv	95
7) 1,3-Butadiene	4.113	54	14255	1.336	ppbv	96
8) Bromomethane	4.366	94	18606	1.196	ppbv#	93
9) Chloroethane	4.517	64	8243	1.205	ppbv	90
10) Ethanol	4.632	45	6952	1.574	ppbv#	86
11) Acetone	5.029	43	48107	1.939	ppbv#	88
12) Trichlorofluoromethane	5.159	101	58184	1.109	ppbv	99
13) Isopropylalcohol	5.216	45	46353	1.022	ppbv#	90
14) Acrylonitrile	5.390	53	17306	0.930	ppbv	96
15) 1,1-Dichloroethene	5.649	61	37526	1.030	ppbv	92
16) Methylene Chloride	5.732	49	33493	1.144	ppbv	90
19) Carbon Disulfide	5.953	76	56445	1.003	ppbv	98
20) Trichlorotrifluoroethane	5.911	101	38888	0.998	ppbv	95
21) Trans-1,2-Dichloroethene	6.340	61	29317	1.060	ppbv	91
22) 1,1-Dichloroethane	6.460	63	36890	1.097	ppbv	100
23) Methyl tert-butyl ethe...	6.486	73	39891	0.917	ppbv#	87
24) Methyl Ethyl Ketone	6.669	43	35676	1.051	ppbv	95
25) Cis-1,2-Dichloroethene	6.915	61	23017	1.065	ppbv	90
26) Hexane	7.014	57	18388	1.031	ppbv#	78
27) Chloroform	7.067	83	37270	1.135	ppbv	96
28) Ethyl acetate	7.006	43	50316	1.123	ppbv#	95
29) Tetrahydrofuran	7.271	42	12970	1.008	ppbv#	85
30) 1,2-Dichloroethane	7.438	62	25104	1.293	ppbv	100
31) 1,1,1-Trichloroethane	7.566	97	33352	1.160	ppbv	97
32) Benzene	7.786	78	30475	1.025	ppbv#	94
33) Carbon Tetrachloride	7.854	117	33924	1.216	ppbv	94
34) Cyclohexane	7.914	41	8967	1.158	ppbv#	43
36) 1,2-dichloropropane	8.164	63	11333	1.071	ppbv#	88
37) Bromodichloromethane	10.584	83	32148	1.098	ppbv	96
38) Trichloroethene	8.270	130	13451	0.990	ppbv	94
40) 1,4-Dioxane	8.255	88	5076	0.821	ppbv#	85
42) Heptane	8.376	43	13648	1.075	ppbv#	85
43) cis-1,3-Dichloropropene	8.649	75	14962	0.856	ppbv	97
44) 4-Methyl-2-pentanone(M...	8.649	43	15386	0.787	ppbv	98
45) trans-1,3-Dichloropropene	8.885	75	14024	0.930	ppbv	96
46) 1,1,2-Trichloroethane	8.984	97	12821	1.056	ppbv	99
47) Toluene	9.118	91	25826	0.878	ppbv#	95
48) Dibromochloromethane	9.329	129	24905	0.941	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_58.D
 Acq On : 24 Feb 2016 12:44 am
 Operator : CORTEX\ms
 Client ID : CCAL 1
 Lab ID : 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:54:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	13484	0.814	ppbv#	92
50) 1,2-Dibromoethane(EDB)	9.455	107	22160	0.961	ppbv	97
51) Tetrachloroethene	9.688	166	19416	0.985	ppbv	97
53) 1,1,1,2-Tetrachloroethane	10.029	131	17249	0.989	ppbv	95
54) Chlorobenzene	10.044	112	27313	0.933	ppbv	84
55) Ethylbenzene	10.236	91	36406	0.792	ppbv	99
56) m, p-Xylene	10.325	91	60762	1.764	ppbv	97
57) Bromoform	10.392	173	21847	0.768	ppbv	98
58) Styrene	10.532	104	16051	0.651	ppbv	90
59) 1,1,2,2-Tetrachloroethane	10.584	83	32148	1.045	ppbv#	90
60) o-Xylene	10.592	91	31826	0.856	ppbv	95
63) Isopropylbenzene	10.917	105	42292	0.894	ppbv	97
65) 4-Ethyltoluene	11.295	105	40390	0.787	ppbv	97
66) 1,3,5-Trimethylbenzene	11.332	105	34969	0.819	ppbv	98
67) 1,2,4-Trimethylbenzene	11.584	105	39555	1.007	ppbv	94
69) Benzyl chloride	11.681	91	36030	0.895	ppbv#	93
70) 1,3-Dichlorobenzene	11.696	146	29255	0.880	ppbv	96
71) 1,4-Dichlorobenzene	11.740	146	27848	0.857	ppbv	96
72) sec-Butylbenzene	11.584	105	39555	0.757	ppbv#	80
73) 4-Isopropyltoluene	11.851	119	43594	0.842	ppbv	93
74) 1,2-Dichlorobenzene	11.955	146	28788	0.873	ppbv	97
75) n-Butylbenzene	12.118	91	40610	0.852	ppbv	97
76) 1,2,4-Trichlorobenzene	13.104	180	20009	0.731	ppbv	96
78) Hexachlorobutadiene	13.416	225	24172	0.889	ppbv	99
80] Dichlorodifluoromethan...	3.611	85	88381	1.201	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.875	85	54020	1.257	ppbv	92
82] Vinyl Chloride(sim)	3.986	62	22520	1.279	ppbv	100
83] Bromomethane(sim)	4.366	94	18606	1.004	ppbv#	93
84] Trichlorofluoromethane...	5.162	101	79300	1.187	ppbv	100
85] 1,2-Dichloroethane(sim)	7.438	62	25104	1.259	ppbv	100
86] 1,1,1-Trichloroethane(...	7.562	97	42871	1.208	ppbv#	96
87] Carbon Tetrachloride(sim)	7.854	117	33924	1.187	ppbv	94
88] 1,1-Dichloroethene(sim)	5.652	61	47892	1.078	ppbv	94
89] Carbon Disulfide(sim)	5.953	76	56445	0.997	ppbv	98
90] Trichlorotrifluoroetha...	5.914	101	55325	1.094	ppbv	100
91] Trans-1,2-Dichloroethe...	6.340	61	29317	1.009	ppbv	90
92] 1,1-Dichloroethane(sim)	6.458	63	44623	1.085	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	23017	1.012	ppbv	90
94] Chloroform(sim)	7.070	83	47866	1.182	ppbv	97
95] Benzene(sim)	7.786	78	30475	0.925	ppbv#	94
97] 1,2-dichloropropane(sim)	8.164	63	11333	0.978	ppbv#	88
98] Bromodichloromethane(sim)	10.587	83	38636	1.073	ppbv	100
99] Trichloroethene(sim)	8.270	130	13451	0.836	ppbv	93
100] 1,4-Dioxane(sim)	8.258	88	6049	0.775	ppbv#	85
101] cis-1,3-Dichloropropen...	8.649	75	14962	0.884	ppbv	97
102] 1,1,2-Trichloroethane(...	8.980	97	15628	1.040	ppbv	98
103] Dibromochloromethane(sim)	9.329	129	24905	0.988	ppbv	98
104] 1,2-Dibromoethane(EDB)...	9.458	107	28676	1.043	ppbv	99
105] Tetrachloroethene(sim)	9.688	166	19514	0.989	ppbv	98
107] Bromoform(sim)	10.392	173	21847	0.775	ppbv	98
108] 1,1,1,2-Tetrachloroeth...	10.587	131	4038	0.851	ppbv	99
109] Chlorobenzene(sim)	10.044	112	27313	0.848	ppbv#	84
110] Ethylbenzene(sim)	10.232	91	42169	0.779	ppbv	97
111] m, p-Xylene(sim)	10.325	91	60762	1.543	ppbv	97
112] Styrene(sim)	10.528	104	17493	0.641	ppbv	92

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_58.D
 Acq On : 24 Feb 2016 12:44 am
 Operator : CORTEX\ms
 Client ID : CCAL 1
 Lab ID : 1.0ppb
 ALS Vial : 1 Sample Multiplier: 1

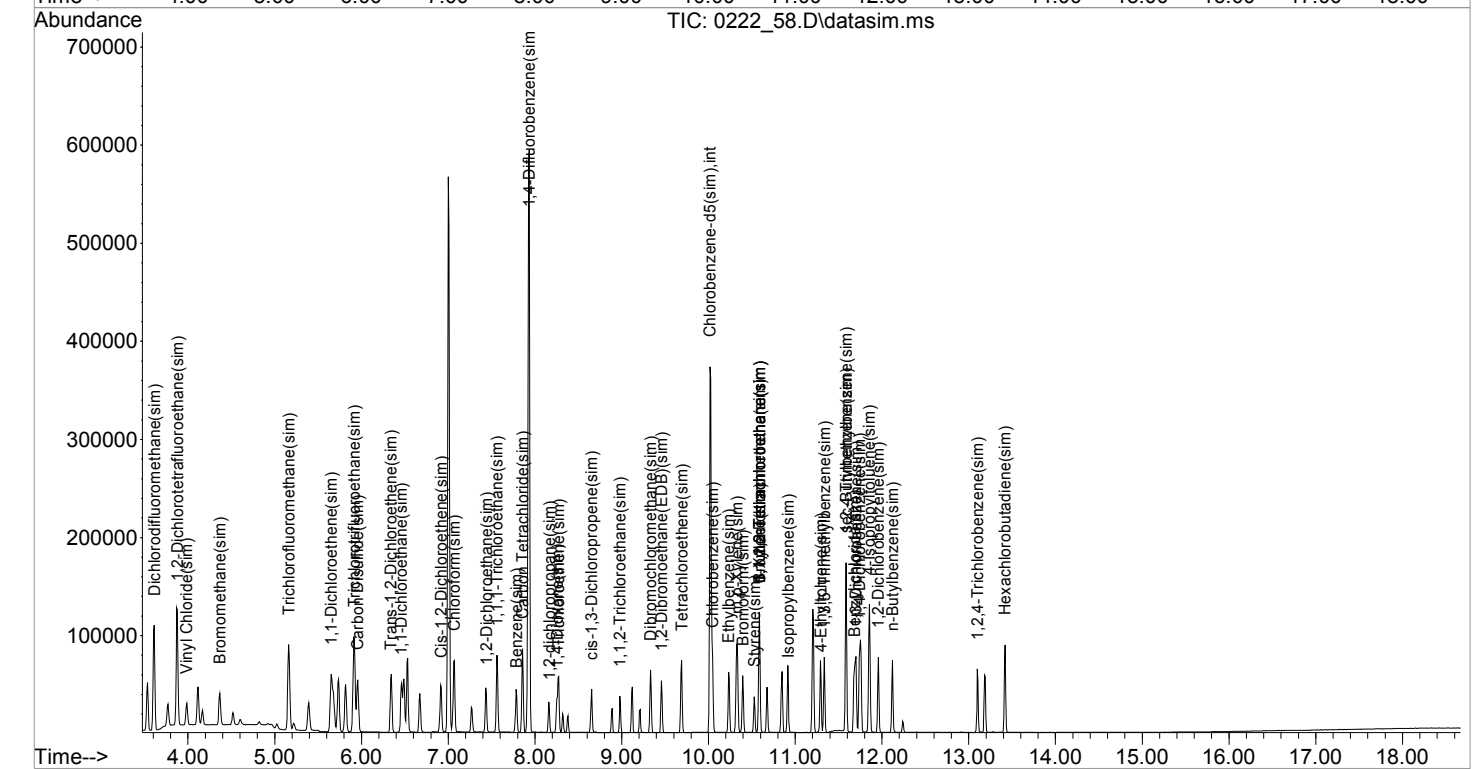
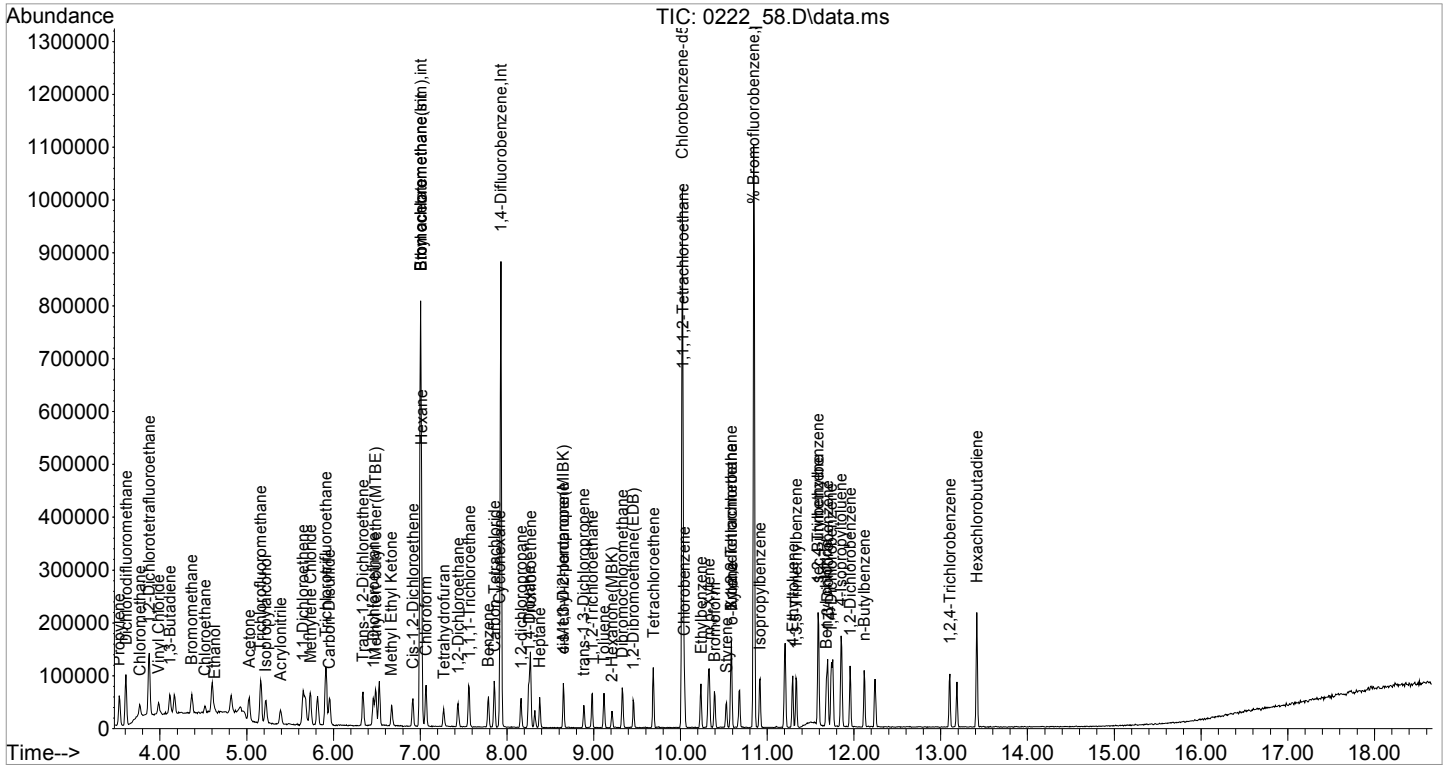
Quant Time: Feb 24 08:54:13 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113]	1,1,2,2-Tetrachloroeth...	10.584	83	32148	0.946	ppbv	96
114]	o-Xylene(sim)	10.587	91	36036	0.818	ppbv	97
115]	Isopropylbenzene(sim)	10.917	105	42292	0.813	ppbv	97
117]	4-Ethyltoluene(sim)	11.295	105	40390	0.713	ppbv	97
118]	1,3,5-Trimethylbenzene...	11.335	105	39069	0.794	ppbv	95
119]	1,2,4-Trimethylbenzene...	11.584	105	39555	0.921	ppbv	94
121]	Benzyl chloride(sim)	11.681	91	36030	0.974	ppbv	94
122]	1,3-Dichlorobenzene(sim)	11.699	146	40323	0.845	ppbv	99
123]	1,4-Dichlorobenzene(sim)	11.740	146	27848	0.725	ppbv	96
124]	sec-Butylbenzene(sim)	11.587	105	44489	0.696	ppbv	83
125]	4-Isopropyltoluene(sim)	11.851	119	43594	0.726	ppbv	93
126]	1,2-Dichlorobenzene(sim)	11.958	146	38724	0.823	ppbv	98
127]	n-Butylbenzene(sim)	12.118	91	40610	0.768	ppbv	97
128]	1,2,4-Trichlorobenzene...	13.100	180	28482	0.787	ppbv	98
130]	Hexachlorobutadiene(sim)	13.419	225	35209	0.852	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_58.D
Acq On : 24 Feb 2016 12:44 am
Operator : CORTEX\jms
Client ID : CCAL 1
Lab ID : 1.0ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:54:13 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/24/16 Time: 01:19

Lab File Id: 0222_59.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Propylene	1.553	1.722		-10.9	30
Dichlorodifluoromethane	4.255	4.633		-8.9	30
Chloromethane	0.346	0.390		-12.9	30
1,2-Dichlorotetrafluoroethane	2.959	3.623		-22.4	30
Vinyl Chloride	1.054	1.221		-15.8	30
1,3-Butadiene	0.766	0.898		-17.3	30
Bromomethane	1.116	1.320		-18.3	30
Chloroethane	0.491	0.551		-12.3	30
Ethanol	0.317	0.392		-23.7	30
Acetone	1.780	3.122		-75.4 #	30
Trichlorofluoromethane	3.762	3.938		-4.7	30
Isopropylalcohol	3.255	3.295		-1.2	30
Acrylonitrile	1.335	1.255		6.0	30
1,1-Dichloroethene	2.613	2.670		-2.2	30
Methylene Chloride	2.101	2.294		-9.2	30
Carbon Disulfide	4.037	3.864		4.3	30
Trichlorotrifluoroethane	2.794	2.695		3.5	30
Trans-1,2-Dichloroethene	1.984	2.037		-2.7	30
1,1-Dichloroethane	2.411	2.510		-4.1	30
Methyl tert-butyl ether(MTBE)	3.120	3.074		1.5	30
Methyl Ethyl Ketone	2.435	2.716		-11.5	30
Cis-1,2-Dichloroethene	1.550	1.694		-9.3	30
Hexane	1.279	1.381		-8.0	30
Chloroform	2.356	2.627		-11.5	30
Ethyl acetate	3.213	3.717		-15.7	30
Tetrahydrofuran	0.923	1.044		-13.1	30
1,2-Dichloroethane	1.393	1.715		-23.1	30
1,1,1-Trichloroethane	2.062	2.374		-15.1	30
Benzene	2.133	2.154		-1.0	30
Carbon Tetrachloride	2.001	2.295		-14.7	30
Cyclohexane	0.556	0.646		-16.3	30
1,2-dichloropropane	0.270	0.301		-11.3	30
Bromodichloromethane	0.749	0.892		-19.2	30
Trichloroethene	0.347	0.389		-12.0	30
1,4-Dioxane	0.158	0.164		-3.8	30
Heptane	0.325	0.388		-19.5	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM20 Calibration Date: 02/24/16 Time: 01:19

Lab File Id: 0222_59.D Init. Calib. Date(s): 02/19/16 02/20/16

Heated Purge (Y/N): Y Init. Calib. Times: 19:27 01:54

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
cis-1,3-Dichloropropene	0.447	0.461		-3.2	30
4-Methyl-2-pentanone(MIBK)	0.500	0.614		-22.9	30
trans-1,3-Dichloropropene	0.386	0.437		-13.4	30
1,1,2-Trichloroethane	0.311	0.344		-10.8	30
Toluene	0.752	0.783		-4.1	30
Dibromochloromethane	0.677	0.625		7.6	30
2-Hexanone(MBK)	0.423	0.509		-20.2	30
1,2-Dibromoethane(EDB)	0.590	0.665		-12.8	30
Tetrachloroethene	0.504	0.520		-3.2	30
1,1,1,2-Tetrachloroethane	0.928	0.912		1.7	30
Chlorobenzene	1.559	1.473		5.5	30
Ethylbenzene	2.448	2.374		3.0	30
m,p-Xylene	1.833	1.877		-2.4	30
Bromoform	1.513	0.592		60.9 #	30
Styrene	1.313	1.237		5.8	30
1,1,2,2-Tetrachloroethane	1.638	1.715		-4.7	30
o-Xylene	1.980	1.968		0.6	30
Isopropylbenzene	2.517	2.404		4.5	30
4-Ethyltoluene	2.733	2.574		5.8	30
1,3,5-Trimethylbenzene	2.273	2.145		5.6	30
1,2,4-Trimethylbenzene	2.091	2.218		-6.1	30
Benzyl chloride	2.144	2.250		-5.0	30
1,3-Dichlorobenzene	1.769	1.682		4.9	30
1,4-Dichlorobenzene	1.731	1.653		4.5	30
sec-Butylbenzene	2.781	2.218		20.2	30
4-Isopropyltoluene	2.756	2.670		3.1	30
1,2-Dichlorobenzene	1.756	1.618		7.8	30
n-Butylbenzene	2.537	2.556		-0.8	30
1,2,4-Trichlorobenzene	1.458	1.335		8.4	30
Hexachlorobutadiene	1.447	1.299		10.2	30
% Bromofluorobenzene	1.321	1.265		4.2	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_59.D
 Acq On : 24 Feb 2016 01:19 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:28:47 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	148088	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	384109	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	199850	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	148088	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	469974	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	216706	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	252899	9.583	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	95.80%	

Target Compounds						Qvalue
2) Propylene	3.536	41	254954	11.083	ppbv	99
3) Dichlorodifluoromethane	3.608	85	686055	10.887	ppbv	98
4) Chloromethane	3.767	52	57799	11.305	ppbv	99
5) 1,2-Dichlorotetrafluor...	3.875	85	536490	12.242	ppbv	94
6) Vinyl Chloride	3.983	62	180839	11.584	ppbv	100
7) 1,3-Butadiene	4.120	54	133006	11.731	ppbv	87
8) Bromomethane	4.365	94	195454	11.828	ppbv#	99
9) Chloroethane	4.524	64	81611	11.233	ppbv	95
10) Ethanol	4.632	45	58050	12.369	ppbv	97
11) Acetone	5.029	43	462332	17.538	ppbv	93
12) Trichlorofluoromethane	5.166	101	583112	10.467	ppbv	99
13) Isopropylalcohol	5.223	45	488018	10.124	ppbv	94
14) Acrylonitrile	5.397	53	185904	9.403	ppbv	99
15) 1,1-Dichloroethene	5.655	61	395332	10.215	ppbv	92
16) Methylene Chloride	5.738	49	339724	10.920	ppbv	92
19) Carbon Disulfide	5.958	76	572169	9.570	ppbv	100
20) Trichlorotrifluoroethane	5.917	101	399037	9.644	ppbv	95
21) Trans-1,2-Dichloroethene	6.345	61	301629	10.268	ppbv	90
22) 1,1-Dichloroethane	6.465	63	371662	10.408	ppbv	99
23) Methyl tert-butyl ethe...	6.486	73	455240	9.853	ppbv#	94
24) Methyl Ethyl Ketone	6.668	43	402242	11.156	ppbv	95
25) Cis-1,2-Dichloroethene	6.915	61	250812	10.926	ppbv	89
26) Hexane	7.014	57	204573	10.799	ppbv	87
27) Chloroform	7.074	83	388985	11.151	ppbv	97
28) Ethyl acetate	7.006	43	550374	11.566	ppbv	96
29) Tetrahydrofuran	7.263	42	154673	11.313	ppbv	90
30) 1,2-Dichloroethane	7.437	62	254006	12.311	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	351630	11.514	ppbv	96
32) Benzene	7.786	78	318917	10.097	ppbv	98
33) Carbon Tetrachloride	7.861	117	339817	11.469	ppbv	99
34) Cyclohexane	7.922	41	95605	11.624	ppbv	83
36) 1,2-dichloropropane	8.164	63	115488	11.117	ppbv#	87
37) Bromodichloromethane	10.584	83	342796	11.922	ppbv	99
38) Trichloroethene	8.270	130	149609	11.216	ppbv	97
40) 1,4-Dioxane	8.255	88	63113	10.398	ppbv	91
42) Heptane	8.376	43	148844	11.933	ppbv	93
43) cis-1,3-Dichloropropene	8.649	75	177213	10.325	ppbv	97
44) 4-Methyl-2-pentanone(M...	8.649	43	235989	12.297	ppbv#	92
45) trans-1,3-Dichloropropene	8.885	75	167858	11.336	ppbv	99
46) 1,1,2-Trichloroethane	8.984	97	132071	11.076	ppbv	96
47) Toluene	9.117	91	300881	10.414	ppbv	99
48) Dibromochloromethane	9.336	129	240230	9.242	ppbv	98

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_59.D
 Acq On : 24 Feb 2016 01:19 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:28:47 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	195657	12.027	ppbv	95
50) 1,2-Dibromoethane(EDB)	9.462	107	255546	11.286	ppbv	98
51) Tetrachloroethene	9.687	166	199695	10.316	ppbv	97
53) 1,1,1,2-Tetrachloroethane	10.029	131	182259	9.826	ppbv	99
54) Chlorobenzene	10.044	112	294418	9.452	ppbv	96
55) Ethylbenzene	10.236	91	474489	9.700	ppbv	97
56) m, p-Xylene	10.332	91	750116	20.474	ppbv	96
57) Bromoform	10.392	173	118392	3.915	ppbv	98
58) Styrene	10.532	104	247229	9.426	ppbv	92
59) 1,1,2,2-Tetrachloroethane	10.584	83	342796	10.474	ppbv	97
60) o-Xylene	10.591	91	393302	9.941	ppbv	96
63) Isopropylbenzene	10.917	105	480349	9.548	ppbv	98
65) 4-Ethyltoluene	11.295	105	514440	9.420	ppbv	98
66) 1,3,5-Trimethylbenzene	11.332	105	428697	9.439	ppbv	96
67) 1,2,4-Trimethylbenzene	11.592	105	443213	10.604	ppbv	97
69) Benzyl chloride	11.681	91	449641	10.497	ppbv	96
70) 1,3-Dichlorobenzene	11.695	146	336087	9.508	ppbv	97
71) 1,4-Dichlorobenzene	11.740	146	330433	9.555	ppbv	98
72) sec-Butylbenzene	11.592	105	443213	7.975	ppbv#	85
73) 4-Isopropyltoluene	11.851	119	533696	9.688	ppbv	95
74) 1,2-Dichlorobenzene	11.955	146	323449	9.219	ppbv	99
75) n-Butylbenzene	12.118	91	510900	10.077	ppbv	99
76) 1,2,4-Trichlorobenzene	13.104	180	266775	9.157	ppbv	99
78) Hexachlorobutadiene	13.416	225	259585	8.975	ppbv	99
80] Dichlorodifluoromethan...	3.611	85	891277	11.396	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.875	85	536490	11.754	ppbv	94
82] Vinyl Chloride(sim)	3.986	62	225288	12.045	ppbv	100
83] Bromomethane(sim)	4.365	94	195454	9.924	ppbv#	99
84] Trichlorofluoromethane...	5.169	101	811834	11.438	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	254006	11.995	ppbv	99
86] 1,1,1-Trichloroethane(...	7.569	97	441616	11.711	ppbv#	98
87] Carbon Tetrachloride(sim)	7.861	117	339817	11.189	ppbv	99
88] 1,1-Dichloroethene(sim)	5.658	61	508508	10.773	ppbv	93
89] Carbon Disulfide(sim)	5.958	76	572169	9.517	ppbv	100
90] Trichlorotrifluoroetha...	5.920	101	552748	10.293	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	301629	9.776	ppbv	90
92] 1,1-Dichloroethane(sim)	6.468	63	454946	10.408	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	250812	10.377	ppbv	89
94] Chloroform(sim)	7.069	83	489180	11.370	ppbv	98
95] Benzene(sim)	7.786	78	318917	9.114	ppbv	98
97] 1,2-dichloropropane(sim)	8.164	63	115488	9.958	ppbv#	87
98] Bromodichloromethane(sim)	10.587	83	423361	11.747	ppbv	100
99] Trichloroethene(sim)	8.270	130	149609	9.292	ppbv	98
100] 1,4-Dioxane(sim)	8.250	88	72238	9.243	ppbv	93
101] cis-1,3-Dichloropropen...	8.649	75	177213	10.463	ppbv	97
102] 1,1,2-Trichloroethane(...	8.979	97	167669	11.140	ppbv	99
103] Dibromochloromethane(sim)	9.336	129	240230	9.516	ppbv	98
104] 1,2-Dibromoethane(EDB)...	9.458	107	325128	11.808	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	199695	10.104	ppbv	97
107] Bromoform(sim)	10.392	173	118392	3.903	ppbv	98
108] 1,1,1,2-Tetrachloroeth...	10.587	131	43938	8.600	ppbv	100
109] Chlorobenzene(sim)	10.044	112	294418	8.494	ppbv#	96
110] Ethylbenzene(sim)	10.232	91	530723	9.113	ppbv	98
111] m, p-Xylene(sim)	10.332	91	750116	17.699	ppbv	96
112] Styrene(sim)	10.528	104	275635	9.381	ppbv	92

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_59.D
 Acq On : 24 Feb 2016 01:19 am
 Operator : CORTEX\ms
 Client ID : CCAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

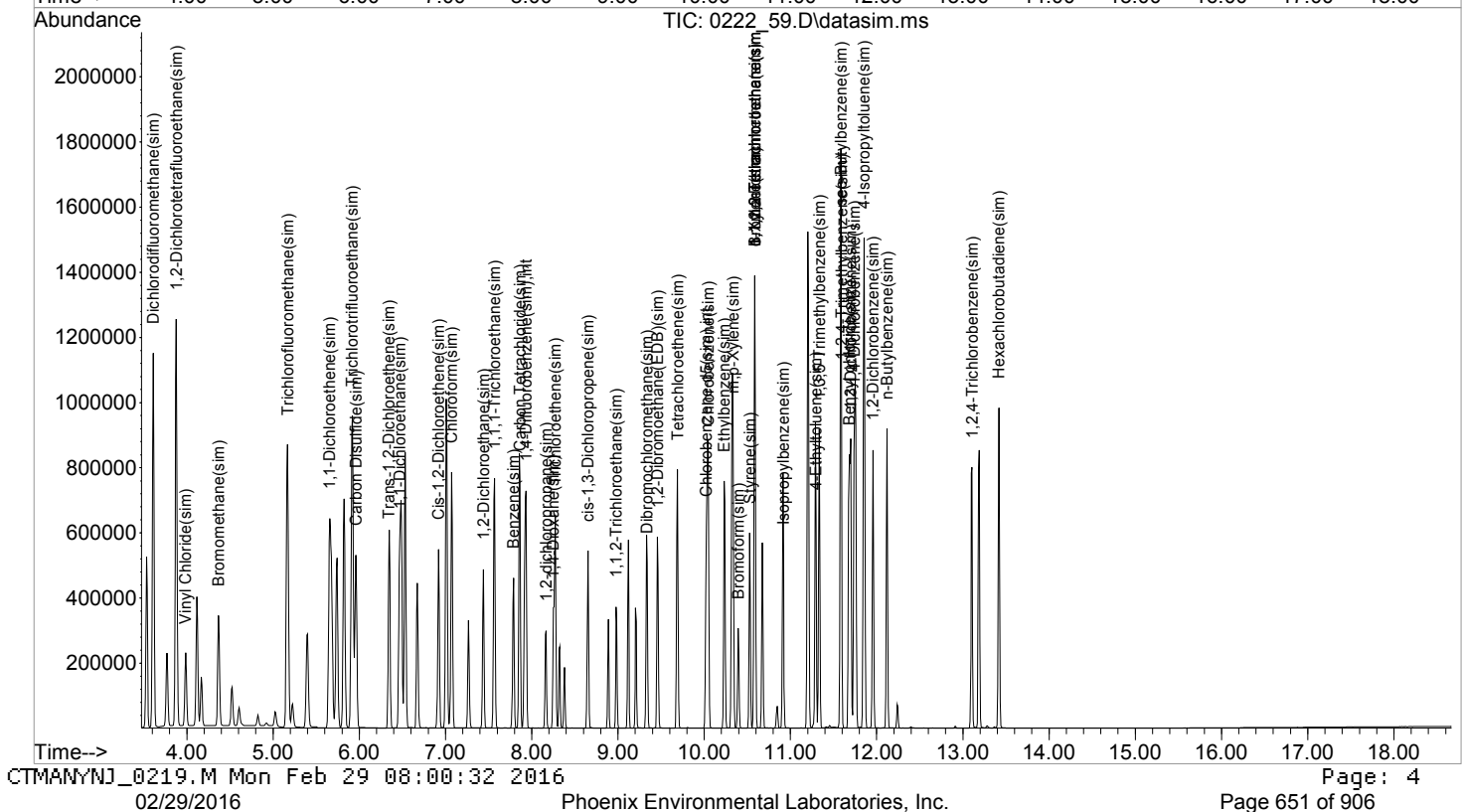
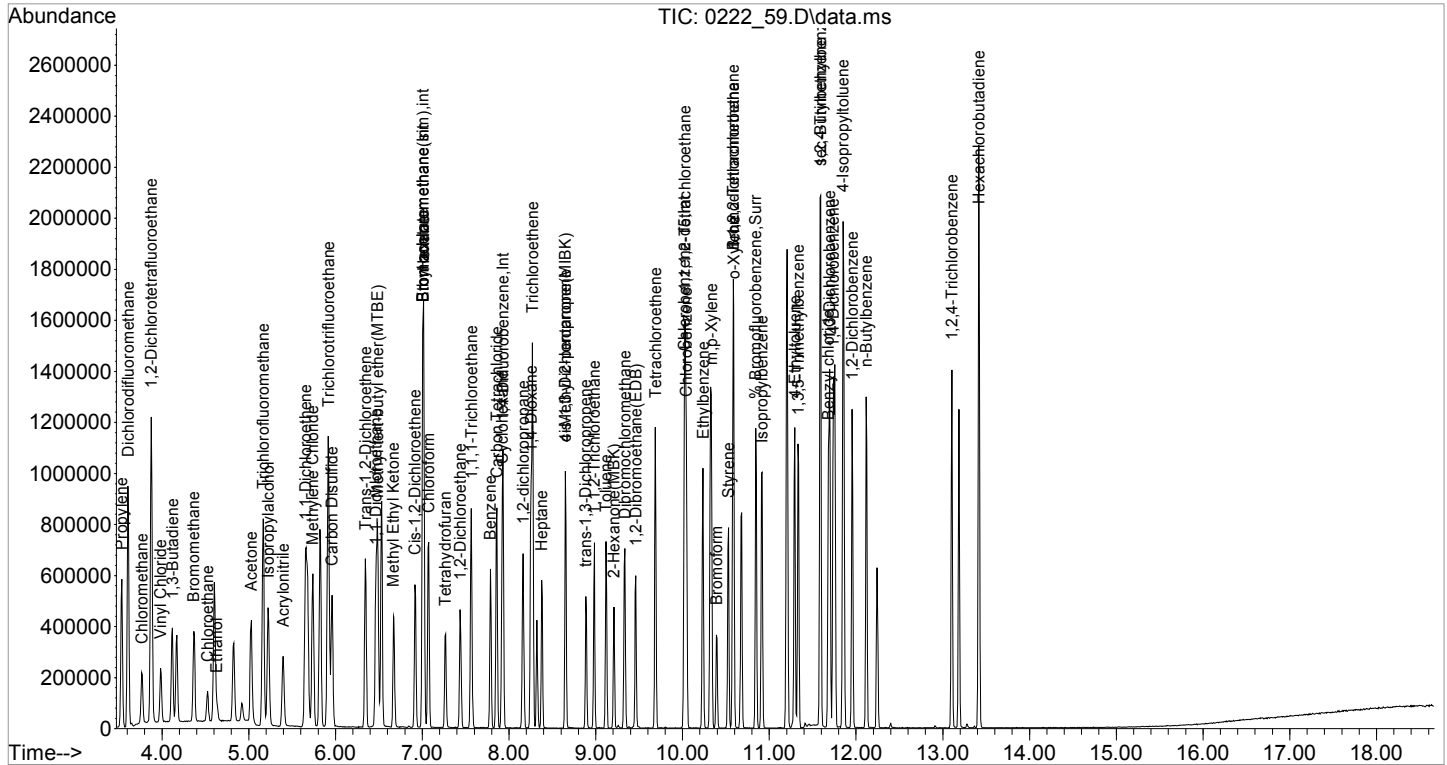
Quant Time: Feb 24 08:28:47 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:51:38 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113] 1,1,2,2-Tetrachloroeth...	10.584	83	342796	9.375	ppbv	99
114] o-Xylene(sim)	10.587	91	436043	9.191	ppbv	97
115] Isopropylbenzene(sim)	10.917	105	480349	8.578	ppbv	98
117] 4-Ethyltoluene(sim)	11.295	105	514440	8.436	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.335	105	479081	9.047	ppbv	96
119] 1,2,4-Trimethylbenzene...	11.592	105	443213	9.584	ppbv	97
121] Benzyl chloride(sim)	11.681	91	449641	11.291	ppbv	99
122] 1,3-Dichlorobenzene(sim)	11.698	146	446862	8.705	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.740	146	330433	7.994	ppbv	98
124] sec-Butylbenzene(sim)	11.587	105	476968	6.928	ppbv	85
125] 4-Isopropyltoluene(sim)	11.851	119	533696	8.253	ppbv	95
126] 1,2-Dichlorobenzene(sim)	11.958	146	427032	8.429	ppbv	98
127] n-Butylbenzene(sim)	12.118	91	510900	8.976	ppbv	99
128] 1,2,4-Trichlorobenzene...	13.107	180	377917	9.705	ppbv	99
130] Hexachlorobutadiene(sim)	13.418	225	374472	8.420	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_59.D
Acq On : 24 Feb 2016 01:19 am
Operator : CORTEX\jms
Client ID : CCAL 10
Lab ID : 10ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 24 08:28:47 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:51:38 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM24 Calibration Date: 02/24/16 Time: 05:29

Lab File Id: 0223_38.D Init. Calib. Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Init. Calib. Times: 12:07 17:09

GC Column: zb-1ms

COMPOUND	RRF	RRF1	RRF MIN	%D	MAX %D
1,2-Dichlorotetrafluoroethane(sim)	2.384	2.724		-14.3	30
Vinyl Chloride(sim)	0.798	0.806		-1.0	30
Bromomethane(sim)	1.022	1.071		-4.8	30
Trichlorofluoromethane(sim)	2.522	2.783		-10.3	30
Trans-1,2-Dichloroethene(sim)	1.310	1.364		-4.1	30
1,1-Dichloroethene(sim)	1.439	1.422		1.2	30
1,1-Dichloroethane(sim)	1.716	1.780		-3.7	30
Cis-1,2-Dichloroethene(sim)	1.241	1.191		4.0	30
1,2-Dichloroethane(sim)	1.447	1.538		-6.3	30
1,1,1-Trichloroethane(sim)	2.108	2.136		-1.3	30
Carbon Tetrachloride(sim)	2.345	2.305		1.7	30
Trichlorotrifluoroethane(sim)	1.938	2.077		-7.2	30
1,2-dichloropropane(sim)	0.265	0.247		6.9	30
Bromodichloromethane(sim)	0.609	0.534		12.3	30
Trichloroethene(sim)	0.414	0.381		7.9	30
1,4-Dioxane(sim)	0.168	0.158		5.7	30
cis-1,3-Dichloropropene(sim)	0.467	0.308		34.0 #	30
1,1,2-Trichloroethane(sim)	0.540	0.520		3.7	30
Dibromochloromethane(sim)	0.863	0.628		27.2	30
1,2-Dibromoethane(EDB)(sim)	0.991	0.919		7.3	30
Tetrachloroethene(sim)	0.803	0.657		18.2	30
Bromoform(sim)	1.142	0.909		20.4	30
1,1,1,2-Tetrachloroethane(sim)	0.934	0.839		10.1	30
m,p-Xylene(sim)	1.976	1.871		5.3	30
1,1,2,2-Tetrachloroethane(sim)	1.775	1.972		-11.1	30
Benzyl chloride(sim)	1.211	1.136		6.2	30
1,3-Dichlorobenzene(sim)	1.867	1.922		-3.0	30
1,4-Dichlorobenzene(sim)	1.579	1.420		10.1	30
sec-Butylbenzene(sim)	3.604	3.766		-4.5	30
4-Isopropyltoluene(sim)	2.849	2.848		0.0	30
1,2-Dichlorobenzene(sim)	1.826	1.867		-2.2	30
n-Butylbenzene(sim)	2.304	2.396		-4.0	30
1,2,4-Trichlorobenzene(sim)	1.002	0.930		7.2	30
Hexachlorobutadiene(sim)	1.799	1.612		10.4	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_38.D
 Acq On : 24 Feb 2016 5:29 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 24 09:15:55 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.085	130	106066	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.060	114	356788	10.000	ng	0.00
53) Chlorobenzene-d5	9.291	82	225996	10.000	ng	0.00
80) Bromochloromethane(sim)	4.085	130	106066	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.063	114	396566	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.286	82	258879	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	305957	10.203	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.00%		

Target Compounds					Qvalue	
2) Propylene	1.596	41	10741	0.900	ppbv	96
3) Dichlorodifluoromethane	1.622	85	37159	0.978	ppbv	98
4) Chloromethane	1.689	52	2726	0.935	ppbv#	69
5) 1,2-Dichlorotetrafluor...	1.732	85	26703	1.117	ppbv#	81
6) Vinyl Chloride	1.774	62	8551	0.975	ppbv	94
7) 1,3-Butadiene	1.825	54	6279	1.001	ppbv#	72
8) Bromomethane	1.935	94	10764	1.012	ppbv	98
9) Chloroethane	2.003	64	3687	0.979	ppbv	90
10) Ethanol	2.079	45	2938	0.891	ppbv	95
12) Acetone	2.283	43	15423	0.983	ppbv	97
13) Trichlorofluoromethane	2.325	101	29520	1.051	ppbv	98
14) Isopropylalcohol	2.410	45	18025	0.978	ppbv#	97
15) Acrylonitrile	2.469	53	5833	0.949	ppbv	95
16) 1,1-Dichloroethene	2.621	61	15081	1.008	ppbv#	86
17) Methylene Chloride	2.681	49	11334	1.017	ppbv	96
20) Carbon Disulfide	2.833	76	23356	1.025	ppbv	99
21) Trichlorotrifluoroethane	2.825	101	22027	1.030	ppbv#	86
22) Trans-1,2-Dichloroethene	3.204	61	13059	1.029	ppbv	89
23) 1,1-Dichloroethane	3.338	63	17319	1.032	ppbv	99
24) Methyl tert-butyl ethe...	3.438	73	22796	0.986	ppbv	97
25) Methyl Ethyl Ketone	3.665	43	18148	1.007	ppbv#	92
26) Cis-1,2-Dichloroethene	3.958	61	12636	1.012	ppbv	86
27) Hexane	4.151	57	11779	1.002	ppbv#	84
28) Chloroform	4.211	83	21991	1.032	ppbv	96
29) Ethyl acetate	4.231	43	20119	0.985	ppbv#	93
30) Tetrahydrofuran	4.632	42	8645	0.875	ppbv	88
31) 1,2-Dichloroethane	4.929	62	14756	1.044	ppbv	97
32) 1,1,1-Trichloroethane	5.196	97	22651	1.013	ppbv	95
33) Benzene	5.660	78	27450	1.027	ppbv	98
34) Carbon Tetrachloride	5.793	117	22753	0.922	ppbv	99
35) Cyclohexane	5.906	56	11904	0.946	ppbv#	88
37) 1,2-dichloropropane	6.427	63	9803	0.980	ppbv#	85
38) Bromodichloromethane	6.587	83	19284	0.927	ppbv	94
39) Trichloroethene	6.627	130	15116	1.014	ppbv	89
41) 1,4-Dioxane	6.700	88	5707	0.980	ppbv#	83
43) Heptane	6.940	71	6867	0.965	ppbv	93
44) cis-1,3-Dichloropropene	7.340	75	12201	0.940	ppbv	95
45) 4-Methyl-2-pentanone(M...	7.440	43	15517	0.960	ppbv#	95
46) trans-1,3-Dichloropropene	7.758	75	19208	0.829	ppbv	98
47) 1,1,2-Trichloroethane	7.860	97	17306	0.904	ppbv	94
48) Toluene	8.052	91	42805	0.879	ppbv	99
49) Dibromochloromethane	8.341	129	24915	0.669	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_38.D
 Acq On : 24 Feb 2016 5:29 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 24 09:15:55 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.327	43	32890	0.889	ppbv#	95
51) 1,2-Dibromoethane(EDB)	8.505	107	30468	0.875	ppbv	97
52) Tetrachloroethene	8.848	166	26136	0.796	ppbv	96
54) 1,1,1,2-Tetrachloroethane	9.313	131	17960	0.826	ppbv	95
55) Chlorobenzene	9.321	112	39483	1.046	ppbv	97
56) Ethylbenzene	9.571	91	58277	0.975	ppbv	95
57) m, p-Xylene	9.685	91	96875	2.072	ppbv	92
58) Bromoform	9.692	173	23649	0.670	ppbv	99
59) Styrene	9.882	104	33355	0.942	ppbv#	84
60) 1,1,2,2-Tetrachloroethane	9.943	83	43514	1.117	ppbv	96
61) o-Xylene	9.943	91	49718	1.059	ppbv	95
64) Isopropylbenzene	10.261	105	63174	1.004	ppbv	95
66) 4-Ethyltoluene	10.594	105	65522	0.975	ppbv	94
67) 1,3,5-Trimethylbenzene	10.638	105	58171	1.013	ppbv	94
68) 1,2,4-Trimethylbenzene	10.832	105	57861	1.025	ppbv	94
70) Benzyl chloride	10.897	91	29418	0.767	ppbv	96
71) 1,3-Dichlorobenzene	10.903	146	38965	0.915	ppbv	97
72) 1,4-Dichlorobenzene	10.935	146	36753	0.868	ppbv	96
73) sec-Butylbenzene	10.967	105	81446	1.022	ppbv	95
74) 4-Isopropyltoluene	11.049	119	73716	1.025	ppbv	93
75) 1,2-Dichlorobenzene	11.097	146	37169	0.898	ppbv	96
76) n-Butylbenzene	11.249	91	62037	1.003	ppbv#	94
77) 1,2,4-Trichlorobenzene	11.938	180	17602	0.661	ppbv	97
79) Hexachlorobutadiene	12.162	225	30778	0.795	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.726	85	28894	1.143	ppbv#	82
82] Vinyl Chloride(sim)	1.774	62	8551	1.010	ppbv	94
83] Bromomethane(sim)	1.938	94	11364	1.048	ug/l	99
84] Trichlorofluoromethane...	2.325	101	29520	1.104	ppbv	98
85] Trans-1,2-Dichloroethe...	3.207	61	14467	1.041	ppbv	88
86] 1,1-Dichloroethene(sim)	2.621	61	15081	0.988	ppbv#	86
87] 1,1-Dichloroethane(sim)	3.341	63	18879	1.037	ppbv	99
88] Cis-1,2-Dichloroethene...	3.958	61	12636	0.960	ppbv	86
89] 1,2-Dichloroethane(sim)	4.932	62	16309	1.062	ppbv	97
90] 1,1,1-Trichloroethane(...	5.196	97	22651	1.013	ppbv#	95
91] Carbon Tetrachloride(sim)	5.796	117	24453	0.983	ppbv	100
92] Trichlorotrifluoroetha...	2.825	101	22027	1.071	ppbv	99
94] 1,2-dichloropropane(sim)	6.427	63	9803	0.932	ppbv#	85
95] Bromodichloromethane(sim)	6.590	83	21166	0.877	ppbv	95
96] Trichloroethene(sim)	6.627	130	15116	0.921	ppbv	93
97] 1,4-Dioxane(sim)	6.703	88	6247	0.940	ppbv	82
98] cis-1,3-Dichloropropen...	7.340	75	12201	0.660	ppbv#	94
99] 1,1,2-Trichloroethane(...	7.863	97	20602	0.961	ppbv	94
100] Dibromochloromethane(sim)	8.341	129	24915	0.728	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.508	107	36455	0.928	ppbv	97
102] Tetrachloroethene(sim)	8.848	166	26070	0.818	ppbv	96
104] Bromoform(sim)	9.692	173	23541	0.797	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.316	131	21719	0.899	ppbv	100
106] m, p-Xylene(sim)	9.685	91	96875	1.893	ppbv#	92
107] 1,1,2,2-Tetrachloroeth...	9.938	83	51061	1.111	ppbv#	97
110] Benzyl chloride(sim)	10.897	91	29418	0.938	ppbv	97
111] 1,3-Dichlorobenzene(sim)	10.900	146	49760	1.030	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.935	146	36753	0.899	ppbv	96
113] sec-Butylbenzene(sim)	10.970	105	97482	1.045	ppbv	95
114] 4-Isopropyltoluene(sim)	11.049	119	73716	1.000	ppbv	93
115] 1,2-Dichlorobenzene(sim)	11.100	146	48324	1.022	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_38.D
Acq On : 24 Feb 2016 5:29 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 24 09:15:55 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

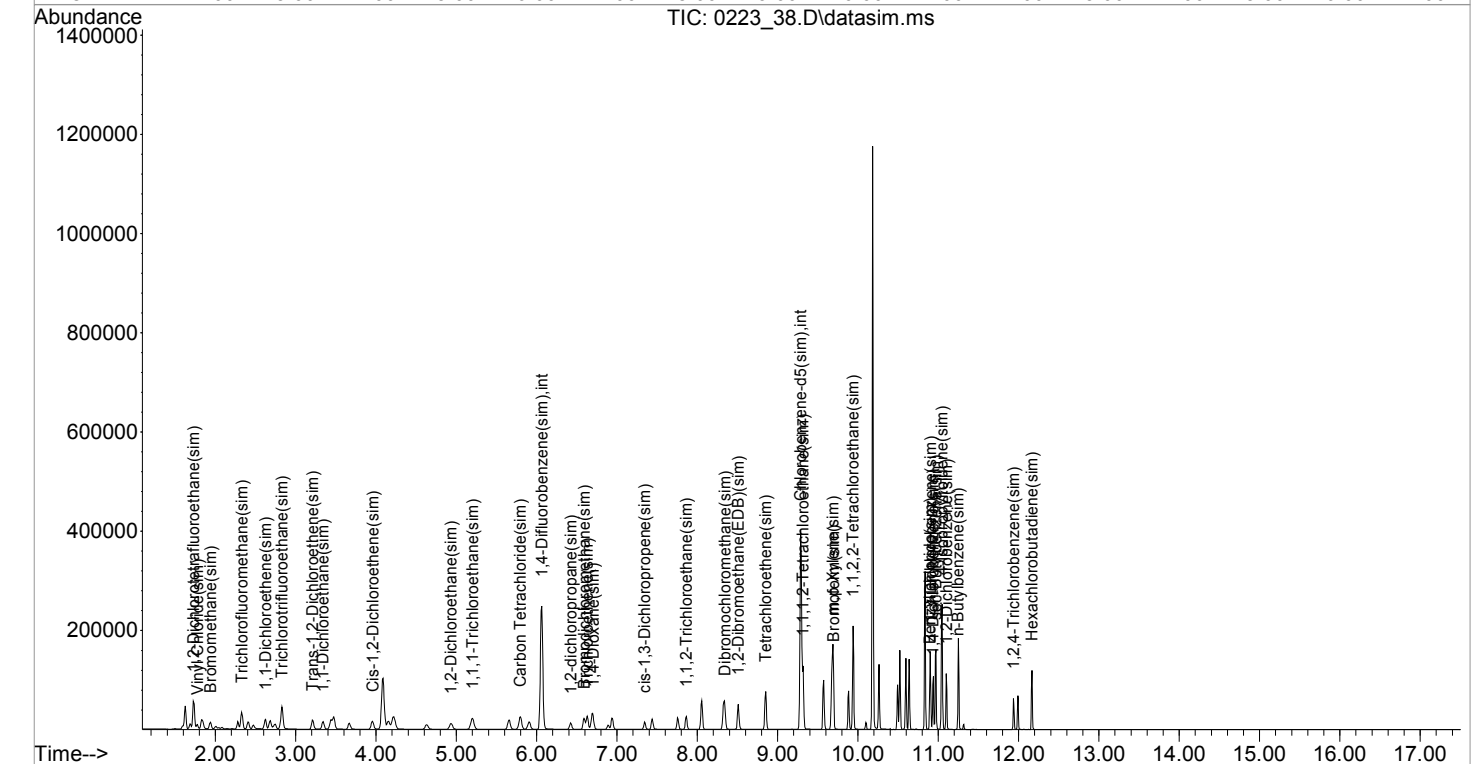
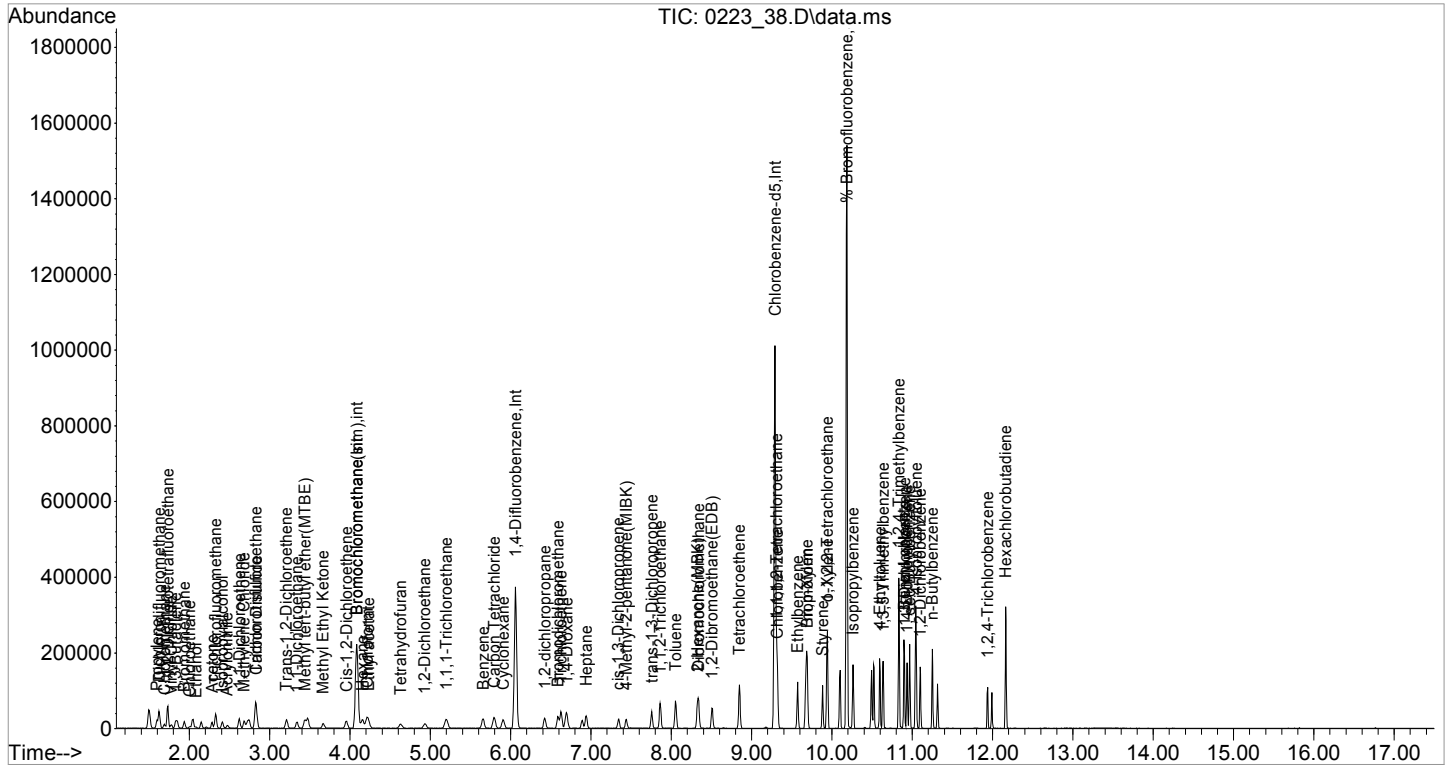
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.249	91	62037	1.040	ppbv	94
117] 1,2,4-Trichlorobenzene...	11.936	180	24076	0.929	ppbv	99
119] Hexachlorobutadiene(sim)	12.165	225	41721	0.896	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

```
Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_38.D
Acq On : 24 Feb 2016 5:29 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 35 Sample Multiplier: 1
```

Quant Time: Feb 24 09:15:55 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM24 Calibration Date: 02/24/16 Time: 05:58

Lab File Id: 0223_39.D Init. Calib. Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Init. Calib. Times: 12:07 17:09

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Propylene	1.125	1.049		6.7	30
Dichlorodifluoromethane	3.583	3.630		-1.3	30
Chloromethane	0.275	0.269		2.2	30
1,2-Dichlorotetrafluoroethane	2.254	2.440		-8.2	30
Vinyl Chloride	0.827	0.807		2.4	30
1,3-Butadiene	0.591	0.573		3.1	30
Bromomethane	1.003	0.961		4.2	30
Chloroethane	0.355	0.348		2.0	30
Ethanol	0.311	0.277		10.9	30
Acetone	1.479	1.286		13.1	30
Trichlorofluoromethane	2.649	2.627		0.8	30
Isopropylalcohol	1.738	1.453		16.4	30
Acrylonitrile	0.580	0.555		4.2	30
1,1-Dichloroethene	1.411	1.399		0.9	30
Methylene Chloride	1.051	1.008		4.1	30
Carbon Disulfide	2.149	2.179		-1.4	30
Trichlorotrifluoroethane	2.015	1.970		2.2	30
Trans-1,2-Dichloroethene	1.196	1.171		2.1	30
1,1-Dichloroethane	1.583	1.524		3.7	30
Methyl tert-butyl ether(MTBE)	2.179	2.020		7.3	30
Methyl Ethyl Ketone	1.700	1.580		7.0	30
Cis-1,2-Dichloroethene	1.177	1.152		2.1	30
Hexane	1.109	1.020		8.0	30
Chloroform	2.009	1.975		1.7	30
Ethyl acetate	1.925	1.766		8.3	30
Tetrahydrofuran	0.931	0.873		6.2	30
1,2-Dichloroethane	1.333	1.318		1.1	30
1,1,1-Trichloroethane	2.108	2.062		2.2	30
Benzene	2.519	2.423		3.8	30
Carbon Tetrachloride	2.328	2.258		3.0	30
Cyclohexane	1.187	1.057		10.9	30
1,2-dichloropropane	0.280	0.270		3.7	30
Bromodichloromethane	0.583	0.594		-1.8	30
Trichloroethene	0.418	0.423		-1.2	30
1,4-Dioxane	0.163	0.167		-2.3	30
Heptane	0.199	0.193		3.2	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM24 Calibration Date: 02/24/16 Time: 05:58

Lab File Id: 0223_39.D Init. Calib. Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Init. Calib. Times: 12:07 17:09

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
cis-1,3-Dichloropropene	0.364	0.624		-71.4 #	30
4-Methyl-2-pentanone(MIBK)	0.453	1.013		-123.6 #	30
trans-1,3-Dichloropropene	0.650	0.627		3.5	30
1,1,2-Trichloroethane	0.537	0.487		9.3	30
Toluene	1.364	1.232		9.7	30
Dibromochloromethane	1.044	0.970		7.1	30
2-Hexanone(MBK)	1.038	1.041		-0.3	30
1,2-Dibromoethane(EDB)	0.975	0.904		7.3	30
Tetrachloroethene	0.921	0.799		13.2	30
1,1,1,2-Tetrachloroethane	0.962	0.945		1.7	30
Chlorobenzene	1.671	1.628		2.6	30
Ethylbenzene	2.645	2.629		0.6	30
m,p-Xylene	2.068	2.188		-5.8	30
Bromoform	1.561	1.796		-15.0	30
Styrene	1.568	1.595		-1.8	30
1,1,2,2-Tetrachloroethane	1.724	1.798		-4.3	30
o-Xylene	2.078	2.117		-1.9	30
Isopropylbenzene	2.786	2.721		2.3	30
4-Ethyltoluene	2.972	3.049		-2.6	30
1,3,5-Trimethylbenzene	2.541	2.566		-1.0	30
1,2,4-Trimethylbenzene	2.497	2.635		-5.5	30
Benzyl chloride	1.696	2.048		-20.8	30
1,3-Dichlorobenzene	1.884	2.036		-8.1	30
1,4-Dichlorobenzene	1.874	1.950		-4.1	30
sec-Butylbenzene	3.528	3.577		-1.4	30
4-Isopropyltoluene	3.183	3.360		-5.6	30
1,2-Dichlorobenzene	1.832	1.881		-2.7	30
n-Butylbenzene	2.738	2.898		-5.8	30
1,2,4-Trichlorobenzene	1.179	1.310		-11.1	30
Hexachlorobutadiene	1.714	1.963		-14.5	30
% Bromofluorobenzene	1.327	1.330		-0.2	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_39.D
 Acq On : 24 Feb 2016 5:58 am
 Operator : Keith
 Client ID : CCAL 10
 Lab ID : 10ppb cc
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 24 09:15:58 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.085	130	106881	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.060	114	351551	10.000	ng	0.00
53) Chlorobenzene-d5	9.290	82	235917	10.000	ng	0.00
80) Bromochloromethane(sim)	4.085	130	106881	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.063	114	393083	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.293	82	269143	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	313696	10.021	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.20%		

Target Compounds						Qvalue
2) Propylene	1.596	41	112112	9.325	ppbv	99
3) Dichlorodifluoromethane	1.622	85	387925	10.129	ppbv	98
4) Chloromethane	1.689	52	28803	9.801	ppbv#	89
5) 1,2-Dichlorotetrafluor...	1.732	85	260820	10.827	ppbv#	81
6) Vinyl Chloride	1.774	62	86299	9.763	ppbv	97
7) 1,3-Butadiene	1.825	54	61249	9.688	ppbv#	77
8) Bromomethane	1.935	94	102707	9.584	ppbv	99
9) Chloroethane	2.003	64	37230	9.814	ppbv	86
10) Ethanol	2.071	45	29590	8.906	ppbv	98
12) Acetone	2.265	43	137465	8.694	ppbv	92
13) Trichlorofluoromethane	2.325	101	280789	9.917	ppbv	99
14) Isopropylalcohol	2.384	45	155321	8.362	ppbv	95
15) Acrylonitrile	2.460	53	59294	9.571	ppbv	99
16) 1,1-Dichloroethene	2.621	61	149571	9.918	ppbv	88
17) Methylene Chloride	2.681	49	107768	9.593	ppbv	98
20) Carbon Disulfide	2.825	76	232869	10.137	ppbv	98
21) Trichlorotrifluoroethane	2.825	101	210586	9.776	ppbv#	86
22) Trans-1,2-Dichloroethene	3.211	61	125165	9.791	ppbv#	86
23) 1,1-Dichloroethane	3.338	63	162894	9.631	ppbv	98
24) Methyl tert-butyl ethe...	3.411	73	215939	9.273	ppbv	96
25) Methyl Ethyl Ketone	3.638	43	168840	9.293	ppbv	94
26) Cis-1,2-Dichloroethene	3.958	61	123145	9.788	ppbv	85
27) Hexane	4.158	57	109049	9.202	ppbv#	84
28) Chloroform	4.211	83	211067	9.829	ppbv	97
29) Ethyl acetate	4.211	43	188766	9.173	ppbv	96
30) Tetrahydrofuran	4.591	42	93345	9.379	ppbv#	85
31) 1,2-Dichloroethane	4.936	62	140918	9.890	ppbv	97
32) 1,1,1-Trichloroethane	5.196	97	220376	9.782	ppbv	95
33) Benzene	5.660	78	258954	9.618	ppbv	98
34) Carbon Tetrachloride	5.793	117	241316	9.699	ppbv	100
35) Cyclohexane	5.906	56	112980	8.908	ppbv	90
37) 1,2-dichloropropane	6.426	63	94847	9.625	ppbv	89
38) Bromodichloromethane	6.593	83	208799	10.182	ppbv	97
39) Trichloroethene	6.627	130	148809	10.130	ppbv	91
41) 1,4-Dioxane	6.673	88	58579	10.208	ppbv#	81
43) Heptane	6.940	71	67675	9.649	ppbv#	91
44) cis-1,3-Dichloropropene	7.347	75	219307	17.143	ppbv	98
45) 4-Methyl-2-pentanone(M...	7.420	43	356155	22.365	ppbv#	90
46) trans-1,3-Dichloropropene	7.757	75	220428	9.651	ppbv	98
47) 1,1,2-Trichloroethane	7.860	97	171354	9.083	ppbv	96
48) Toluene	8.052	91	432981	9.028	ppbv	96
49) Dibromochloromethane	8.340	129	340856	9.287	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_39.D
 Acq On : 24 Feb 2016 5:58 am
 Operator : Keith
 Client ID : CCAL 10
 Lab ID : 10ppb cc
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 24 09:15:58 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.313	43	365814	10.029	ppbv#	98
51) 1,2-Dibromoethane(EDB)	8.512	107	317670	9.263	ppbv	96
52) Tetrachloroethene	8.848	166	280789	8.676	ppbv	93
54) 1,1,1,2-Tetrachloroethane	9.313	131	222845	9.820	ppbv	98
55) Chlorobenzene	9.321	112	384113	9.745	ppbv	88
56) Ethylbenzene	9.571	91	620250	9.940	ppbv	94
57) m, p-Xylene	9.685	91	1032377	21.157	ppbv	91
58) Bromoform	9.692	173	423747	11.505	ppbv	99
59) Styrene	9.882	104	376241	10.175	ppbv#	83
60) 1,1,2,2-Tetrachloroethane	9.943	83	424112	10.427	ppbv	94
61) o-Xylene	9.943	91	499433	10.188	ppbv	93
64) Isopropylbenzene	10.261	105	641935	9.769	ppbv	93
66) 4-Ethyltoluene	10.594	105	719309	10.258	ppbv	93
67) 1,3,5-Trimethylbenzene	10.637	105	605292	10.098	ppbv	92
68) 1,2,4-Trimethylbenzene	10.838	105	621525	10.551	ppbv	90
70) Benzyl chloride	10.897	91	483248	12.077	ppbv#	92
71) 1,3-Dichlorobenzene	10.902	146	480371	10.808	ppbv	95
72) 1,4-Dichlorobenzene	10.935	146	460133	10.410	ppbv	95
73) sec-Butylbenzene	10.967	105	843852	10.140	ppbv#	93
74) 4-Isopropyltoluene	11.048	119	792670	10.557	ppbv	90
75) 1,2-Dichlorobenzene	11.103	146	443681	10.265	ppbv	95
76) n-Butylbenzene	11.249	91	683754	10.585	ppbv#	93
77) 1,2,4-Trichlorobenzene	11.938	180	309050	11.110	ppbv	97
79) Hexachlorobutadiene	12.167	225	463124	11.453	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	280509	11.009	ppbv#	81
82] Vinyl Chloride(sim)	1.774	62	86299	10.115	ppbv	97
83] Bromomethane(sim)	1.938	94	108128	9.898	ug/l	100
84] Trichlorofluoromethane...	2.325	101	280789	10.417	ppbv	100
85] Trans-1,2-Dichloroethe...	3.207	61	139239	9.943	ppbv	89
86] 1,1-Dichloroethene(sim)	2.621	61	149571	9.722	ppbv	88
87] 1,1-Dichloroethane(sim)	3.341	63	179562	9.789	ppbv	99
88] Cis-1,2-Dichloroethene...	3.958	61	123145	9.287	ppbv	86
89] 1,2-Dichloroethane(sim)	4.932	62	155655	10.062	ppbv	97
90] 1,1,1-Trichloroethane(...	5.196	97	220376	9.783	ppbv#	95
91] Carbon Tetrachloride(sim)	5.796	117	257716	10.285	ppbv	100
92] Trichlorotrifluoroetha...	2.825	101	210586	10.164	ppbv	99
94] 1,2-dichloropropane(sim)	6.426	63	94847	9.094	ppbv	89
95] Bromodichloromethane(sim)	6.589	83	222881	9.312	ppbv	95
96] Trichloroethene(sim)	6.627	130	148809	9.148	ppbv	93
97] 1,4-Dioxane(sim)	6.676	88	63556	9.653	ppbv#	79
98] cis-1,3-Dichloropropen...	7.347	75	219307	11.962	ppbv	98
99] 1,1,2-Trichloroethane(...	7.863	97	201419	9.483	ppbv	94
100] Dibromochloromethane(sim)	8.340	129	340856	10.051	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.508	107	372091	9.552	ppbv	96
102] Tetrachloroethene(sim)	8.848	166	280789	8.892	ppbv	93
104] Bromoform(sim)	9.692	173	423504	13.783	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.316	131	264464	10.524	ppbv	100
106] m, p-Xylene(sim)	9.685	91	1032592	19.412	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.938	83	475482	9.954	ppbv#	96
110] Benzyl chloride(sim)	10.897	91	483560	14.833	ppbv	92
111] 1,3-Dichlorobenzene(sim)	10.900	146	579277	11.530	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.935	146	460133	10.826	ppbv	95
113] sec-Butylbenzene(sim)	10.970	105	974072	10.042	ppbv	93
114] 4-Isopropyltoluene(sim)	11.048	119	792670	10.338	ppbv	90
115] 1,2-Dichlorobenzene(sim)	11.100	146	546322	11.115	ppbv	96

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_39.D
Acq On : 24 Feb 2016 5:58 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb cc
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 24 09:15:58 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

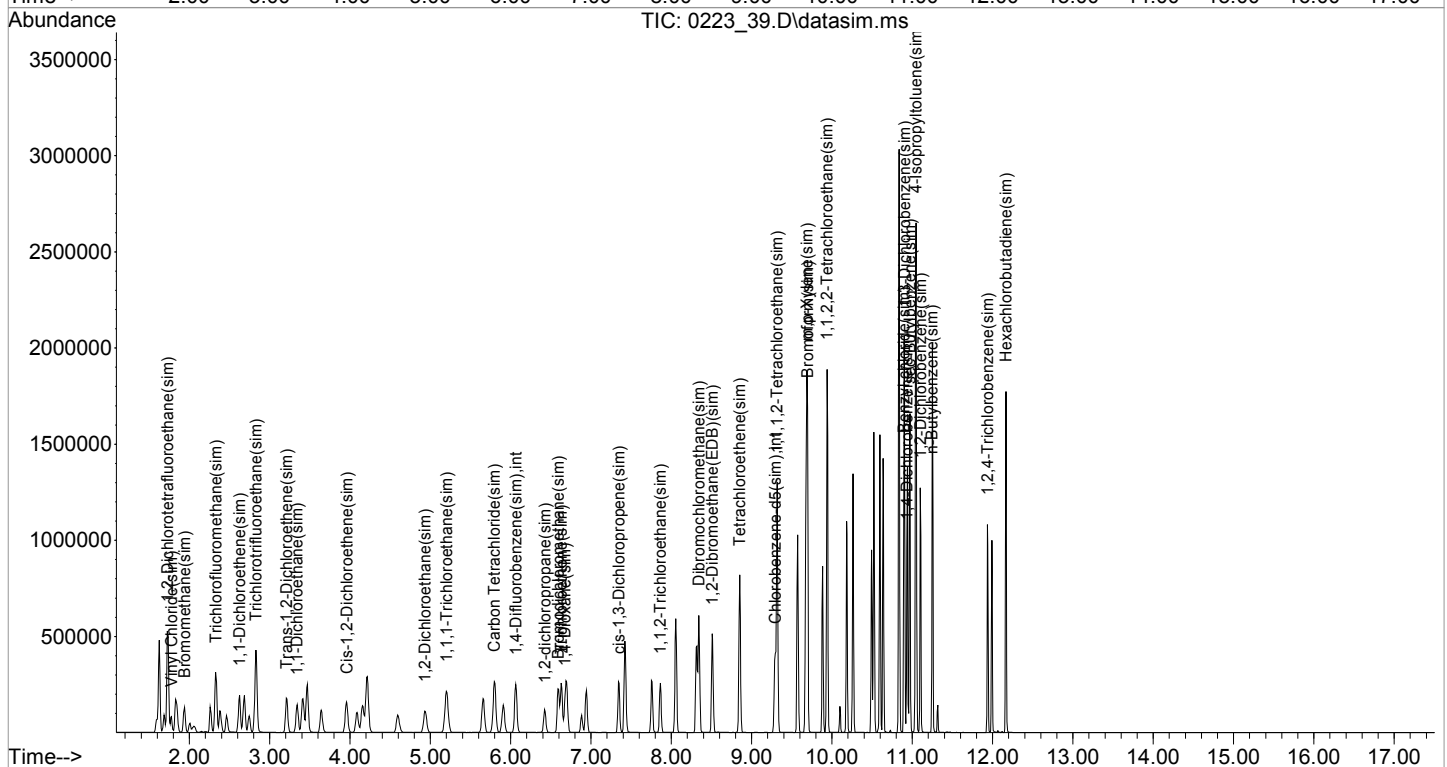
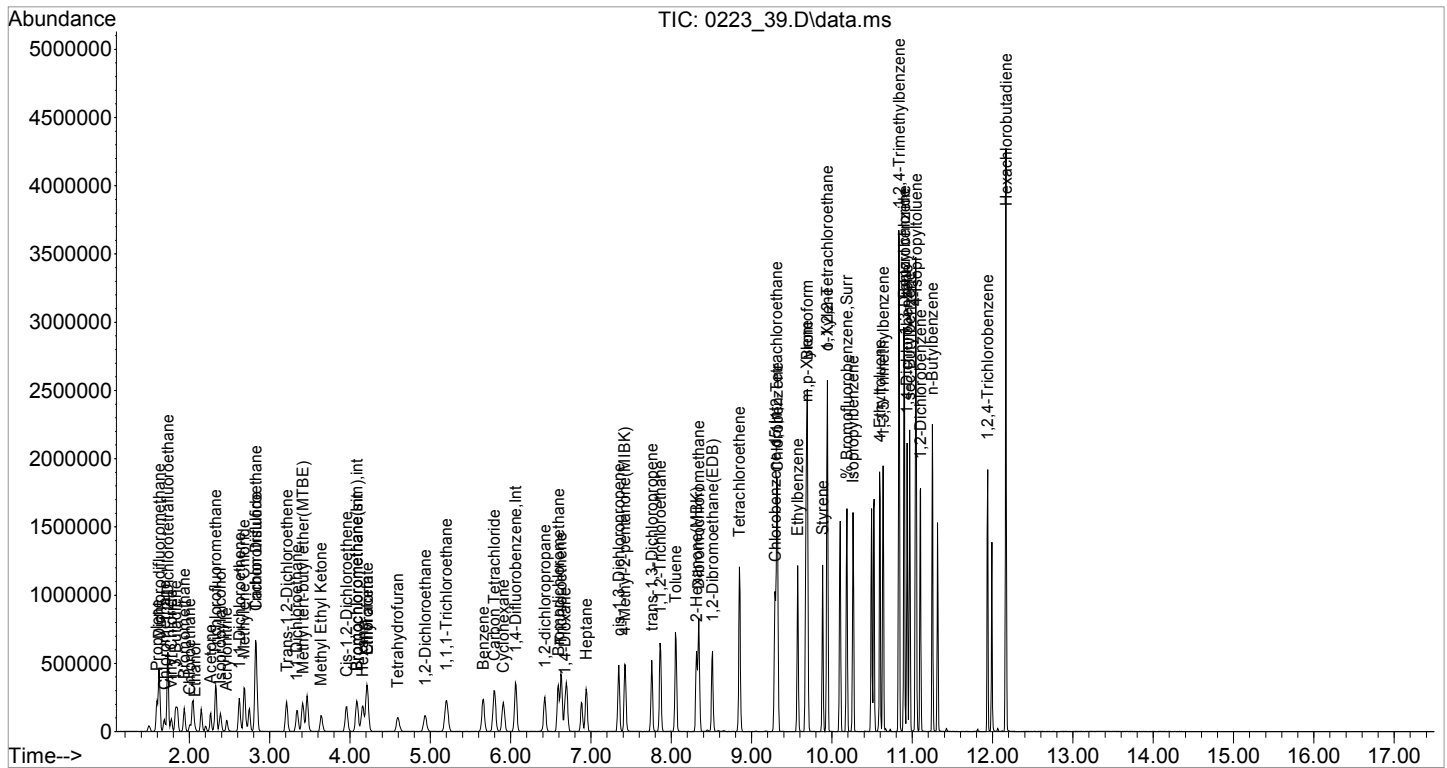
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.249	91	683754	11.025	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.936	180	401066	14.878	ppbv	98
119] Hexachlorobutadiene(sim)	12.165	225	573762	11.854	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_39.D
Acq On : 24 Feb 2016 5:58 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb cc
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 24 09:15:58 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM24 Calibration Date: 02/24/16 Time: 15:58

Lab File Id: 0223_56.D Init. Calib. Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Init. Calib. Times: 12:07 17:09

GC Column: zb-1ms

COMPOUND	RRF	RRF1	RRF MIN	%D	MAX %D
1,2-Dichlorotetrafluoroethane(sim)	2.384	2.873		-20.5	30
Vinyl Chloride(sim)	0.798	0.854		-7.0	30
Bromomethane(sim)	1.022	1.081		-5.8	30
Trichlorofluoromethane(sim)	2.522	2.882		-14.3	30
Trans-1,2-Dichloroethene(sim)	1.310	1.374		-4.9	30
1,1-Dichloroethene(sim)	1.439	1.469		-2.1	30
1,1-Dichloroethane(sim)	1.716	1.797		-4.7	30
Cis-1,2-Dichloroethene(sim)	1.241	1.184		4.6	30
1,2-Dichloroethane(sim)	1.447	1.555		-7.4	30
1,1,1-Trichloroethane(sim)	2.108	2.108		0.0	30
Carbon Tetrachloride(sim)	2.345	2.454		-4.7	30
Trichlorotrifluoroethane(sim)	1.938	2.141		-10.5	30
1,2-dichloropropane(sim)	0.265	0.252		5.0	30
Bromodichloromethane(sim)	0.609	0.557		8.5	30
Trichloroethene(sim)	0.414	0.385		6.9	30
1,4-Dioxane(sim)	0.168	0.162		3.3	30
cis-1,3-Dichloropropene(sim)	0.467	0.311		33.4 #	30
1,1,2-Trichloroethane(sim)	0.540	0.485		10.2	30
Dibromochloromethane(sim)	0.863	0.657		23.8	30
1,2-Dibromoethane(EDB)(sim)	0.991	0.849		14.3	30
Tetrachloroethene(sim)	0.803	0.559		30.4 #	30
Bromoform(sim)	1.142	1.128		1.2	30
1,1,1,2-Tetrachloroethane(sim)	0.934	0.905		3.1	30
m,p-Xylene(sim)	1.976	1.882		4.8	30
1,1,2,2-Tetrachloroethane(sim)	1.775	2.029		-14.3	30
Benzyl chloride(sim)	1.211	1.002		17.3	30
1,3-Dichlorobenzene(sim)	1.867	1.891		-1.3	30
1,4-Dichlorobenzene(sim)	1.579	1.461		7.5	30
sec-Butylbenzene(sim)	3.604	3.730		-3.5	30
4-Isopropyltoluene(sim)	2.849	2.698		5.3	30
1,2-Dichlorobenzene(sim)	1.826	1.868		-2.3	30
n-Butylbenzene(sim)	2.304	2.372		-2.9	30
1,2,4-Trichlorobenzene(sim)	1.002	0.926		7.6	30
Hexachlorobutadiene(sim)	1.799	1.509		16.1	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_56.D
 Acq On : 24 Feb 2016 3:58 pm
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb cc
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Feb 25 07:56:30 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.111	130	105597	10.000	ng	0.03
36) 1,4-Difluorobenzene	6.081	114	348702	10.000	ng	0.03
53) Chlorobenzene-d5	9.306	82	206403	10.000	ng	0.02
80) Bromochloromethane(sim)	4.111	130	105597	10.000	ng	0.03
93) 1,4-Difluorobenzene(sim)	6.084	114	394491	10.000	ng	# 0.03
103) Chlorobenzene-d5(sim)	9.301	82	242648	10.000	ng	0.02

System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	280495	10.242	ppbv	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.40%		

Target Compounds				Qvalue		
2) Propylene	1.605	41	10948	0.922	ppbv	98
3) Dichlorodifluoromethane	1.639	85	35705	0.944	ppbv	99
4) Chloromethane	1.698	52	3019	1.040	ppbv#	70
5) 1,2-Dichlorotetrafluor...	1.740	85	28179	1.184	ppbv#	83
6) Vinyl Chloride	1.783	62	9013	1.032	ppbv	100
7) 1,3-Butadiene	1.842	54	6224	0.996	ppbv#	71
8) Bromomethane	1.952	94	10781	1.018	ppbv	99
9) Chloroethane	2.020	64	3720	0.993	ppbv	93
10) Ethanol	2.096	45	3244	0.988	ppbv	97
12) Acetone	2.300	43	15851	1.015	ppbv	95
13) Trichlorofluoromethane	2.342	101	30430	1.088	ppbv	99
14) Isopropylalcohol	2.427	45	18616	1.014	ppbv#	99
15) Acrylonitrile	2.486	53	5623	0.919	ppbv	97
16) 1,1-Dichloroethene	2.638	61	15517	1.041	ppbv	89
17) Methylene Chloride	2.698	49	11802	1.063	ppbv	94
20) Carbon Disulfide	2.850	76	22823	1.006	ppbv	98
21) Trichlorotrifluoroethane	2.850	101	22609	1.062	ppbv#	86
22) Trans-1,2-Dichloroethene	3.231	61	12929	1.024	ppbv	87
23) 1,1-Dichloroethane	3.358	63	16692	0.999	ppbv	98
24) Methyl tert-butyl ethe...	3.458	73	21868	0.951	ppbv	95
25) Methyl Ethyl Ketone	3.691	43	18169	1.012	ppbv#	92
26) Cis-1,2-Dichloroethene	3.978	61	12503	1.006	ppbv	86
27) Hexane	4.178	57	11553	0.987	ppbv#	84
28) Chloroform	4.238	83	21995	1.037	ppbv	97
29) Ethyl acetate	4.258	43	19805	0.974	ppbv#	93
30) Tetrahydrofuran	4.658	42	9989	1.016	ppbv#	86
31) 1,2-Dichloroethane	4.964	62	14477	1.028	ppbv	96
32) 1,1,1-Trichloroethane	5.224	97	22263	1.000	ppbv	94
33) Benzene	5.681	78	26640	1.001	ppbv	98
34) Carbon Tetrachloride	5.822	117	23980	0.976	ppbv	99
35) Cyclohexane	5.927	56	11763	0.939	ppbv#	88
37) 1,2-dichloropropane	6.447	63	9923	1.015	ppbv#	87
38) Bromodichloromethane	6.607	83	20206	0.993	ppbv	96
39) Trichloroethene	6.647	130	15188	1.042	ppbv	90
41) 1,4-Dioxane	6.720	88	5883	1.034	ppbv	82
43) Heptane	6.960	71	7043	1.012	ppbv#	92
44) cis-1,3-Dichloropropene	7.360	75	12281	0.968	ppbv	94
45) 4-Methyl-2-pentanone(M...	7.454	43	15220	0.964	ppbv#	95
46) trans-1,3-Dichloropropene	7.771	75	16344	0.721	ppbv	99
47) 1,1,2-Trichloroethane	7.874	97	15804	0.845	ppbv	96
48) Toluene	8.066	91	38162	0.802	ppbv	97
49) Dibromochloromethane	8.354	129	26004	0.714	ppbv	100

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_56.D
 Acq On : 24 Feb 2016 3:58 pm
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb cc
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Feb 25 07:56:30 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.341	43	30505	0.843	ppbv#	92
51) 1,2-Dibromoethane(EDB)	8.526	107	27454	0.807	ppbv	99
52) Tetrachloroethene	8.862	166	22170	0.691	ppbv	97
54) 1,1,1,2-Tetrachloroethane	9.329	131	18190	0.916	ppbv	99
55) Chlorobenzene	9.329	112	35315	1.024	ppbv	99
56) Ethylbenzene	9.586	91	52918	0.969	ppbv	95
57) m, p-Xylene	9.692	91	91352	2.140	ppbv	93
58) Bromoform	9.708	173	27239	0.845	ppbv	99
59) Styrene	9.897	104	28991	0.896	ppbv#	87
60) 1,1,2,2-Tetrachloroethane	9.950	83	40467	1.137	ppbv	97
61) o-Xylene	9.950	91	45367	1.058	ppbv	97
64) Isopropylbenzene	10.269	105	55617	0.967	ppbv	95
66) 4-Ethyltoluene	10.605	105	60599	0.988	ppbv	96
67) 1,3,5-Trimethylbenzene	10.643	105	51705	0.986	ppbv	95
68) 1,2,4-Trimethylbenzene	10.843	105	52407	1.017	ppbv	94
70) Benzyl chloride	10.903	91	24312	0.694	ppbv	96
71) 1,3-Dichlorobenzene	10.908	146	34820	0.895	ppbv	97
72) 1,4-Dichlorobenzene	10.940	146	35456	0.917	ppbv	96
73) sec-Butylbenzene	10.973	105	75108	1.032	ppbv	96
74) 4-Isopropyltoluene	11.054	119	65465	0.997	ppbv	93
75) 1,2-Dichlorobenzene	11.108	146	33557	0.887	ppbv	95
76) n-Butylbenzene	11.260	91	57558	1.018	ppbv#	97
77) 1,2,4-Trichlorobenzene	11.943	180	16101	0.662	ppbv	98
79) Hexachlorobutadiene	12.172	225	26140	0.739	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.743	85	30336	1.205	ppbv#	82
82] Vinyl Chloride(sim)	1.783	62	9013	1.069	ppbv	100
83] Bromomethane(sim)	1.947	94	11414	1.058	ug/l	99
84] Trichlorofluoromethane...	2.342	101	30430	1.143	ppbv	99
85] Trans-1,2-Dichloroethe...	3.227	61	14513	1.049	ppbv	88
86] 1,1-Dichloroethene(sim)	2.638	61	15517	1.021	ppbv	89
87] 1,1-Dichloroethane(sim)	3.361	63	18980	1.047	ppbv	99
88] Cis-1,2-Dichloroethene...	3.978	61	12503	0.954	ppbv	86
89] 1,2-Dichloroethane(sim)	4.967	62	16417	1.074	ppbv	97
90] 1,1,1-Trichloroethane(...	5.224	97	22263	1.000	ppbv#	94
91] Carbon Tetrachloride(sim)	5.817	117	25914	1.047	ppbv	100
92] Trichlorotrifluoroetha...	2.850	101	22609	1.105	ppbv	98
94] 1,2-dichloropropane(sim)	6.447	63	9923	0.948	ppbv#	87
95] Bromodichloromethane(sim)	6.610	83	21980	0.915	ppbv	96
96] Trichloroethene(sim)	6.647	130	15188	0.930	ppbv	92
97] 1,4-Dioxane(sim)	6.723	88	6377	0.965	ppbv#	81
98] cis-1,3-Dichloropropen...	7.360	75	12281	0.667	ppbv	94
99] 1,1,2-Trichloroethane(...	7.877	97	19134	0.898	ppbv	96
100] Dibromochloromethane(sim)	8.354	129	25922	0.762	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.522	107	33487	0.857	ppbv	97
102] Tetrachloroethene(sim)	8.862	166	22057	0.696	ppbv	97
104] Bromoform(sim)	9.708	173	27363	0.988	ppbv	98
105] 1,1,1,2-Tetrachloroeth...	9.324	131	21966	0.970	ppbv	100
106] m, p-Xylene(sim)	9.692	91	91354	1.905	ppbv#	93
107] 1,1,2,2-Tetrachloroeth...	9.946	83	49230	1.143	ppbv#	98
110] Benzyl chloride(sim)	10.903	91	24312	0.827	ppbv	96
111] 1,3-Dichlorobenzene(sim)	10.911	146	45890	1.013	ppbv	98
112] 1,4-Dichlorobenzene(sim)	10.940	146	35456	0.925	ppbv	96
113] sec-Butylbenzene(sim)	10.976	105	90513	1.035	ppbv	95
114] 4-Isopropyltoluene(sim)	11.054	119	65465	0.947	ppbv	93
115] 1,2-Dichlorobenzene(sim)	11.111	146	45337	1.023	ppbv	98

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_56.D
Acq On : 24 Feb 2016 3:58 pm
Operator : Keith
Client ID : CCAL 1
Lab ID : 1ppb cc
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Feb 25 07:56:30 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

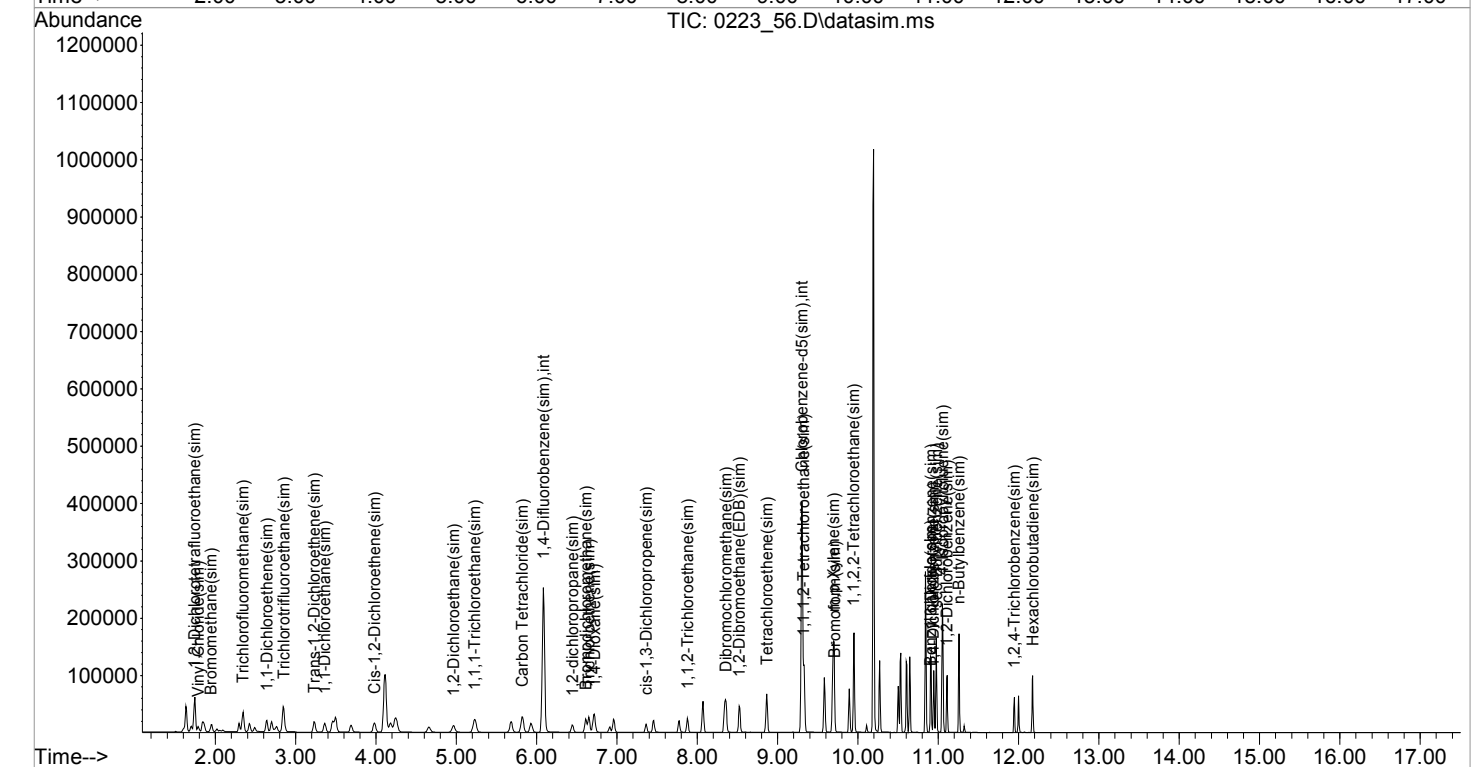
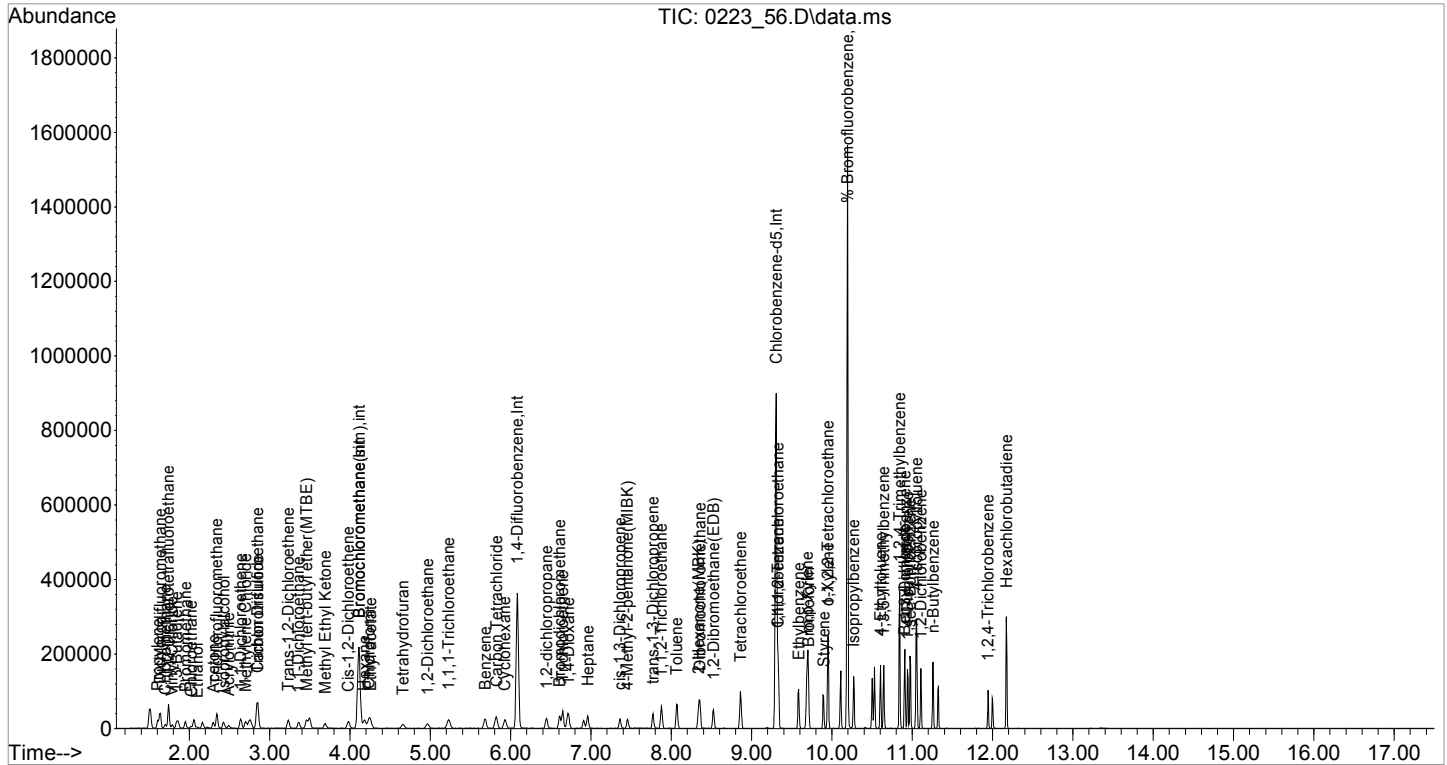
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.260	91	57558	1.029	ppbv	97
117] 1,2,4-Trichlorobenzene...	11.946	180	22458	0.924	ppbv	99
119] Hexachlorobutadiene(sim)	12.175	225	36605	0.839	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_56.D
Acq On : 24 Feb 2016 3:58 pm
Operator : Keith
Client ID : CCAL 1
Lab ID : 1ppb cc
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Feb 25 07:56:30 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM24 Calibration Date: 02/24/16 Time: 16:27

Lab File Id: 0223_57.D Init. Calib. Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Init. Calib. Times: 12:07 17:09

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Propylene	1.125	1.001		11.0	30
Dichlorodifluoromethane	3.583	3.332		7.0	30
Chloromethane	0.275	0.270		1.8	30
1,2-Dichlorotetrafluoroethane	2.254	2.475		-9.8	30
Vinyl Chloride	0.827	0.795		3.9	30
1,3-Butadiene	0.591	0.565		4.5	30
Bromomethane	1.003	0.926		7.6	30
Chloroethane	0.355	0.349		1.7	30
Ethanol	0.311	0.253		18.6	30
Acetone	1.479	1.247		15.7	30
Trichlorofluoromethane	2.649	2.711		-2.3	30
Isopropylalcohol	1.738	1.372		21.1	30
Acrylonitrile	0.580	0.544		6.1	30
1,1-Dichloroethene	1.411	1.394		1.2	30
Methylene Chloride	1.051	0.996		5.2	30
Carbon Disulfide	2.149	2.094		2.6	30
Trichlorotrifluoroethane	2.015	1.921		4.7	30
Trans-1,2-Dichloroethene	1.196	1.184		1.0	30
1,1-Dichloroethane	1.583	1.494		5.6	30
Methyl tert-butyl ether(MTBE)	2.179	1.904		12.6	30
Methyl Ethyl Ketone	1.700	1.518		10.7	30
Cis-1,2-Dichloroethene	1.177	1.146		2.6	30
Hexane	1.109	0.986		11.1	30
Chloroform	2.009	1.982		1.4	30
Ethyl acetate	1.925	1.719		10.7	30
Tetrahydrofuran	0.931	0.811		12.9	30
1,2-Dichloroethane	1.333	1.329		0.3	30
1,1,1-Trichloroethane	2.108	2.000		5.1	30
Benzene	2.519	2.364		6.2	30
Carbon Tetrachloride	2.328	2.279		2.1	30
Cyclohexane	1.187	1.031		13.1	30
1,2-dichloropropane	0.280	0.266		5.1	30
Bromodichloromethane	0.583	0.606		-3.9	30
Trichloroethene	0.418	0.424		-1.5	30
1,4-Dioxane	0.163	0.159		2.6	30
Heptane	0.199	0.191		4.2	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK67651

Instrument: CHEM24 Calibration Date: 02/24/16 Time: 16:27

Lab File Id: 0223_57.D Init. Calib. Date(s): 02/23/16 02/23/16

Heated Purge (Y/N): Y Init. Calib. Times: 12:07 17:09

GC Column: zb-1ms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
cis-1,3-Dichloropropene	0.364	0.361		0.8	30
4-Methyl-2-pentanone(MIBK)	0.453	0.397		12.4	30
trans-1,3-Dichloropropene	0.650	0.553		14.9	30
1,1,2-Trichloroethane	0.537	0.450		16.2	30
Toluene	1.364	1.133		17.0	30
Dibromochloromethane	1.044	0.925		11.4	30
2-Hexanone(MBK)	1.038	0.934		10.0	30
1,2-Dibromoethane(EDB)	0.975	0.812		16.7	30
Tetrachloroethene	0.921	0.708		23.1	30
1,1,1,2-Tetrachloroethane	0.962	0.940		2.3	30
Chlorobenzene	1.671	1.609		3.7	30
Ethylbenzene	2.645	2.487		6.0	30
m,p-Xylene	2.068	2.170		-4.9	30
Bromoform	1.561	1.861		-19.2	30
Styrene	1.568	1.494		4.7	30
1,1,2,2-Tetrachloroethane	1.724	1.775		-2.9	30
o-Xylene	2.078	2.082		-0.2	30
Isopropylbenzene	2.786	2.664		4.4	30
4-Ethyltoluene	2.972	2.920		1.8	30
1,3,5-Trimethylbenzene	2.541	2.496		1.8	30
1,2,4-Trimethylbenzene	2.497	2.658		-6.4	30
Benzyl chloride	1.696	1.897		-11.9	30
1,3-Dichlorobenzene	1.884	1.945		-3.2	30
1,4-Dichlorobenzene	1.874	1.832		2.2	30
sec-Butylbenzene	3.528	3.496		0.9	30
4-Isopropyltoluene	3.183	3.354		-5.4	30
1,2-Dichlorobenzene	1.832	1.840		-0.4	30
n-Butylbenzene	2.738	2.813		-2.7	30
1,2,4-Trichlorobenzene	1.179	1.240		-5.2	30
Hexachlorobutadiene	1.714	1.903		-11.0	30
% Bromofluorobenzene	1.327	1.315		0.9	30

(#) Maximum %D not met.

FORM VII AIR

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_57.D
 Acq On : 24 Feb 2016 4:27 pm
 Operator : Keith
 Client ID : CCAL 10
 Lab ID : 10ppb cc
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 25 07:56:34 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.111	130	105886	10.000	ng	0.03
36) 1,4-Difluorobenzene	6.081	114	344299	10.000	ng	0.03
53) Chlorobenzene-d5	9.306	82	221214	10.000	ng	0.02
80) Bromochloromethane(sim)	4.111	130	105886	10.000	ng	0.03
93) 1,4-Difluorobenzene(sim)	6.084	114	385833	10.000	ng	# 0.03
103) Chlorobenzene-d5(sim)	9.301	82	254121	10.000	ng	0.02

System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	290838	9.908	ppbv	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.10%	

Target Compounds					Qvalue	
2) Propylene	1.605	41	105942	8.894	ppbv	99
3) Dichlorodifluoromethane	1.639	85	352808	9.299	ppbv	98
4) Chloromethane	1.698	52	28537	9.802	ppbv	95
5) 1,2-Dichlorotetrafluor...	1.740	85	262027	10.979	ppbv#	81
6) Vinyl Chloride	1.783	62	84230	9.618	ppbv	98
7) 1,3-Butadiene	1.842	54	59811	9.550	ppbv#	77
8) Bromomethane	1.952	94	98036	9.235	ppbv	100
9) Chloroethane	2.020	64	36907	9.820	ppbv	87
10) Ethanol	2.079	45	26824	8.149	ppbv	96
12) Acetone	2.274	43	132025	8.429	ppbv	92
13) Trichlorofluoromethane	2.342	101	287041	10.233	ppbv	99
14) Isopropylalcohol	2.401	45	145303	7.896	ppbv	97
15) Acrylonitrile	2.477	53	57603	9.385	ppbv	99
16) 1,1-Dichloroethene	2.638	61	147650	9.883	ppbv	89
17) Methylene Chloride	2.698	49	105415	9.472	ppbv	99
20) Carbon Disulfide	2.850	76	221774	9.745	ppbv	98
21) Trichlorotrifluoroethane	2.842	101	203435	9.533	ppbv#	86
22) Trans-1,2-Dichloroethene	3.231	61	125419	9.903	ppbv	86
23) 1,1-Dichloroethane	3.364	63	158226	9.443	ppbv	98
24) Methyl tert-butyl ethe...	3.431	73	201585	8.738	ppbv	97
25) Methyl Ethyl Ketone	3.665	43	160714	8.929	ppbv	93
26) Cis-1,2-Dichloroethene	3.978	61	121318	9.734	ppbv	86
27) Hexane	4.185	57	104398	8.892	ppbv#	84
28) Chloroform	4.238	83	209870	9.865	ppbv	97
29) Ethyl acetate	4.238	43	182060	8.931	ppbv	95
30) Tetrahydrofuran	4.625	42	85893	8.711	ppbv	91
31) 1,2-Dichloroethane	4.964	62	140748	9.971	ppbv	97
32) 1,1,1-Trichloroethane	5.231	97	211721	9.486	ppbv	96
33) Benzene	5.681	78	250355	9.386	ppbv	99
34) Carbon Tetrachloride	5.821	117	241323	9.791	ppbv	99
35) Cyclohexane	5.934	56	109122	8.685	ppbv	91
37) 1,2-dichloropropane	6.447	63	91463	9.477	ppbv#	88
38) Bromodichloromethane	6.613	83	208791	10.396	ppbv	96
39) Trichloroethene	6.647	130	145960	10.145	ppbv	90
41) 1,4-Dioxane	6.693	88	54726	9.738	ppbv	82
43) Heptane	6.960	71	65791	9.578	ppbv#	92
44) cis-1,3-Dichloropropene	7.360	75	124389	9.928	ppbv	95
45) 4-Methyl-2-pentanone(M...	7.440	43	136574	8.757	ppbv#	96
46) trans-1,3-Dichloropropene	7.771	75	190468	8.515	ppbv	99
47) 1,1,2-Trichloroethane	7.881	97	154972	8.387	ppbv	96
48) Toluene	8.073	91	390004	8.304	ppbv	96
49) Dibromochloromethane	8.354	129	318604	8.864	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_57.D
 Acq On : 24 Feb 2016 4:27 pm
 Operator : Keith
 Client ID : CCAL 10
 Lab ID : 10ppb cc
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 25 07:56:34 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.327	43	321554	9.002	ppbv#	97
51) 1,2-Dibromoethane(EDB)	8.526	107	279724	8.329	ppbv	95
52) Tetrachloroethene	8.862	166	243647	7.687	ppbv	94
54) 1,1,1,2-Tetrachloroethane	9.328	131	208002	9.775	ppbv	98
55) Chlorobenzene	9.336	112	355935	9.631	ppbv	89
56) Ethylbenzene	9.586	91	550232	9.404	ppbv	95
57) m, p-Xylene	9.692	91	960256	20.987	ppbv	92
58) Bromoform	9.708	173	411589	11.918	ppbv	99
59) Styrene	9.897	104	330404	9.529	ppbv#	85
60) 1,1,2,2-Tetrachloroethane	9.950	83	392735	10.297	ppbv	94
61) o-Xylene	9.950	91	460544	10.019	ppbv	94
64) Isopropylbenzene	10.269	105	589223	9.562	ppbv	94
66) 4-Ethyltoluene	10.605	105	645892	9.823	ppbv	94
67) 1,3,5-Trimethylbenzene	10.643	105	552121	9.823	ppbv	93
68) 1,2,4-Trimethylbenzene	10.843	105	588066	10.646	ppbv	91
70) Benzyl chloride	10.903	91	419589	11.183	ppbv#	93
71) 1,3-Dichlorobenzene	10.908	146	430316	10.325	ppbv	95
72) 1,4-Dichlorobenzene	10.946	146	405319	9.780	ppbv	96
73) sec-Butylbenzene	10.978	105	773312	9.910	ppbv#	93
74) 4-Isopropyltoluene	11.054	119	742046	10.540	ppbv	91
75) 1,2-Dichlorobenzene	11.108	146	407049	10.043	ppbv	95
76) n-Butylbenzene	11.259	91	622354	10.275	ppbv#	94
77) 1,2,4-Trichlorobenzene	11.943	180	274254	10.514	ppbv	98
79) Hexachlorobutadiene	12.172	225	420930	11.101	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.743	85	283332	11.225	ppbv#	81
82] Vinyl Chloride(sim)	1.783	62	84230	9.965	ppbv	98
83] Bromomethane(sim)	1.946	94	104728	9.677	ug/l	99
84] Trichlorofluoromethane...	2.342	101	287041	10.749	ppbv	99
85] Trans-1,2-Dichloroethe...	3.227	61	139833	10.079	ppbv	89
86] 1,1-Dichloroethene(sim)	2.638	61	147650	9.687	ppbv	89
87] 1,1-Dichloroethane(sim)	3.361	63	175637	9.665	ppbv	99
88] Cis-1,2-Dichloroethene...	3.978	61	121317	9.235	ppbv	86
89] 1,2-Dichloroethane(sim)	4.967	62	157343	10.267	ppbv	97
90] 1,1,1-Trichloroethane(...	5.231	97	211721	9.487	ppbv#	96
91] Carbon Tetrachloride(sim)	5.824	117	257438	10.370	ppbv	100
92] Trichlorotrifluoroetha...	2.842	101	203435	9.911	ppbv	100
94] 1,2-dichloropropane(sim)	6.447	63	91463	8.934	ppbv#	88
95] Bromodichloromethane(sim)	6.609	83	225022	9.578	ppbv	95
96] Trichloroethene(sim)	6.647	130	145960	9.142	ppbv	92
97] 1,4-Dioxane(sim)	6.696	88	58733	9.088	ppbv#	80
98] cis-1,3-Dichloropropen...	7.360	75	124389	6.912	ppbv	95
99] 1,1,2-Trichloroethane(...	7.877	97	186610	8.951	ppbv	95
100] Dibromochloromethane(sim)	8.354	129	318562	9.570	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.522	107	340604	8.908	ppbv	96
102] Tetrachloroethene(sim)	8.862	166	243647	7.861	ppbv	94
104] Bromoform(sim)	9.708	173	411589	14.187	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.331	131	253206	10.672	ppbv	100
106] m, p-Xylene(sim)	9.692	91	961745	19.149	ppbv#	93
107] 1,1,2,2-Tetrachloroeth...	9.953	83	452064	10.023	ppbv#	96
110] Benzyl chloride(sim)	10.903	91	420200	13.652	ppbv	93
111] 1,3-Dichlorobenzene(sim)	10.911	146	531072	11.195	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.946	146	406092	10.119	ppbv	96
113] sec-Butylbenzene(sim)	10.976	105	900648	9.834	ppbv	94
114] 4-Isopropyltoluene(sim)	11.054	119	742046	10.250	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.111	146	510427	10.998	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_57.D
Acq On : 24 Feb 2016 4:27 pm
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb cc
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 25 07:56:34 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

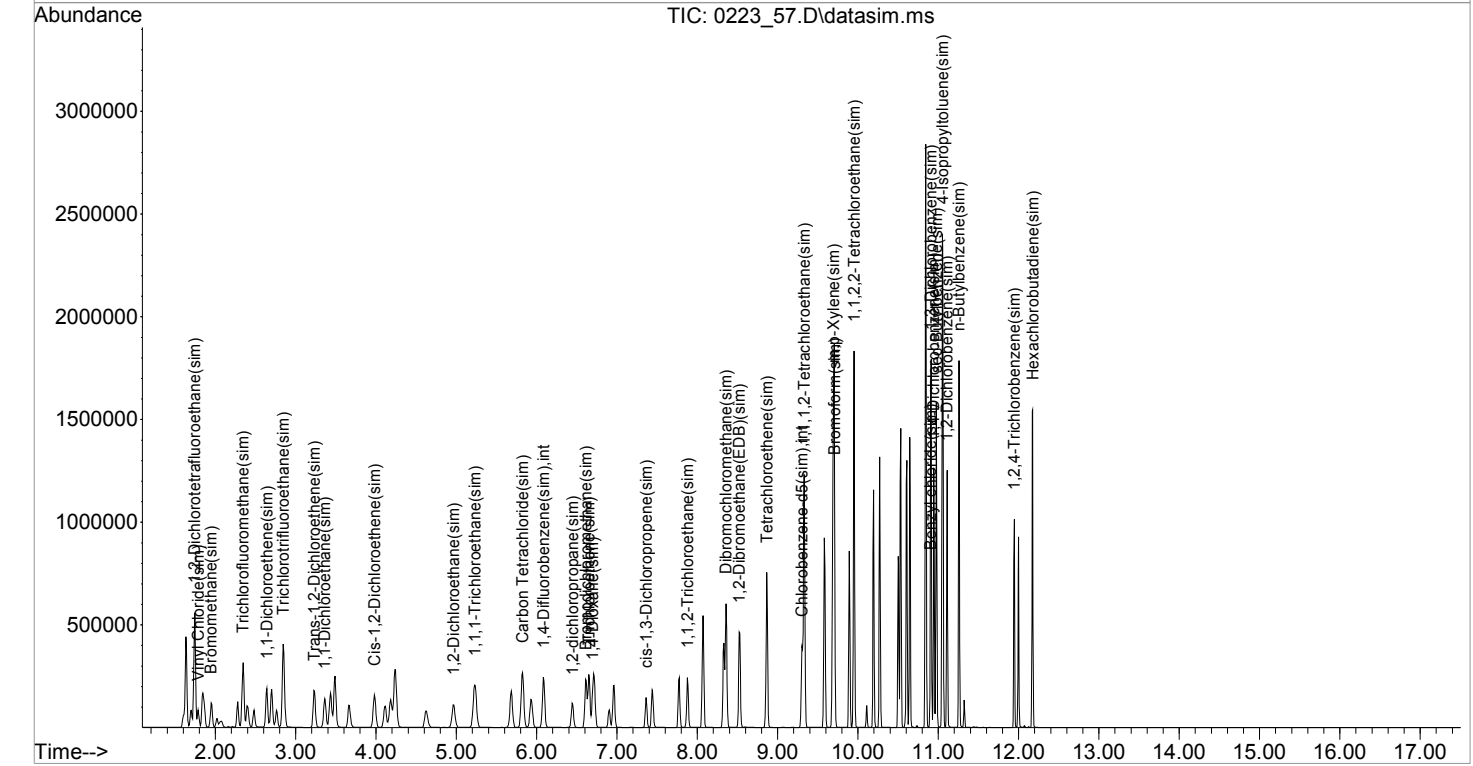
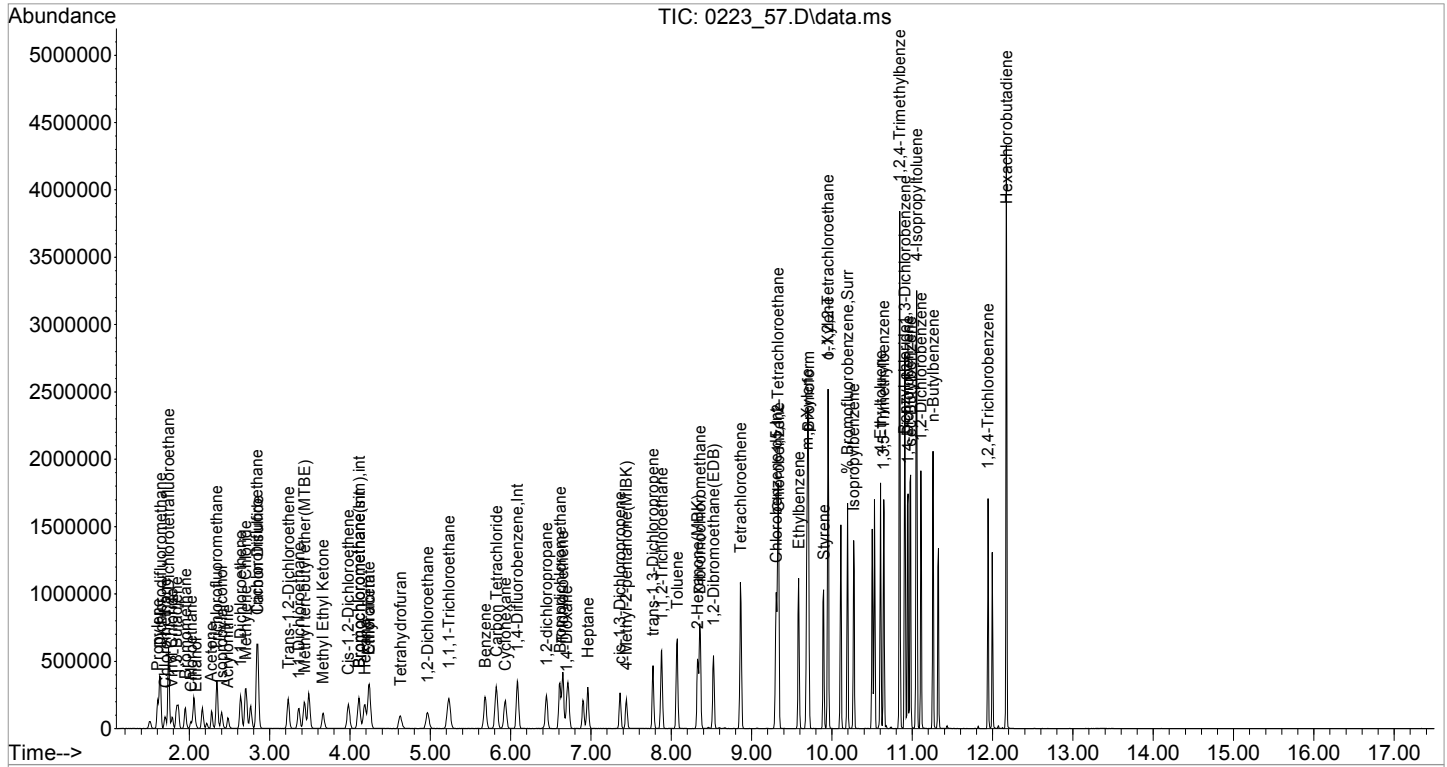
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.259	91	622354	10.628	ppbv	94
117] 1,2,4-Trichlorobenzene...	11.945	180	363286	14.273	ppbv	98
119] Hexachlorobutadiene(sim)	12.175	225	537406	11.759	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_57.D
Acq On : 24 Feb 2016 4:27 pm
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb cc
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Feb 25 07:56:34 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK67659 LCS
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0222_28.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	11.0		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.9		0.202	0.202	r
74-87-3	Chloromethane	10.8		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	11.7		0.143	0.143	r
75-01-4	Vinyl Chloride	11.2		0.098	0.098	r
106-99-0	1,3-Butadiene	11.5		0.452	0.452	r
74-83-9	Bromomethane	11.1		0.258	0.258	r
75-00-3	Chloroethane	10.8		0.379	0.379	r
64-17-5	Ethanol	11.5		0.531	0.531	r
67-64-1	Acetone	14.2		0.421	0.421	r
75-69-4	Trichlorofluoromethane	10.5		0.178	0.178	r
67-63-0	Isopropylalcohol	9.53		0.407	0.407	r
107-13-1	Acrylonitrile	8.65		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.5		0.252	0.252	r
75-09-2	Methylene Chloride	10.9		0.288	0.288	r
75-15-0	Carbon Disulfide	10.3		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.2		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.8		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.5		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.3		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	10.9		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.9		0.252	0.252	r
110-54-3	Hexane	10.9		0.284	0.284	r
67-66-3	Chloroform	11.1		0.205	0.205	r
141-78-6	Ethyl acetate	11.2		0.278	0.278	r
109-99-9	Tetrahydrofuran	11.0		0.339	0.339	r
107-06-2	1,2-Dichloroethane	11.7		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	11.2		0.183	0.183	r
71-43-2	Benzene	10.4		0.313	0.313	r
56-23-5	Carbon Tetrachloride	11.3		0.040	0.040	r
110-82-7	Cyclohexane	10.9		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.3		0.217	0.217	r
75-27-4	Bromodichloromethane	10.6		0.149	0.149	r
79-01-6	Trichloroethene	10.4		0.047	0.047	r
123-91-1	1,4-Dioxane	9.50		0.278	0.278	r
142-82-5	Heptane	10.5		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659 LCS</u>
Canister:	<u>LCS</u>	Lab File ID:	<u>0222_28.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	9.84		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	11.0		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.8		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.5		0.183	0.183	r
108-88-3	Toluene	10.2		0.266	0.266	r
124-48-1	Dibromochloromethane	10.6		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	10.8		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.8		0.130	0.130	r
127-18-4	Tetrachloroethene	10.3		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	9.94		0.146	0.146	r
108-90-7	Chlorobenzene	9.57		0.217	0.217	r
100-41-4	Ethylbenzene	9.80		0.230	0.230	r
179601-23-1	m,p-Xylene	20.4		0.230	0.230	r
75-25-2	Bromoform	9.70		0.097	0.097	r
100-42-5	Styrene	9.84		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	9.81		0.146	0.146	r
95-47-6	o-Xylene	9.57		0.230	0.230	r
98-82-8	Isopropylbenzene	9.66		0.204	0.204	r
622-96-8	4-Ethyltoluene	9.56		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	9.53		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	10.5		0.204	0.204	r
100-44-7	Benzyl chloride	9.91		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	9.21		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	9.18		0.166	0.166	r
135-98-8	sec-Butylbenzene	7.90		0.182	0.182	r
99-87-6	4-Isopropyltoluene	9.39		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	9.03		0.166	0.166	r
104-51-8	n-Butylbenzene	9.55		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	8.95		0.135	0.135	r
87-68-3	Hexachlorobutadiene	8.78		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_28.D
 Acq On : 23 Feb 2016 05:03 am
 Operator : CORTEX\ms
 Client ID : BK67659 LCS
 Lab ID : BK67659 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	131411	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	358699	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	177025	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	131411	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	434084	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	193040	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	240936	10.307	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 103.10%		

Target Compounds						Qvalue
2) Propylene	3.536	41	225285	11.036	ppbv	99
3) Dichlorodifluoromethane	3.615	85	609981	10.908	ppbv	99
4) Chloromethane	3.774	52	48826	10.762	ppbv	92
5) 1,2-Dichlorotetrafluor...	3.875	85	453505	11.662	ppbv	97
6) Vinyl Chloride	3.990	62	155465	11.222	ppbv	100
7) 1,3-Butadiene	4.120	54	115393	11.469	ppbv	93
8) Bromomethane	4.365	94	163252	11.133	ppbv	99
9) Chloroethane	4.524	64	69736	10.816	ppbv	96
10) Ethanol	4.625	45	48068	11.542	ppbv	98
11) Acetone	5.022	43	331893	14.188	ppbv	96
12) Trichlorofluoromethane	5.166	101	517392	10.466	ppbv	99
13) Isopropylalcohol	5.216	45	407598	9.529	ppbv	97
14) Acrylonitrile	5.389	53	151741	8.649	ppbv	97
15) 1,1-Dichloroethene	5.655	61	358929	10.451	ppbv	96
16) Methylene Chloride	5.732	49	300280	10.877	ppbv	94
19) Carbon Disulfide	5.958	76	545011	10.273	ppbv	99
20) Trichlorotrifluoroethane	5.917	101	375425	10.225	ppbv	97
21) Trans-1,2-Dichloroethene	6.345	61	280365	10.755	ppbv	94
22) 1,1-Dichloroethane	6.460	63	334035	10.542	ppbv	100
23) Methyl tert-butyl ethe...	6.481	73	420620	10.259	ppbv	96
24) Methyl Ethyl Ketone	6.668	43	348864	10.903	ppbv	98
25) Cis-1,2-Dichloroethene	6.915	61	221487	10.873	ppbv	94
26) Hexane	7.014	57	183812	10.934	ppbv	93
27) Chloroform	7.067	83	342232	11.056	ppbv	97
28) Ethyl acetate	7.006	43	471378	11.163	ppbv	98
29) Tetrahydrofuran	7.263	42	133256	10.983	ppbv	94
30) 1,2-Dichloroethane	7.437	62	214213	11.700	ppbv	99
31) 1,1,1-Trichloroethane	7.566	97	302611	11.166	ppbv	98
32) Benzene	7.786	78	291528	10.401	ppbv	99
33) Carbon Tetrachloride	7.854	117	297460	11.313	ppbv	100
34) Cyclohexane	7.914	41	79224	10.855	ppbv	92
36) 1,2-dichloropropane	8.164	63	99901	10.298	ppbv	94
37) Bromodichloromethane	10.584	83	284492	10.595	ppbv	100
38) Trichloroethene	8.270	130	129205	10.372	ppbv	98
40) 1,4-Dioxane	8.255	88	53834	9.498	ppbv	92
42) Heptane	8.376	43	122714	10.535	ppbv	97
43) cis-1,3-Dichloropropene	8.649	75	157747	9.842	ppbv	93
44) 4-Methyl-2-pentanone(M...	8.649	43	197010	10.993	ppbv	95
45) trans-1,3-Dichloropropene	8.885	75	149393	10.803	ppbv	98
46) 1,1,2-Trichloroethane	8.984	97	116593	10.470	ppbv	98
47) Toluene	9.117	91	276146	10.235	ppbv	100
48) Dibromochloromethane	9.336	129	258029	10.630	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_28.D
 Acq On : 23 Feb 2016 05:03 am
 Operator : CORTEX\ms
 Client ID : BK67659 LCS
 Lab ID : BK67659 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	163944	10.792	ppbv	96
50) 1,2-Dibromoethane(EDB)	9.462	107	228516	10.807	ppbv	99
51) Tetrachloroethene	9.687	166	185482	10.260	ppbv	98
53) 1,1,1,2-Tetrachloroethane	10.029	131	163362	9.943	ppbv	98
54) Chlorobenzene	10.044	112	264099	9.572	ppbv	99
55) Ethylbenzene	10.236	91	424596	9.799	ppbv	98
56) m, p-Xylene	10.325	91	661892	20.396	ppbv	98
57) Bromoform	10.399	173	259718	9.695	ppbv	99
58) Styrene	10.532	104	228484	9.835	ppbv	96
59) 1,1,2,2-Tetrachloroethane	10.584	83	284492	9.814	ppbv	99
60) o-Xylene	10.591	91	335356	9.569	ppbv	98
63) Isopropylbenzene	10.917	105	430676	9.664	ppbv	99
65) 4-Ethyltoluene	11.295	105	462627	9.563	ppbv	100
66) 1,3,5-Trimethylbenzene	11.332	105	383452	9.531	ppbv	98
67) 1,2,4-Trimethylbenzene	11.592	105	388922	10.505	ppbv	98
69) Benzyl chloride	11.681	91	375848	9.905	ppbv	97
70) 1,3-Dichlorobenzene	11.695	146	288246	9.206	ppbv	98
71) 1,4-Dichlorobenzene	11.740	146	281176	9.179	ppbv	99
72) sec-Butylbenzene	11.592	105	388922	7.900	ppbv#	86
73) 4-Isopropyltoluene	11.851	119	458009	9.386	ppbv	98
74) 1,2-Dichlorobenzene	11.955	146	280668	9.031	ppbv	98
75) n-Butylbenzene	12.118	91	428962	9.552	ppbv	99
76) 1,2,4-Trichlorobenzene	13.104	180	230942	8.949	ppbv	97
78) Hexachlorobutadiene	13.416	225	224814	8.775	ppbv	100
80] Dichlorodifluoromethan...	3.611	85	779796	11.236	ppbv	99
81] 1,2-Dichlorotetrafluor...	3.875	85	453505	11.197	ppbv	97
82] Vinyl Chloride(sim)	3.986	62	188242	11.341	ppbv	100
83] Bromomethane(sim)	4.365	94	163252	9.341	ppbv	99
84] Trichlorofluoromethane...	5.169	101	699732	11.110	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	214213	11.399	ppbv	99
86] 1,1,1-Trichloroethane(...	7.561	97	376699	11.258	ppbv#	99
87] Carbon Tetrachloride(sim)	7.854	117	297460	11.037	ppbv	100
88] 1,1-Dichloroethene(sim)	5.652	61	453173	10.819	ppbv	96
89] Carbon Disulfide(sim)	5.958	76	545011	10.216	ppbv	99
90] Trichlorotrifluoroetha...	5.914	101	501007	10.513	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	280365	10.240	ppbv	94
92] 1,1-Dichloroethane(sim)	6.463	63	407895	10.516	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	221487	10.326	ppbv	94
94] Chloroform(sim)	7.069	83	422271	11.060	ppbv	99
95] Benzene(sim)	7.786	78	291528	9.389	ppbv	99
97] 1,2-dichloropropane(sim)	8.164	63	99901	9.326	ppbv	94
98] Bromodichloromethane(sim)	10.587	83	351036	10.545	ppbv	100
99] Trichloroethene(sim)	8.270	130	129205	8.688	ppbv	98
100] 1,4-Dioxane(sim)	8.250	88	61585	8.531	ppbv	93
101] cis-1,3-Dichloropropen...	8.649	75	157747	10.083	ppbv	93
102] 1,1,2-Trichloroethane(...	8.979	97	145080	10.436	ppbv	99
103] Dibromochloromethane(sim)	9.336	129	258029	11.066	ppbv	100
104] 1,2-Dibromoethane(EDB)...	9.458	107	284523	11.187	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	185482	10.161	ppbv	98
107] Bromoform(sim)	10.399	173	259718	9.611	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	36891	8.106	ppbv	100
109] Chlorobenzene(sim)	10.044	112	264099	8.554	ppbv#	99
110] Ethylbenzene(sim)	10.232	91	471080	9.081	ppbv	99
111] m, p-Xylene(sim)	10.325	91	661892	17.532	ppbv	98
112] Styrene(sim)	10.528	104	253832	9.698	ppbv	96

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_28.D
 Acq On : 23 Feb 2016 05:03 am
 Operator : CORTEX\ms
 Client ID : BK67659 LCS
 Lab ID : BK67659 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:10 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

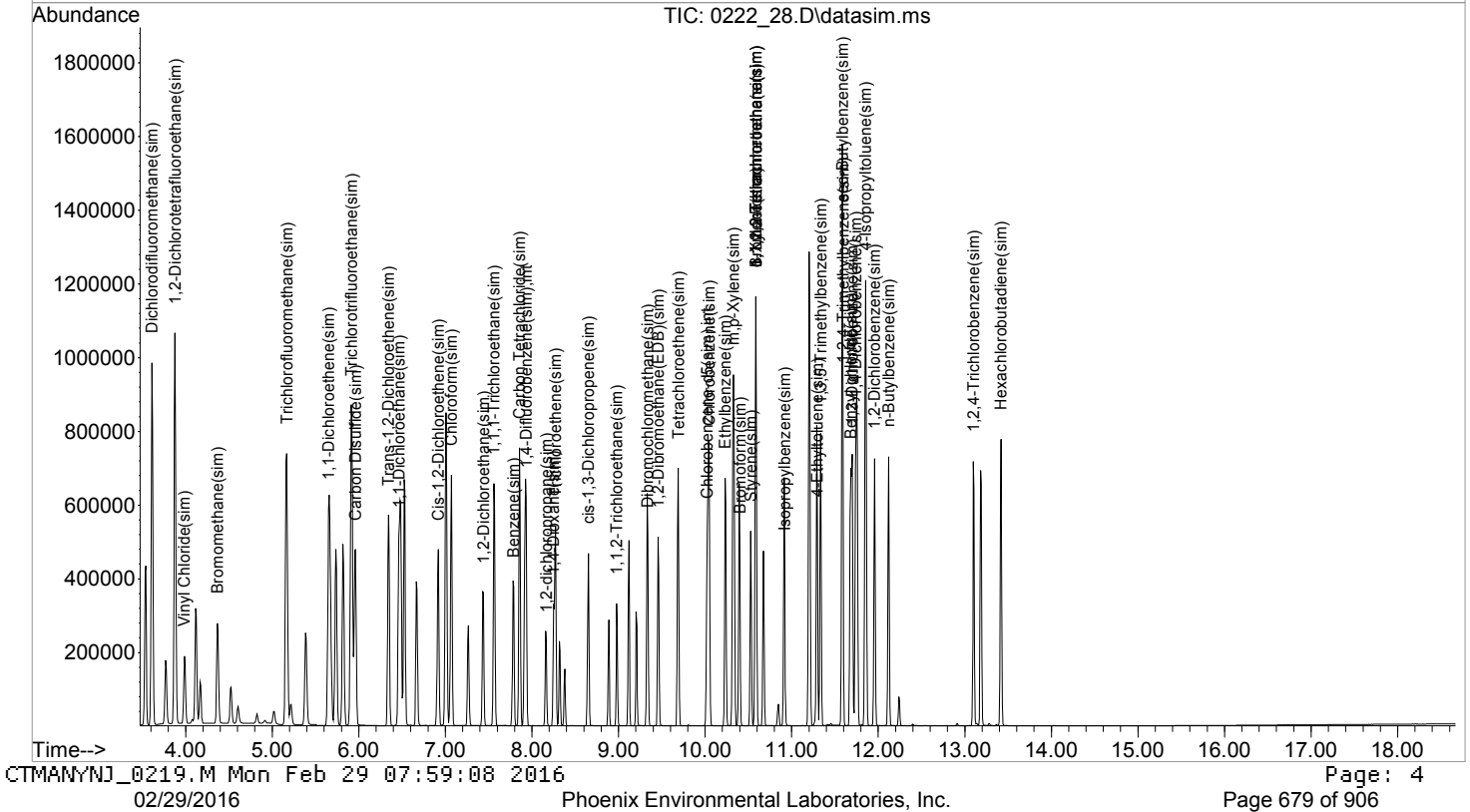
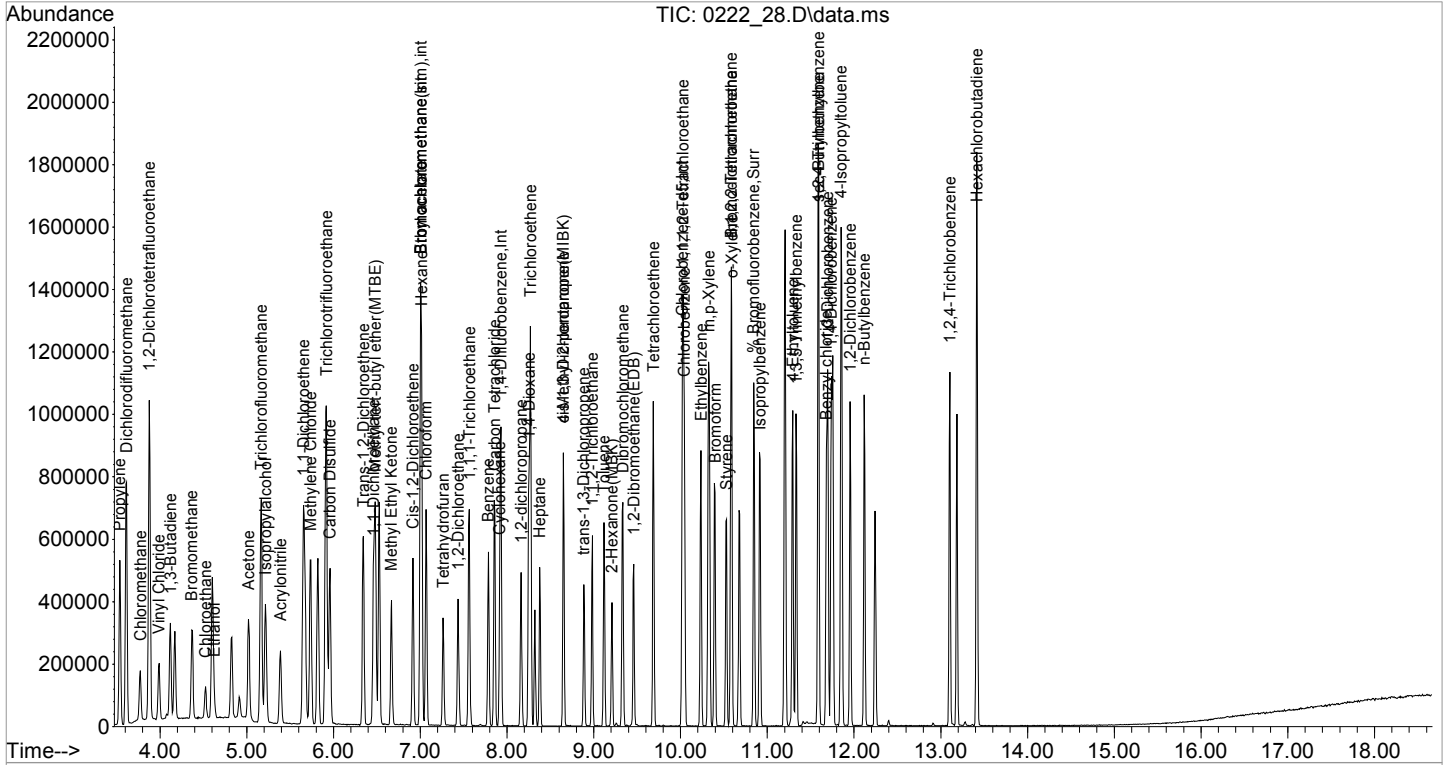
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113] 1,1,2,2-Tetrachloroeth...	10.584	83	284492	8.734	ppbv	100
114] o-Xylene(sim)	10.587	91	375683	8.889	ppbv	98
115] Isopropylbenzene(sim)	10.917	105	430676	8.633	ppbv	99
117] 4-Ethyltoluene(sim)	11.295	105	462627	8.516	ppbv	100
118] 1,3,5-Trimethylbenzene...	11.335	105	420255	8.909	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.592	105	388922	9.441	ppbv	98
121] Benzyl chloride(sim)	11.681	91	375848	10.595	ppbv	100
122] 1,3-Dichlorobenzene(sim)	11.698	146	375177	8.205	ppbv	100
123] 1,4-Dichlorobenzene(sim)	11.740	146	281181	7.636	ppbv	99
124] sec-Butylbenzene(sim)	11.587	105	419489	6.840	ppbv	85
125] 4-Isopropyltoluene(sim)	11.851	119	458009	7.951	ppbv	98
126] 1,2-Dichlorobenzene(sim)	11.958	146	368525	8.166	ppbv	99
127] n-Butylbenzene(sim)	12.118	91	428962	8.460	ppbv	99
128] 1,2,4-Trichlorobenzene...	13.100	180	327342	9.437	ppbv	100
130] Hexachlorobutadiene(sim)	13.418	225	313407	7.911	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_28.D
Acq On : 23 Feb 2016 05:03 am
Operator : CORTEX\ms
Client ID : BK67659 LCS
Lab ID : BK67659 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:36:10 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK67659 BLANK
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>0222_30.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
74-87-3	Chloromethane	0.484	U	0.484	0.484	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.277	U	0.277	0.277	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
75-71-8	Dichlorodifluoromethane(sim)	0.202	U	0.202	0.202	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.257	U	0.257	0.257	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.256	U	0.256	0.256	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK67659 BLANK
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>0222_30.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/23/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
78-87-5	1,2-dichloropropane(sim)	0.216	U	0.216	0.216	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_30.D
 Acq On : 23 Feb 2016 06:10 am
 Operator : CORTEX\ms
 Client ID : BK67659 BLANK
 Lab ID : BK67659 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:39:50 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

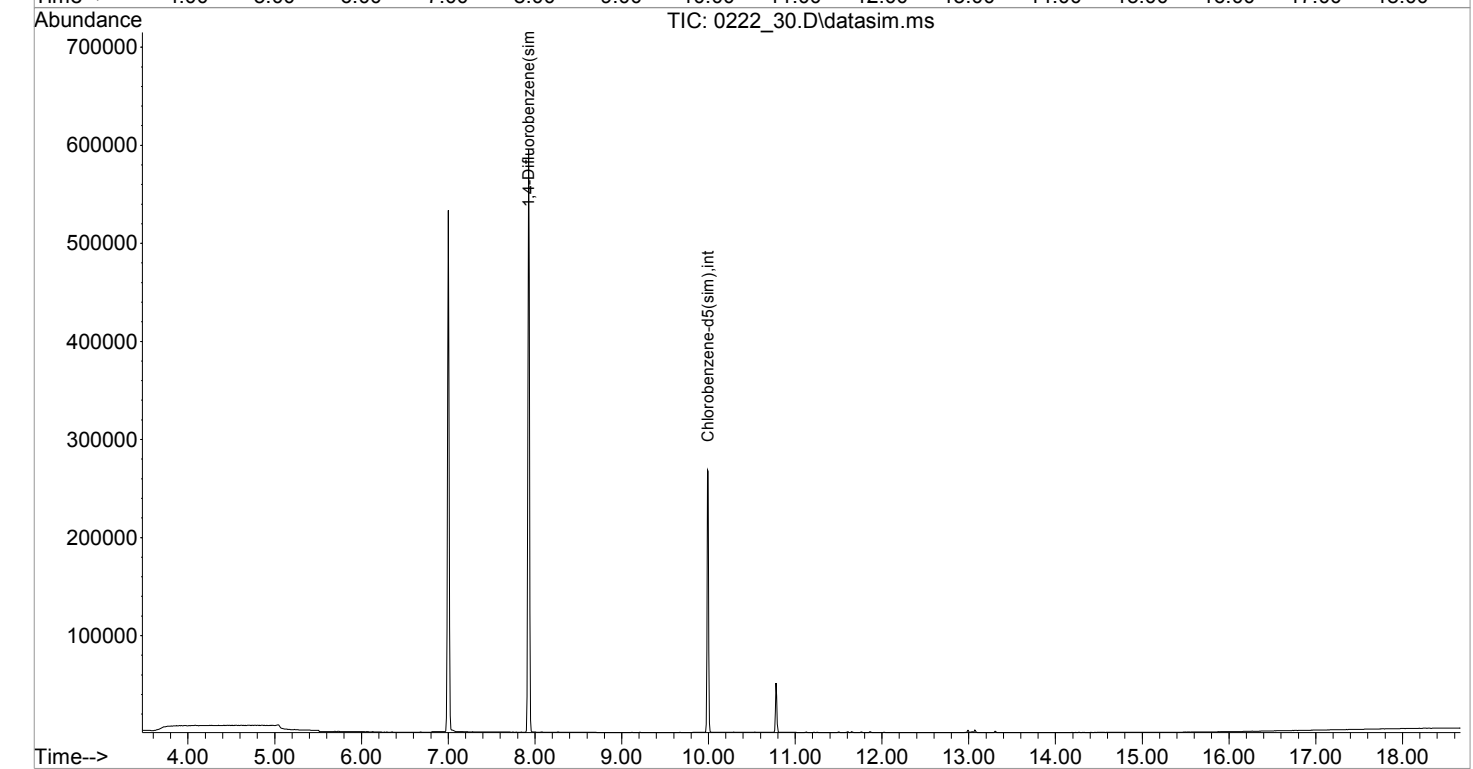
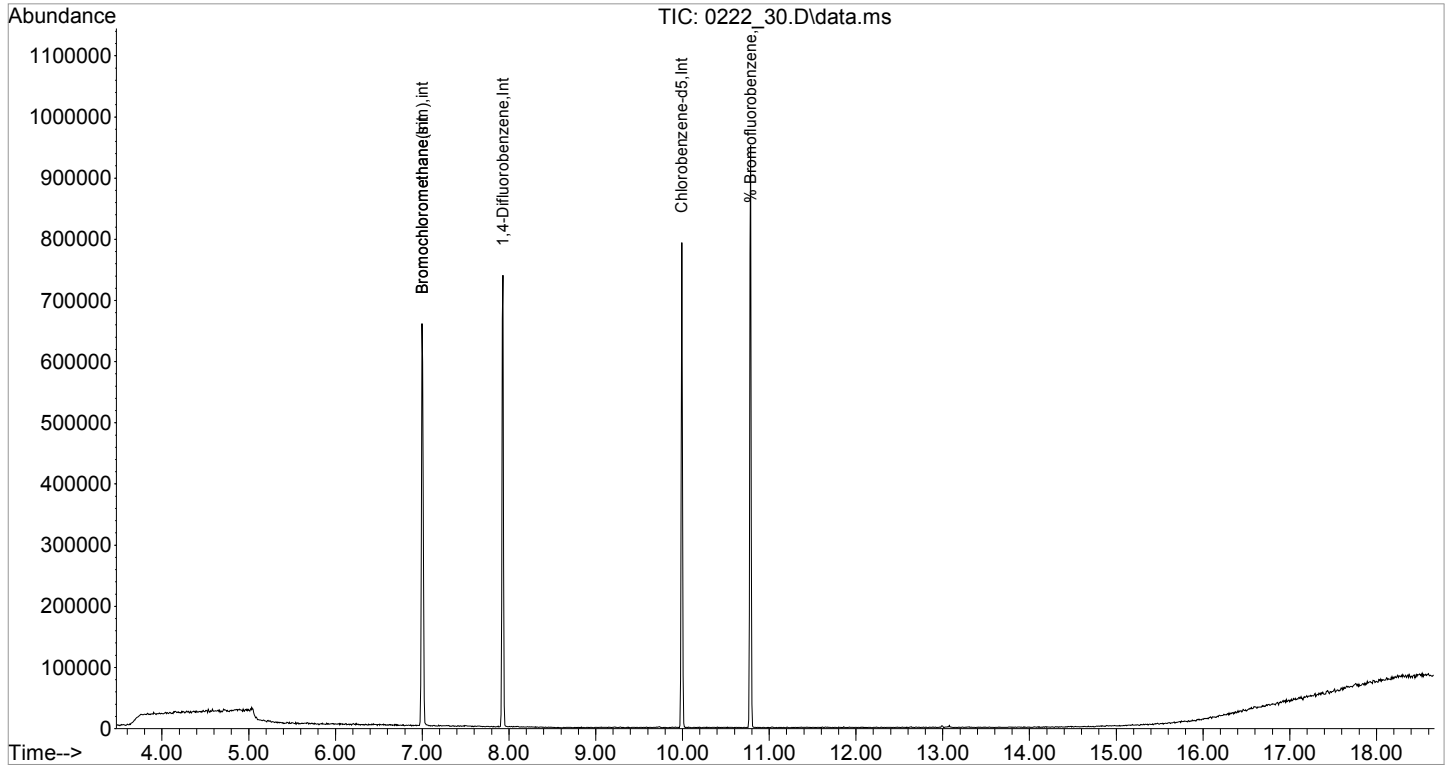
Internal Standards						
1) Bromochloromethane	6.999	130	137537	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	370030	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	141319	10.000	ng	-0.03
79) Bromochloromethane(sim)	6.999	130	137537	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.925	114	446804	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	152739	10.000	ng	-0.03
System Monitoring Compounds						
61) % Bromofluorobenzene	10.784	95	197641	10.591	ppbv	-0.06
Spiked Amount	10.000	Range 70 - 130	Recovery	=	105.90%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_30.D
Acq On : 23 Feb 2016 06:10 am
Operator : CORTEX\ms
Client ID : BK67659 BLANK
Lab ID : BK67659 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:39:50 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659 DUP</u>
Canister:	<u>223</u>	Lab File ID:	<u>0222_32.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	12.0		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.580		0.202	0.202	r
74-87-3	Chloromethane	0.540		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	14.0	S	0.531	0.531	r
67-64-1	Acetone	74.0	ES	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.300		0.178	0.178	r
67-63-0	Isopropylalcohol	1.10	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	1.50		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	3.10		0.339	0.339	r
110-54-3	Hexane	2.40	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-55-6	1,1,1-Trichloroethane	1.50		0.183	0.183	r
71-43-2	Benzene	1.40		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	1.50		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	3.80		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.430		0.037	0.037	r
100-41-4	Ethylbenzene	0.860		0.230	0.230	r
179601-23-1	m,p-Xylene	3.20		0.230	0.230	r
95-47-6	o-Xylene	1.40		0.230	0.230	r
622-96-8	4-Ethyltoluene	0.400		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.770		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.80		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67659 DUP</u>
Canister:	<u>223</u>	Lab File ID:	<u>0222_32.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/23/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
56-23-5	Carbon Tetrachloride(sim)	0.066		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.072		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.190		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_32.D
 Acq On : 23 Feb 2016 07:43 am
 Operator : CORTEX\ms
 Client ID : SS-8 DUP
 Lab ID : BK67659 DUP
 ALS Vial : 1 Sample Multiplier: 1

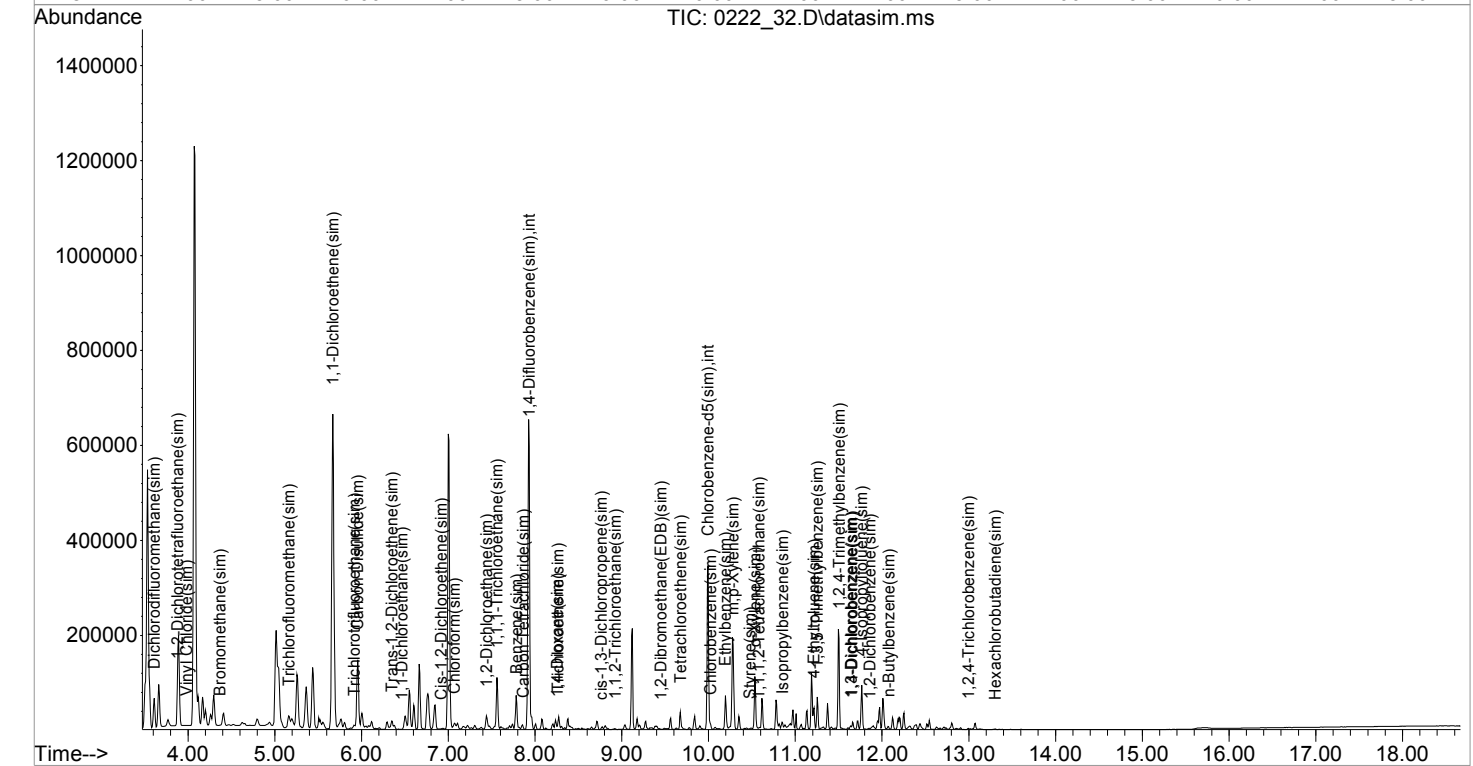
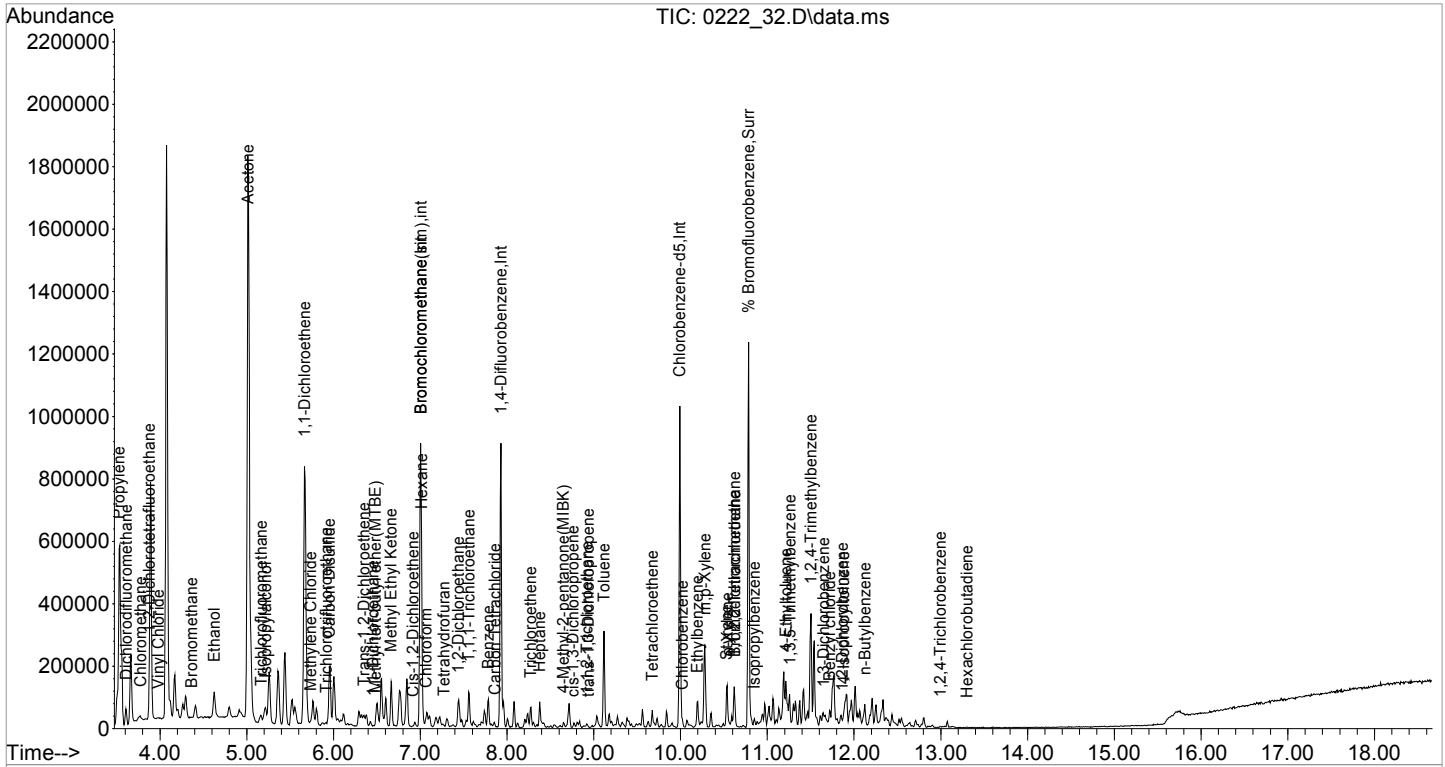
Quant Time: Feb 26 08:02:02 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 23 08:34:49 2016
 Response via : Initial Calibration

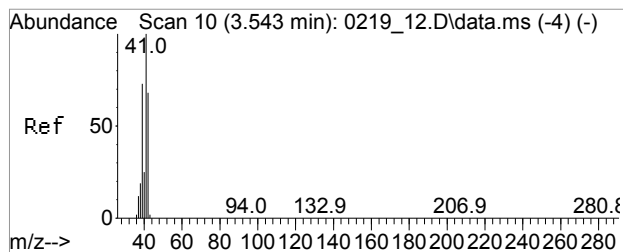
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	157063	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	422066	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	185070	10.000	ng	-0.03
79) Bromochloromethane(sim)	7.006	130	157063	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	503414	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	196144	10.000	ng	-0.03
System Monitoring Compounds						
61) % Bromofluorobenzene	10.784	95	250309	10.242	ppbv	-0.06
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
					Qvalue	
2) Propylene	3.529	41	304525	12.482	ppbv	93
3) Dichlorodifluoromethane	3.608	85	38842	0.581	ppbv	96
4) Chloromethane	3.774	52	2932m	0.541	ppbv	
10) Ethanol	4.625	45	72101	14.486	ppbv	100
11) Acetone	5.014	43	2061118	73.717	ppbv	95
12) Trichlorofluoromethane	5.166	101	17644	0.299	ppbv#	95
13) Isopropylalcohol	5.216	45	56456	1.104	ppbv#	64
19) Carbon Disulfide	5.952	76	97795	1.542	ppbv	96
24) Methyl Ethyl Ketone	6.663	43	118313	3.094	ppbv	98
26) Hexane	7.014	57	49177	2.448	ppbv#	67
31) 1,1,1-Trichloroethane	7.559	97	47204	1.457	ppbv	98
32) Benzene	7.786	78	47967	1.432	ppbv	95
33) Carbon Tetrachloride	7.861	117	2118	0.067	ppbv	95
38) Trichloroethene	8.270	130	812	0.055	ppbv#	72
42) Heptane	8.376	43	20078	1.465	ppbv	93
47) Toluene	9.117	91	119319	3.758	ppbv	99
51) Tetrachloroethene	9.673	166	9140	0.430	ppbv	94
55) Ethylbenzene	10.192	91	39124	0.864	ppbv	98
56) m,p-Xylene	10.280	91	106960	3.153	ppbv	98
60) o-Xylene	10.540	91	52053	1.421	ppbv	97
65) 4-Ethyltoluene	11.213	105	20172m	0.399	ppbv	
66) 1,3,5-Trimethylbenzene	11.258	105	32392m	0.770	ppbv	
67) 1,2,4-Trimethylbenzene	11.503	105	108821m	2.812	ppbv	
80] Dichlorodifluoromethan...	3.611	85	49539	0.597	ppbv	99
84] Trichlorofluoromethane...	5.161	101	23823	0.316	ppbv	100
86] 1,1,1-Trichloroethane(...	7.561	97	59216	1.481	ppbv#	98
87] Carbon Tetrachloride(sim)	7.861	117	2118	0.066	ppbv	95
89] Carbon Disulfide(sim)	5.952	76	97795	1.534	ppbv	96
95] Benzene(sim)	7.786	78	47967	1.293	ppbv#	95
99] Trichloroethene(sim)	8.265	130	1238m	0.072	ppbv	
105] Tetrachloroethene(sim)	9.673	166	9140	0.432	ppbv	94
110] Ethylbenzene(sim)	10.195	91	43942	0.834	ppbv	98
111] m,p-Xylene(sim)	10.280	91	106957	2.788	ppbv	98
114] o-Xylene(sim)	10.535	91	58276	1.357	ppbv	99
117] 4-Ethyltoluene(sim)	11.216	105	26046m	0.472	ppbv	
118] 1,3,5-Trimethylbenzene...	11.253	105	35528m	0.741	ppbv	
119] 1,2,4-Trimethylbenzene...	11.503	105	108831	2.600	ppbv#	83
125] 4-Isopropyltoluene(sim)	11.762	119	11066	0.189	ppbv#	55

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_32.D
Acq On : 23 Feb 2016 07:43 am
Operator : CORTEX\jms
Client ID : SS-8 DUP
Lab ID : BK67659 DUP
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 26 08:02:02 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 23 08:34:49 2016
Response via : Initial Calibration

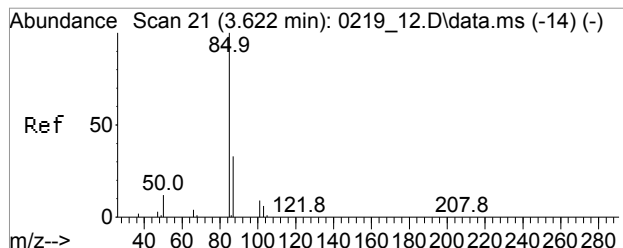
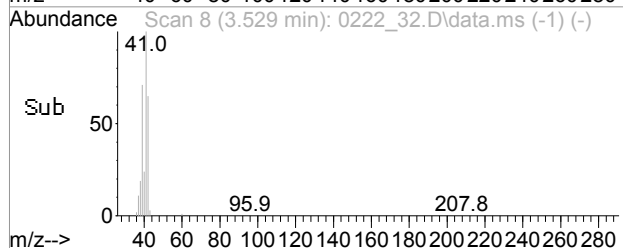
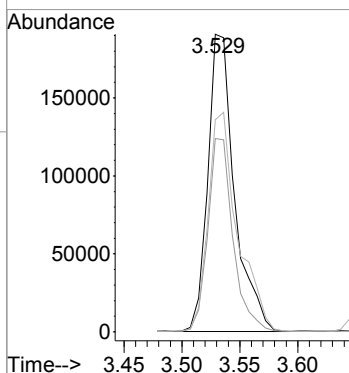
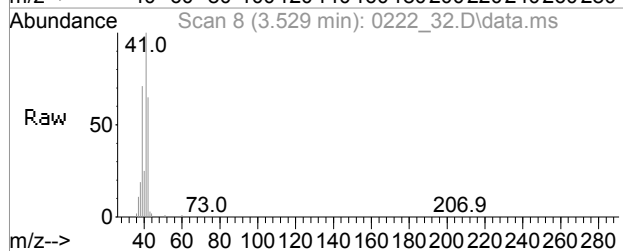




#2
Propylene
Concen: 12.48 ppbv
RT: 3.529 min Scan# 8
Delta R.T. -0.021 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

Tgt Ion: 41 Resp: 304525

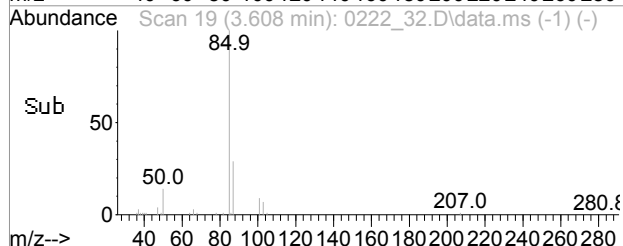
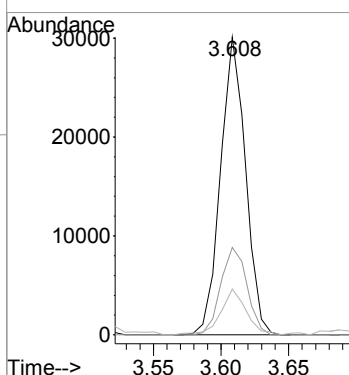
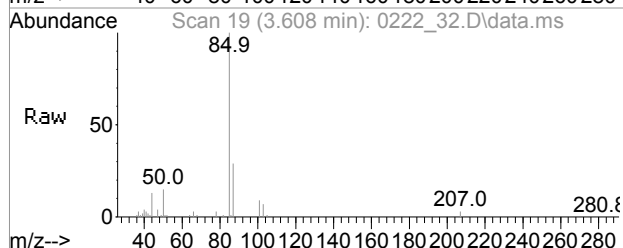
Ion	Ratio	Lower	Upper
41	100		
42	60.9	52.7	79.1
39	80.7	59.1	88.7

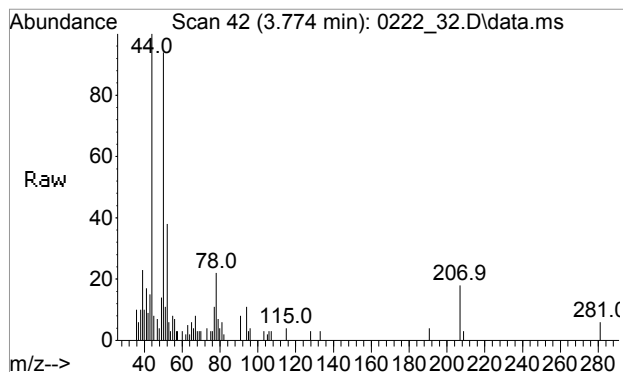


#3
Dichlorodifluoromethane
Concen: 0.58 ppbv
RT: 3.608 min Scan# 19
Delta R.T. -0.022 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

Tgt Ion: 85 Resp: 38842

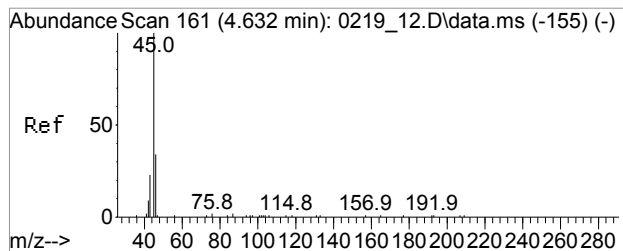
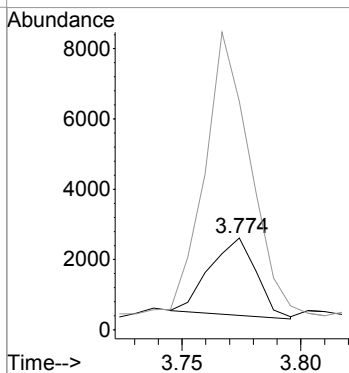
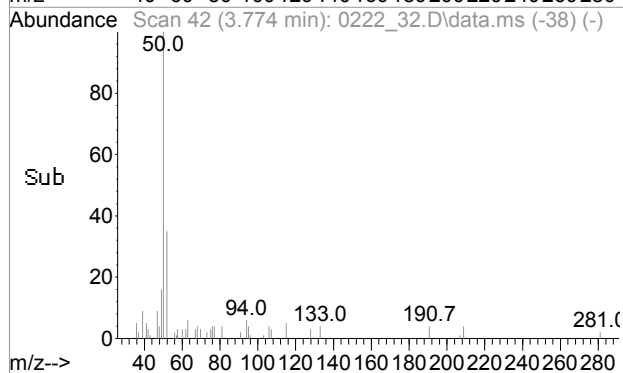
Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.1	39.1
50	15.6	10.5	15.7





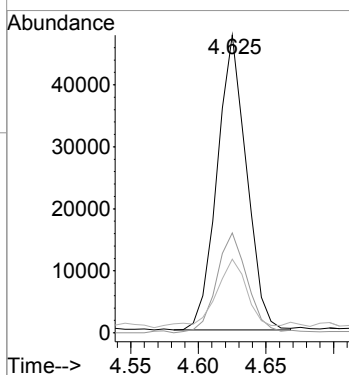
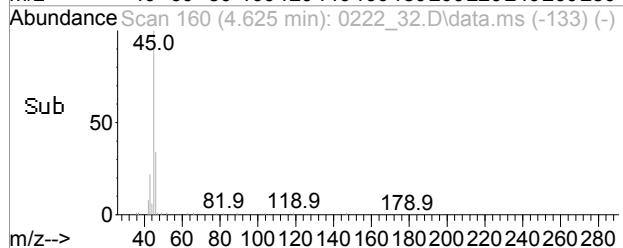
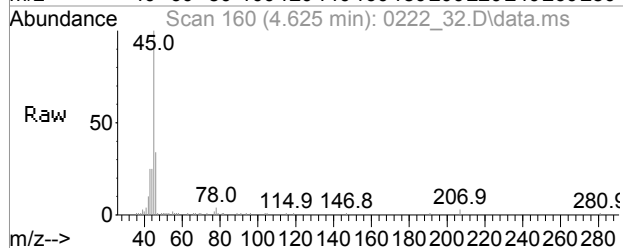
#4
Chloromethane
Concen: 0.54 ppbv m
RT: 3.774 min Scan# 42
Delta R.T. -0.014 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

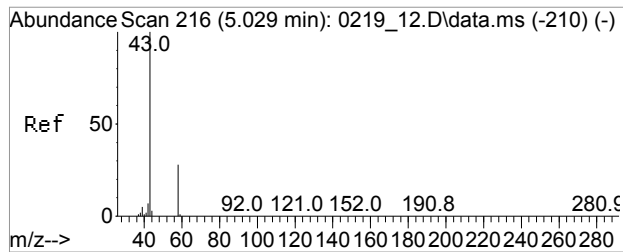
Tgt Ion: 52 Resp: 2932
Ion Ratio Lower Upper
52 100
50 416.7 284.4 324.4#



#10
Ethanol
Concen: 14.49 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

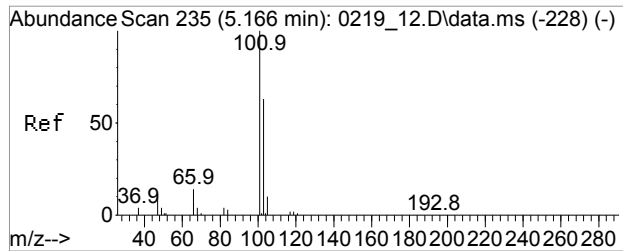
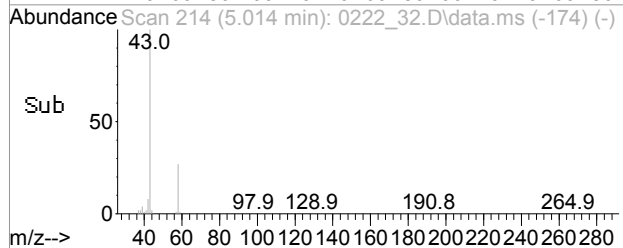
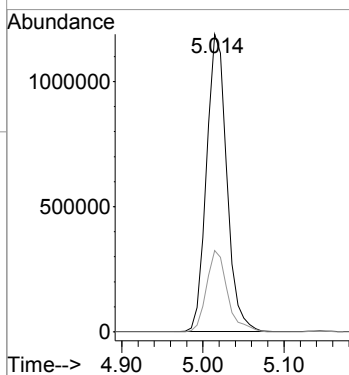
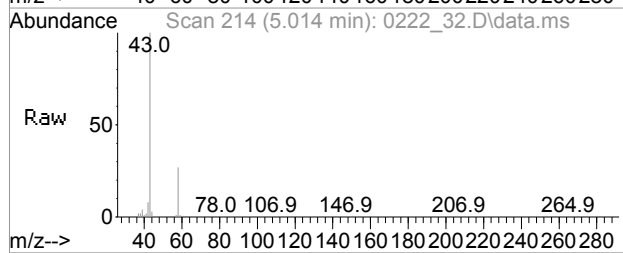
Tgt Ion: 45 Resp: 72101
Ion Ratio Lower Upper
45 100
46 35.9 28.5 42.7
43 24.7 19.7 29.5





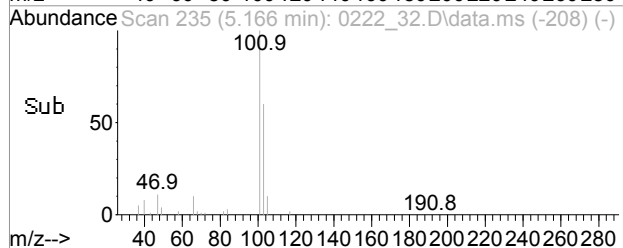
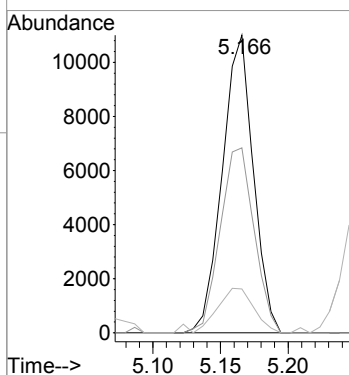
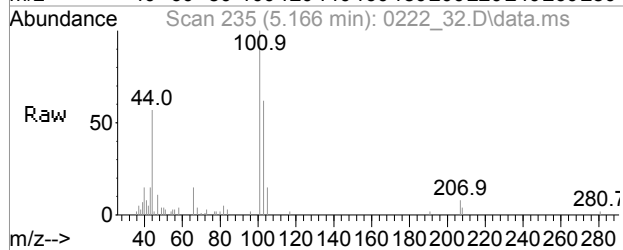
#11
Acetone
Concen: 73.72 ppbv
RT: 5.014 min Scan# 214
Delta R.T. -0.015 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

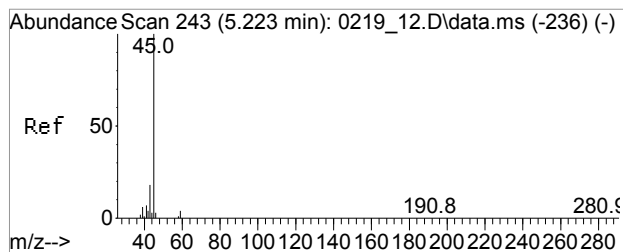
Tgt Ion: 43 Resp: 2061118
Ion Ratio Lower Upper
43 100
58 28.3 24.8 37.2



#12
Trichlorofluoromethane
Concen: 0.30 ppbv
RT: 5.166 min Scan# 235
Delta R.T. -0.007 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

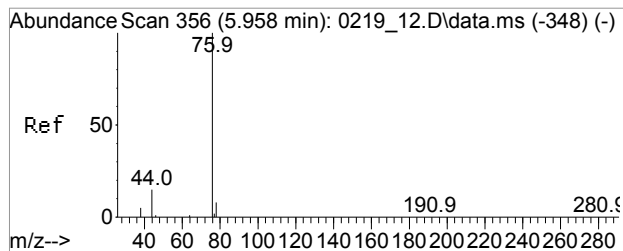
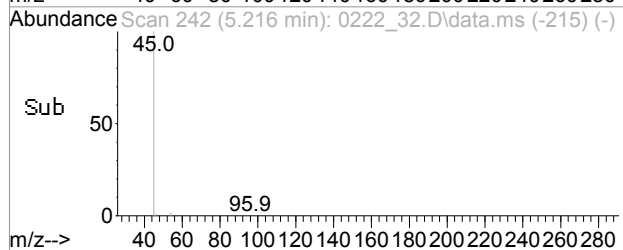
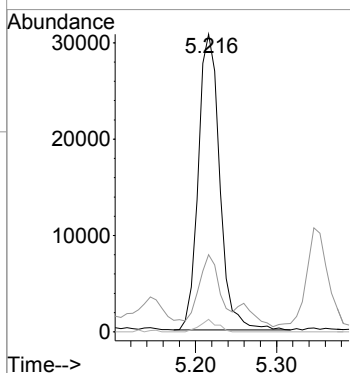
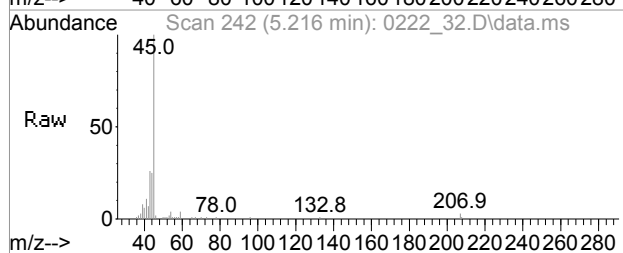
Tgt Ion: 101 Resp: 17644
Ion Ratio Lower Upper
101 100
103 67.9 51.8 77.8
66 18.2 11.1 16.7#





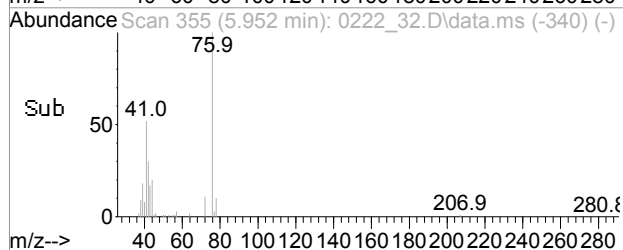
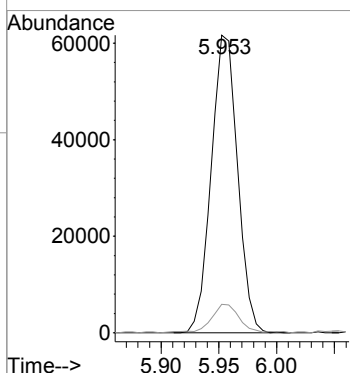
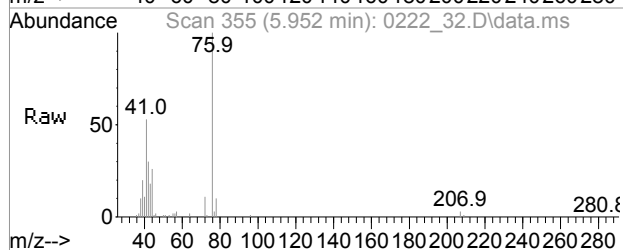
#13
Isopropylalcohol
Concen: 1.10 ppbv
RT: 5.216 min Scan# 242
Delta R.T. -0.007 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

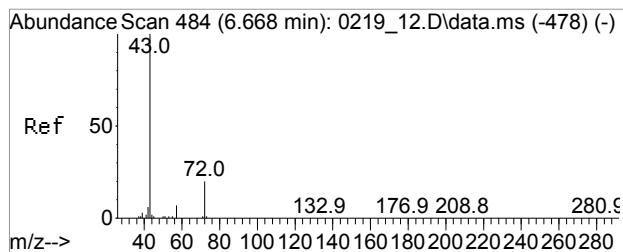
Tgt Ion: 45 Resp: 56456
Ion Ratio Lower Upper
45 100
43 0.0 15.4 23.0#
59 3.4 3.0 4.4



#19
Carbon Disulfide
Concen: 1.54 ppbv
RT: 5.952 min Scan# 355
Delta R.T. -0.012 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

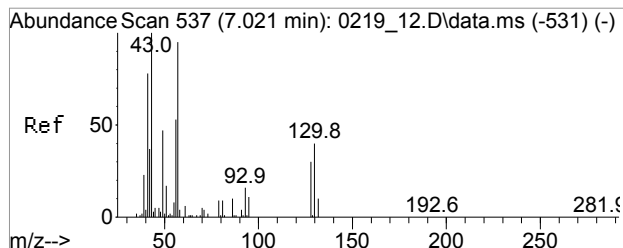
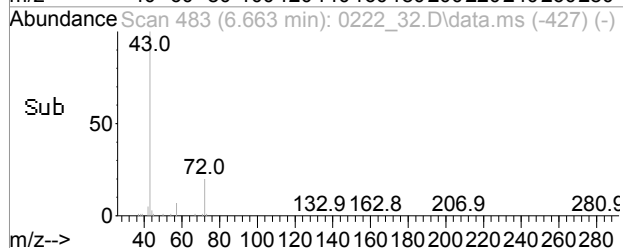
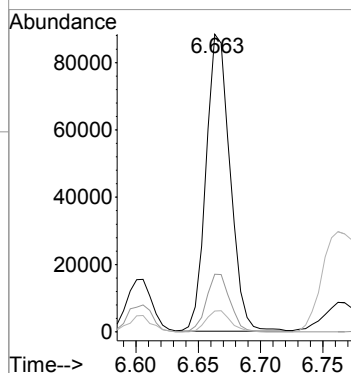
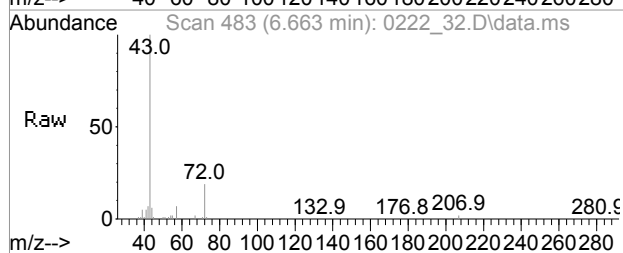
Tgt Ion: 76 Resp: 97795
Ion Ratio Lower Upper
76 100
78 10.5 7.3 10.9





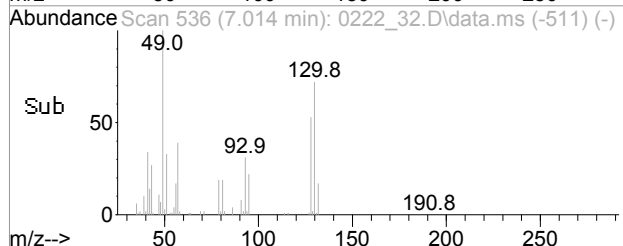
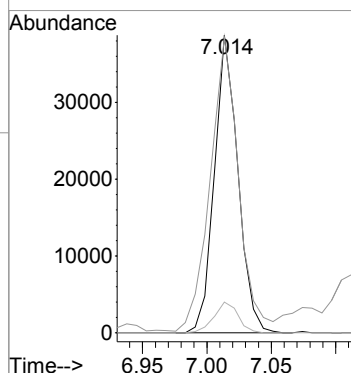
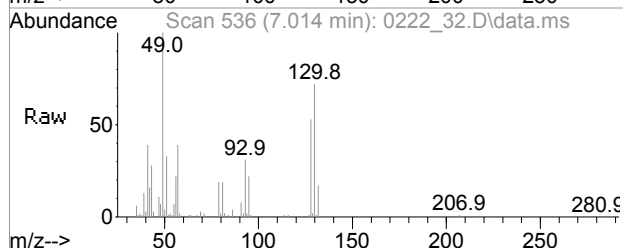
#24
Methyl Ethyl Ketone
Concen: 3.09 ppbv
RT: 6.663 min Scan# 483
Delta R.T. -0.010 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

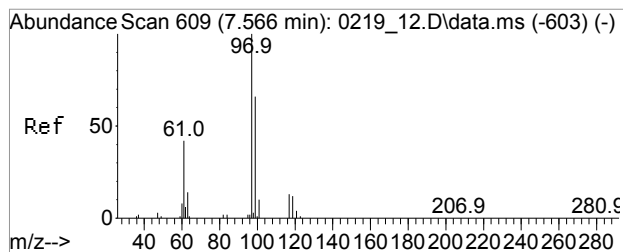
Tgt Ion: 43 Resp: 118313
Ion Ratio Lower Upper
43 100
72 19.0 15.9 23.9
57 7.2 5.6 8.4



#26
Hexane
Concen: 2.45 ppbv
RT: 7.014 min Scan# 536
Delta R.T. -0.007 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

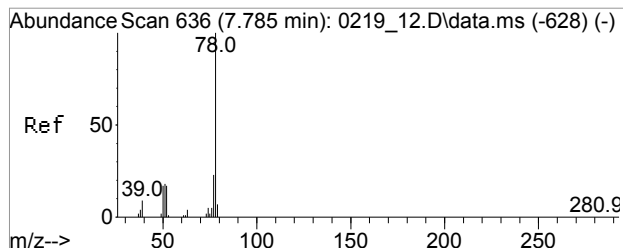
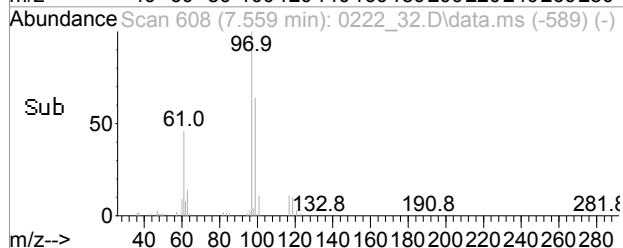
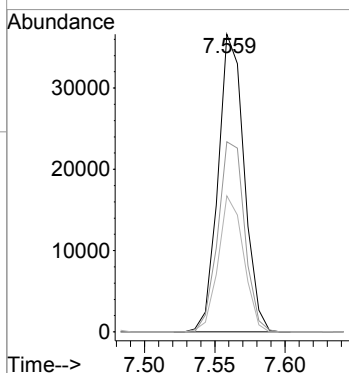
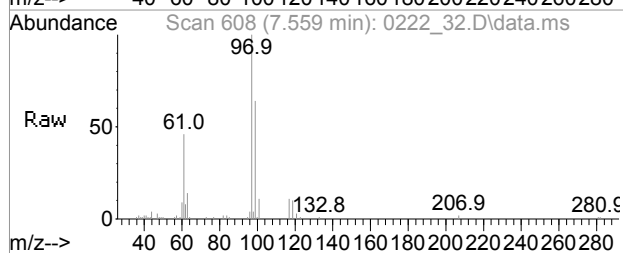
Tgt Ion: 57 Resp: 49177
Ion Ratio Lower Upper
57 100
41 117.9 67.4 101.2#
86 10.6 9.3 13.9





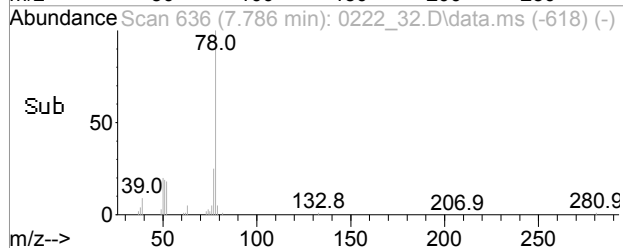
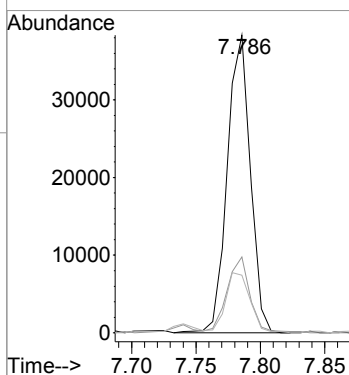
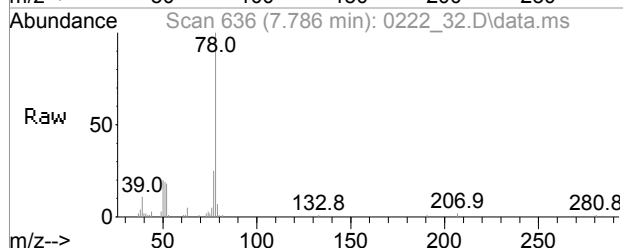
#31
1,1,1-Trichloroethane
Concen: 1.46 ppbv
RT: 7.559 min Scan# 608
Delta R.T. -0.007 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

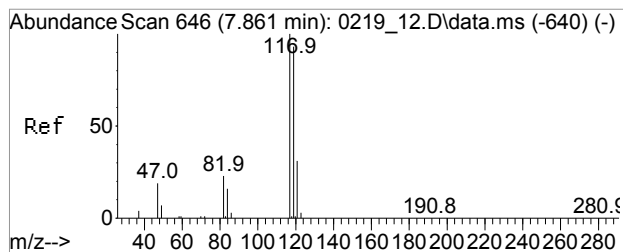
Tgt Ion: 97 Resp: 47204
Ion Ratio Lower Upper
97 100
99 65.6 52.3 78.5
61 44.9 32.9 49.3



#32
Benzene
Concen: 1.43 ppbv
RT: 7.786 min Scan# 636
Delta R.T. 0.001 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

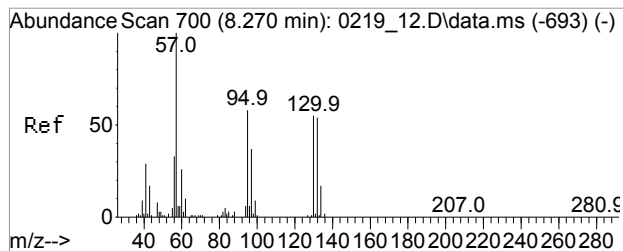
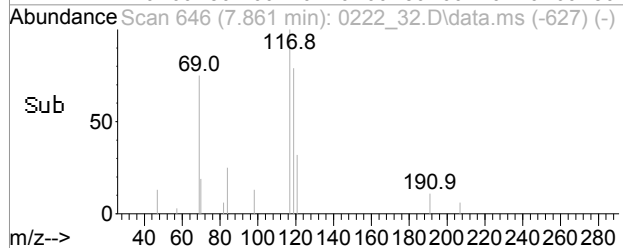
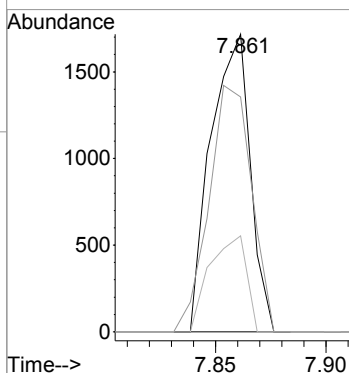
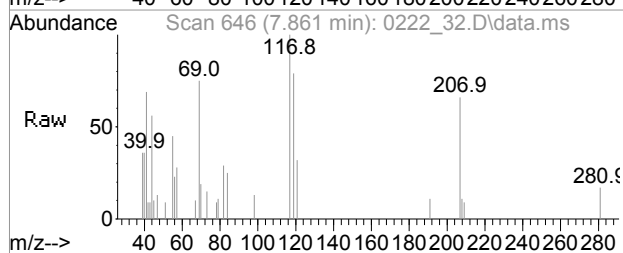
Tgt Ion: 78 Resp: 47967
Ion Ratio Lower Upper
78 100
77 25.5 18.6 27.8
51 21.4 14.9 22.3





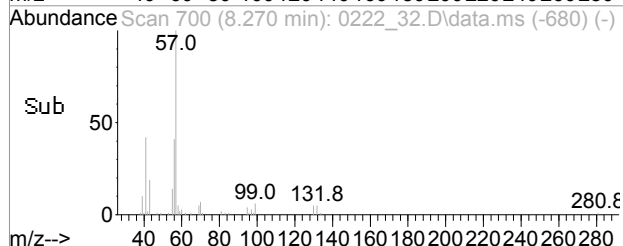
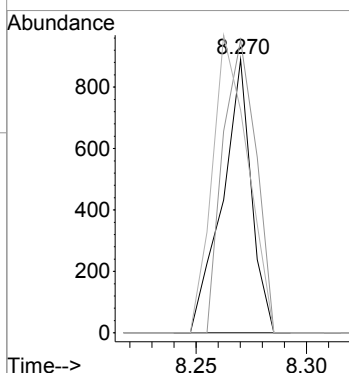
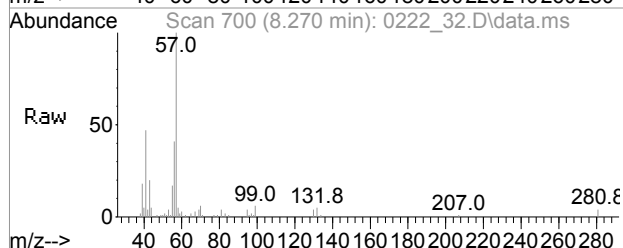
#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.861 min Scan# 646
Delta R.T. 0.000 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

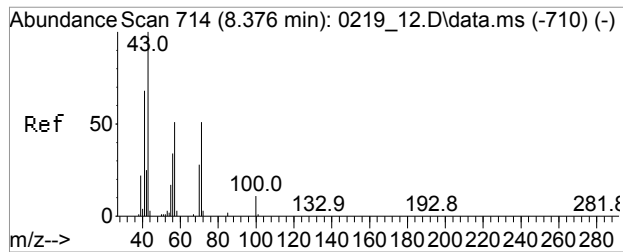
Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.7	75.9	115.9
121	30.1	10.8	50.8



#38
Trichloroethene
Concen: Below Cal
RT: 8.270 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

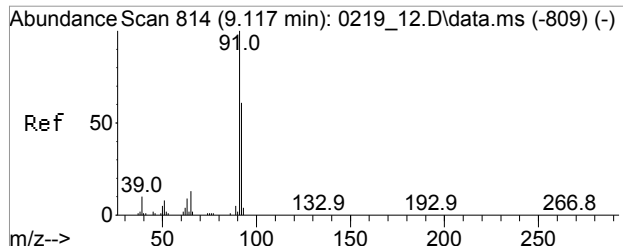
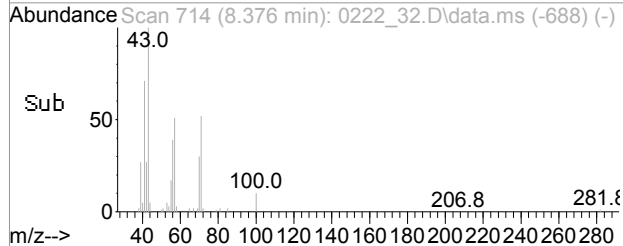
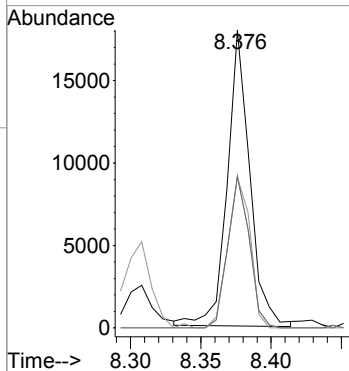
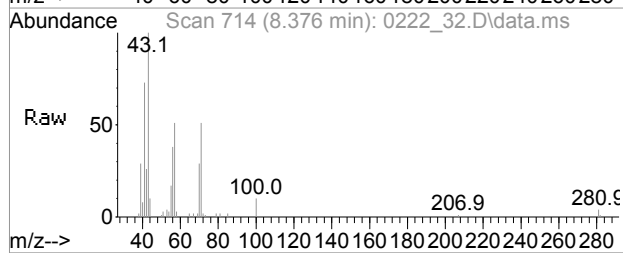
Tgt Ion	Ratio	Lower	Upper
130	100		
132	122.0	77.2	115.8#
95	132.9	82.7	124.1#





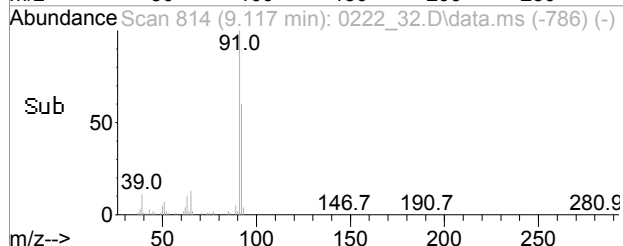
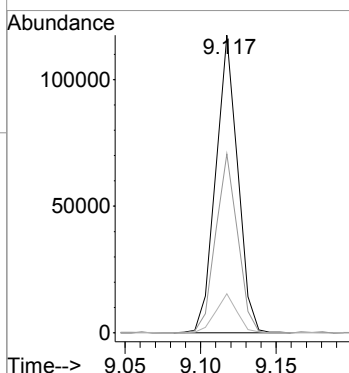
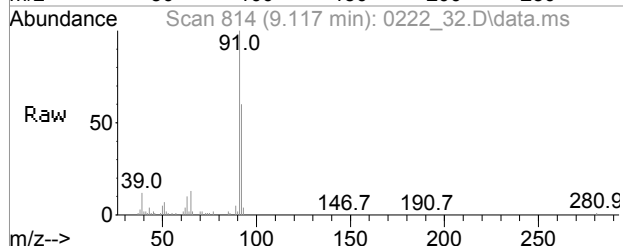
#42
Heptane
Concen: 1.46 ppbv
RT: 8.376 min Scan# 714
Delta R.T. 0.000 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

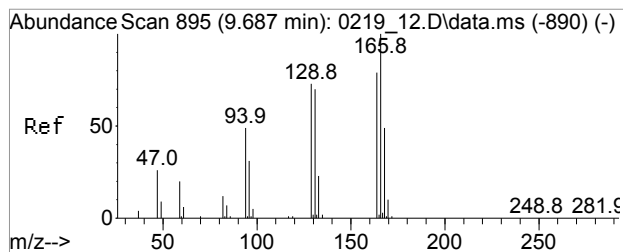
Tgt Ion:	43	Resp:	20078
Ion	Ratio	Lower	Upper
43	100		
57	50.2	43.0	64.4
71	48.8	43.6	65.4
71	48.8	43.6	65.4



#47
Toluene
Concen: 3.76 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

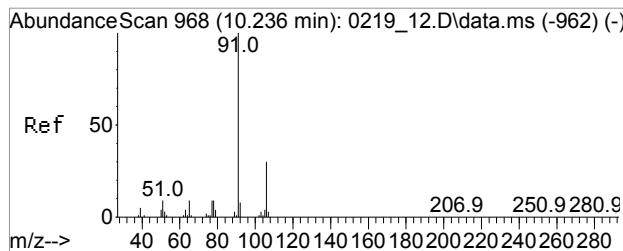
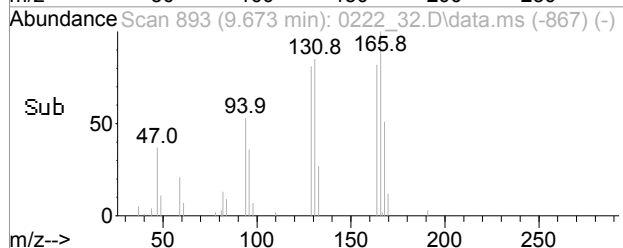
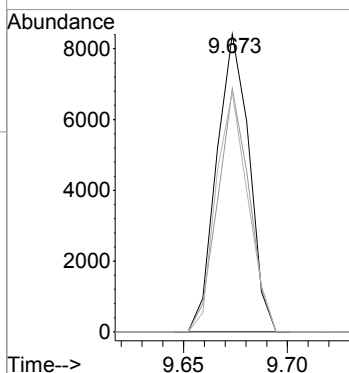
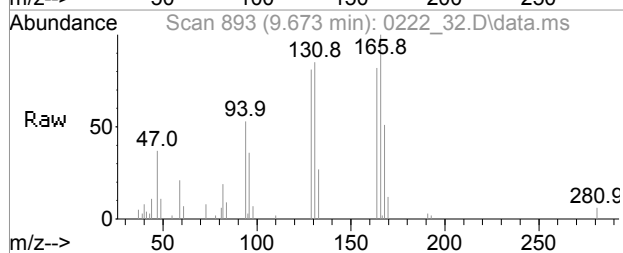
Tgt Ion:	91	Resp:	119319
Ion	Ratio	Lower	Upper
91	100		
92	59.9	47.7	71.5
65	12.8	9.5	14.3





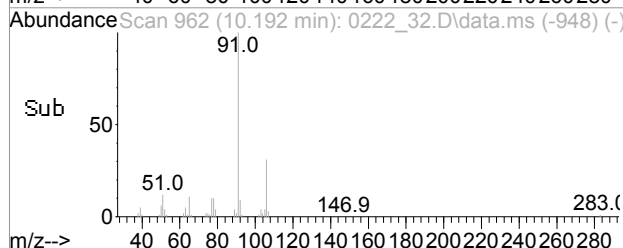
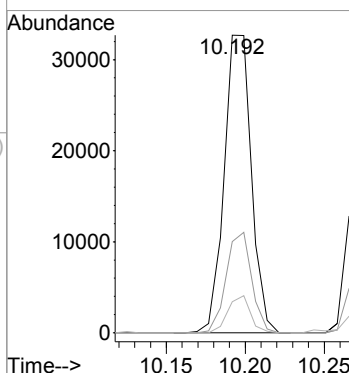
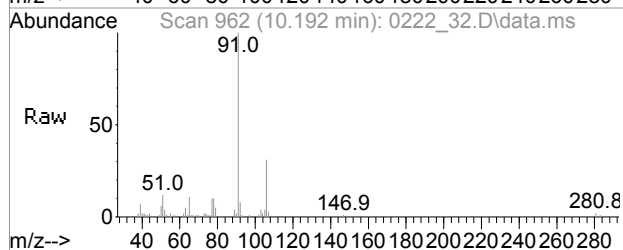
#51
Tetrachloroethene
Concen: 0.43 ppbv
RT: 9.673 min Scan# 893
Delta R.T. -0.014 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

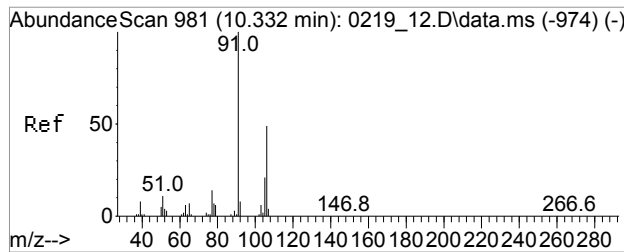
Tgt Ion: 166 Resp: 9140
Ion Ratio Lower Upper
166 100
164 79.4 62.2 93.4
129 79.5 56.6 84.8



#55
Ethylbenzene
Concen: 0.86 ppbv
RT: 10.192 min Scan# 962
Delta R.T. -0.044 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

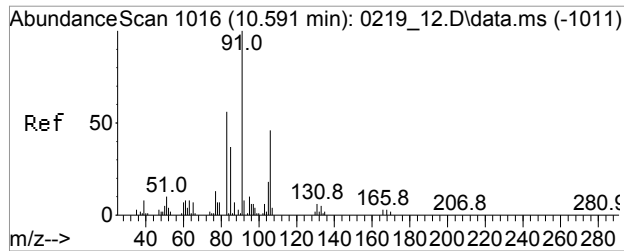
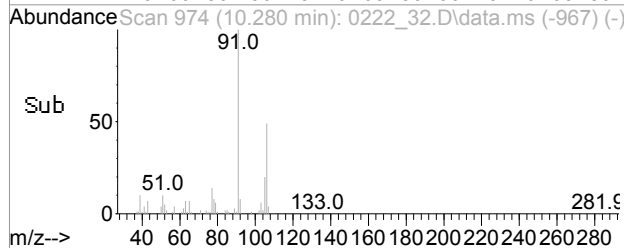
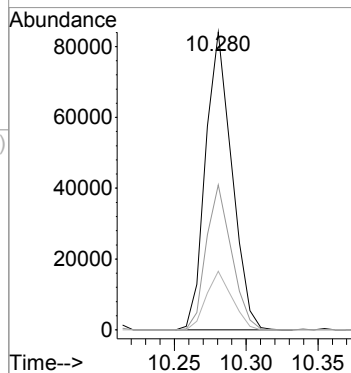
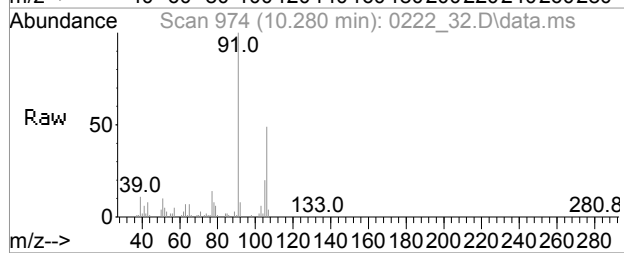
Tgt Ion: 91 Resp: 39124
Ion Ratio Lower Upper
91 100
106 31.7 10.8 50.8
77 10.4 0.0 28.9





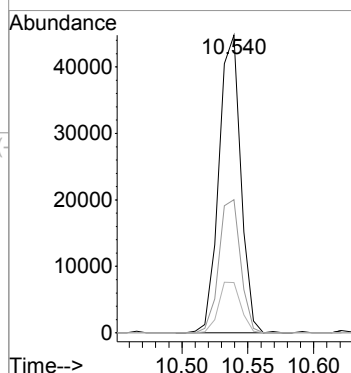
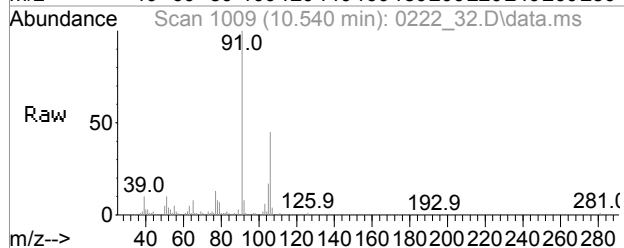
#56
m,p-Xylene
Concen: 3.15 ppbv
RT: 10.280 min Scan# 974
Delta R.T. -0.045 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

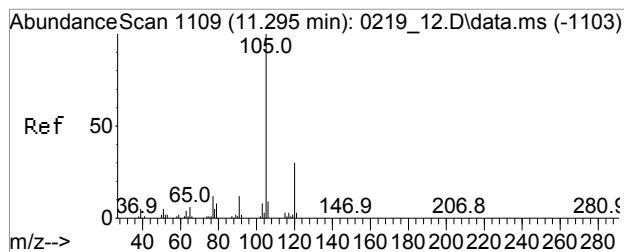
Tgt Ion: 91 Resp: 106960
Ion Ratio Lower Upper
91 100
106 46.9 38.7 58.1
105 19.2 16.6 25.0



#60
o-Xylene
Concen: 1.42 ppbv
RT: 10.540 min Scan# 1009
Delta R.T. -0.051 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

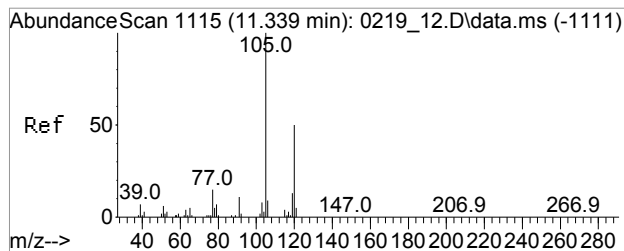
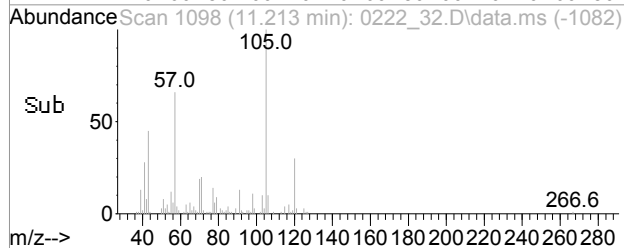
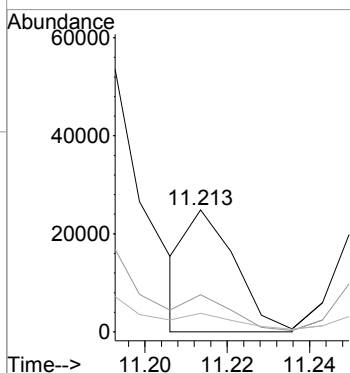
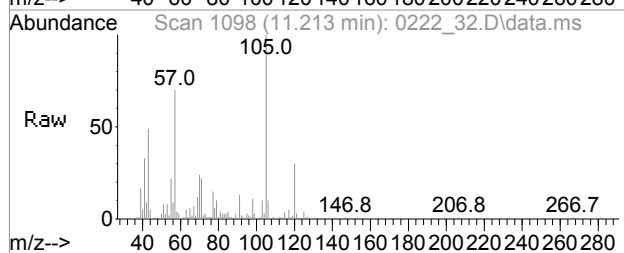
Tgt Ion: 91 Resp: 52053
Ion Ratio Lower Upper
91 100
106 44.5 37.4 56.2
105 17.3 14.1 21.1





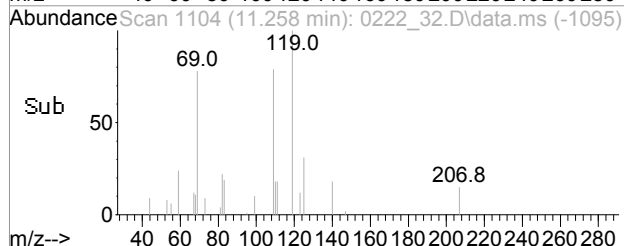
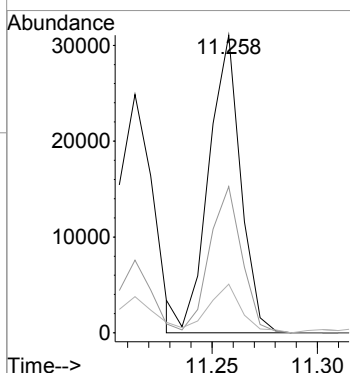
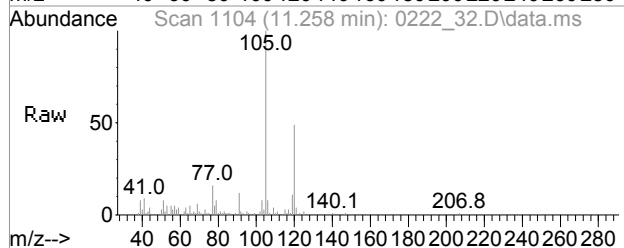
#65
4-Ethyltoluene
Concen: 0.40 ppbv m
RT: 11.213 min Scan# 1098
Delta R.T. -0.082 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

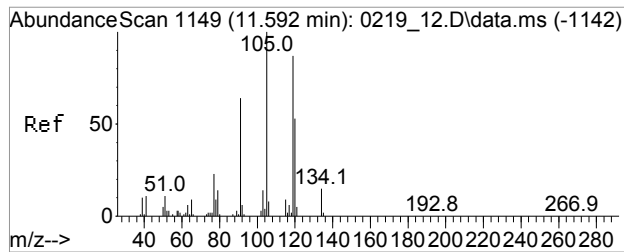
Tgt Ion:105 Resp: 20172
Ion Ratio Lower Upper
105 100
120 80.3 23.3 34.9#
77 27.1 10.0 15.0#



#66
1,3,5-Trimethylbenzene
Concen: 0.77 ppbv m
RT: 11.258 min Scan# 1104
Delta R.T. -0.081 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

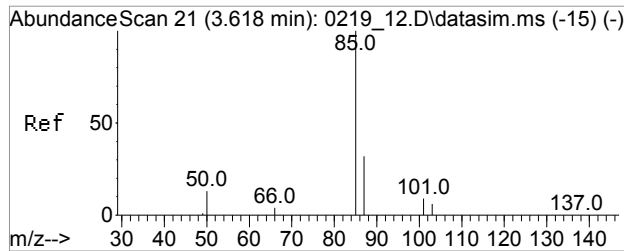
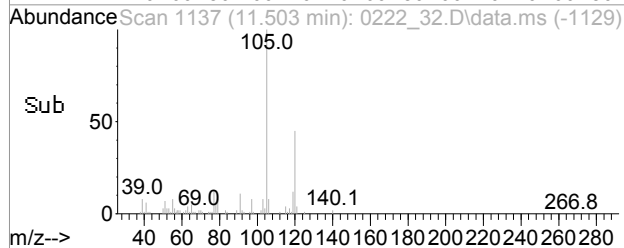
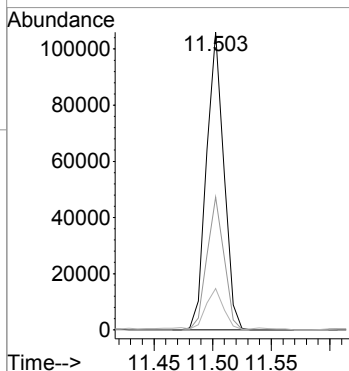
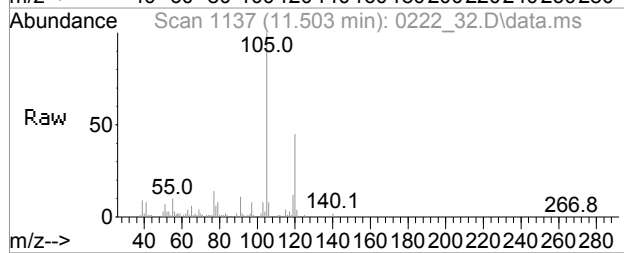
Tgt Ion:105 Resp: 32392
Ion Ratio Lower Upper
105 100
120 29.3 38.6 57.8#
77 13.1 11.3 16.9





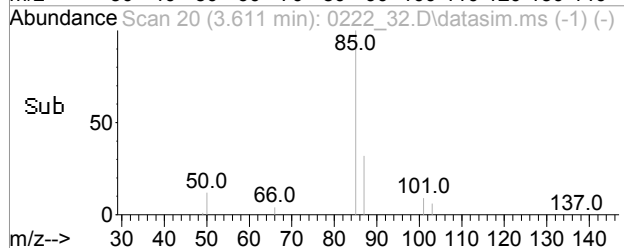
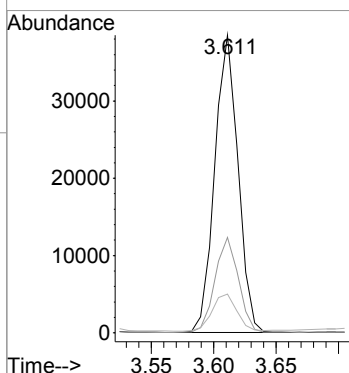
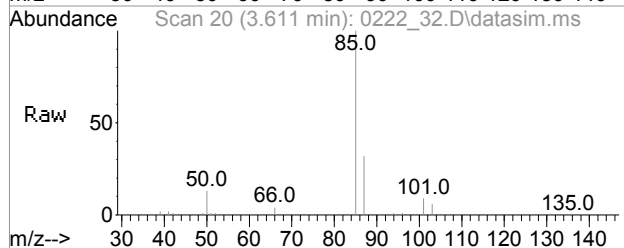
#67
1,2,4-Trimethylbenzene
Concen: 2.81 ppbv m
RT: 11.503 min Scan# 1137
Delta R.T. -0.088 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

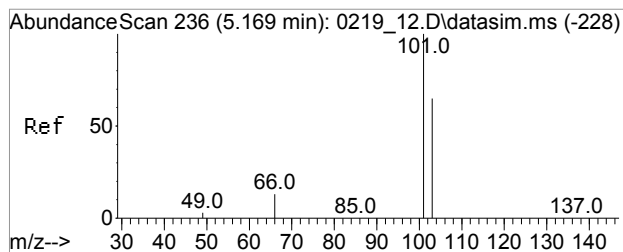
Tgt Ion: 105 Resp: 108821
Ion Ratio Lower Upper
105 100
120 0.0 43.5 65.3#
77 1.6 20.2 30.4#



#80
Dichlorodifluoromethane(sim)
Concen: 0.60 ppbv
RT: 3.611 min Scan# 20
Delta R.T. -0.014 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

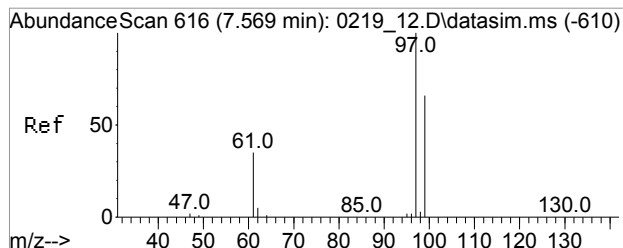
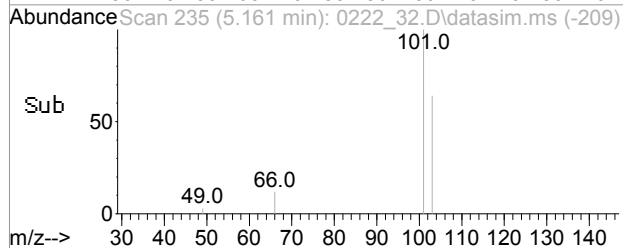
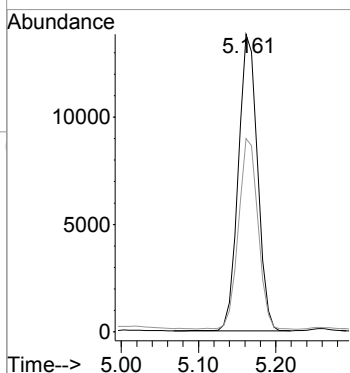
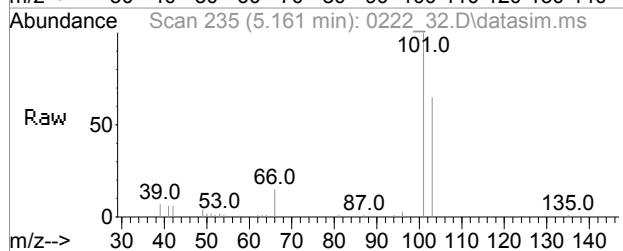
Tgt Ion: 85 Resp: 49539
Ion Ratio Lower Upper
85 100
87 32.2 12.7 52.7
50 13.5 0.0 32.3





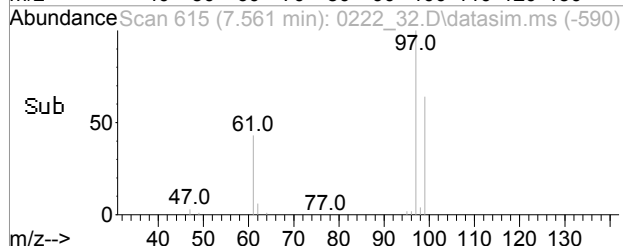
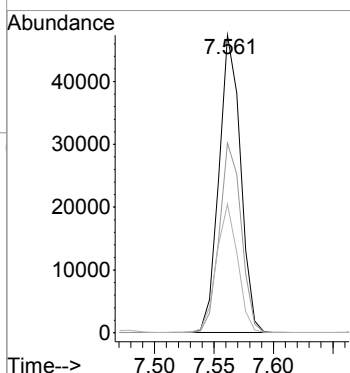
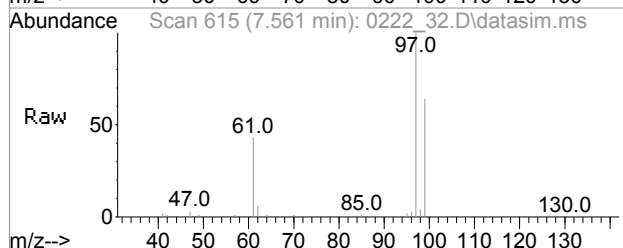
#84
Trichlorofluoromethane(sim)
Concen: 0.32 ppbv
RT: 5.161 min Scan# 235
Delta R.T. -0.015 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

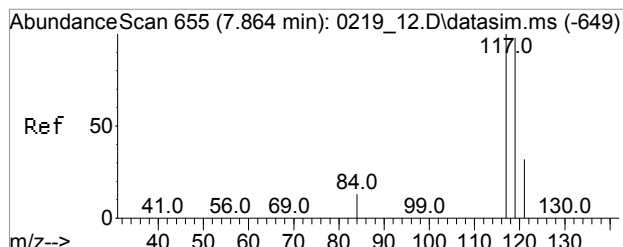
Tgt Ion:101 Resp: 23823
Ion Ratio Lower Upper
101 100
103 65.3 52.0 78.0



#86
1,1,1-Trichloroethane(sim)
Concen: 1.48 ppbv
RT: 7.561 min Scan# 615
Delta R.T. -0.008 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

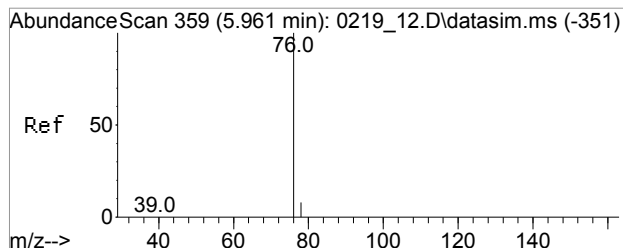
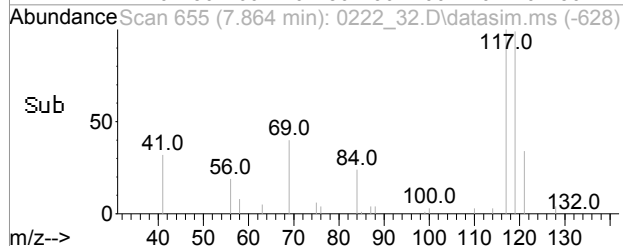
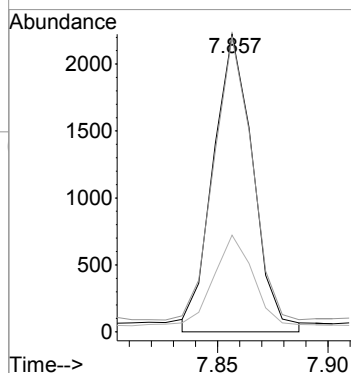
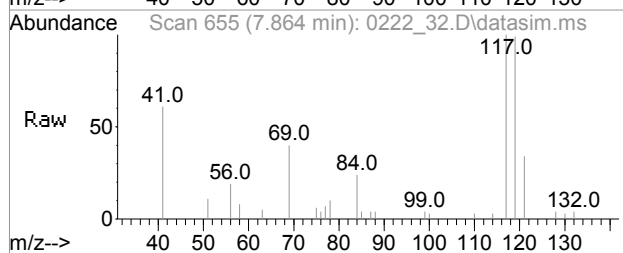
Tgt Ion: 97 Resp: 59216
Ion Ratio Lower Upper
97 100
99 64.5 65.2 65.2#
61 42.5 32.1 48.1





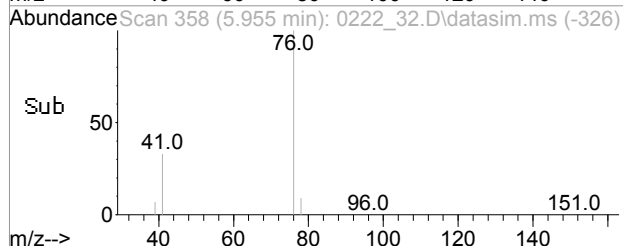
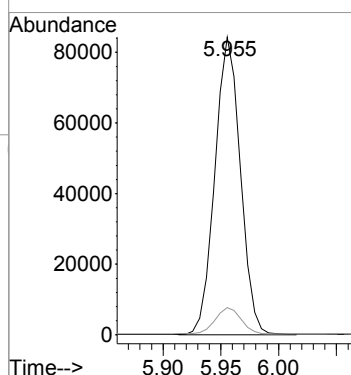
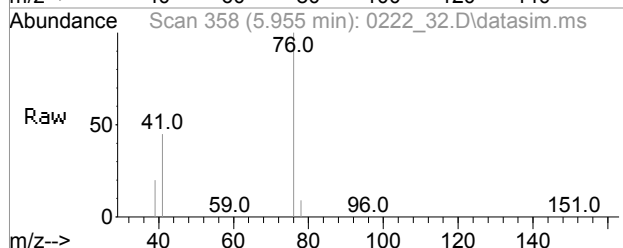
#87
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 7.861 min Scan# 655
Delta R.T. 0.000 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

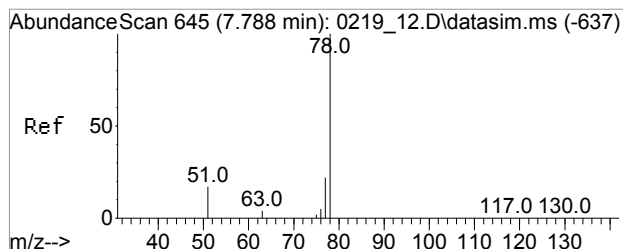
Tgt Ion:117 Resp: 2118
Ion Ratio Lower Upper
117 100
119 89.7 76.7 115.1
121 30.1 24.6 37.0



#89
Carbon Disulfide(sim)
Concen: 1.53 ppbv
RT: 5.952 min Scan# 358
Delta R.T. -0.012 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

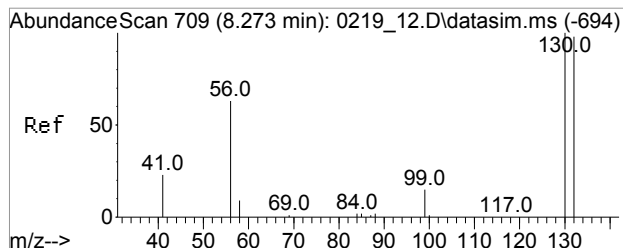
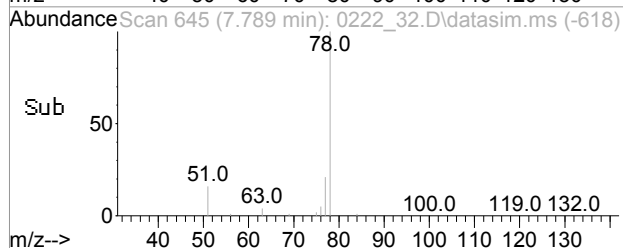
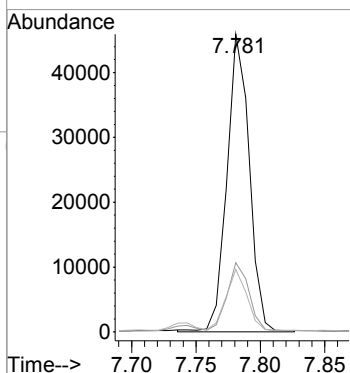
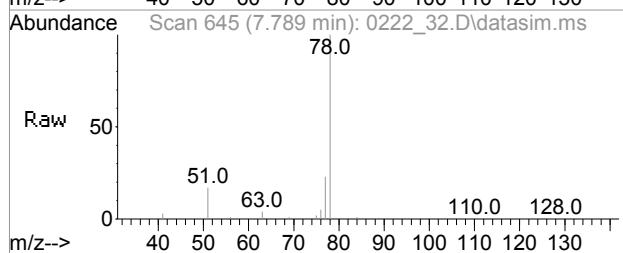
Tgt Ion: 76 Resp: 97795
Ion Ratio Lower Upper
76 100
78 10.5 7.3 10.9





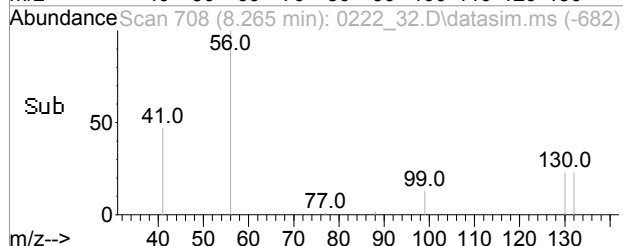
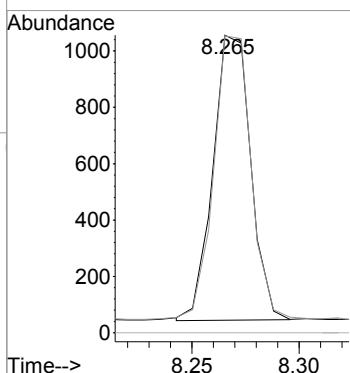
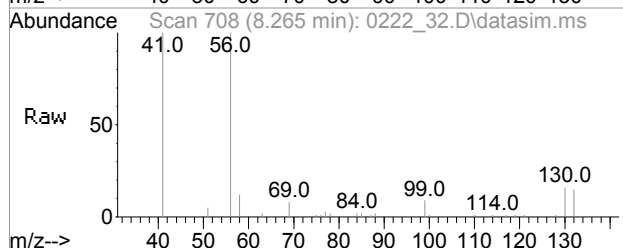
#95
Benzene(sim)
Concen: 1.29 ppbv
RT: 7.786 min Scan# 645
Delta R.T. 0.001 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

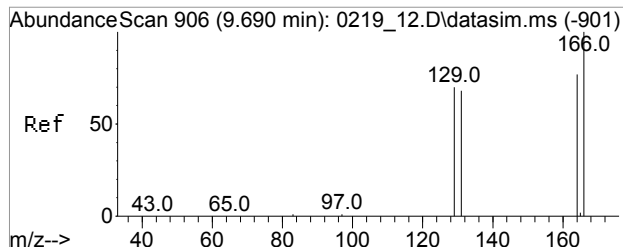
Tgt Ion: 78 Resp: 47967
Ion Ratio Lower Upper
78 100
77 25.5 22.0 24.4#
51 21.4 14.9 22.3



#99
Trichloroethene(sim)
Concen: 0.07 ppbv m
RT: 8.265 min Scan# 708
Delta R.T. -0.005 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

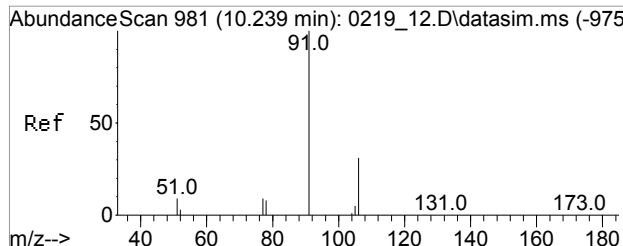
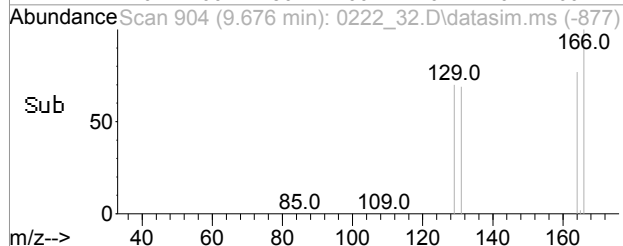
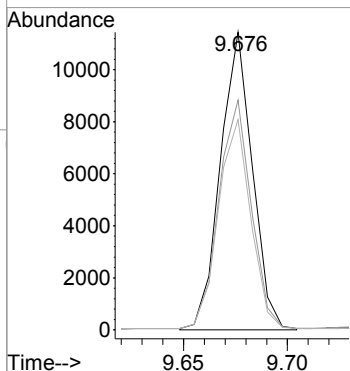
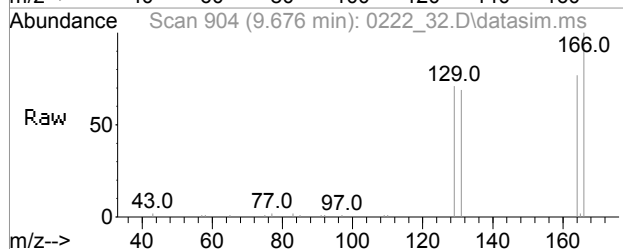
Tgt Ion: 130 Resp: 1238
Ion Ratio Lower Upper
130 100
132 80.0 77.2 115.8
97 56.5 53.5 80.3





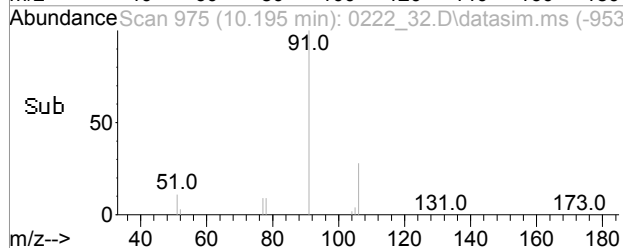
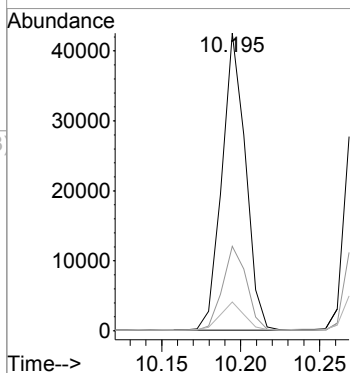
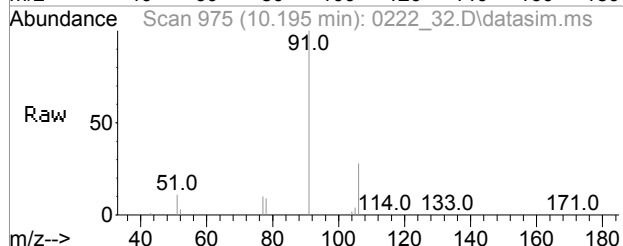
#105
Tetrachloroethene(sim)
Concen: 0.43 ppbv
RT: 9.673 min Scan# 904
Delta R.T. -0.014 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

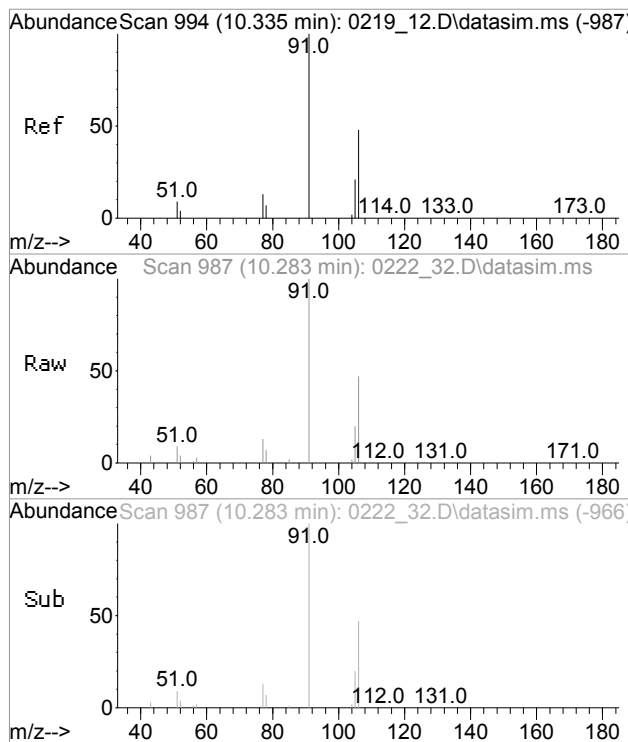
Tgt Ion:166 Resp: 9140
Ion Ratio Lower Upper
166 100
164 79.4 57.8 97.8
129 79.5 50.7 90.7



#110
Ethylbenzene(sim)
Concen: 0.83 ppbv
RT: 10.195 min Scan# 975
Delta R.T. -0.036 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

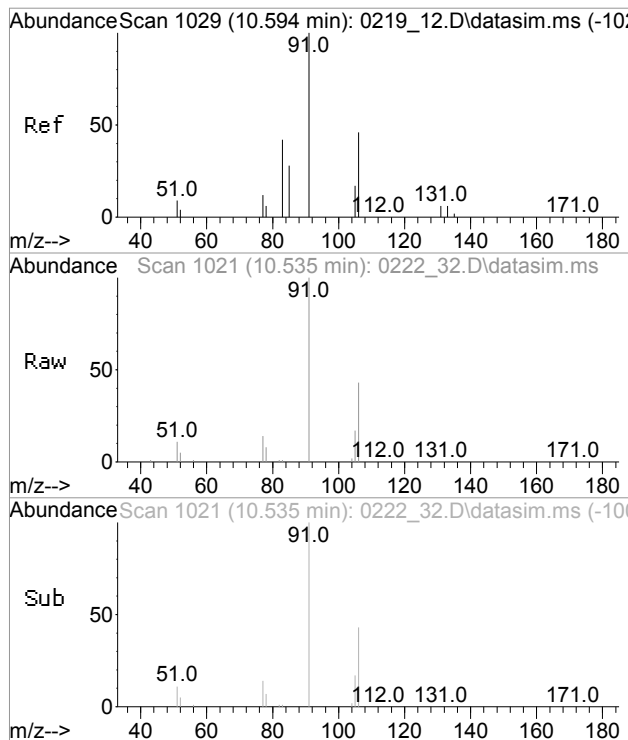
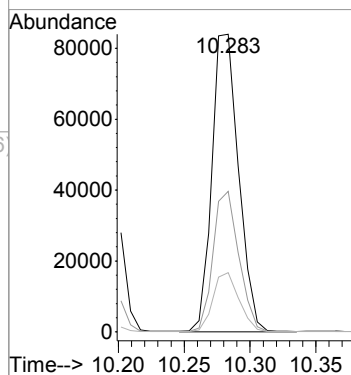
Tgt Ion: 91 Resp: 43942
Ion Ratio Lower Upper
91 100
106 29.0 24.0 36.0
77 9.6 7.3 10.9





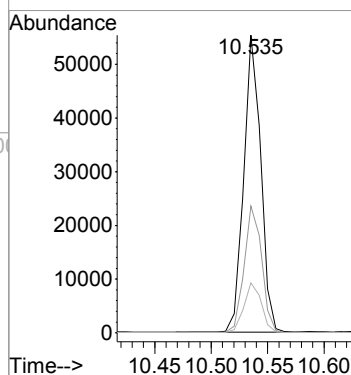
#111
m,p-Xylene(sim)
Concen: 2.79 ppbv
RT: 10.280 min Scan# 987
Delta R.T. -0.045 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

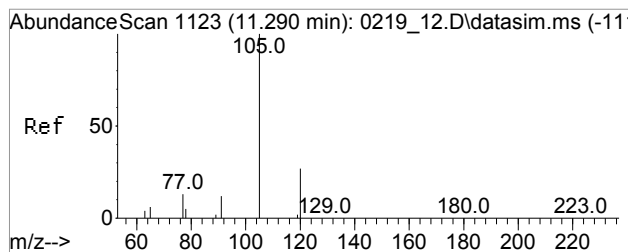
Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.9	43.6	53.2
105	19.2	16.6	25.0



#114
o-Xylene(sim)
Concen: 1.36 ppbv
RT: 10.535 min Scan# 1021
Delta R.T. -0.059 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

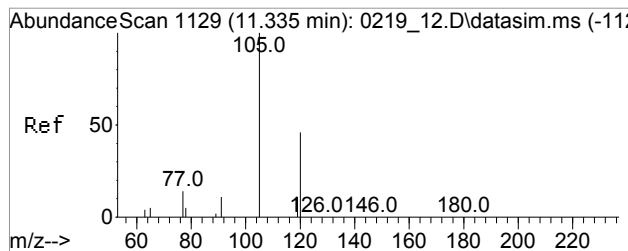
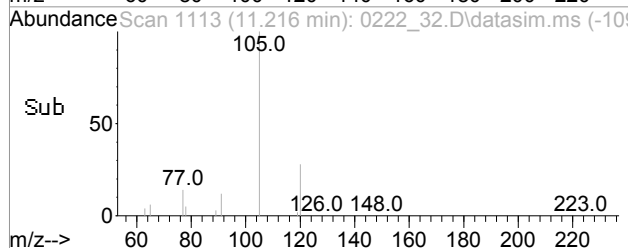
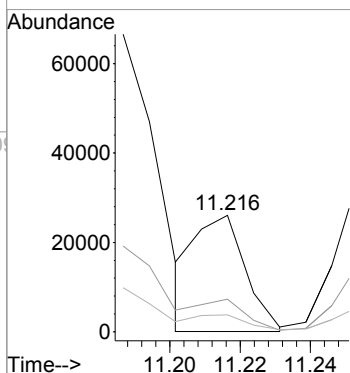
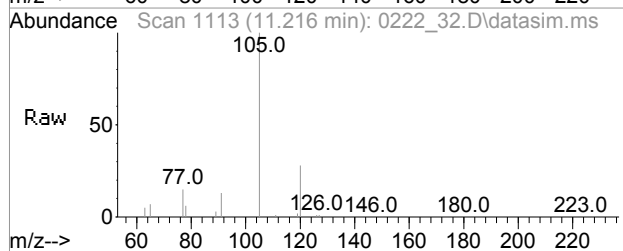
Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.8	36.0	54.0
105	17.2	13.8	20.8





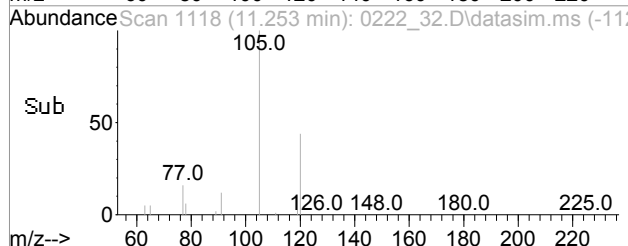
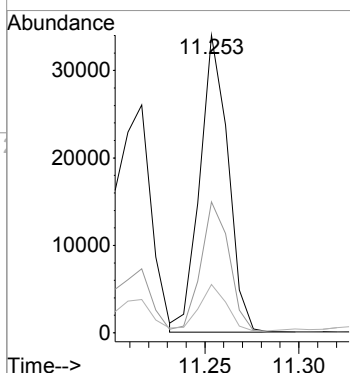
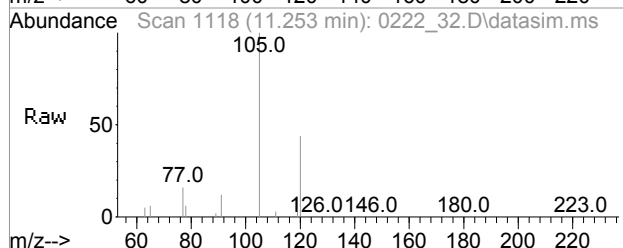
#117
4-Ethyltoluene(sim)
Concen: 0.47 ppbv m
RT: 11.216 min Scan# 1113
Delta R.T. -0.079 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

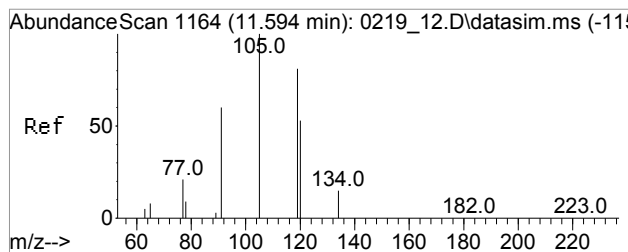
Tgt Ion:105 Resp: 26046
Ion Ratio Lower Upper
105 100
120 62.2 23.3 34.9#
77 21.0 10.0 15.0#



#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.74 ppbv m
RT: 11.253 min Scan# 1118
Delta R.T. -0.082 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

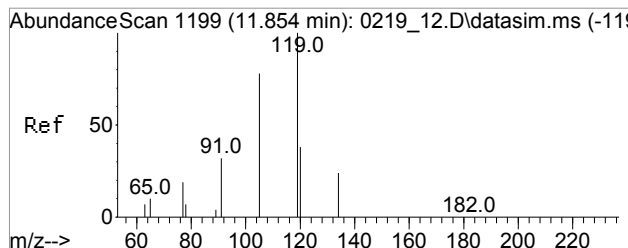
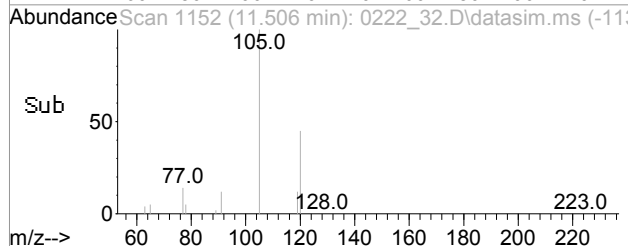
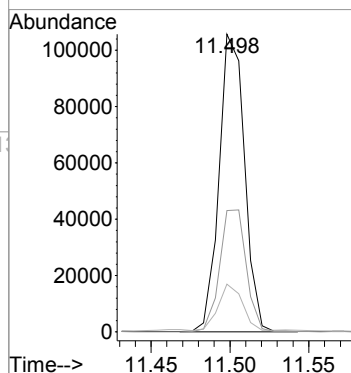
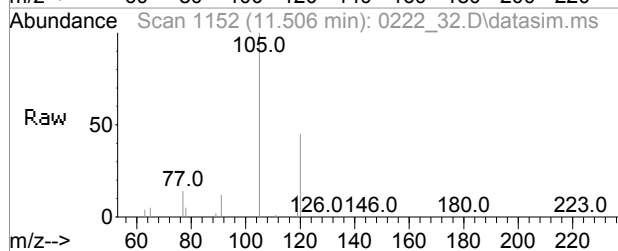
Tgt Ion:105 Resp: 35528
Ion Ratio Lower Upper
105 100
120 25.8 10.6 82.0
77 12.6 11.4 17.2





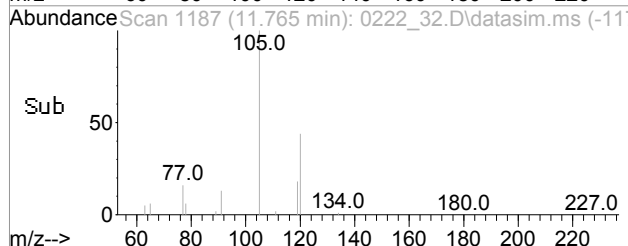
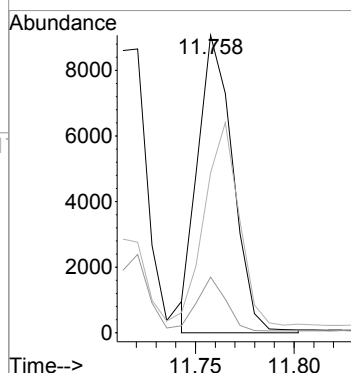
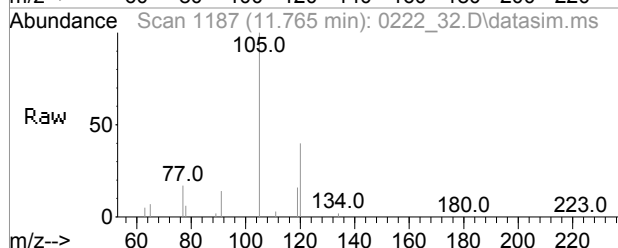
#119
1,2,4-Trimethylbenzene(sim)
Concen: 2.60 ppbv
RT: 11.503 min Scan# 1152
Delta R.T. -0.088 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	43.5	65.3
77	14.2	20.2	30.4#



#125
4-Isopropyltoluene(sim)
Concen: 0.19 ppbv
RT: 11.762 min Scan# 1187
Delta R.T. -0.089 min
Lab File: 0222_32.D
Acq: 23 Feb 2016 07:43 am

Tgt Ion	Ratio	Lower	Upper
119	100		
134	14.7	18.2	27.4#
91	68.7	25.8	38.8#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666 LCS</u>
Canister:	<u>LCS</u>	Lab File ID:	<u>0222_04.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	10.5		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.4		0.202	0.202	r
74-87-3	Chloromethane	9.60		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.4		0.143	0.143	r
75-01-4	Vinyl Chloride	10.2		0.098	0.098	r
106-99-0	1,3-Butadiene	10.1		0.452	0.452	r
74-83-9	Bromomethane	10.3		0.258	0.258	r
75-00-3	Chloroethane	9.95		0.379	0.379	r
64-17-5	Ethanol	10.4		0.531	0.531	r
67-64-1	Acetone	8.91		0.421	0.421	r
75-69-4	Trichlorofluoromethane	10.4		0.178	0.178	r
67-63-0	Isopropylalcohol	9.53		0.407	0.407	r
107-13-1	Acrylonitrile	8.87		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.2		0.252	0.252	r
75-09-2	Methylene Chloride	10.4		0.288	0.288	r
75-15-0	Carbon Disulfide	10.2		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.3		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.2		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.1		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.1		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	10.1		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.0		0.252	0.252	r
110-54-3	Hexane	10.4		0.284	0.284	r
67-66-3	Chloroform	10.4		0.205	0.205	r
141-78-6	Ethyl acetate	10.1		0.278	0.278	r
109-99-9	Tetrahydrofuran	9.94		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.4		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.4		0.183	0.183	r
71-43-2	Benzene	9.93		0.313	0.313	r
56-23-5	Carbon Tetrachloride	10.4		0.040	0.040	r
110-82-7	Cyclohexane	9.72		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.1		0.217	0.217	r
75-27-4	Bromodichloromethane	10.6		0.149	0.149	r
79-01-6	Trichloroethene	10.3		0.047	0.047	r
123-91-1	1,4-Dioxane	9.89		0.278	0.278	r
142-82-5	Heptane	10.2		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666 LCS</u>
Canister:	<u>LCS</u>	Lab File ID:	<u>0222_04.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	11.2		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	10.2		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.7		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.2		0.183	0.183	r
108-88-3	Toluene	10.2		0.266	0.266	r
124-48-1	Dibromochloromethane	10.8		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	10.4		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.6		0.130	0.130	r
127-18-4	Tetrachloroethene	10.5		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.3		0.146	0.146	r
108-90-7	Chlorobenzene	10.0		0.217	0.217	r
100-41-4	Ethylbenzene	10.2		0.230	0.230	r
179601-23-1	m,p-Xylene	21.2		0.230	0.230	r
75-25-2	Bromoform	10.4		0.097	0.097	r
100-42-5	Styrene	10.9		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.1		0.146	0.146	r
95-47-6	o-Xylene	10.0		0.230	0.230	r
98-82-8	Isopropylbenzene	10.0		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.2		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.1		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	9.97		0.204	0.204	r
100-44-7	Benzyl chloride	10.4		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	9.80		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	9.95		0.166	0.166	r
135-98-8	sec-Butylbenzene	7.50		0.182	0.182	r
99-87-6	4-Isopropyltoluene	9.74		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	9.71		0.166	0.166	r
104-51-8	n-Butylbenzene	9.74		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	10.2		0.135	0.135	r
87-68-3	Hexachlorobutadiene	9.58		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_04.D
 Acq On : 22 Feb 2016 08:56 am
 Operator : CORTEX\ms
 Client ID : BK67666 LCS
 Lab ID : BK67666 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:24:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	164526	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	430038	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	205787	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	164526	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	512366	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.024	82	224519	10.000	ng	0.00

System Monitoring Compounds						
61) % Bromofluorobenzene	10.850	95	285243	10.497	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 105.00%		

Target Compounds					Qvalue	
2) Propylene	3.543	41	267863	10.481	ppbv	99
3) Dichlorodifluoromethane	3.623	85	727409	10.390	ppbv	100
4) Chloromethane	3.781	52	54551	9.604	ppbv#	90
5) 1,2-Dichlorotetrafluor...	3.882	85	508397	10.442	ppbv	100
6) Vinyl Chloride	3.998	62	175996	10.147	ppbv	99
7) 1,3-Butadiene	4.127	54	126911	10.075	ppbv	94
8) Bromomethane	4.373	94	188321	10.258	ppbv	100
9) Chloroethane	4.531	64	80323	9.951	ppbv	100
10) Ethanol	4.632	45	54264	10.408	ppbv	97
11) Acetone	5.021	43	260912	8.908	ppbv	100
12) Trichlorofluoromethane	5.166	101	641299	10.361	ppbv	99
13) Isopropylalcohol	5.223	45	510462	9.532	ppbv	99
14) Acrylonitrile	5.396	53	194766	8.867	ppbv	98
15) 1,1-Dichloroethene	5.655	61	438229	10.192	ppbv	100
16) Methylene Chloride	5.738	49	359294	10.395	ppbv	98
19) Carbon Disulfide	5.964	76	678037	10.208	ppbv	99
20) Trichlorotrifluoroethane	5.917	101	471837	10.264	ppbv	99
21) Trans-1,2-Dichloroethene	6.345	61	333753	10.226	ppbv	100
22) 1,1-Dichloroethane	6.465	63	401001	10.108	ppbv	99
23) Methyl tert-butyl ethe...	6.486	73	519149	10.114	ppbv	99
24) Methyl Ethyl Ketone	6.668	43	405106	10.113	ppbv	99
25) Cis-1,2-Dichloroethene	6.915	61	256108	10.042	ppbv	100
26) Hexane	7.021	57	219417	10.425	ppbv	99
27) Chloroform	7.074	83	400929	10.345	ppbv	99
28) Ethyl acetate	7.006	43	536132	10.141	ppbv	100
29) Tetrahydrofuran	7.271	42	150935	9.936	ppbv	99
30) 1,2-Dichloroethane	7.437	62	237263	10.351	ppbv	100
31) 1,1,1-Trichloroethane	7.566	97	351728	10.366	ppbv	99
32) Benzene	7.786	78	348613	9.934	ppbv	99
33) Carbon Tetrachloride	7.861	117	342431	10.402	ppbv	99
34) Cyclohexane	7.922	41	88771	9.715	ppbv	100
36) 1,2-dichloropropane	8.164	63	116961	10.056	ppbv	97
37) Bromodichloromethane	10.584	83	341517	10.609	ppbv	99
38) Trichloroethene	8.270	130	153708	10.292	ppbv	98
40) 1,4-Dioxane	8.255	88	67207	9.890	ppbv	99
42) Heptane	8.384	43	142728	10.221	ppbv	99
43) cis-1,3-Dichloropropene	8.656	75	215975	11.239	ppbv	93
44) 4-Methyl-2-pentanone(M...	8.648	43	218318	10.161	ppbv	99
45) trans-1,3-Dichloropropene	8.892	75	177155	10.686	ppbv	100
46) 1,1,2-Trichloroethane	8.984	97	136184	10.201	ppbv	99
47) Toluene	9.117	91	328305	10.150	ppbv	99
48) Dibromochloromethane	9.335	129	315399	10.838	ppbv	99

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_04.D
 Acq On : 22 Feb 2016 08:56 am
 Operator : CORTEX\ms
 Client ID : BK67666 LCS
 Lab ID : BK67666 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:24:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone(MBK)	9.209	43	188775	10.365	ppbv	99
50) 1,2-Dibromoethane(EDB)	9.462	107	269148	10.617	ppbv	98
51) Tetrachloroethene	9.687	166	227512	10.497	ppbv	99
53) 1,1,1,2-Tetrachloroethane	10.036	131	196681	10.298	ppbv	98
54) Chlorobenzene	10.051	112	322155	10.044	ppbv	99
55) Ethylbenzene	10.236	91	511262	10.150	ppbv	99
56) m, p-Xylene	10.332	91	798639	21.170	ppbv	100
57) Bromoform	10.399	173	323608	10.391	ppbv	99
58) Styrene	10.532	104	292921	10.846	ppbv	99
59) 1,1,2,2-Tetrachloroethane	10.584	83	341517	10.134	ppbv	99
60) o-Xylene	10.591	91	408476	10.027	ppbv	99
63) Isopropylbenzene	10.917	105	520107	10.040	ppbv	99
65) 4-Ethyltoluene	11.295	105	571611	10.165	ppbv	100
66) 1,3,5-Trimethylbenzene	11.339	105	470794	10.067	ppbv	100
67) 1,2,4-Trimethylbenzene	11.592	105	429117	9.971	ppbv	99
69) Benzyl chloride	11.681	91	460608	10.442	ppbv	99
70) 1,3-Dichlorobenzene	11.695	146	356829	9.803	ppbv	98
71) 1,4-Dichlorobenzene	11.740	146	354163	9.946	ppbv	99
72) sec-Butylbenzene	11.592	105	429117	7.499	ppbv#	87
73) 4-Isopropyltoluene	11.851	119	552440	9.739	ppbv	99
74) 1,2-Dichlorobenzene	11.962	146	350892	9.712	ppbv	99
75) n-Butylbenzene	12.125	91	508320	9.737	ppbv	100
76) 1,2,4-Trichlorobenzene	13.104	180	304676	10.157	ppbv	99
78) Hexachlorobutadiene	13.415	225	285431	9.583	ppbv	99
80] Dichlorodifluoromethan...	3.618	85	898136	10.336	ppbv	100
81] 1,2-Dichlorotetrafluor...	3.882	85	508397	10.026	ppbv	100
82] Vinyl Chloride(sim)	3.993	62	208387	10.028	ppbv	100
83] Bromomethane(sim)	4.373	94	188321	8.607	ppbv	100
84] Trichlorofluoromethane...	5.169	101	820992	10.412	ppbv	100
85] 1,2-Dichloroethane(sim)	7.437	62	237263	10.085	ppbv	100
86] 1,1,1-Trichloroethane(...	7.569	97	429899	10.262	ppbv#	100
87] Carbon Tetrachloride(sim)	7.861	117	342431	10.148	ppbv	99
88] 1,1-Dichloroethene(sim)	5.658	61	541991	10.335	ppbv	100
89] Carbon Disulfide(sim)	5.964	76	678037	10.152	ppbv	99
90] Trichlorotrifluoroetha...	5.920	101	599685	10.051	ppbv	100
91] Trans-1,2-Dichloroethe...	6.345	61	333753	9.737	ppbv	100
92] 1,1-Dichloroethane(sim)	6.468	63	480421	9.893	ppbv	100
93] Cis-1,2-Dichloroethene...	6.915	61	256108	9.537	ppbv	100
94] Chloroform(sim)	7.069	83	484399	10.134	ppbv	100
95] Benzene(sim)	7.786	78	348613	8.968	ppbv	99
97] 1,2-dichloropropane(sim)	8.164	63	116961	9.251	ppbv	97
98] Bromodichloromethane(sim)	10.587	83	411144	10.464	ppbv	100
99] Trichloroethene(sim)	8.270	130	153708	8.756	ppbv	98
100] 1,4-Dioxane(sim)	8.258	88	74496	8.743	ppbv	98
101] cis-1,3-Dichloropropen...	8.656	75	215975	11.696	ppbv	93
102] 1,1,2-Trichloroethane(...	8.986	97	170735	10.405	ppbv	100
103] Dibromochloromethane(sim)	9.335	129	315399	11.459	ppbv	100
104] 1,2-Dibromoethane(EDB)...	9.465	107	332933	11.091	ppbv	100
105] Tetrachloroethene(sim)	9.687	166	227512	10.559	ppbv	99
107] Bromoform(sim)	10.399	173	323608	10.296	ppbv	99
108] 1,1,1,2-Tetrachloroeth...	10.587	131	44222	8.354	ppbv	100
109] Chlorobenzene(sim)	10.051	112	322155	8.971	ppbv#	99
110] Ethylbenzene(sim)	10.239	91	565294	9.369	ppbv	100
111] m, p-Xylene(sim)	10.332	91	798639	18.188	ppbv	100
112] Styrene(sim)	10.535	104	319456	10.494	ppbv	100

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_04.D
 Acq On : 22 Feb 2016 08:56 am
 Operator : CORTEX\ms
 Client ID : BK67666 LCS
 Lab ID : BK67666 LCS
 ALS Vial : 1 Sample Multiplier: 1

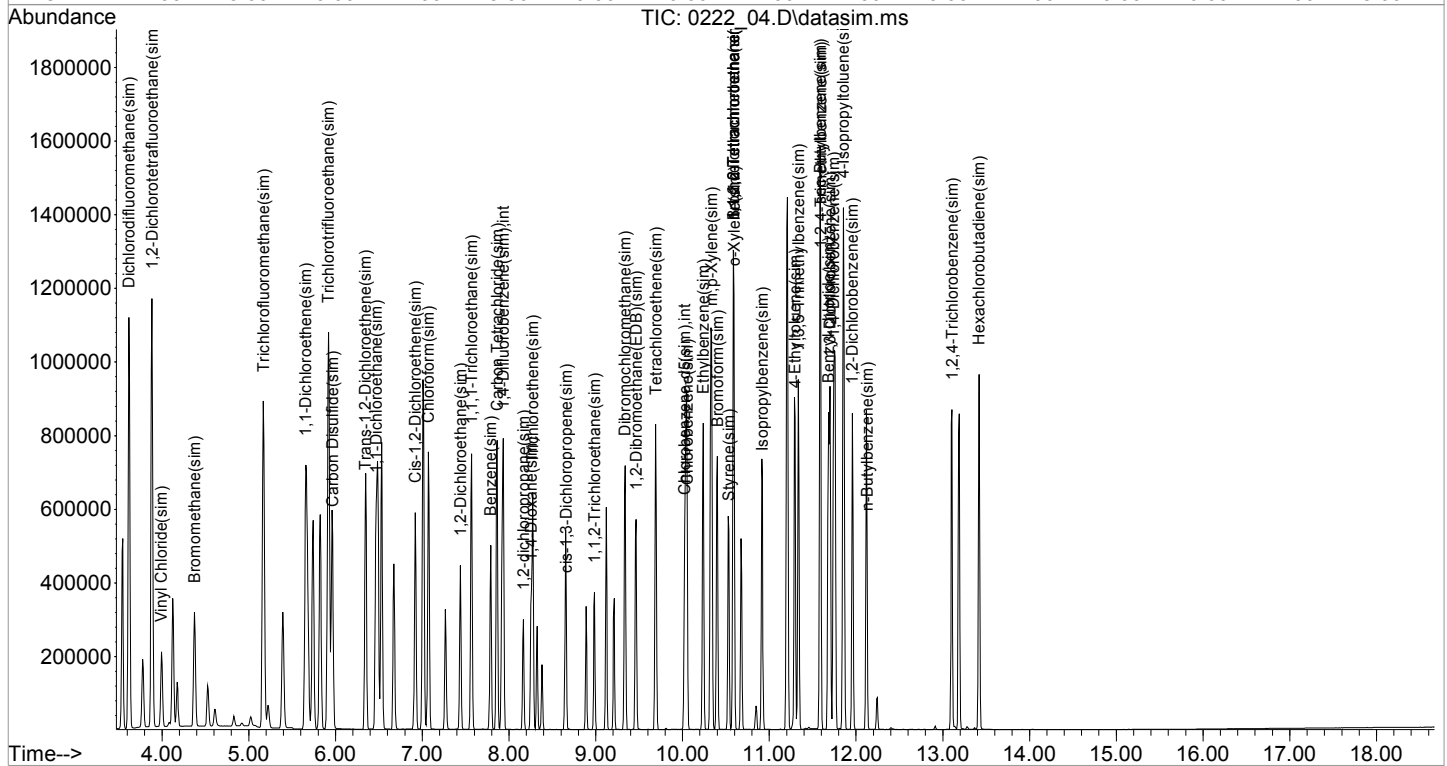
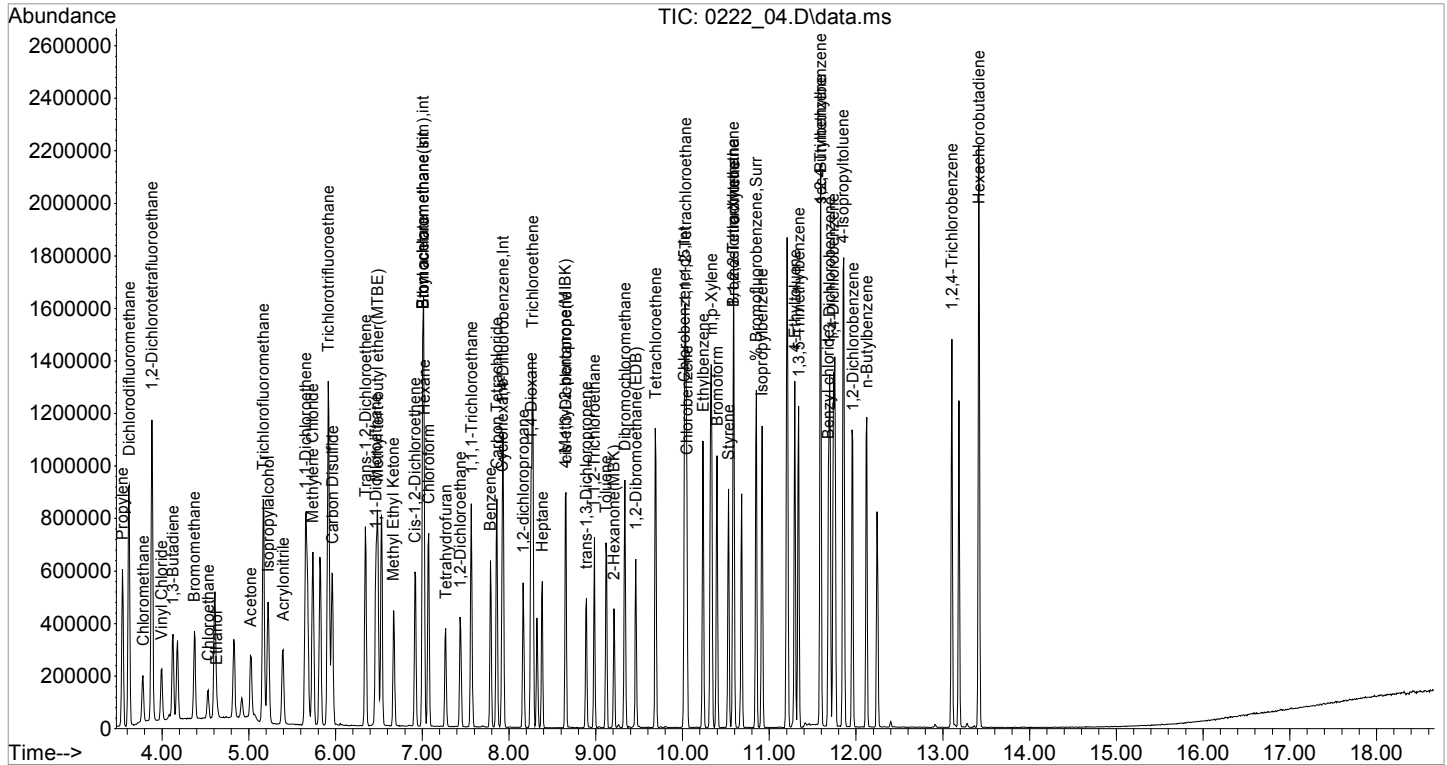
Quant Time: Feb 23 08:24:58 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113] 1,1,2,2-Tetrachloroeth...	10.584	83	341517	9.015	ppbv	99
114] o-Xylene(sim)	10.594	91	448587	9.126	ppbv	100
115] Isopropylbenzene(sim)	10.917	105	520107	8.964	ppbv	99
117] 4-Ethyltoluene(sim)	11.295	105	571611	9.047	ppbv	100
118] 1,3,5-Trimethylbenzene...	11.335	105	513443	9.359	ppbv	100
119] 1,2,4-Trimethylbenzene...	11.592	105	429117	8.956	ppbv	99
121] Benzyl chloride(sim)	11.683	91	506396m	13.203	ppbv	
122] 1,3-Dichlorobenzene(sim)	11.698	146	457395	8.600	ppbv	100
123] 1,4-Dichlorobenzene(sim)	11.740	146	354163	8.270	ppbv	99
124] sec-Butylbenzene(sim)	11.587	105	453880	6.363	ppbv	87
125] 4-Isopropyltoluene(sim)	11.851	119	552440	8.245	ppbv	99
126] 1,2-Dichlorobenzene(sim)	11.958	146	447811	8.532	ppbv	100
127] n-Butylbenzene(sim)	12.125	91	508320	8.620	ppbv	100
128] 1,2,4-Trichlorobenzene...	13.107	180	412448	10.223	ppbv	100
130] Hexachlorobutadiene(sim)	13.418	225	382847	8.309	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_04.D
Acq On : 22 Feb 2016 08:56 am
Operator : CORTEX\ms
Client ID : BK67666 LCS
Lab ID : BK67666 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:24:58 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK67666 BLANK
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>0222_06.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/22/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
74-87-3	Chloromethane	0.484	U	0.484	0.484	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.277	U	0.277	0.277	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
75-71-8	Dichlorodifluoromethane(sim)	0.202	U	0.202	0.202	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.257	U	0.257	0.257	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.256	U	0.256	0.256	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK67666 BLANK
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>0222_06.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/19/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/22/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
78-87-5	1,2-dichloropropane(sim)	0.216	U	0.216	0.216	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_06.D
Acq On : 22 Feb 2016 10:03 am
Operator : CORTEX\ms
Client ID : BK67666 BLANK
Lab ID : BK67666 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:51:26 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

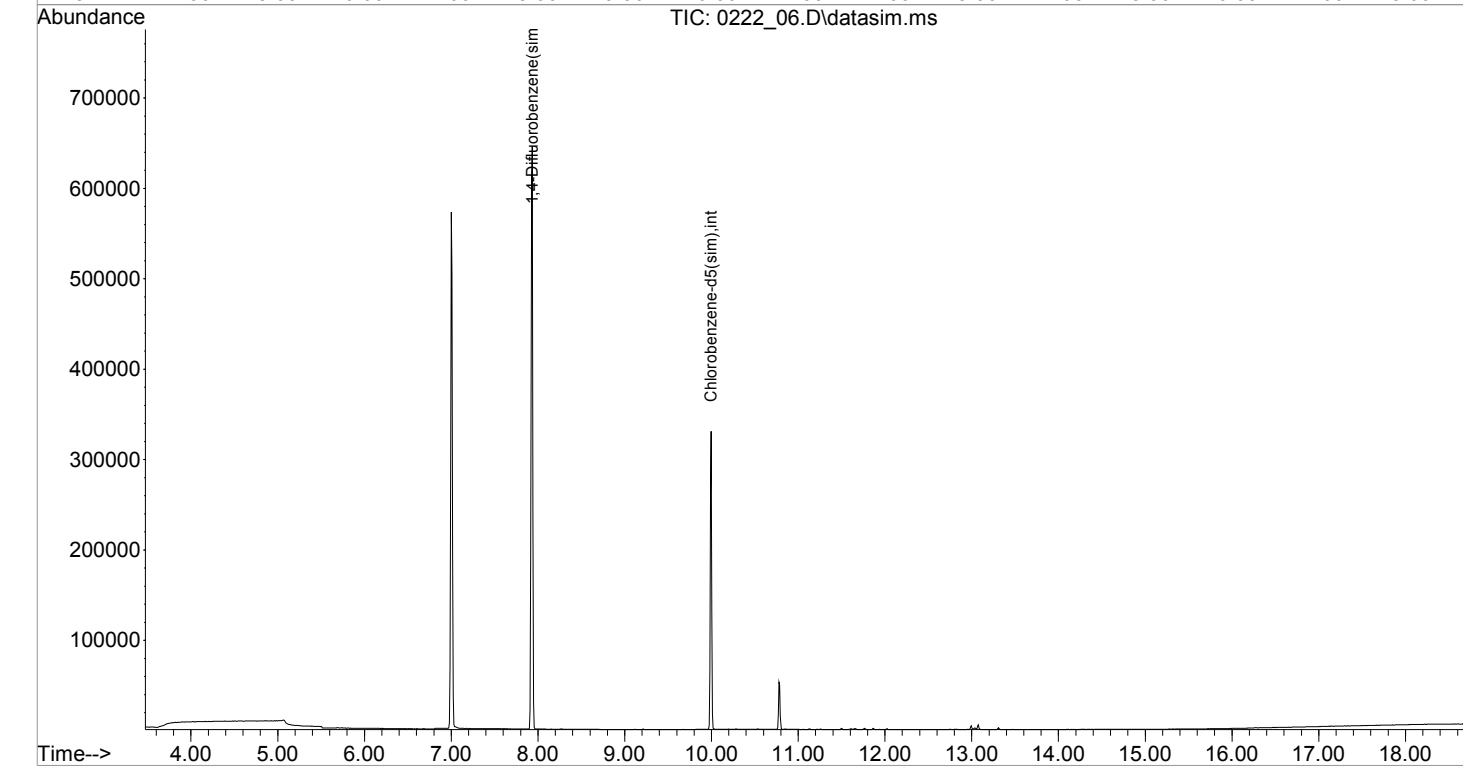
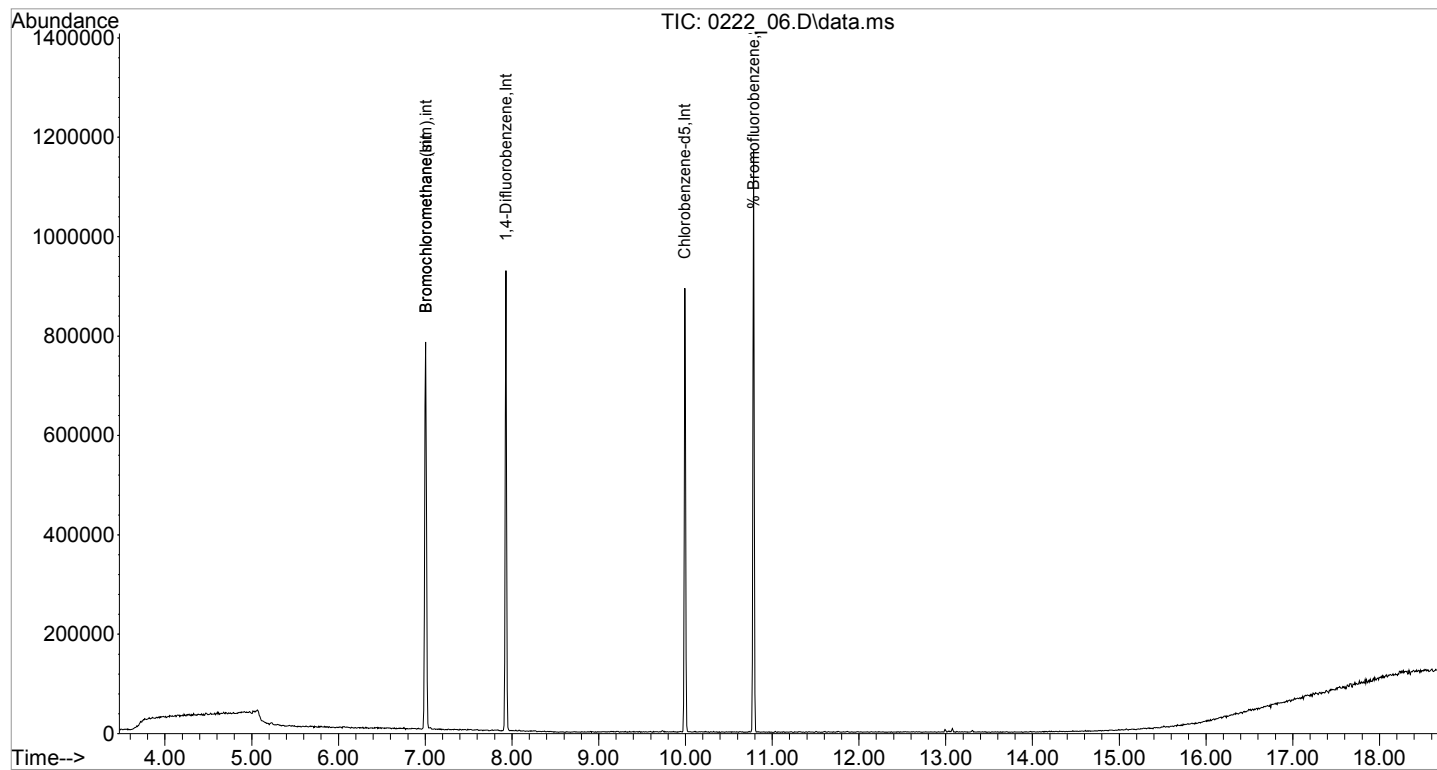
Internal Standards						
1) Bromochloromethane	7.006	130	169871	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.930	114	442834	10.000	ng	0.00
52) Chlorobenzene-d5	9.992	82	164091	10.000	ng	-0.03
79) Bromochloromethane(sim)	7.006	130	169871	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	529264	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	9.995	82	175367	10.000	ng	-0.03
System Monitoring Compounds						
61) % Bromofluorobenzene	10.784	95	234153	10.806	ppbv	-0.06
Spiked Amount	10.000	Range 70 - 130	Recovery	=	108.10%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_06.D
Acq On : 22 Feb 2016 10:03 am
Operator : CORTEX\ms
Client ID : BK67666 BLANK
Lab ID : BK67666 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 08:51:26 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666 DUP</u>
Canister:	<u>492</u>	Lab File ID:	<u>0222_15.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.520		0.202	0.202	r
74-87-3	Chloromethane	0.820		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	7.10	S	0.531	0.531	r
67-64-1	Acetone	11.0	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.400		0.178	0.178	r
67-63-0	Isopropylalcohol	0.550	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.380		0.339	0.339	r
110-54-3	Hexane	2.00	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	1.00		0.313	0.313	r
110-82-7	Cyclohexane	1.20		0.291	0.291	r
142-82-5	Heptane	1.50		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	5.00		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
100-41-4	Ethylbenzene	1.10		0.230	0.230	r
179601-23-1	m,p-Xylene	3.50		0.230	0.230	r
95-47-6	o-Xylene	1.70		0.230	0.230	r
622-96-8	4-Ethyltoluene	0.540		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.870		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.70		0.204	0.204	r
135-98-8	sec-Butylbenzene	2.00		0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.066		0.040	0.040	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK67666 DUP</u>
Canister:	<u>492</u>	Lab File ID:	<u>0222_15.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/19/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/22/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.060		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
99-87-6	4-Isopropyltoluene(sim)	0.200		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM20\02FEB\22\
 Data File : 0222_15.D
 Acq On : 22 Feb 2016 09:01 pm
 Operator : CORTEX\ms
 Client ID : AA-3 DUP
 Lab ID : BK67666 DUP
 ALS Vial : 1 Sample Multiplier: 1

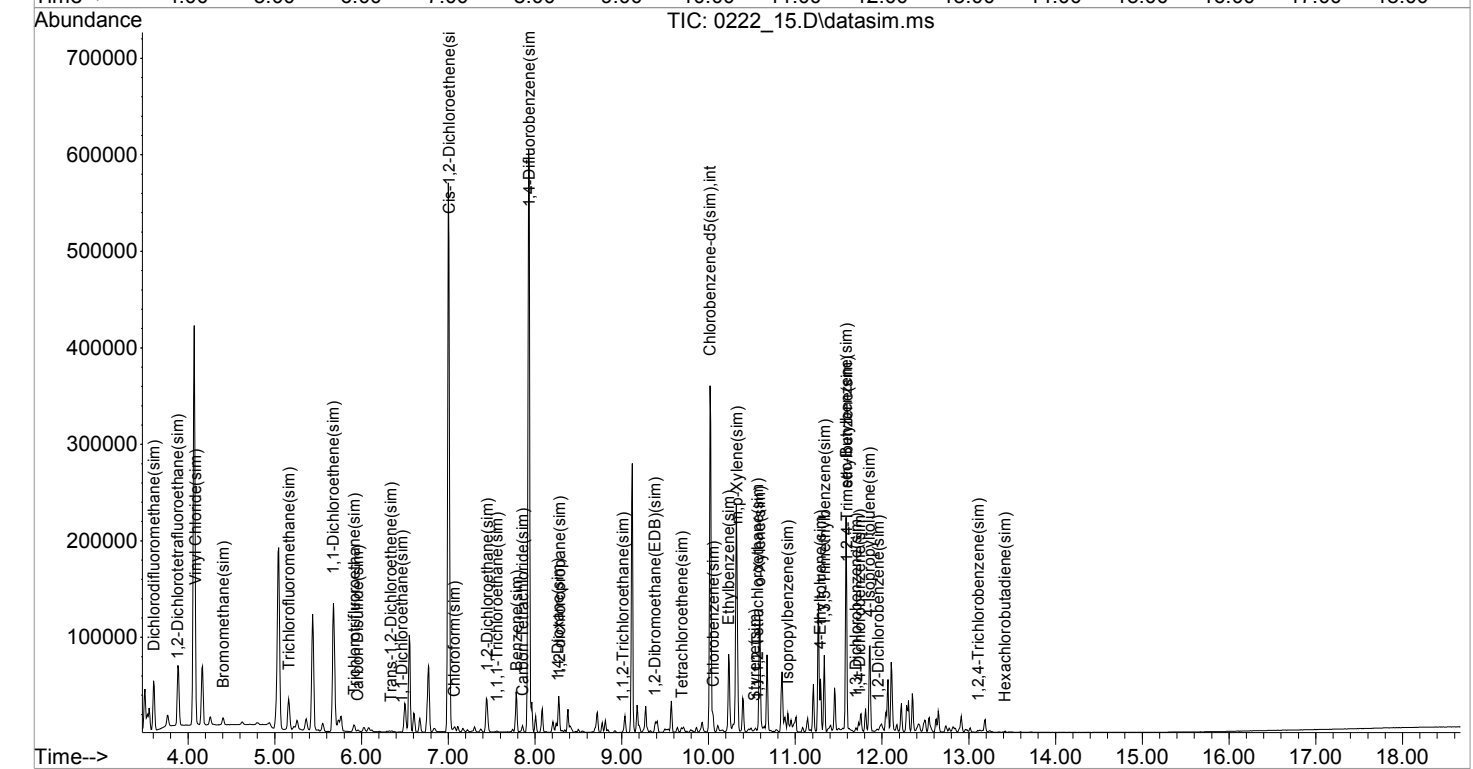
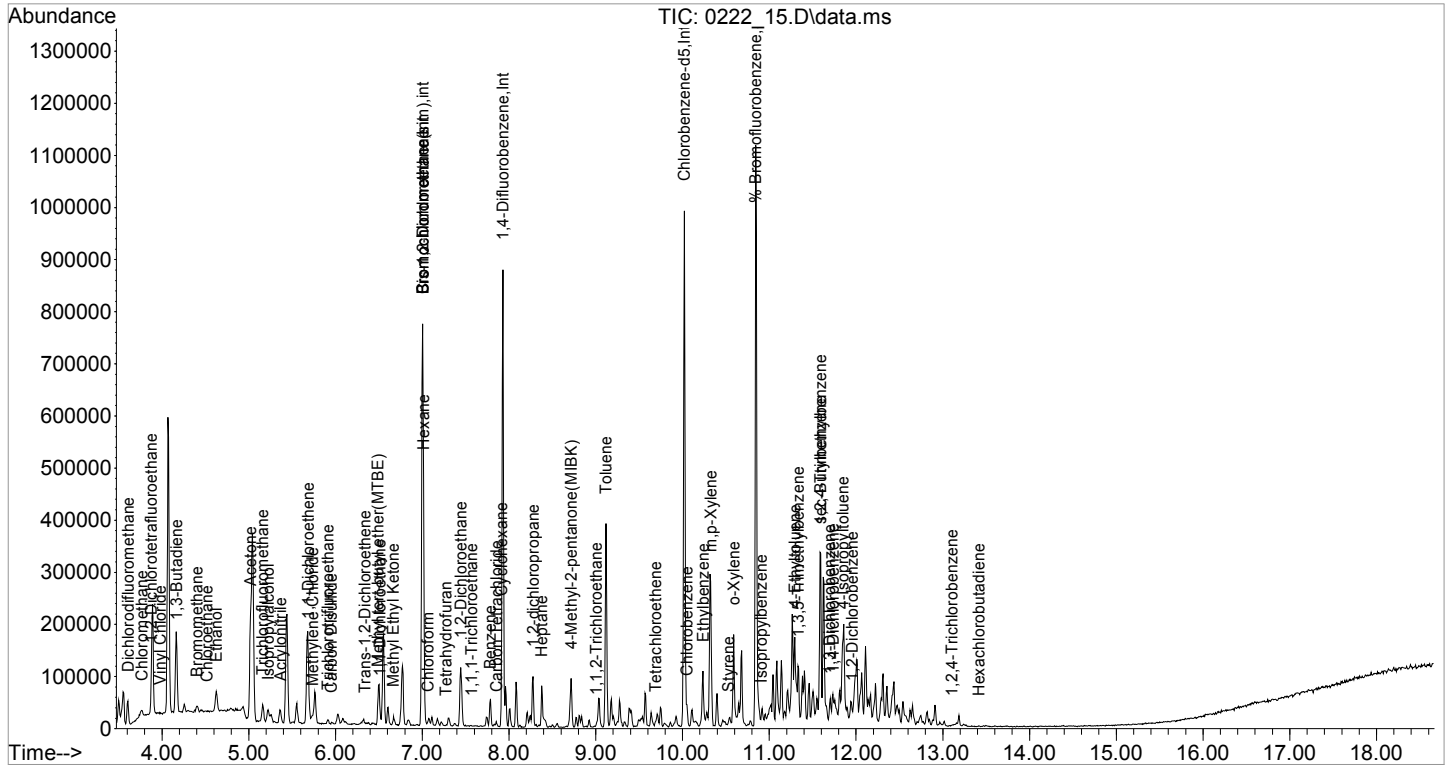
Quant Time: Feb 23 08:19:00 2016
 Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 22 10:20:07 2016
 Response via : Initial Calibration

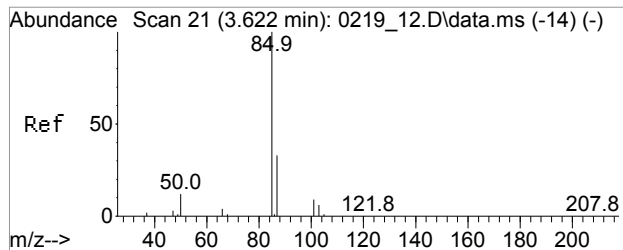
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.006	130	153393	10.000	ng	0.00
35) 1,4-Difluorobenzene	7.929	114	409762	10.000	ng	0.00
52) Chlorobenzene-d5	10.021	82	194509	10.000	ng	0.00
79) Bromochloromethane(sim)	7.006	130	153393	10.000	ng	0.00
96) 1,4-Difluorobenzene(sim)	7.932	114	486648	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.017	82	207010	10.000	ng	0.00
System Monitoring Compounds						
61) % Bromofluorobenzene	10.843	95	248618	9.679	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.80%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.608	85	33695	0.516	ppbv	98
4) Chloromethane	3.767	52	4350	0.821	ppbv#	63
10) Ethanol	4.625	45	34611	7.120	ppbv	99
11) Acetone	5.021	43	300345	10.999	ppbv#	79
12) Trichlorofluoromethane	5.158	101	22834	0.396	ppbv	99
13) Isopropylalcohol	5.223	45	27492	0.551	ppbv#	90
24) Methyl Ethyl Ketone	6.668	43	14089	0.377	ppbv#	92
26) Hexane	7.013	57	38365	1.955	ppbv	86
32) Benzene	7.785	78	34177	1.045	ppbv	97
33) Carbon Tetrachloride	7.854	117	2087	0.068	ppbv	91
34) Cyclohexane	7.914	41	10256	1.204	ppbv#	48
42) Heptane	8.376	43	19702	1.481	ppbv	96
47) Toluene	9.117	91	154716	5.020	ppbv	99
51) Tetrachloroethene	9.687	166	1228	0.059	ppbv	90
55) Ethylbenzene	10.236	91	50082	1.052	ppbv	99
56) m, p-Xylene	10.325	91	124012	3.478	ppbv	99
60) o-Xylene	10.591	91	64781	1.682	ppbv	99
63) Isopropylbenzene	10.910	105	10222	0.209	ppbv#	92
65) 4-Ethyltoluene	11.295	105	28484m	0.536	ppbv	
66) 1,3,5-Trimethylbenzene	11.332	105	38333	0.867	ppbv	98
67) 1,2,4-Trimethylbenzene	11.592	105	110230	2.710	ppbv#	85
72) sec-Butylbenzene	11.592	105	110230	2.038	ppbv#	78
73) 4-Isopropyltoluene	11.851	119	12350m	0.230	ppbv	
80] Dichlorodifluoromethan...	3.604	85	42171	0.521	ppbv	100
84] Trichlorofluoromethane...	5.161	101	29147	0.396	ppbv	99
87] Carbon Tetrachloride(sim)	7.854	117	2087	0.066	ppbv#	91
95] Benzene(sim)	7.785	78	34177	0.943	ppbv#	97
105] Tetrachloroethene(sim)	9.687	166	1228	0.060	ppbv	90
110] Ethylbenzene(sim)	10.231	91	55641	1.000	ppbv	98
111] m, p-Xylene(sim)	10.325	91	124010	3.063	ppbv	99
114] o-Xylene(sim)	10.587	91	72059	1.590	ppbv	98
117] 4-Ethyltoluene(sim)	11.290	105	26145m	0.449	ppbv	
118] 1,3,5-Trimethylbenzene...	11.335	105	41420	0.819	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.592	105	110230	2.495	ppbv#	85
124] sec-Butylbenzene(sim)	11.587	105	118099	1.796	ppbv	80
125] 4-Isopropyltoluene(sim)	11.851	119	12350	0.200	ppbv#	62

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM20\02FEB\22\
Data File : 0222_15.D
Acq On : 22 Feb 2016 09:01 pm
Operator : CORTEX\jms
Client ID : AA-3 DUP
Lab ID : BK67666 DUP
ALS Vial : 1 Sample Multiplier: 1

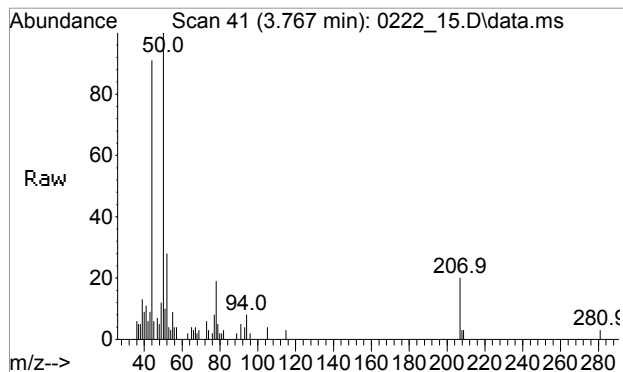
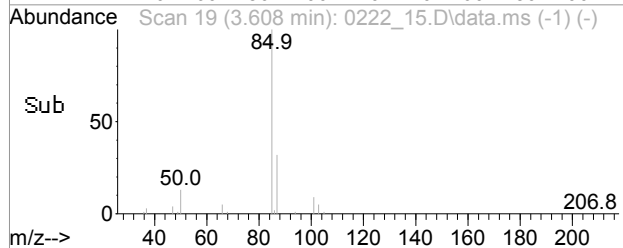
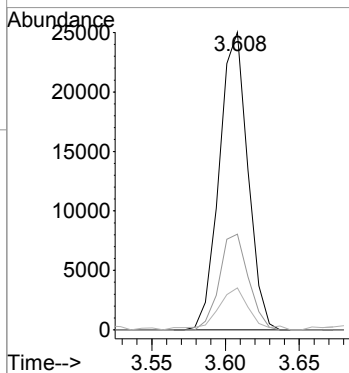
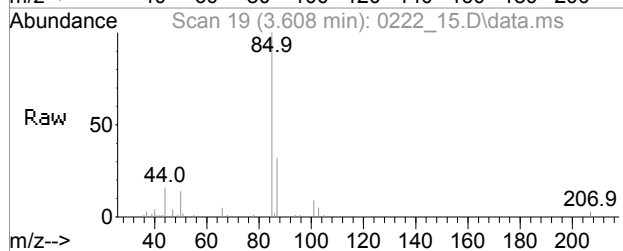
Quant Time: Feb 23 08:19:00 2016
Quant Method : H:\AIR2016\CHEM20\METHODS\CTMANYNJ_0219.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Feb 22 10:20:07 2016
Response via : Initial Calibration





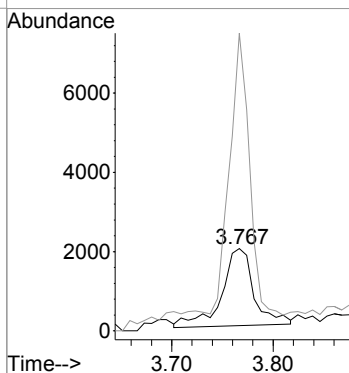
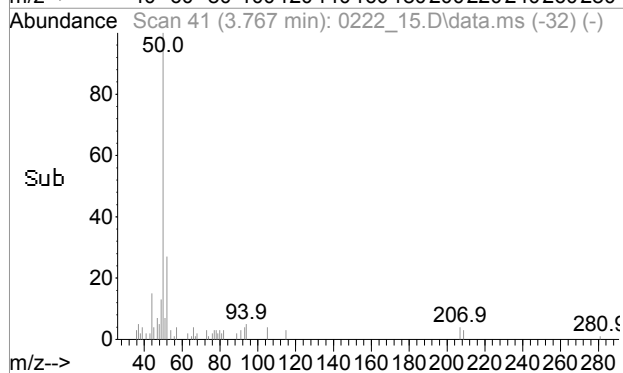
#3
Dichlorodifluoromethane
Concen: 0.52 ppbv
RT: 3.608 min Scan# 19
Delta R.T. -0.022 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

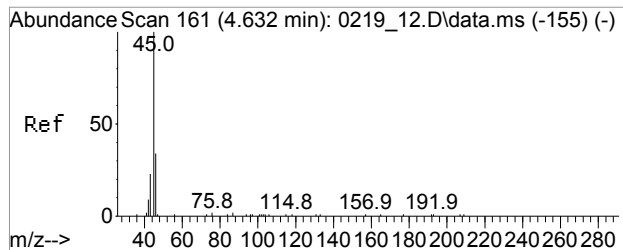
Tgt Ion: 85 Resp: 33695
Ion Ratio Lower Upper
85 100
87 32.8 26.1 39.1
50 15.5 10.5 15.7



#4
Chloromethane
Concen: 0.82 ppbv
RT: 3.767 min Scan# 41
Delta R.T. -0.021 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

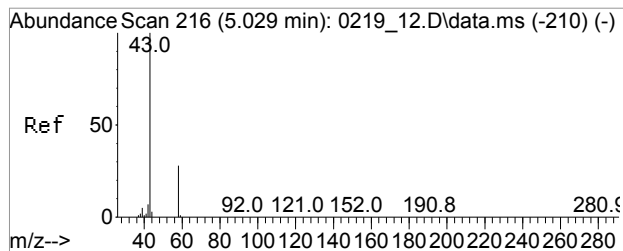
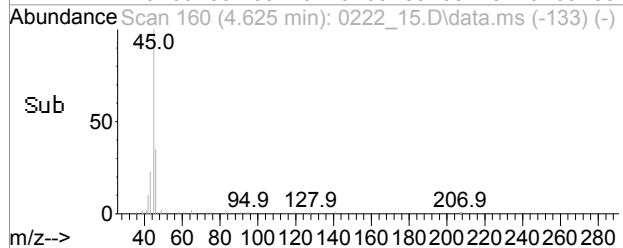
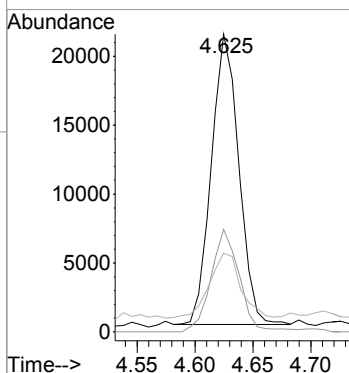
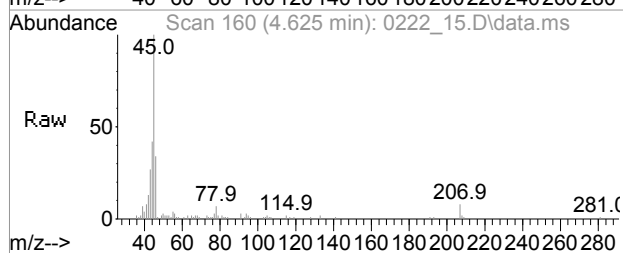
Tgt Ion: 52 Resp: 4350
Ion Ratio Lower Upper
52 100
50 230.7 284.4 324.4#





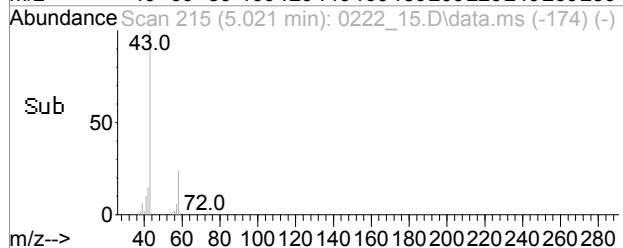
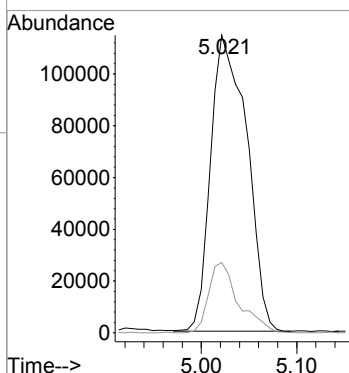
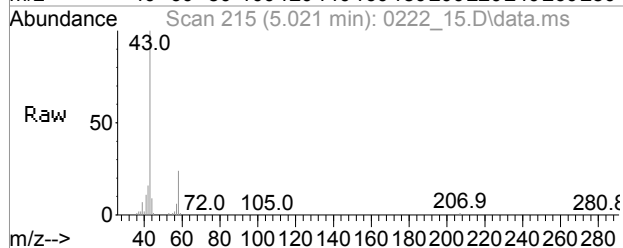
#10
Ethanol
Concen: 7.12 ppbv
RT: 4.625 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

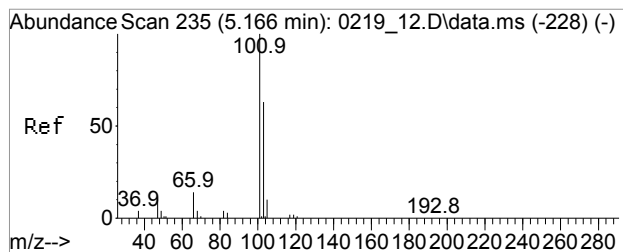
Tgt Ion: 45 Resp: 34611
Ion Ratio Lower Upper
45 100
46 36.4 28.5 42.7
43 25.2 19.7 29.5



#11
Acetone
Concen: 11.00 ppbv
RT: 5.021 min Scan# 215
Delta R.T. -0.008 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

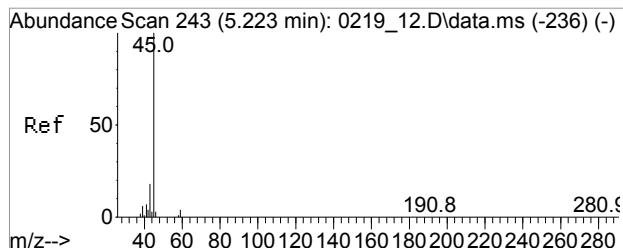
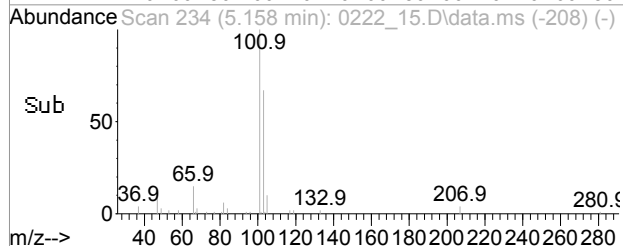
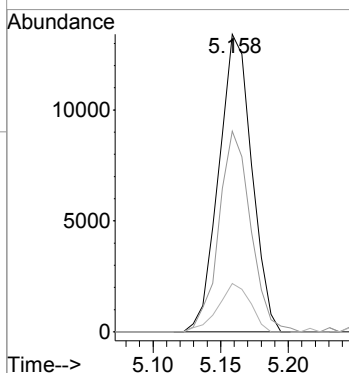
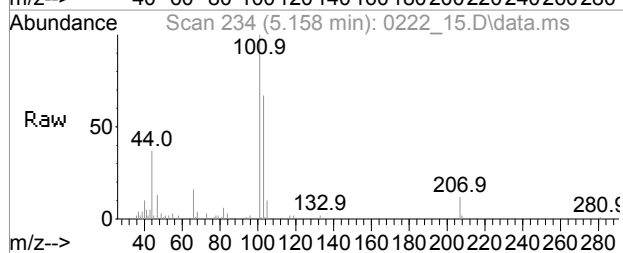
Tgt Ion: 43 Resp: 300345
Ion Ratio Lower Upper
43 100
58 19.7 24.8 37.2#





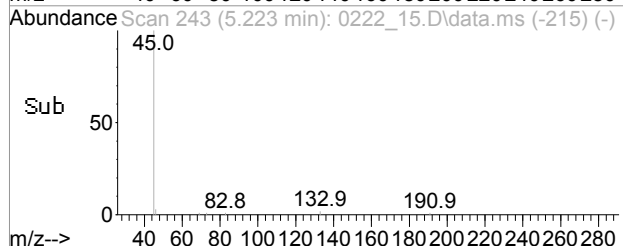
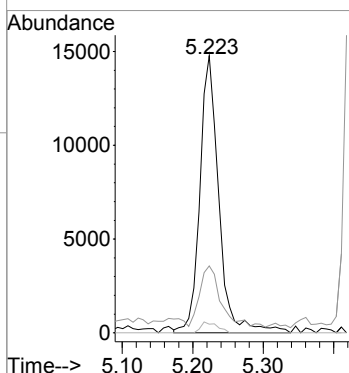
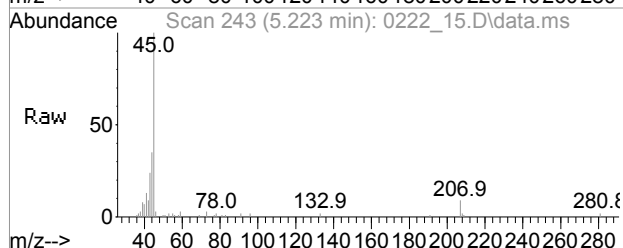
#12
Trichlorofluoromethane
Concen: 0.40 ppbv
RT: 5.158 min Scan# 234
Delta R.T. -0.015 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

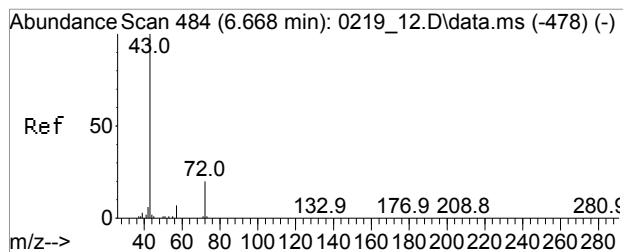
Tgt Ion: 101 Resp: 22834
Ion Ratio Lower Upper
101 100
103 65.0 51.8 77.8
66 15.9 11.1 16.7



#13
Isopropylalcohol
Concen: 0.55 ppbv
RT: 5.223 min Scan# 243
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

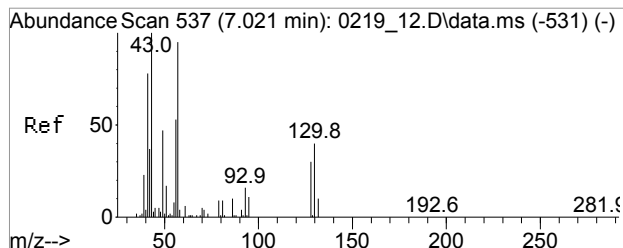
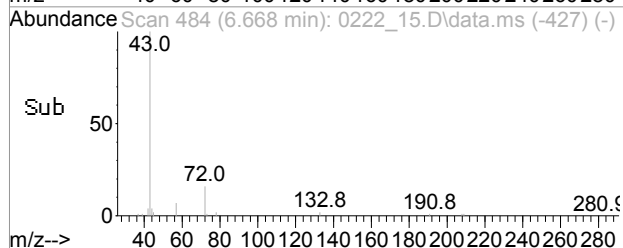
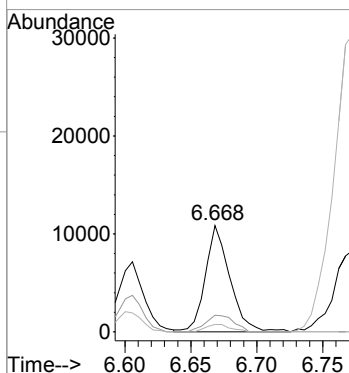
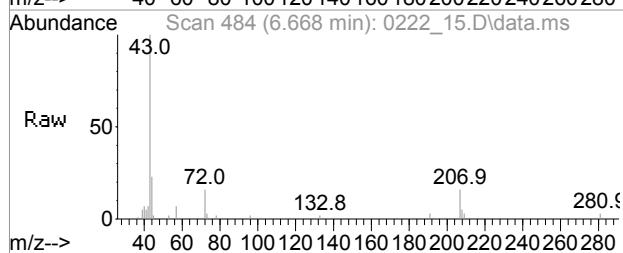
Tgt Ion: 45 Resp: 27492
Ion Ratio Lower Upper
45 100
43 24.5 15.4 23.0#
59 3.4 3.0 4.4





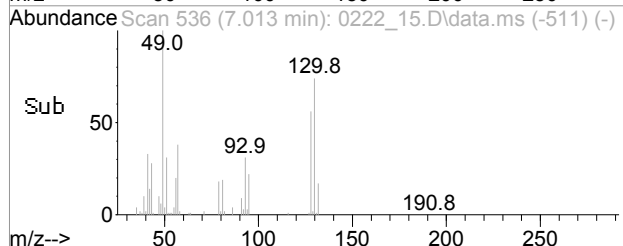
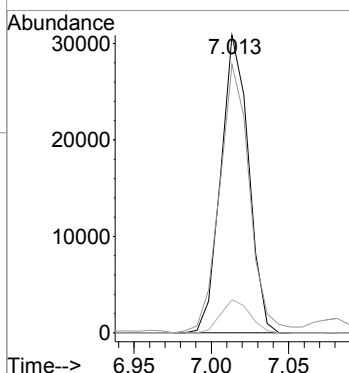
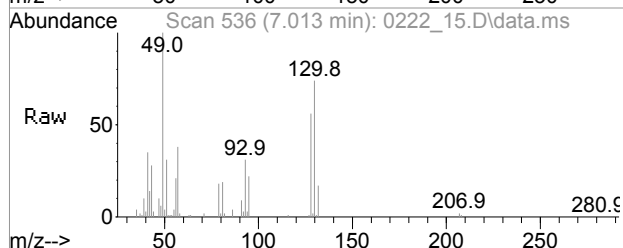
#24
Methyl Ethyl Ketone
Concen: 0.38 ppbv
RT: 6.668 min Scan# 484
Delta R.T. -0.005 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

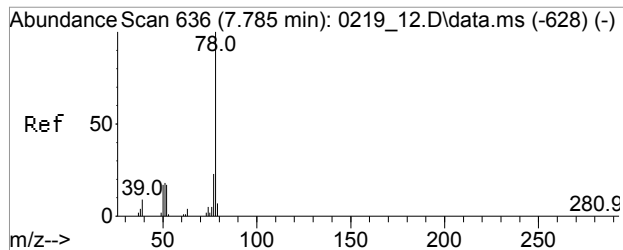
Tgt Ion: 43 Resp: 14089
Ion Ratio Lower Upper
43 100
72 18.1 15.9 23.9
57 0.0 5.6 8.4#



#26
Hexane
Concen: 1.96 ppbv
RT: 7.013 min Scan# 536
Delta R.T. -0.008 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

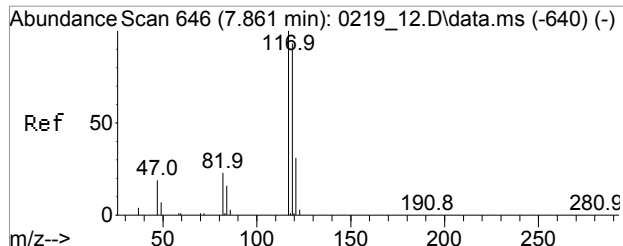
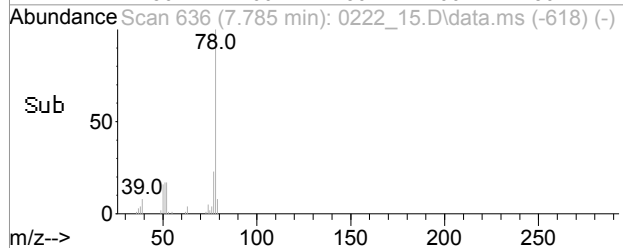
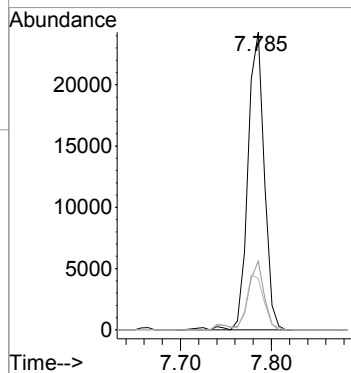
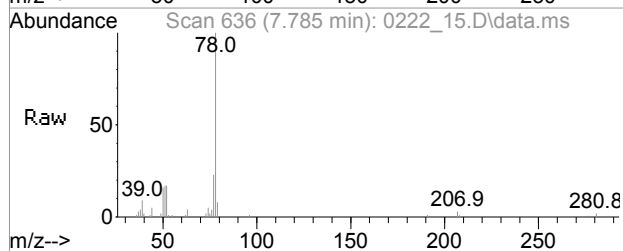
Tgt Ion: 57 Resp: 38365
Ion Ratio Lower Upper
57 100
41 98.4 67.4 101.2
86 11.7 9.3 13.9





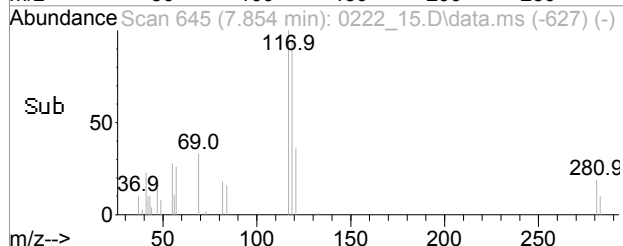
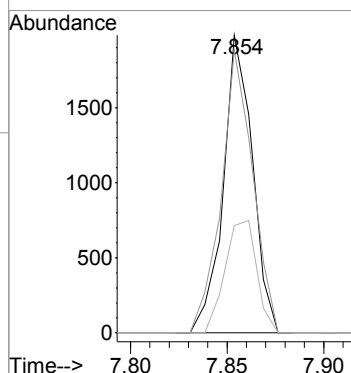
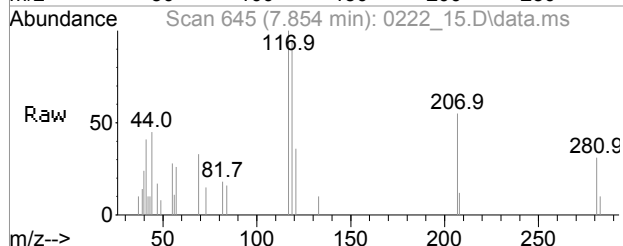
#32
Benzene
Concen: 1.04 ppbv
RT: 7.785 min Scan# 636
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

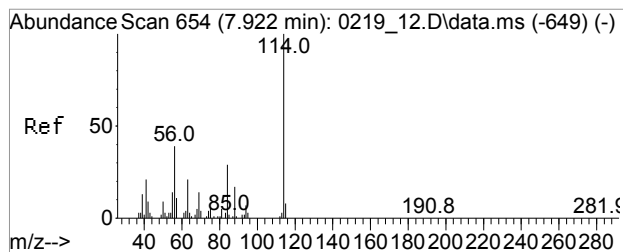
Tgt Ion: 78 Resp: 34177
Ion Ratio Lower Upper
78 100
77 20.5 18.6 27.8
51 18.6 14.9 22.3



#33
Carbon Tetrachloride
Concen: Below Cal
RT: 7.854 min Scan# 645
Delta R.T. -0.007 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

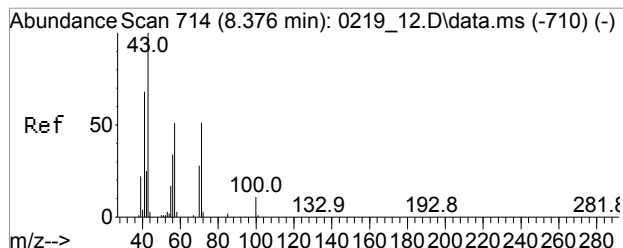
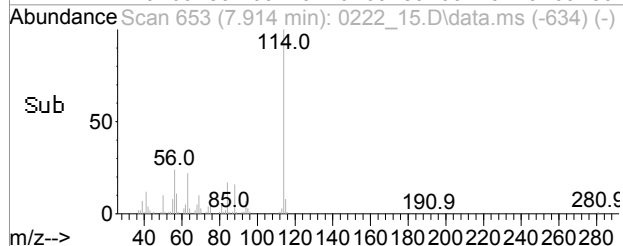
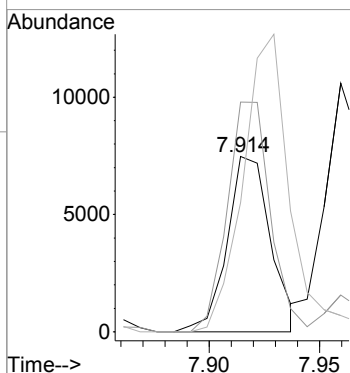
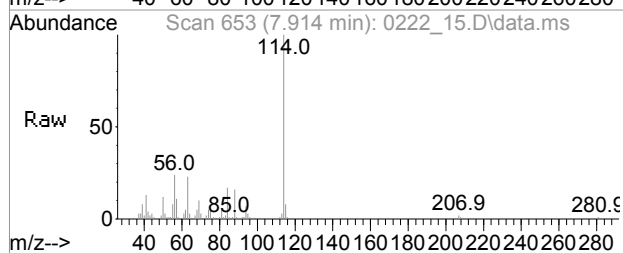
Tgt Ion: 117 Resp: 2087
Ion Ratio Lower Upper
117 100
119 102.2 75.9 115.9
121 41.0 10.8 50.8





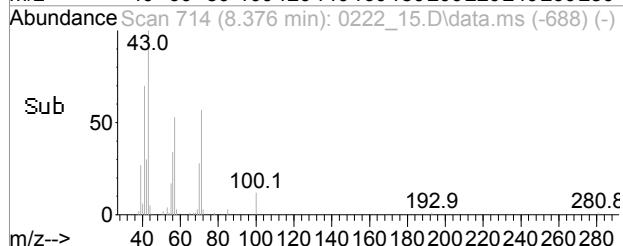
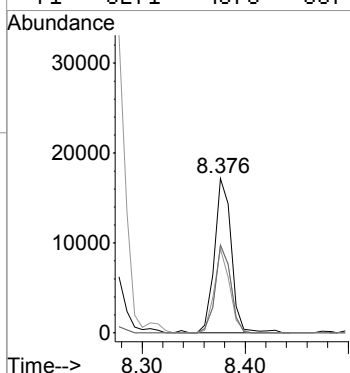
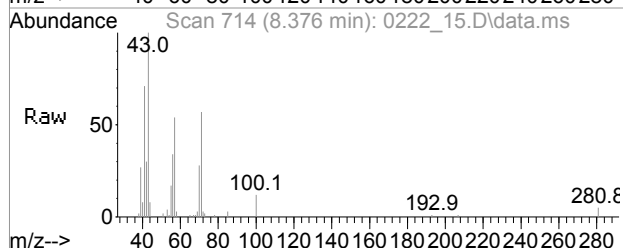
#34
Cyclohexane
Concen: 1.20 ppbv
RT: 7.914 min Scan# 653
Delta R.T. -0.008 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

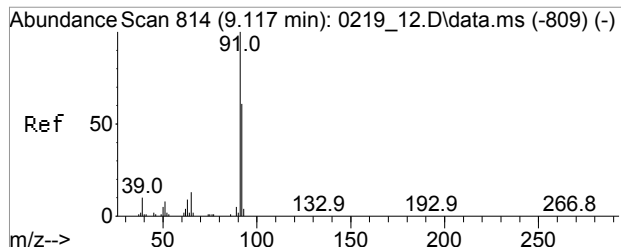
Tgt Ion: 41 Resp: 10256
Ion Ratio Lower Upper
41 100
84 129.9 111.0 166.6
69 182.7 52.8 79.2#



#42
Heptane
Concen: 1.48 ppbv
RT: 8.376 min Scan# 714
Delta R.T. -0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

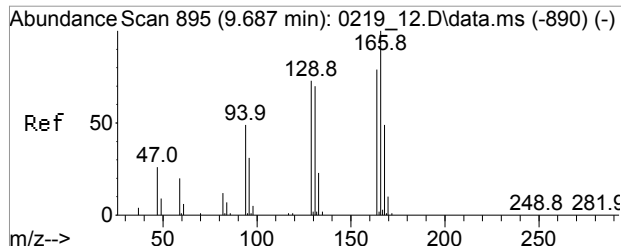
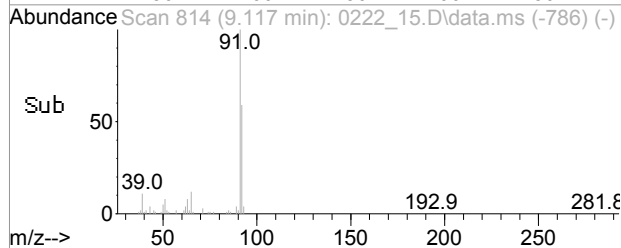
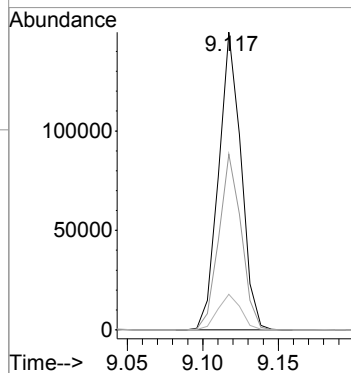
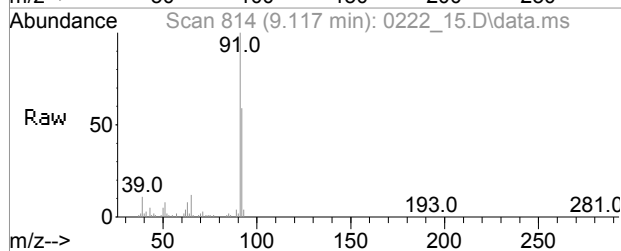
Tgt Ion: 43 Resp: 19702
Ion Ratio Lower Upper
43 100
57 49.5 43.0 64.4
71 52.1 43.6 65.4
71 52.1 43.6 65.4





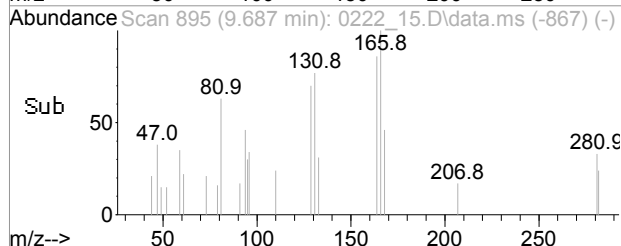
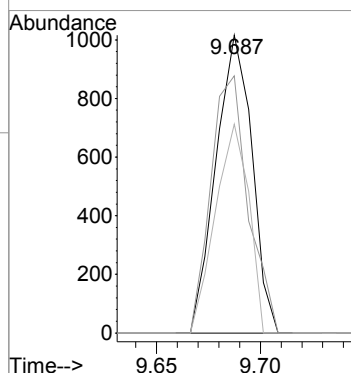
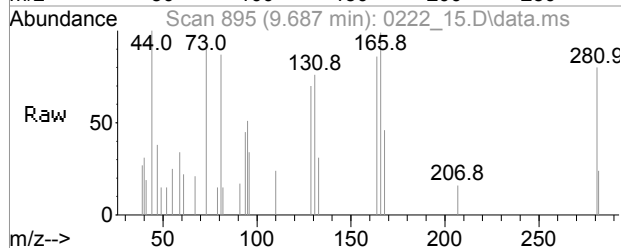
#47
Toluene
Concen: 5.02 ppbv
RT: 9.117 min Scan# 814
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

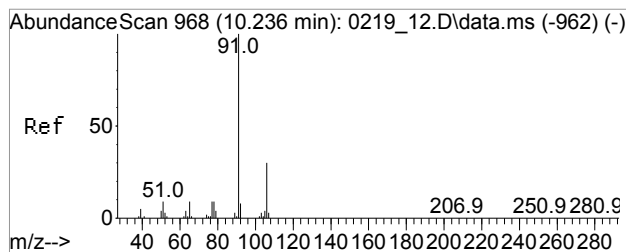
Tgt Ion: 91 Resp: 154716
Ion Ratio Lower Upper
91 100
92 59.1 47.7 71.5
65 12.3 9.5 14.3



#51
Tetrachloroethene
Concen: Below Cal
RT: 9.687 min Scan# 895
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

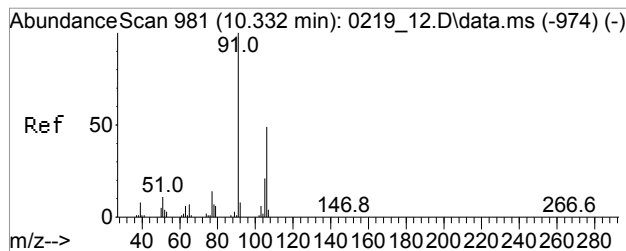
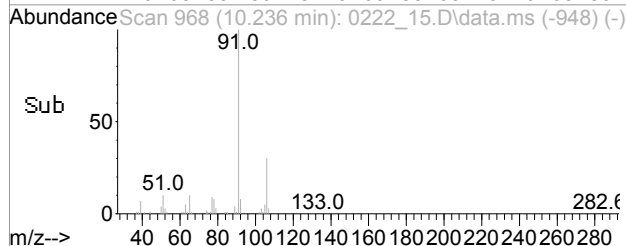
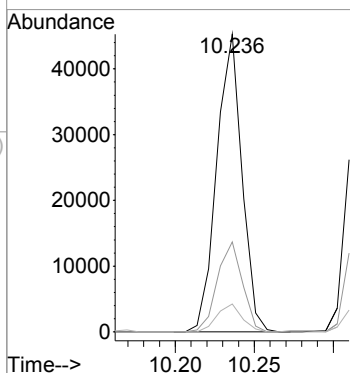
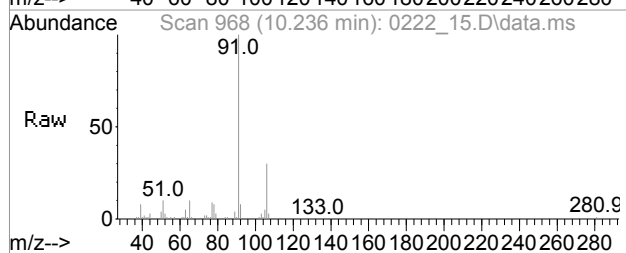
Tgt Ion: 166 Resp: 1228
Ion Ratio Lower Upper
166 100
164 89.6 62.2 93.4
129 65.2 56.6 84.8





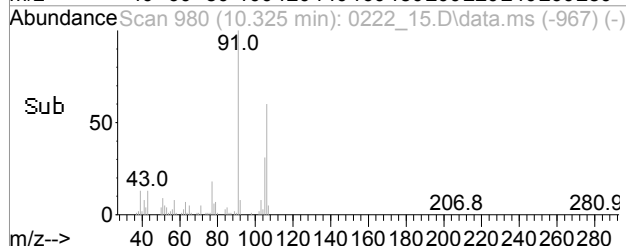
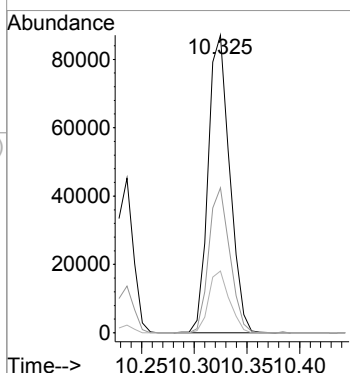
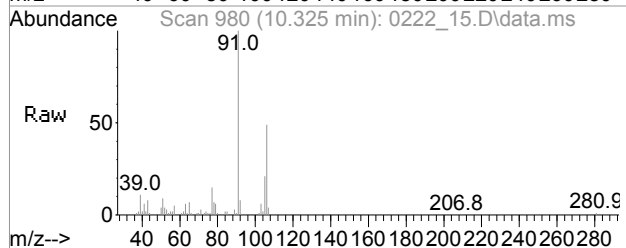
#55
Ethylbenzene
Concen: 1.05 ppbv
RT: 10.236 min Scan# 968
Delta R.T. -0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

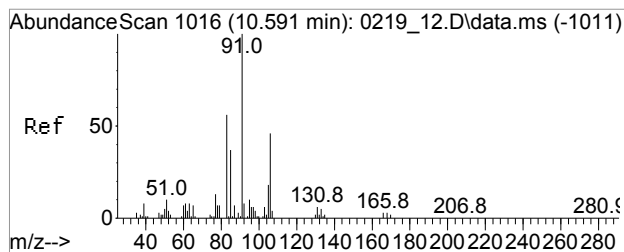
Tgt Ion: 91 Resp: 50082
Ion Ratio Lower Upper
91 100
106 30.1 10.8 50.8
77 9.3 0.0 28.9



#56
m,p-Xylene
Concen: 3.48 ppbv
RT: 10.325 min Scan# 980
Delta R.T. -0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

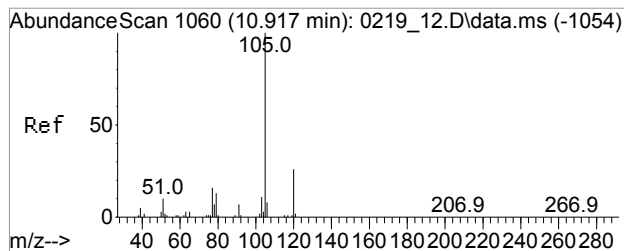
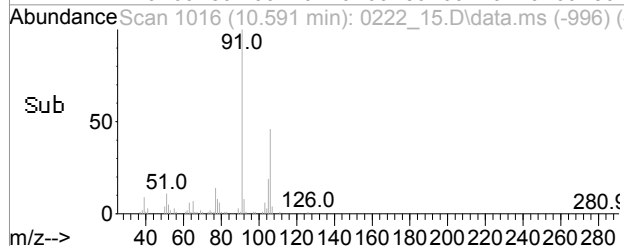
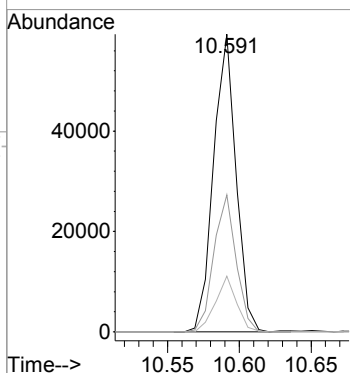
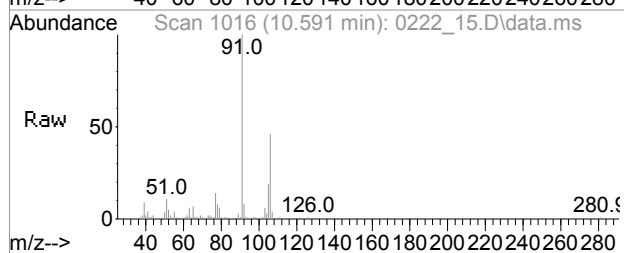
Tgt Ion: 91 Resp: 124012
Ion Ratio Lower Upper
91 100
106 47.5 38.7 58.1
105 20.1 16.6 25.0





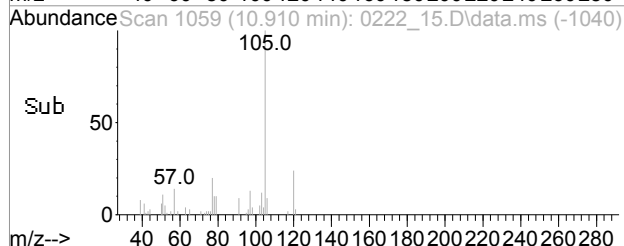
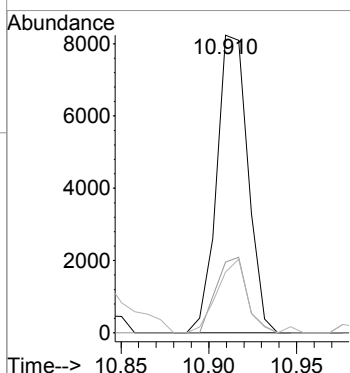
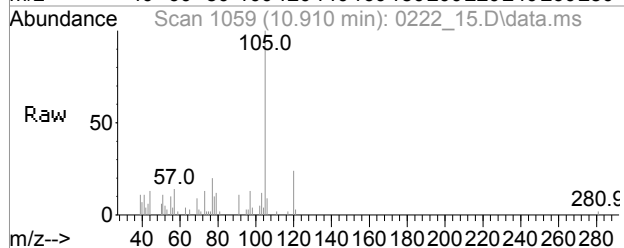
#60
o-Xylene
Concen: 1.68 ppbv
RT: 10.591 min Scan# 1016
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

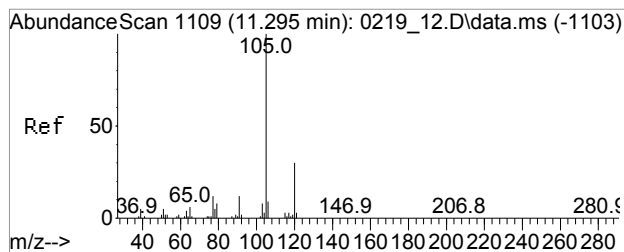
Tgt Ion: 91 Resp: 64781
Ion Ratio Lower Upper
91 100
106 45.6 37.4 56.2
105 17.6 14.1 21.1



#63
Isopropylbenzene
Concen: 0.21 ppbv
RT: 10.910 min Scan# 1059
Delta R.T. -0.007 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

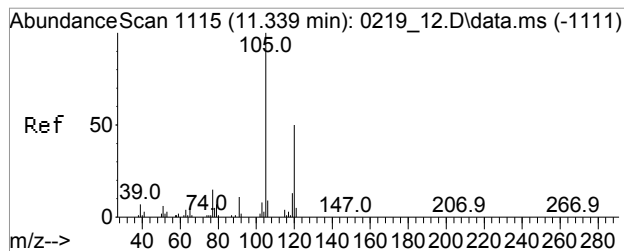
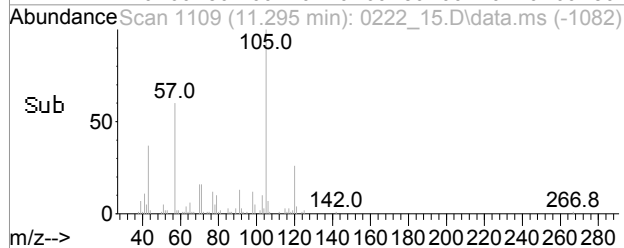
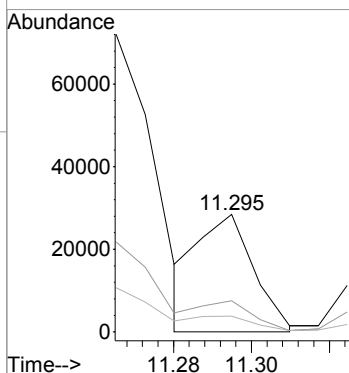
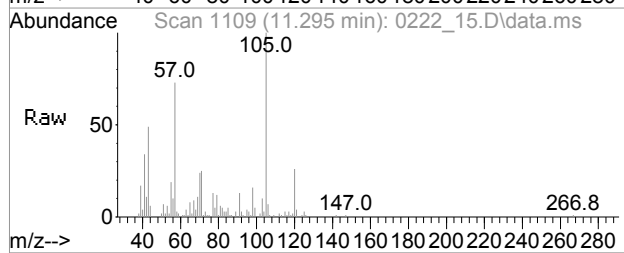
Tgt Ion: 105 Resp: 10222
Ion Ratio Lower Upper
105 100
120 25.0 19.4 29.2
77 24.5 13.2 19.8#





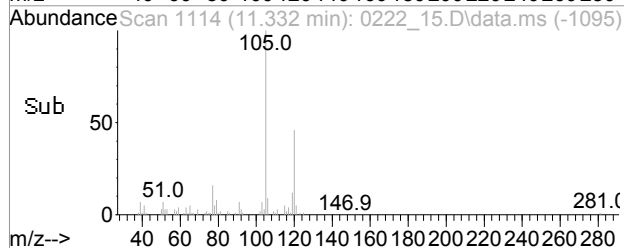
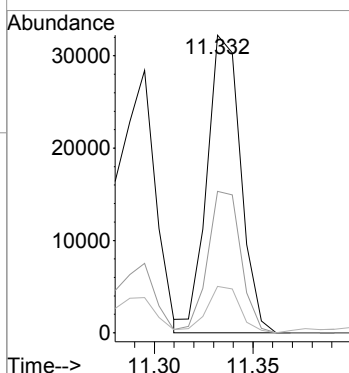
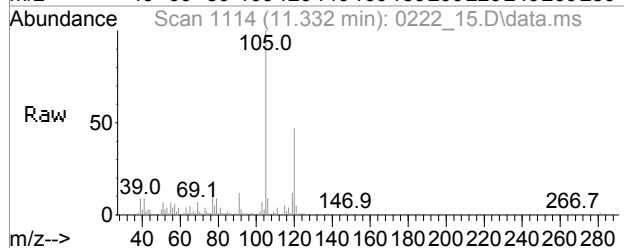
#65
4-Ethyltoluene
Concen: 0.54 ppbv m
RT: 11.295 min Scan# 1109
Delta R.T. -0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

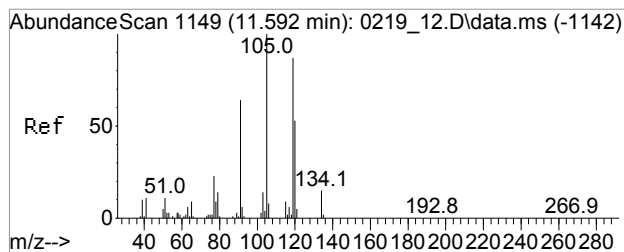
Tgt Ion:105 Resp: 28484
Ion Ratio Lower Upper
105 100
120 107.2 23.3 34.9#
77 51.7 10.0 15.0#



#66
1,3,5-Trimethylbenzene
Concen: 0.87 ppbv
RT: 11.332 min Scan# 1114
Delta R.T. -0.007 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

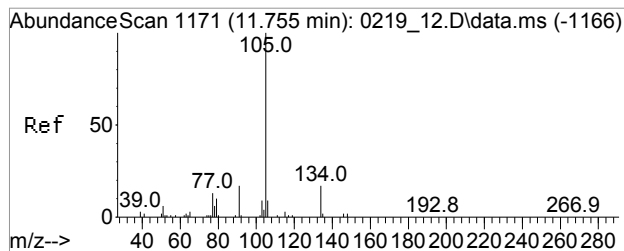
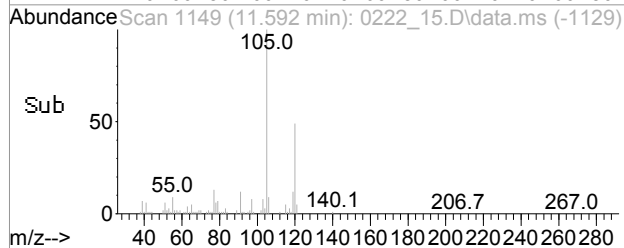
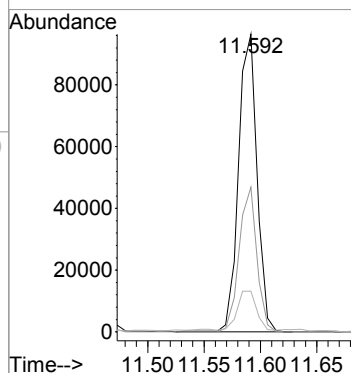
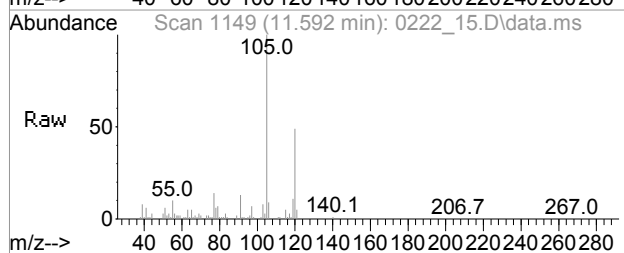
Tgt Ion:105 Resp: 38333
Ion Ratio Lower Upper
105 100
120 47.1 38.6 57.8
77 15.6 11.3 16.9





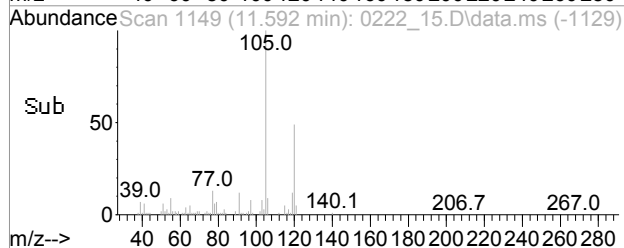
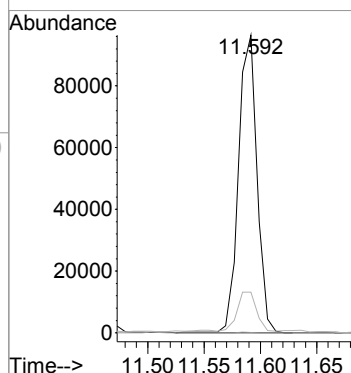
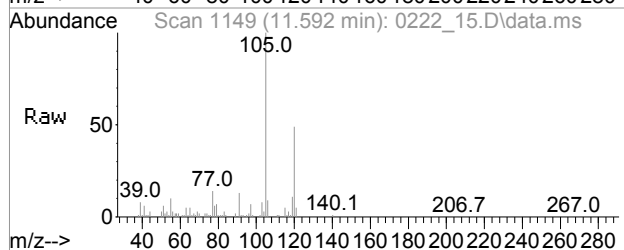
#67
1,2,4-Trimethylbenzene
Concen: 2.71 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

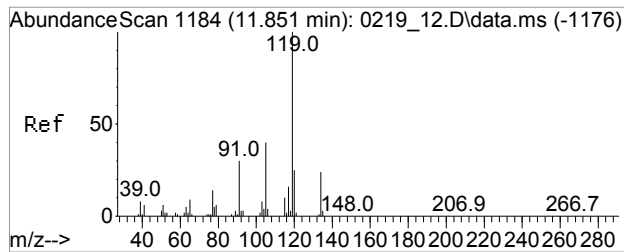
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	43.5	65.3
77	13.7	20.2	30.4#



#72
sec-Butylbenzene
Concen: 2.04 ppbv
RT: 11.592 min Scan# 1149
Delta R.T. 0.001 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

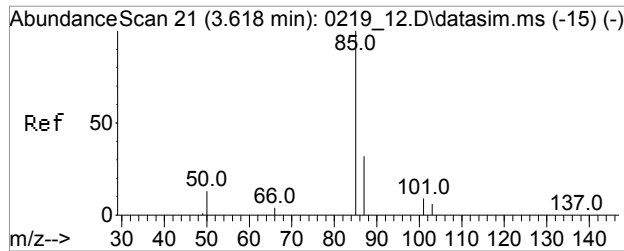
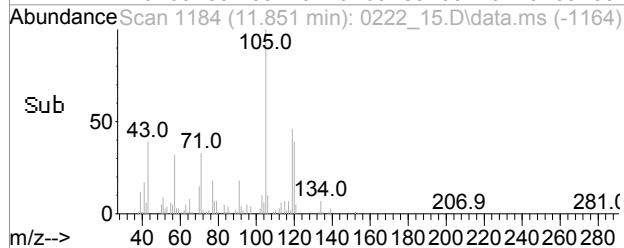
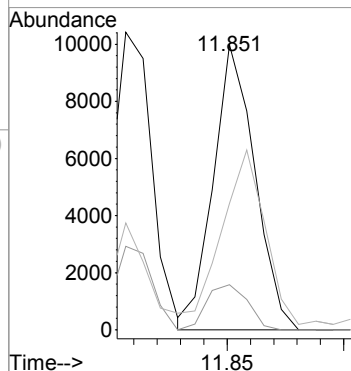
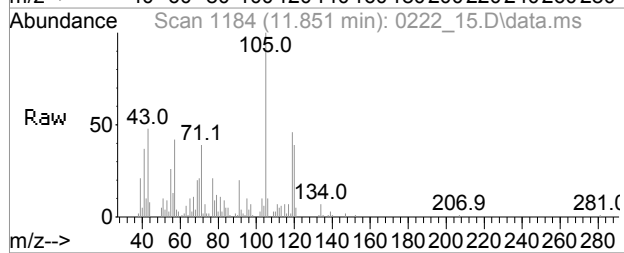
Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.1	13.7	20.5#
77	13.7	11.0	16.4





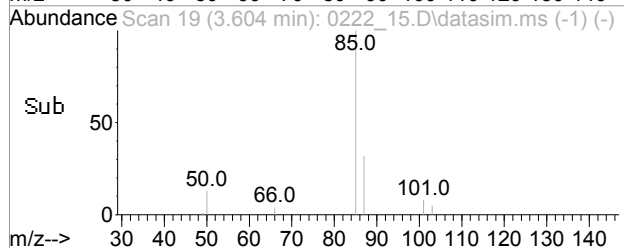
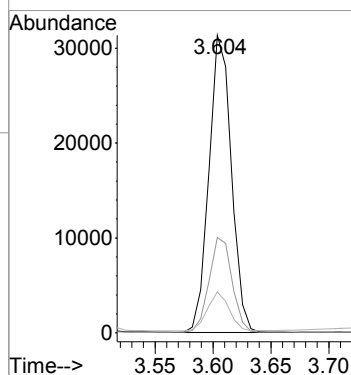
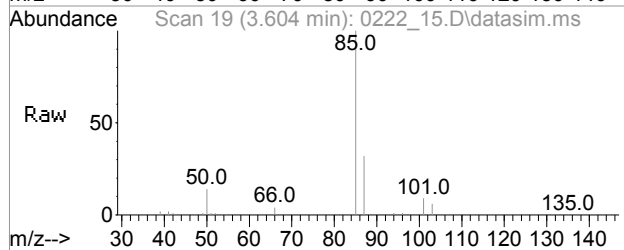
#73
4-Isopropyltoluene
Concen: 0.23 ppbv m
RT: 11.851 min Scan# 1184
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

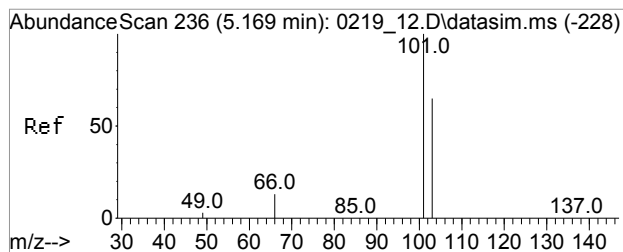
Tgt Ion: 119 Resp: 12350
Ion Ratio Lower Upper
119 100
134 26.4 18.2 27.4
91 33.6 25.8 38.8



#80
Dichlorodifluoromethane(sim)
Concen: 0.52 ppbv
RT: 3.604 min Scan# 19
Delta R.T. -0.021 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

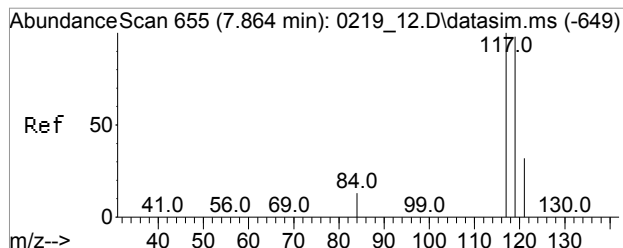
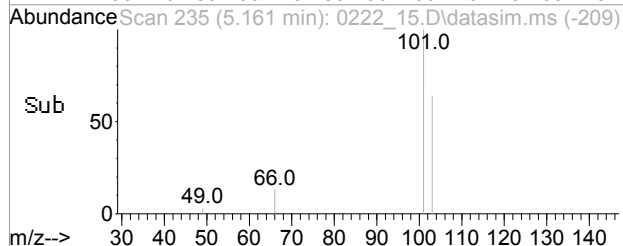
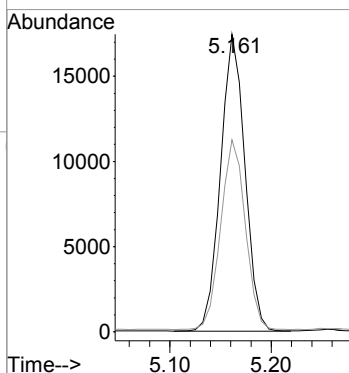
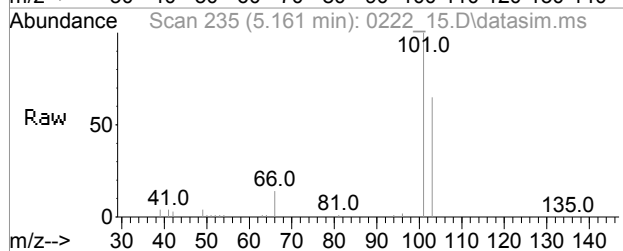
Tgt Ion: 85 Resp: 42171
Ion Ratio Lower Upper
85 100
87 32.7 12.7 52.7
50 12.6 0.0 32.3





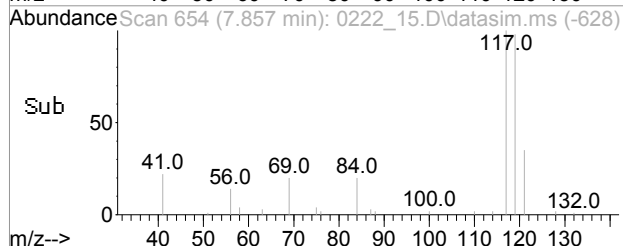
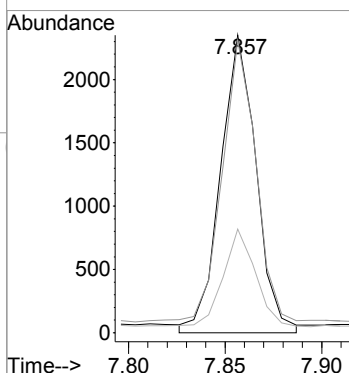
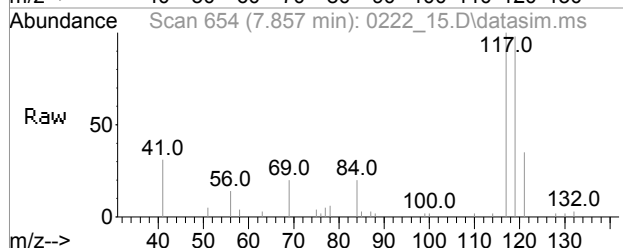
#84
Trichlorofluoromethane(sim)
Concen: 0.40 ppbv
RT: 5.161 min Scan# 235
Delta R.T. -0.015 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

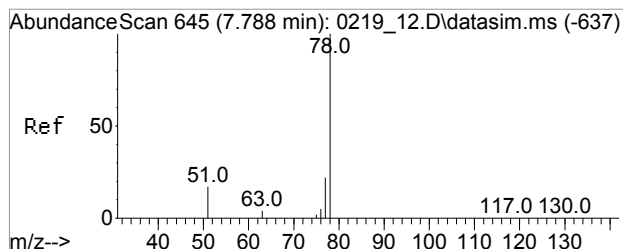
Tgt Ion:101 Resp: 29147
Ion Ratio Lower Upper
101 100
103 64.4 52.0 78.0



#87
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 7.854 min Scan# 654
Delta R.T. -0.007 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

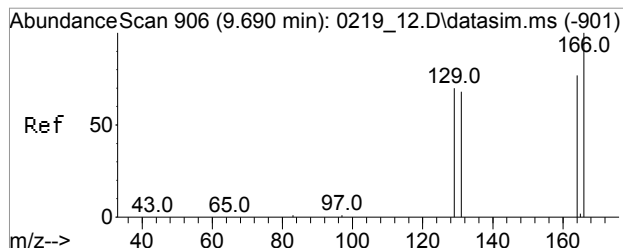
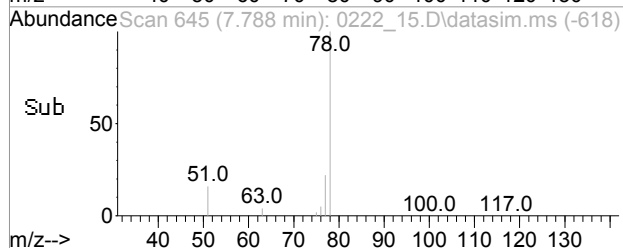
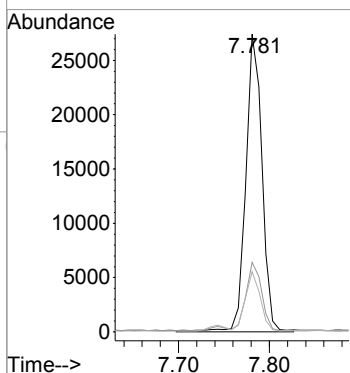
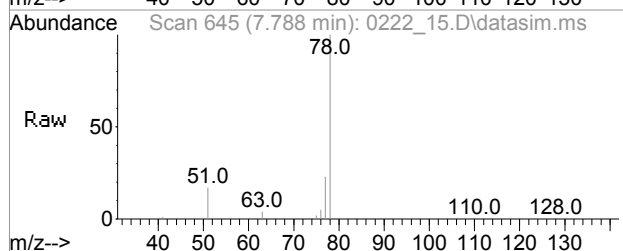
Tgt Ion:117 Resp: 2087
Ion Ratio Lower Upper
117 100
119 102.2 76.7 115.1
121 41.0 24.6 37.0#





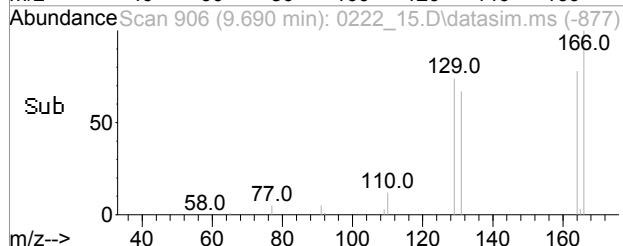
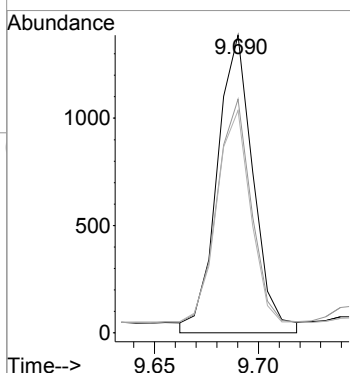
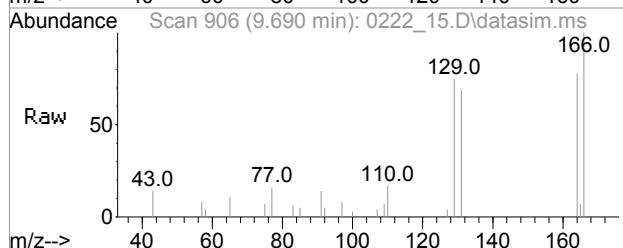
#95
Benzene(sim)
Concen: 0.94 ppbv
RT: 7.785 min Scan# 645
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

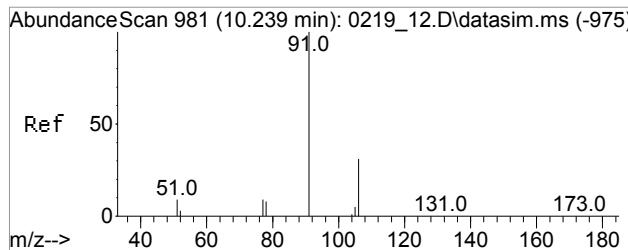
Tgt Ion: 78 Resp: 34177
Ion Ratio Lower Upper
78 100
77 20.5 22.0 24.4#
51 18.6 14.9 22.3



#105
Tetrachloroethene(sim)
Concen: 0.06 ppbv
RT: 9.687 min Scan# 906
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

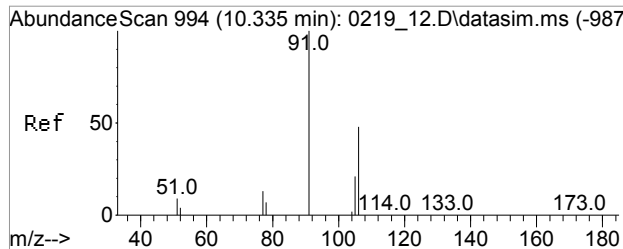
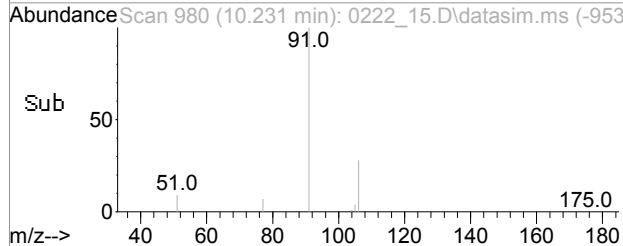
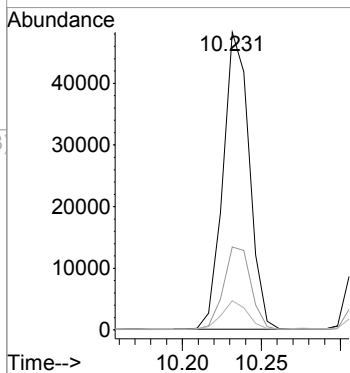
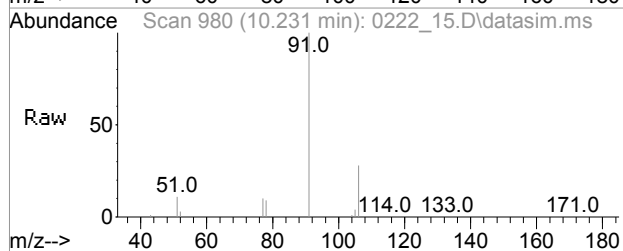
Tgt Ion: 166 Resp: 1228
Ion Ratio Lower Upper
166 100
164 89.6 57.8 97.8
129 65.2 50.7 90.7





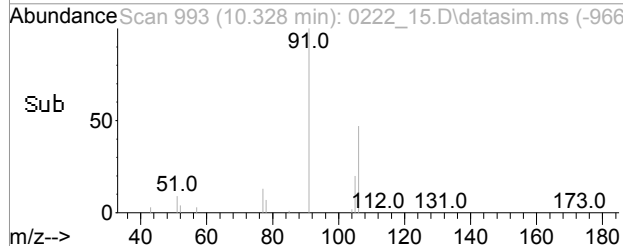
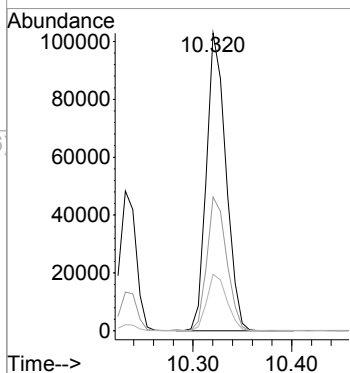
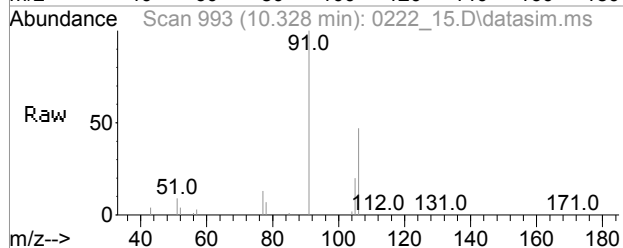
#110
Ethylbenzene(sim)
Concen: 1.00 ppbv
RT: 10.231 min Scan# 980
Delta R.T. 0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

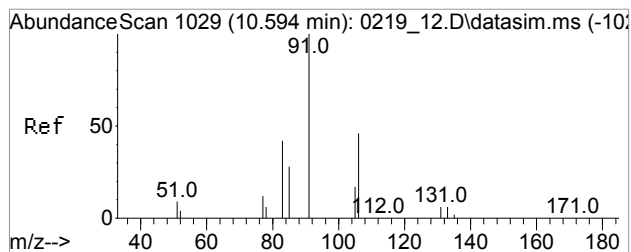
Tgt Ion: 91 Resp: 55641
Ion Ratio Lower Upper
91 100
106 28.9 24.0 36.0
77 9.5 7.3 10.9



#111
m,p-Xylene(sim)
Concen: 3.06 ppbv
RT: 10.325 min Scan# 993
Delta R.T. -0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

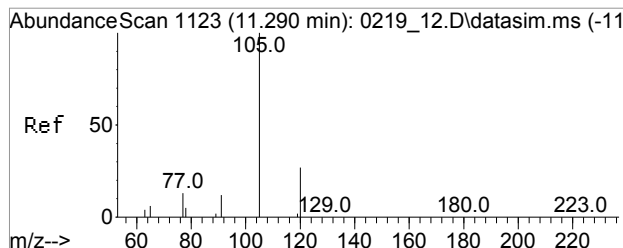
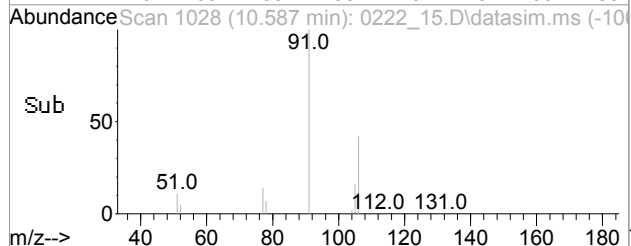
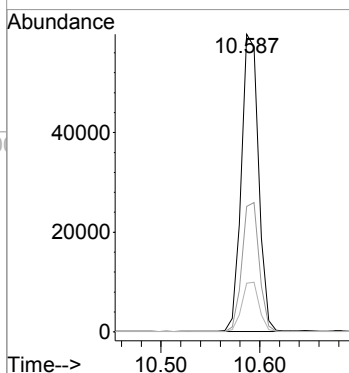
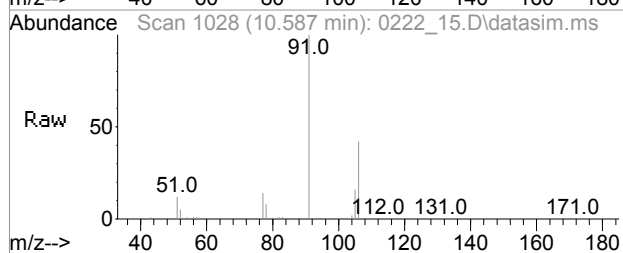
Tgt Ion: 91 Resp: 124010
Ion Ratio Lower Upper
91 100
106 47.5 43.6 53.2
105 20.1 16.6 25.0





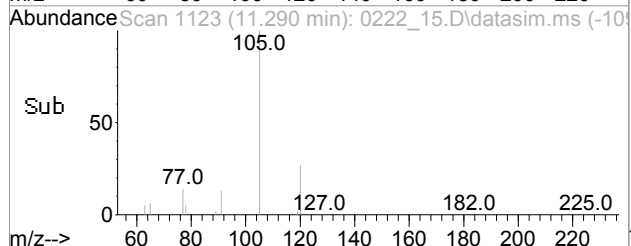
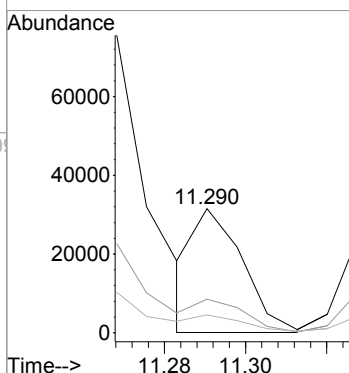
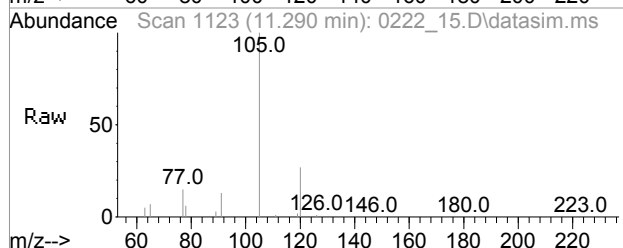
#114
o-Xylene(sim)
Concen: 1.59 ppbv
RT: 10.587 min Scan# 1028
Delta R.T. -0.007 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

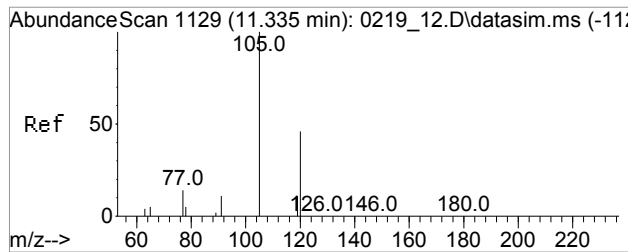
Tgt Ion: 91 Resp: 72059
Ion Ratio Lower Upper
91 100
106 43.6 36.0 54.0
105 16.8 13.8 20.8



#117
4-Ethyltoluene(sim)
Concen: 0.45 ppbv m
RT: 11.290 min Scan# 1123
Delta R.T. -0.005 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

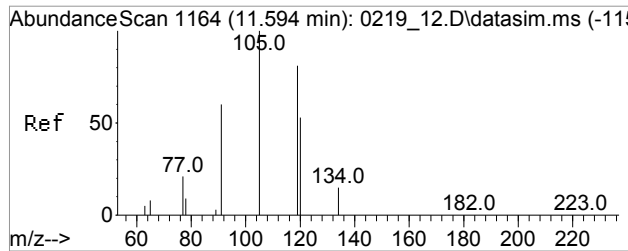
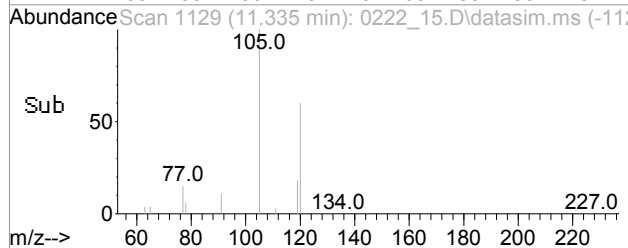
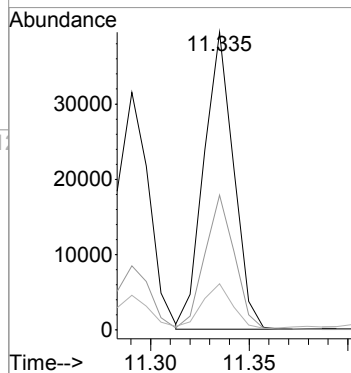
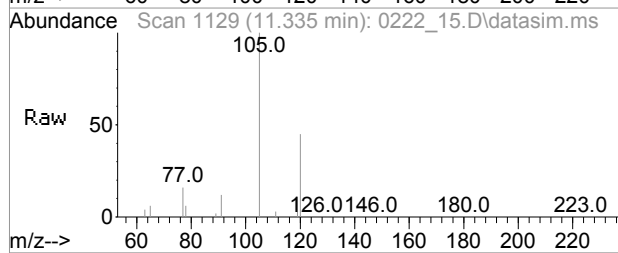
Tgt Ion: 105 Resp: 26145
Ion Ratio Lower Upper
105 100
120 116.8 23.3 34.9#
77 58.2 10.0 15.0#





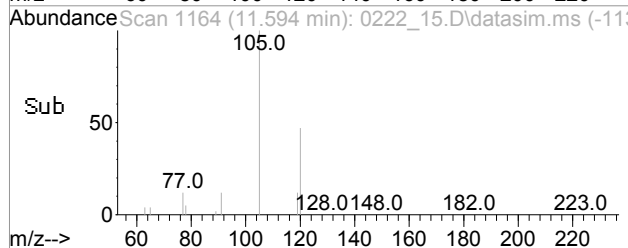
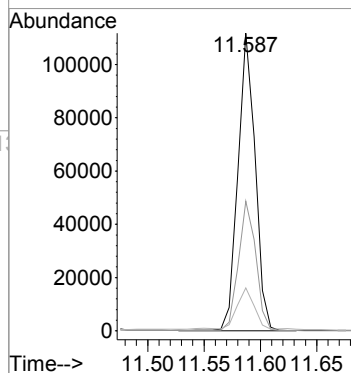
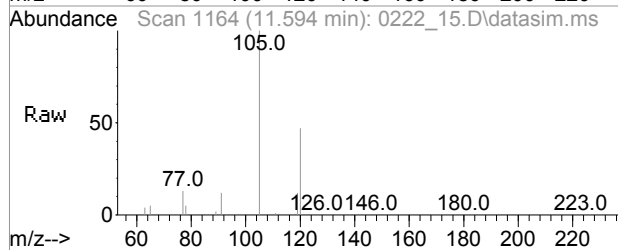
#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.82 ppbv
RT: 11.335 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

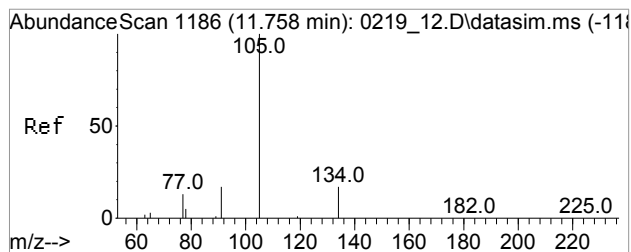
Tgt Ion:105 Resp: 41420
Ion Ratio Lower Upper
105 100
120 45.2 10.6 82.0
77 14.8 11.4 17.2



#119
1,2,4-Trimethylbenzene(sim)
Concen: 2.50 ppbv
RT: 11.592 min Scan# 1164
Delta R.T. 0.001 min
Lab File: 0222_15.D
Acq: 22 Feb 2016 09:01 pm

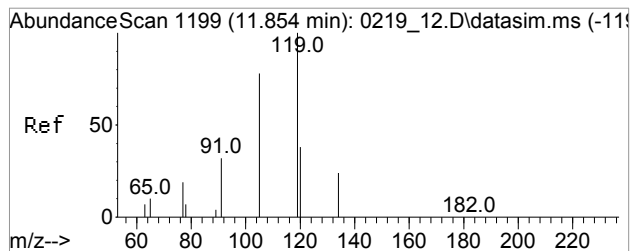
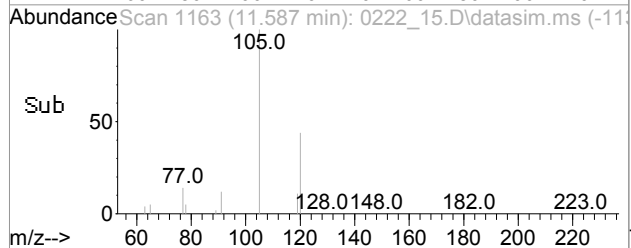
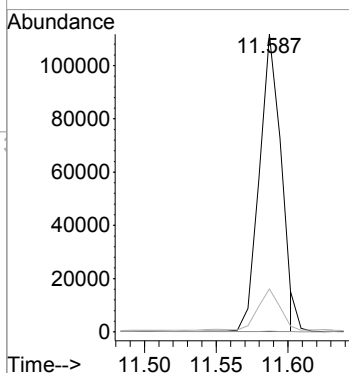
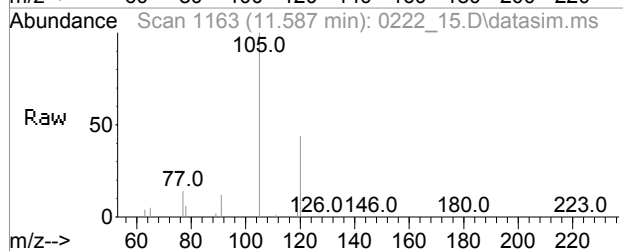
Tgt Ion:105 Resp: 110230
Ion Ratio Lower Upper
105 100
120 46.6 43.5 65.3
77 13.7 20.2 30.4#





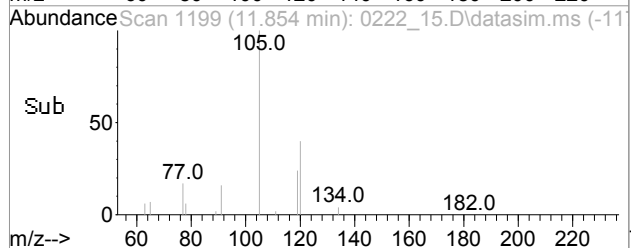
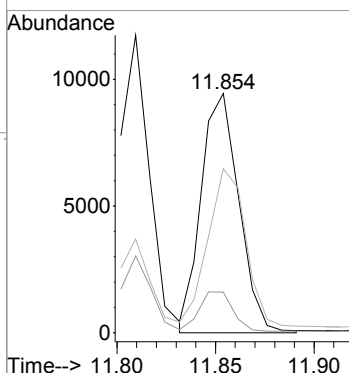
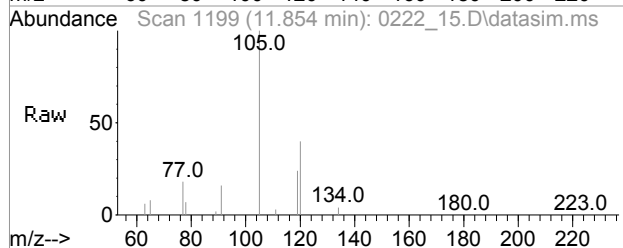
#124
 sec-Butylbenzene(sim)
 Concen: 1.80 ppbv
 RT: 11.587 min Scan# 1163
 Delta R.T. 0.000 min
 Lab File: 0222_15.D
 Acq: 22 Feb 2016 09:01 pm

Tgt Ion:105 Resp: 118099
 Ion Ratio Lower Upper
 105 100
 134 0.1 0.0 35.9
 77 14.2 0.0 34.1



#125
 4-Isopropyltoluene(sim)
 Concen: 0.20 ppbv
 RT: 11.851 min Scan# 1199
 Delta R.T. 0.000 min
 Lab File: 0222_15.D
 Acq: 22 Feb 2016 09:01 pm

Tgt Ion:119 Resp: 12350
 Ion Ratio Lower Upper
 119 100
 134 15.8 18.2 27.4#
 91 63.1 25.8 38.8#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK68461 LCS
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK68461 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0223_40.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/23/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/24/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	10.2		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	9.59		0.202	0.202	r
74-87-3	Chloromethane	10.6		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	9.77		0.143	0.143	r
75-01-4	Vinyl Chloride	10.4		0.098	0.098	r
106-99-0	1,3-Butadiene	10.4		0.452	0.452	r
74-83-9	Bromomethane	10.3		0.258	0.258	r
75-00-3	Chloroethane	10.6		0.379	0.379	r
64-17-5	Ethanol	9.25		0.531	0.531	r
67-64-1	Acetone	9.73		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.0		0.178	0.178	r
67-63-0	Isopropylalcohol	10.2		0.407	0.407	r
107-13-1	Acrylonitrile	8.89		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.3		0.252	0.252	r
75-09-2	Methylene Chloride	10.1		0.288	0.288	r
75-15-0	Carbon Disulfide	10.6		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.8		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.4		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.1		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.0		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	10.0		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.2		0.252	0.252	r
110-54-3	Hexane	9.90		0.284	0.284	r
67-66-3	Chloroform	10.3		0.205	0.205	r
141-78-6	Ethyl acetate	10.0		0.278	0.278	r
109-99-9	Tetrahydrofuran	10.0		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.4		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.5		0.183	0.183	r
71-43-2	Benzene	9.91		0.313	0.313	r
56-23-5	Carbon Tetrachloride	10.5		0.040	0.040	r
110-82-7	Cyclohexane	9.63		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.2		0.217	0.217	r
75-27-4	Bromodichloromethane	10.7		0.149	0.149	r
79-01-6	Trichloroethene	10.5		0.047	0.047	r
123-91-1	1,4-Dioxane	10.8		0.278	0.278	r
142-82-5	Heptane	10.3		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	WALDENE	Lab:	Phoenix Env. Labs	BK68461 LCS	
SDG No.:	GBK67651	Lab Sample ID:	BK68461 LCS		
Canister:	LCS	Lab File ID:	0223_40.D		
Instrument:	CHEM24	Column:	zb-1ms	Date Received:	02/23/16
Purge Volume	200	(cc)		Date Analyzed:	02/24/16
Matrix:	AIR	Dilution Factor:	1		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	18.2		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	23.8		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.0		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.51		0.183	0.183	r
108-88-3	Toluene	9.51		0.266	0.266	r
124-48-1	Dibromochloromethane	9.79		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	10.1		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	9.41		0.130	0.130	r
127-18-4	Tetrachloroethene	9.21		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.5		0.146	0.146	r
108-90-7	Chlorobenzene	10.1		0.217	0.217	r
100-41-4	Ethylbenzene	10.2		0.230	0.230	r
179601-23-1	m,p-Xylene	22.0		0.230	0.230	r
75-25-2	Bromoform	11.5		0.097	0.097	r
100-42-5	Styrene	10.0		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.4		0.146	0.146	r
95-47-6	o-Xylene	10.5		0.230	0.230	r
98-82-8	Isopropylbenzene	10.3		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.3		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.1		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	10.7		0.204	0.204	r
100-44-7	Benzyl chloride	12.0		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.5		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	10.2		0.166	0.166	r
135-98-8	sec-Butylbenzene	9.92		0.182	0.182	r
99-87-6	4-Isopropyltoluene	10.2		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	9.99		0.166	0.166	r
104-51-8	n-Butylbenzene	10.0		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	9.86		0.135	0.135	r
87-68-3	Hexachlorobutadiene	10.6		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_40.D
 Acq On : 24 Feb 2016 6:31 am
 Operator : Keith
 Client ID : BK68461 LCS
 Lab ID : BK68461 LCS
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 24 09:16:02 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.085	130	107144	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.060	114	348647	10.000	ng	0.00
53) Chlorobenzene-d5	9.291	82	236405	10.000	ng	0.00
80) Bromochloromethane(sim)	4.085	130	107144	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.063	114	392187	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.293	82	268023	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	309592	9.870	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.70%	

Target Compounds					Qvalue	
2) Propylene	1.596	41	122336	10.150	ppbv	99
3) Dichlorodifluoromethane	1.622	85	368146	9.589	ppbv	98
4) Chloromethane	1.689	52	31067	10.545	ppbv	89
5) 1,2-Dichlorotetrafluor...	1.732	85	236038	9.774	ppbv#	81
6) Vinyl Chloride	1.774	62	92498	10.439	ppbv	98
7) 1,3-Butadiene	1.833	54	65618	10.354	ppbv#	73
8) Bromomethane	1.935	94	110127	10.252	ppbv	100
9) Chloroethane	2.003	64	40343	10.608	ppbv	97
10) Ethanol	2.071	45	30802	9.248	ppbv	97
12) Acetone	2.265	43	154220	9.730	ppbv	96
13) Trichlorofluoromethane	2.325	101	311579	10.977	ppbv	99
14) Isopropylalcohol	2.384	45	188991	10.150	ppbv	93
15) Acrylonitrile	2.469	53	55210	8.890	ppbv	100
16) 1,1-Dichloroethene	2.621	61	155806	10.306	ppbv	88
17) Methylene Chloride	2.681	49	113340	10.064	ppbv	98
20) Carbon Disulfide	2.833	76	242920	10.549	ppbv	97
21) Trichlorotrifluoroethane	2.825	101	232177	10.752	ppbv#	86
22) Trans-1,2-Dichloroethene	3.211	61	132749	10.359	ppbv	87
23) 1,1-Dichloroethane	3.344	63	171877	10.137	ppbv	99
24) Methyl tert-butyl ethe...	3.411	73	234334	10.039	ppbv	98
25) Methyl Ethyl Ketone	3.638	43	182096	9.998	ppbv	94
26) Cis-1,2-Dichloroethene	3.958	61	128515	10.190	ppbv	86
27) Hexane	4.158	57	117575	9.897	ppbv	85
28) Chloroform	4.211	83	222480	10.335	ppbv	97
29) Ethyl acetate	4.211	43	206607	10.016	ppbv	96
30) Tetrahydrofuran	4.598	42	99805	10.003	ppbv	86
31) 1,2-Dichloroethane	4.936	62	148511	10.398	ppbv	97
32) 1,1,1-Trichloroethane	5.203	97	236569	10.475	ppbv	95
33) Benzene	5.660	78	267392	9.907	ppbv	99
34) Carbon Tetrachloride	5.800	117	262745	10.535	ppbv	99
35) Cyclohexane	5.913	56	122420	9.629	ppbv	91
37) 1,2-dichloropropane	6.427	63	99155	10.146	ppbv	89
38) Bromodichloromethane	6.593	83	218242	10.732	ppbv	95
39) Trichloroethene	6.627	130	153616	10.544	ppbv	91
41) 1,4-Dioxane	6.673	88	61569	10.819	ppbv#	80
43) Heptane	6.940	71	71694	10.307	ppbv#	91
44) cis-1,3-Dichloropropene	7.347	75	231313	18.232	ppbv	98
45) 4-Methyl-2-pentanone(M...	7.427	43	375276	23.762	ppbv#	90
46) trans-1,3-Dichloropropene	7.757	75	226895	10.017	ppbv	99
47) 1,1,2-Trichloroethane	7.860	97	177953	9.511	ppbv	96
48) Toluene	8.059	91	452299	9.510	ppbv	96
49) Dibromochloromethane	8.340	129	356465	9.793	ppbv	99

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_40.D
 Acq On : 24 Feb 2016 6:31 am
 Operator : Keith
 Client ID : BK68461 LCS
 Lab ID : BK68461 LCS
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 24 09:16:02 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.313	43	365543	10.106	ppbv#	98
51) 1,2-Dibromoethane(EDB)	8.512	107	319946	9.407	ppbv	96
52) Tetrachloroethene	8.848	166	295623	9.210	ppbv	93
54) 1,1,1,2-Tetrachloroethane	9.313	131	238819	10.502	ppbv	99
55) Chlorobenzene	9.321	112	398600	10.092	ppbv	89
56) Ethylbenzene	9.571	91	640385	10.242	ppbv	95
57) m, p-Xylene	9.685	91	1076266	22.011	ppbv	91
58) Bromoform	9.692	173	422960	11.460	ppbv	99
59) Styrene	9.882	104	370865	10.009	ppbv#	82
60) 1,1,2,2-Tetrachloroethane	9.943	83	425520	10.440	ppbv	92
61) o-Xylene	9.943	91	517287	10.530	ppbv	93
64) Isopropylbenzene	10.261	105	678653	10.306	ppbv	93
66) 4-Ethyltoluene	10.600	105	725661	10.327	ppbv	94
67) 1,3,5-Trimethylbenzene	10.638	105	603845	10.053	ppbv	92
68) 1,2,4-Trimethylbenzene	10.838	105	631973	10.706	ppbv	90
70) Benzyl chloride	10.897	91	479071	11.948	ppbv#	93
71) 1,3-Dichlorobenzene	10.903	146	468620	10.522	ppbv	95
72) 1,4-Dichlorobenzene	10.935	146	451519	10.194	ppbv	95
73) sec-Butylbenzene	10.967	105	827458	9.922	ppbv#	92
74) 4-Isopropyltoluene	11.049	119	769885	10.233	ppbv	91
75) 1,2-Dichlorobenzene	11.103	146	432774	9.992	ppbv	95
76) n-Butylbenzene	11.249	91	647403	10.002	ppbv#	94
77) 1,2,4-Trichlorobenzene	11.938	180	274758	9.856	ppbv	98
79) Hexachlorobutadiene	12.167	225	427772	10.557	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.726	85	256589	10.046	ppbv#	82
82] Vinyl Chloride(sim)	1.774	62	92498	10.815	ppbv	98
83] Bromomethane(sim)	1.938	94	116703	10.656	ug/l	100
84] Trichlorofluoromethane...	2.325	101	311579	11.531	ppbv	99
85] Trans-1,2-Dichloroethe...	3.207	61	146502	10.436	ppbv	88
86] 1,1-Dichloroethene(sim)	2.621	61	155806	10.102	ppbv	88
87] 1,1-Dichloroethane(sim)	3.341	63	188008	10.225	ppbv	99
88] Cis-1,2-Dichloroethene...	3.958	61	128515	9.668	ppbv	86
89] 1,2-Dichloroethane(sim)	4.939	62	163224	10.526	ppbv	97
90] 1,1,1-Trichloroethane(...	5.203	97	236569	10.476	ppbv#	95
91] Carbon Tetrachloride(sim)	5.796	117	282113	11.231	ppbv	100
92] Trichlorotrifluoroetha...	2.825	101	232177	11.179	ppbv	99
94] 1,2-dichloropropane(sim)	6.427	63	99155	9.529	ppbv	89
95] Bromodichloromethane(sim)	6.589	83	234412	9.816	ppbv	95
96] Trichloroethene(sim)	6.627	130	153616	9.465	ppbv	93
97] 1,4-Dioxane(sim)	6.676	88	65995	10.046	ppbv#	80
98] cis-1,3-Dichloropropen...	7.347	75	231313	12.645	ppbv	98
99] 1,1,2-Trichloroethane(...	7.863	97	209107	9.867	ppbv	94
100] Dibromochloromethane(sim)	8.340	129	356426	10.534	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.515	107	378131	9.730	ppbv	96
102] Tetrachloroethene(sim)	8.848	166	295545	9.381	ppbv	93
104] Bromoform(sim)	9.692	173	422960	13.823	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.316	131	281937	11.266	ppbv	100
106] m, p-Xylene(sim)	9.685	91	1077980	20.350	ppbv#	92
107] 1,1,2,2-Tetrachloroeth...	9.938	83	475456	9.995	ppbv#	96
110] Benzyl chloride(sim)	10.897	91	479406	14.767	ppbv	93
111] 1,3-Dichlorobenzene(sim)	10.905	146	568924	11.371	ppbv	97
112] 1,4-Dichlorobenzene(sim)	10.935	146	451519	10.667	ppbv	95
113] sec-Butylbenzene(sim)	10.970	105	950787	9.843	ppbv	93
114] 4-Isopropyltoluene(sim)	11.049	119	769885	10.083	ppbv	91
115] 1,2-Dichlorobenzene(sim)	11.100	146	531820	10.865	ppbv	97

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_40.D
Acq On : 24 Feb 2016 6:31 am
Operator : Keith
Client ID : BK68461 LCS
Lab ID : BK68461 LCS
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 24 09:16:02 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration

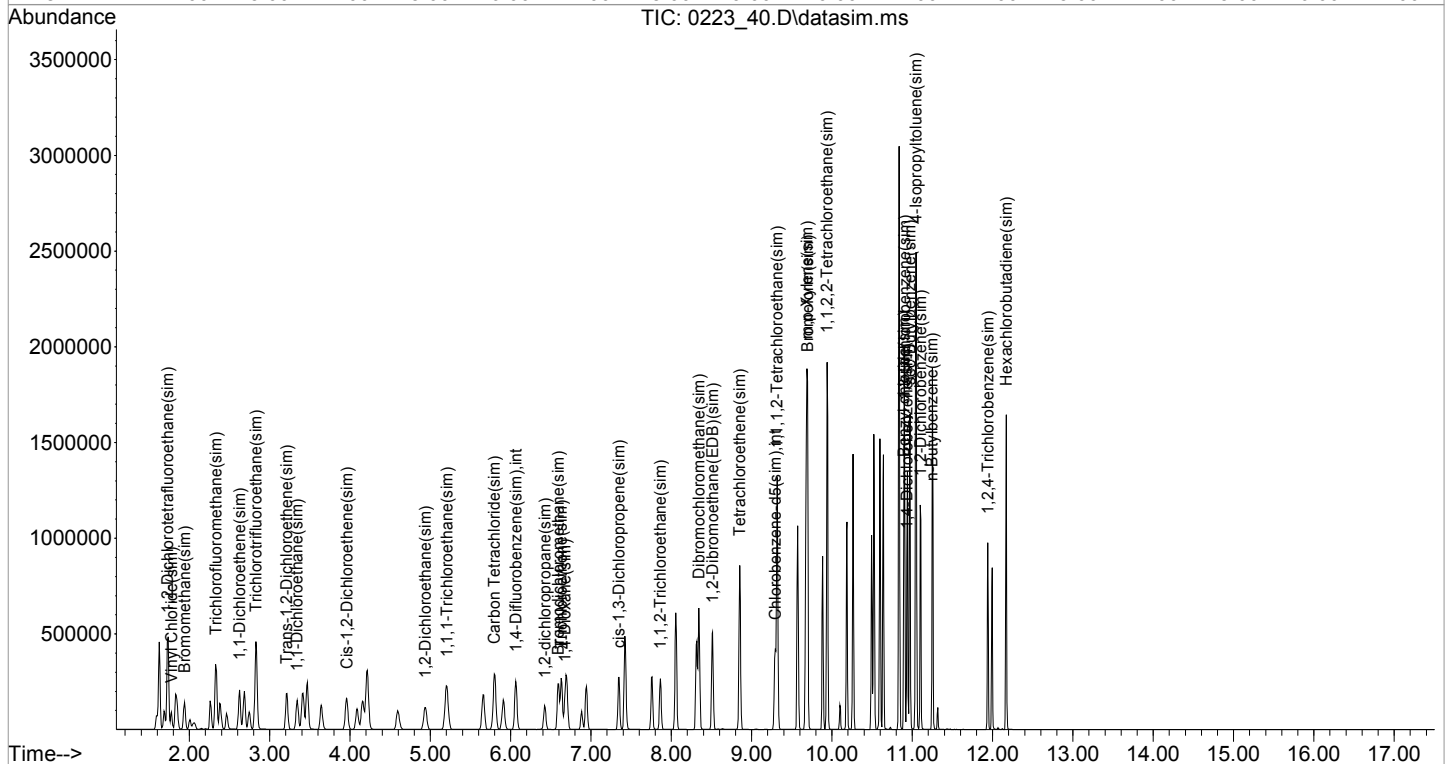
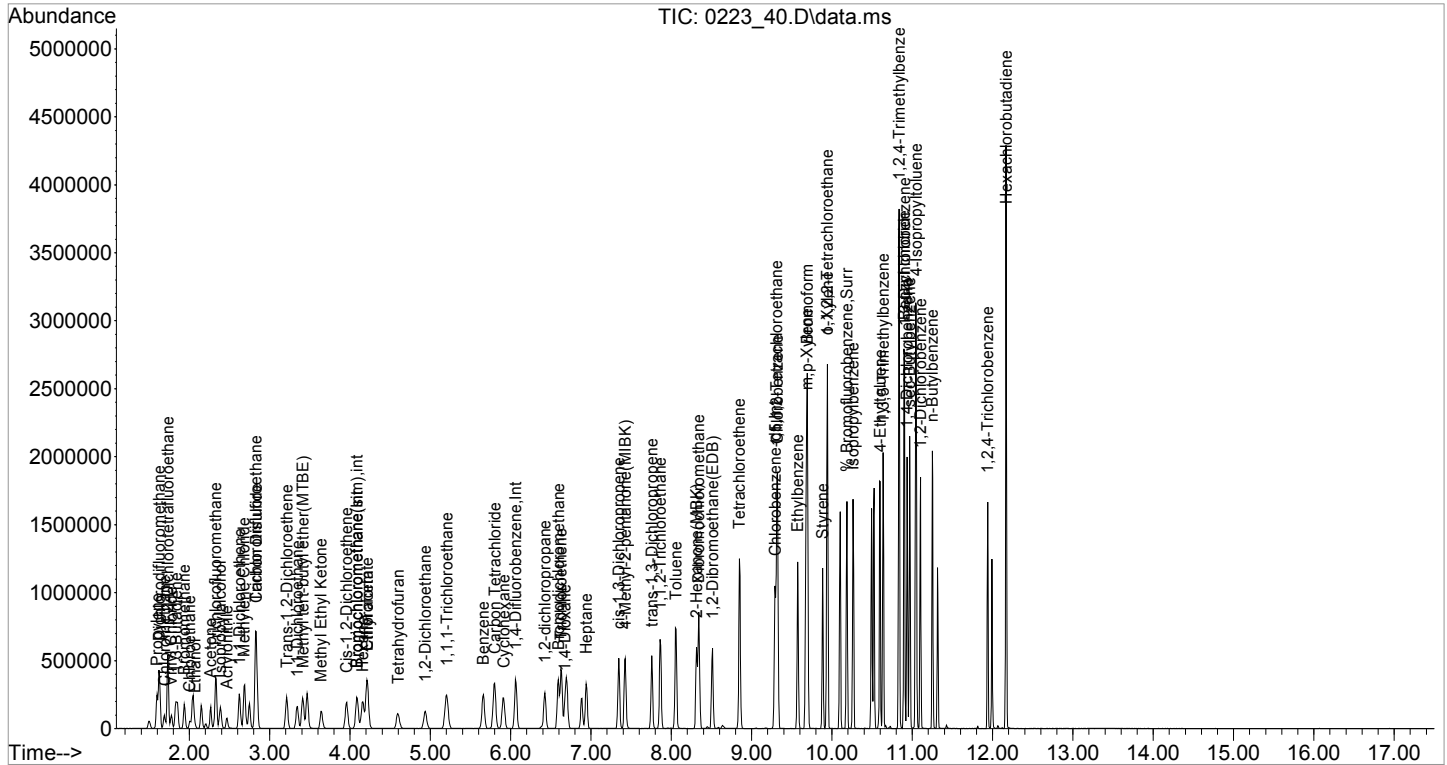
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.249	91	647403	10.482	ppbv	94
117] 1,2,4-Trichlorobenzene...	11.941	180	356119	13.266	ppbv	99
119] Hexachlorobutadiene(sim)	12.170	225	525878	10.910	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_40.D
Acq On : 24 Feb 2016 6:31 am
Operator : Keith
Client ID : BK68461 LCS
Lab ID : BK68461 LCS
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 24 09:16:02 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK68461 QC
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK68461</u>	
Canister:	<u>357</u>	Lab File ID:	<u>0223_50.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/23/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/24/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.380		0.202	0.202	r
74-87-3	Chloromethane	0.610		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.70	S	0.531	0.531	r
67-64-1	Acetone	2.30	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.250		0.178	0.178	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.420		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.580		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GBK67651	Lab Sample ID:	BK68461
Canister:	357	Lab File ID:	0223_50.D
Instrument:	CHEM24	Column:	zb-1ms
Purge Volume	200	(cc)	Date Received: 02/23/16
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.071		0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.140		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_50.D
 Acq On : 24 Feb 2016 12:47 pm
 Operator : Keith
 Client ID : BK68461 QC
 Lab ID : BK68461
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 24 14:32:14 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

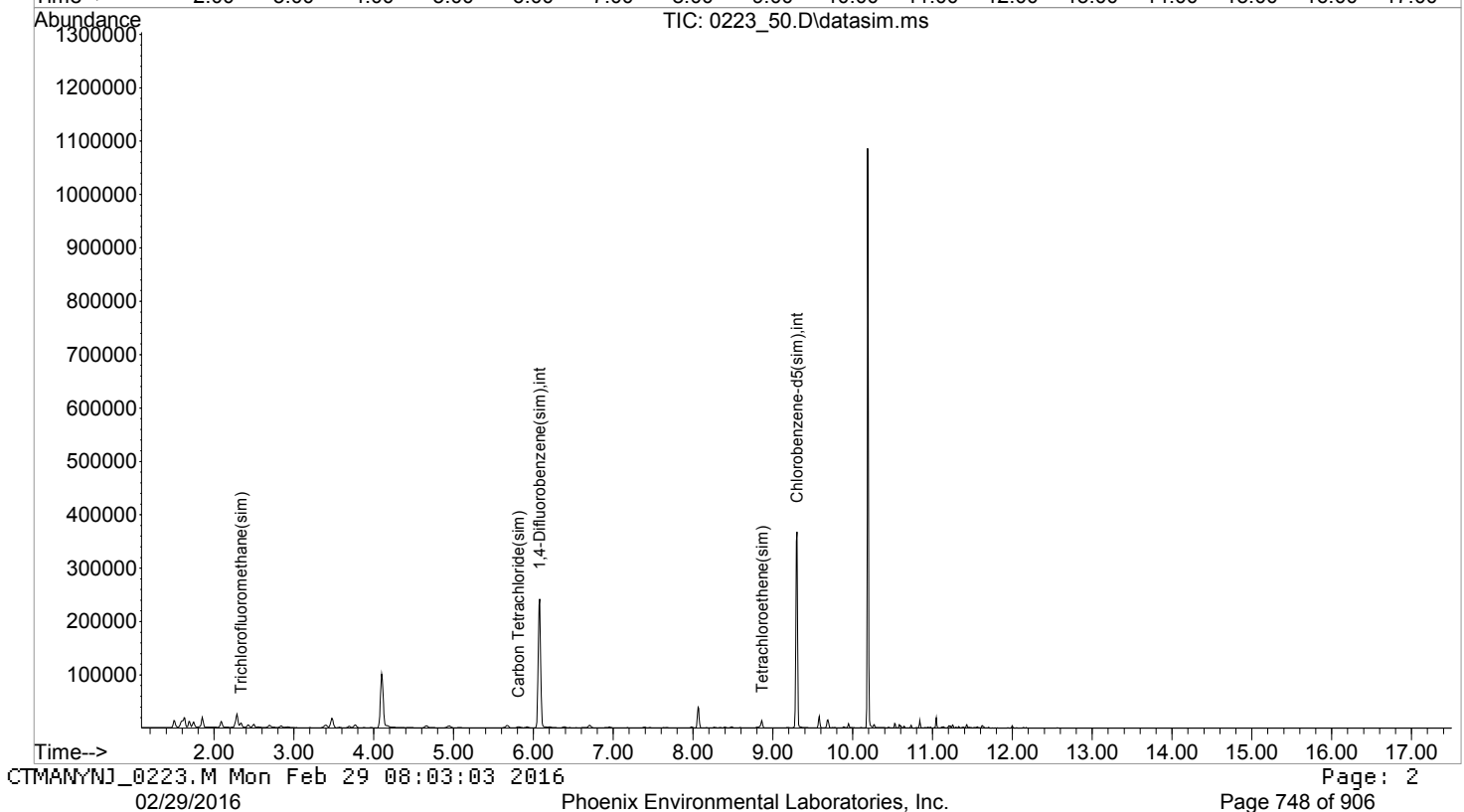
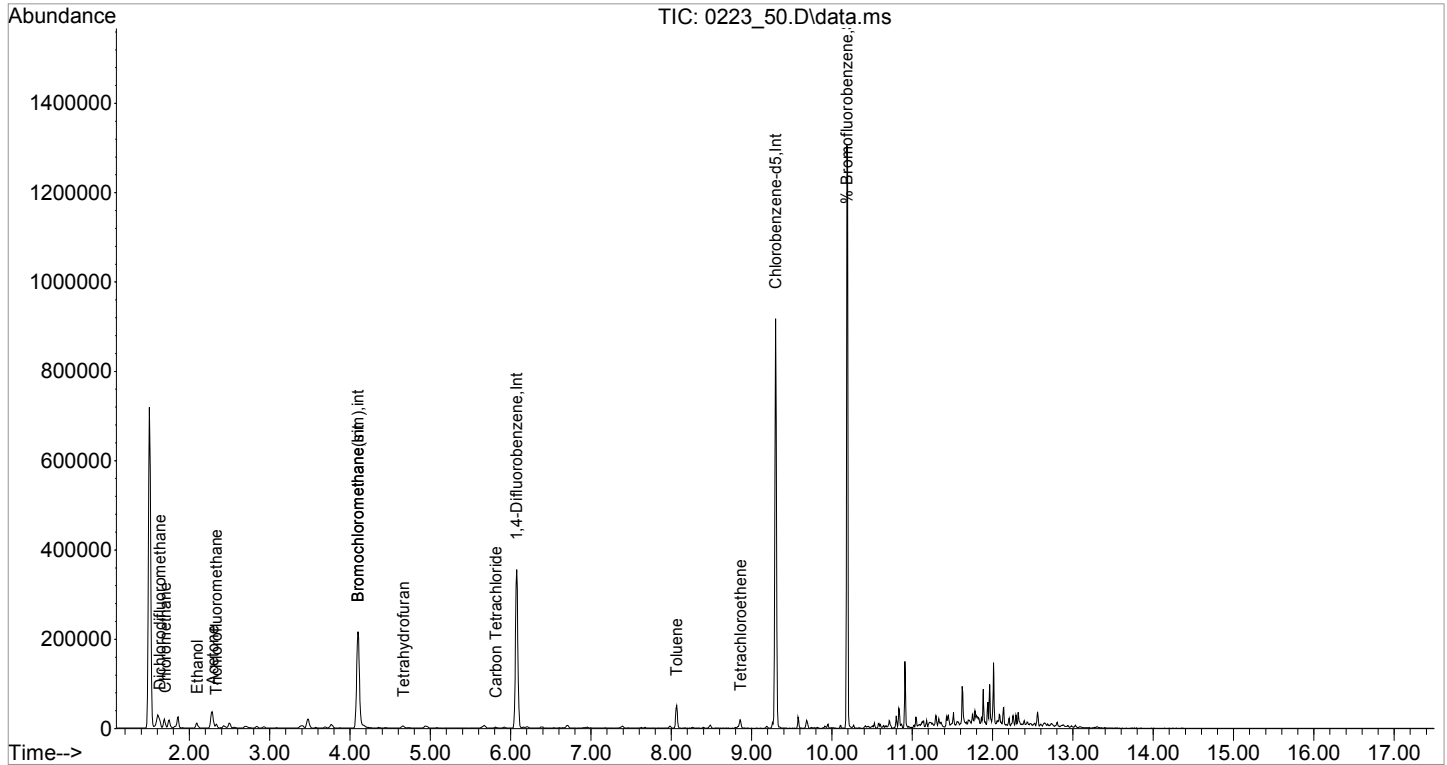
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

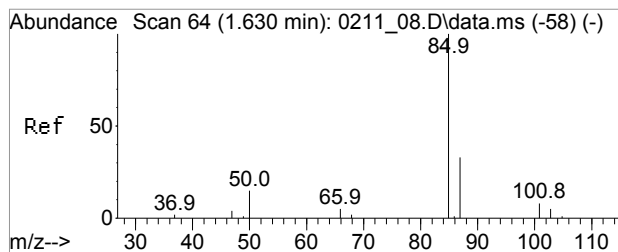
Internal Standards						
1) Bromochloromethane	4.098	130	105159	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.074	114	346743	10.000	ng	0.02
53) Chlorobenzene-d5	9.298	82	206004	10.000	ng	0.00
80) Bromochloromethane(sim)	4.098	130	105159	10.000	ng	0.02
93) 1,4-Difluorobenzene(sim)	6.077	114	388266	10.000	ng	# 0.02
103) Chlorobenzene-d5(sim)	9.301	82	241152	10.000	ng	0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	282400	10.331	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 103.30%		
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.630	85	14446	0.383	ppbv	98
4) Chloromethane	1.698	52	1750	0.605	ppbv#	77
10) Ethanol	2.096	45	11974	3.663	ppbv	98
12) Acetone	2.291	43	35267	2.267	ppbv#	82
13) Trichlorofluoromethane	2.333	101	7029	0.252	ppbv#	93
30) Tetrahydrofuran	4.665	42	4100	0.419	ppbv#	79
34) Carbon Tetrachloride	5.814	117	1545	0.063	ppbv	93
48) Toluene	8.066	91	27240	0.576	ppbv	96
52) Tetrachloroethene	8.862	166	4554	0.143	ppbv	96
84] Trichlorofluoromethane...	2.333	101	7029	0.265	ppbv	94
91] Carbon Tetrachloride(sim)	5.810	117	1760	0.071	ppbv	99
102] Tetrachloroethene(sim)	8.862	166	4310	0.138	ppbv	94

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_50.D
Acq On : 24 Feb 2016 12:47 pm
Operator : Keith
Client ID : BK68461 QC
Lab ID : BK68461
ALS Vial : 38 Sample Multiplier: 1

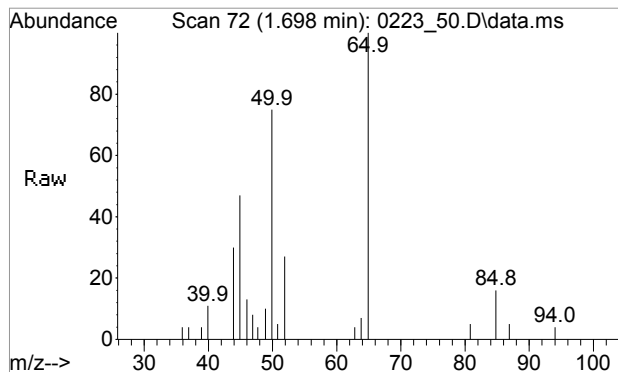
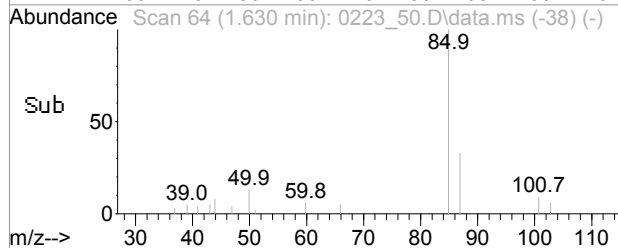
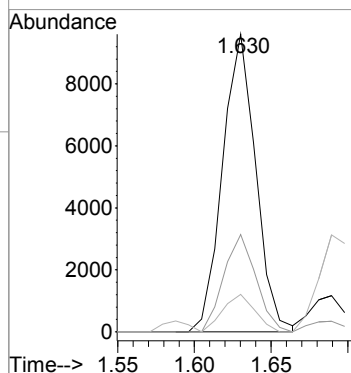
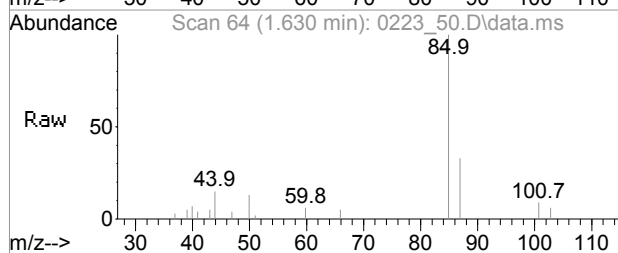
Quant Time: Feb 24 14:32:14 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration





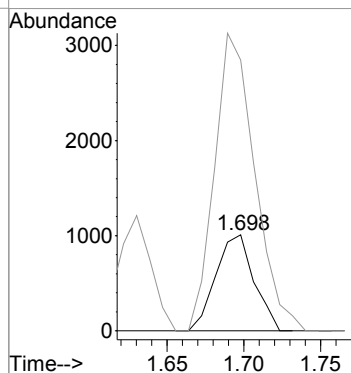
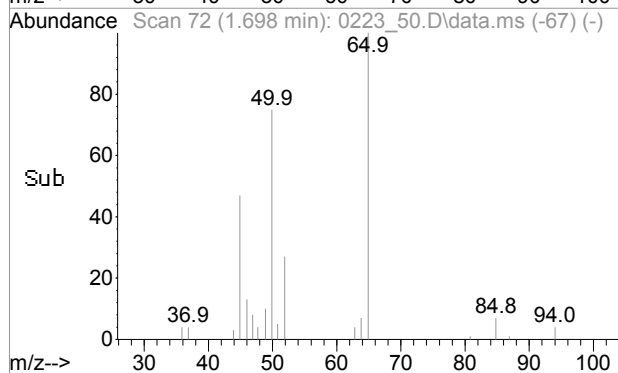
#3
Dichlorodifluoromethane
Concen: 0.38 ppbv
RT: 1.630 min Scan# 64
Delta R.T. 0.017 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

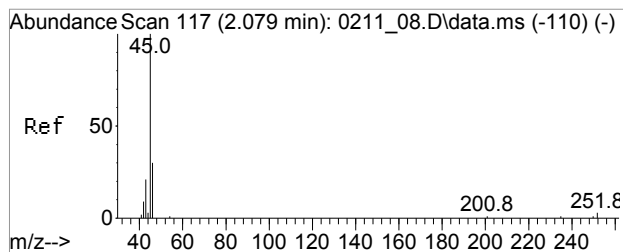
Tgt Ion: 85 Resp: 14446
Ion Ratio Lower Upper
85 100
87 31.9 25.7 38.5
50 12.2 11.9 17.9



#4
Chloromethane
Concen: 0.61 ppbv
RT: 1.698 min Scan# 72
Delta R.T. 0.017 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

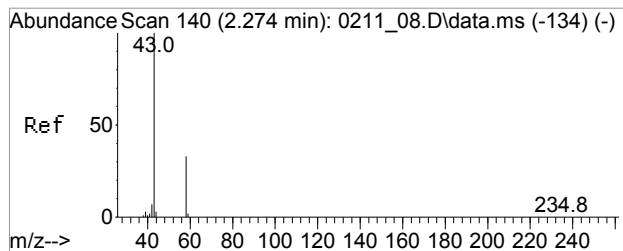
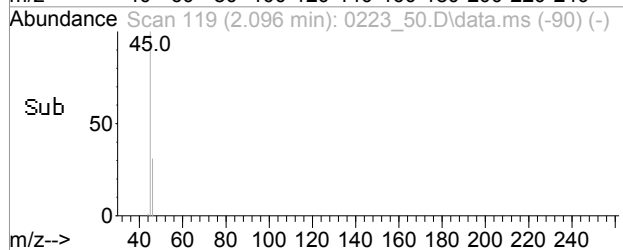
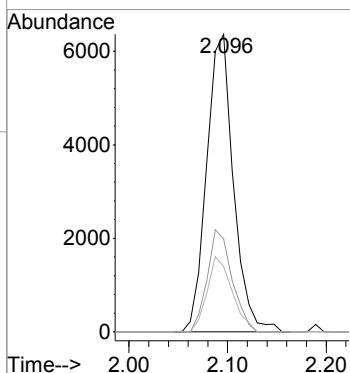
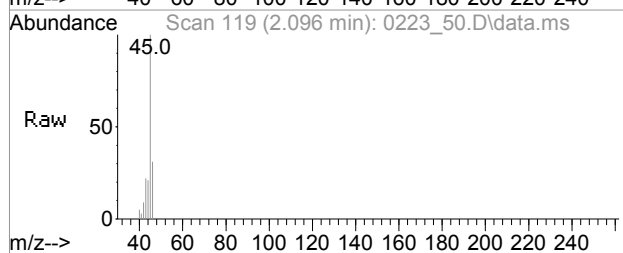
Tgt Ion: 52 Resp: 1750
Ion Ratio Lower Upper
52 100
50 326.8 263.8 303.8#





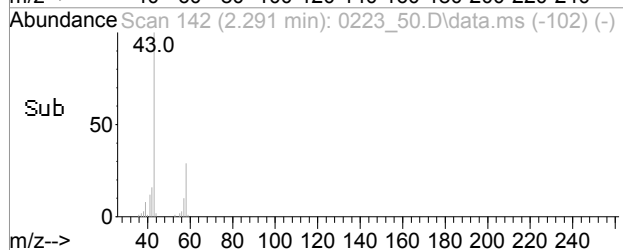
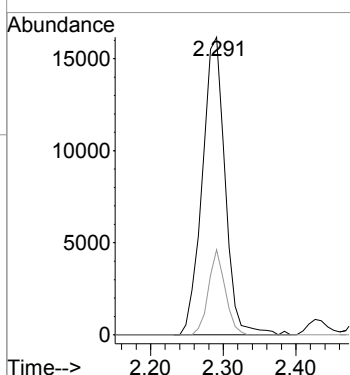
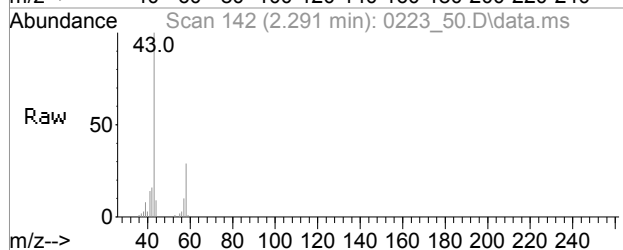
#10
Ethanol
Concen: 3.66 ppbv
RT: 2.096 min Scan# 119
Delta R.T. 0.042 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

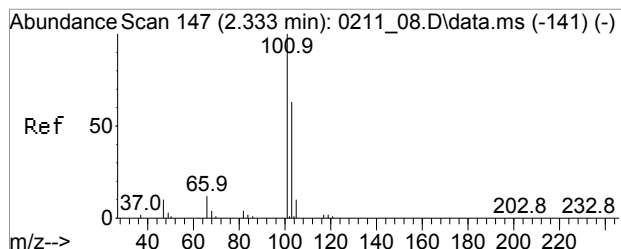
Tgt Ion: 45 Resp: 11974
Ion Ratio Lower Upper
45 100
46 31.7 24.2 36.4
43 23.5 19.7 29.5



#12
Acetone
Concen: 2.27 ppbv
RT: 2.291 min Scan# 142
Delta R.T. 0.043 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

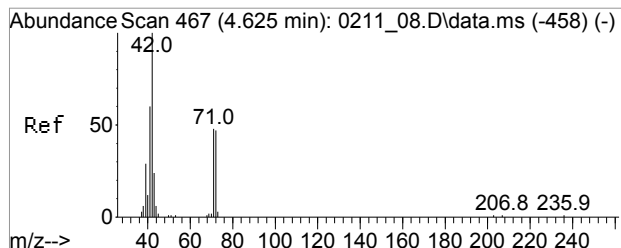
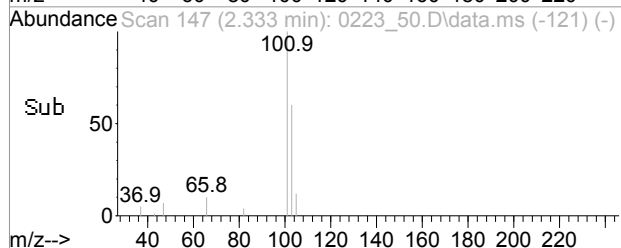
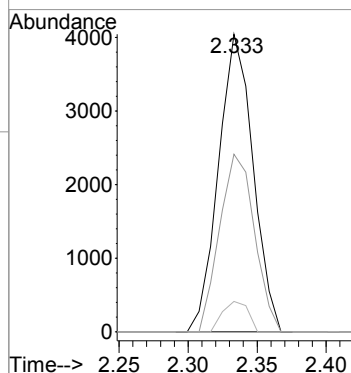
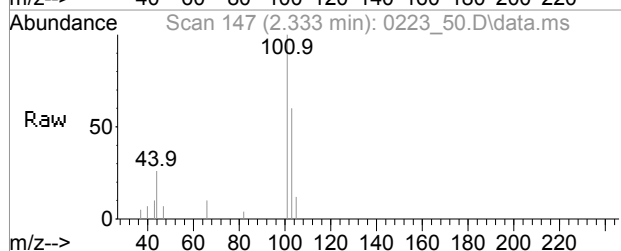
Tgt Ion: 43 Resp: 35267
Ion Ratio Lower Upper
43 100
58 20.9 24.8 37.2#





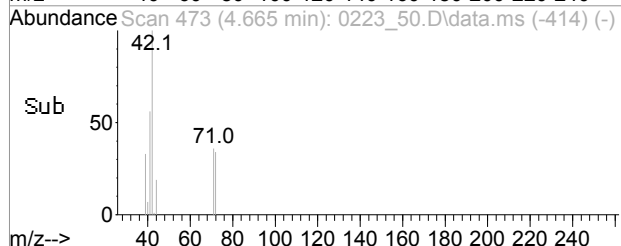
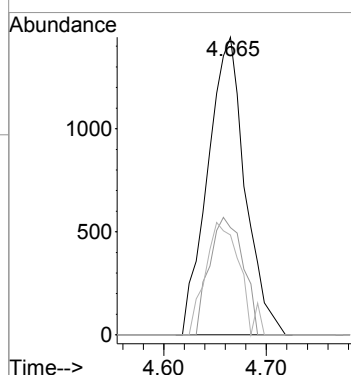
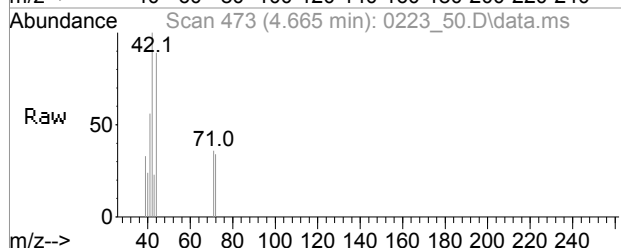
#13
Trichlorofluoromethane
Concen: 0.25 ppbv
RT: 2.333 min Scan# 147
Delta R.T. 0.017 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

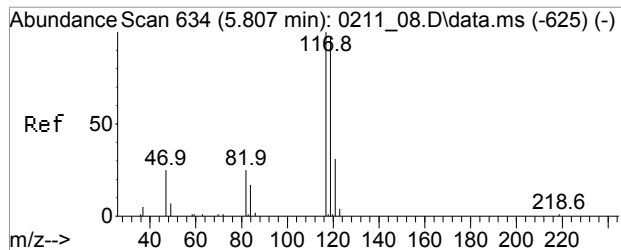
Tgt Ion: 101 Resp: 7029
Ion Ratio Lower Upper
101 100
103 60.2 51.8 77.8
66 7.5 10.2 15.2#



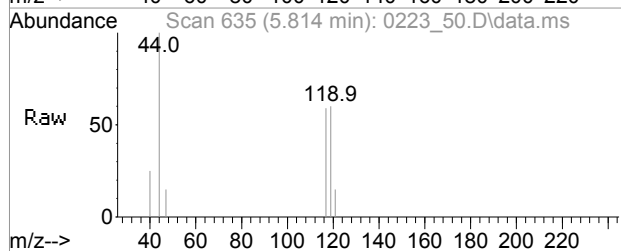
#30
Tetrahydrofuran
Concen: 0.42 ppbv
RT: 4.665 min Scan# 473
Delta R.T. 0.094 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

Tgt Ion: 42 Resp: 4100
Ion Ratio Lower Upper
42 100
71 31.7 37.9 56.9#
72 35.9 38.2 57.4#

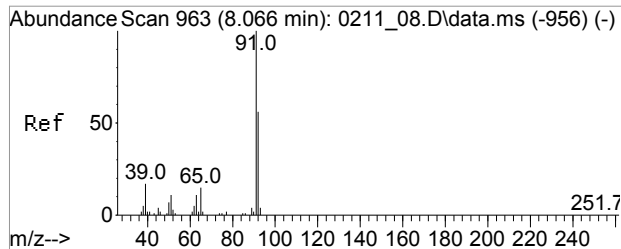
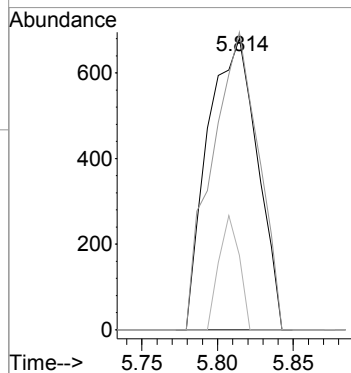
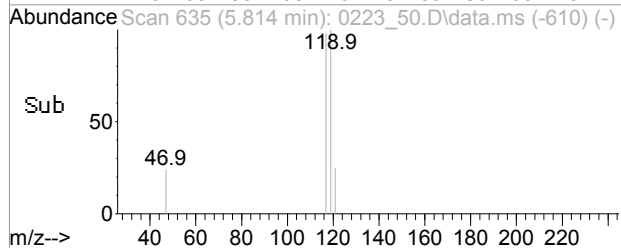




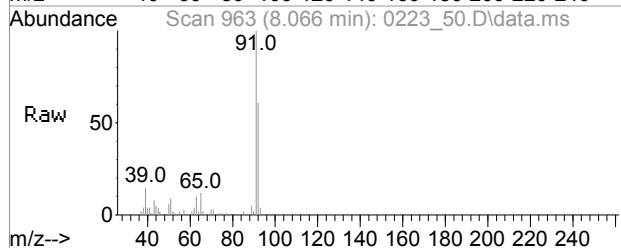
#34
Carbon Tetrachloride
Concen: Below Cal
RT: 5.814 min Scan# 635
Delta R.T. 0.028 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm



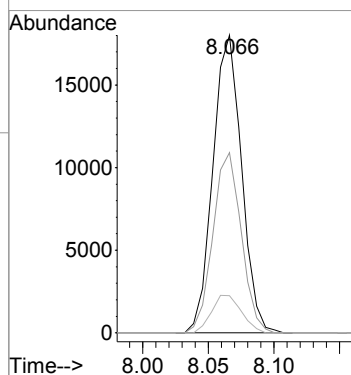
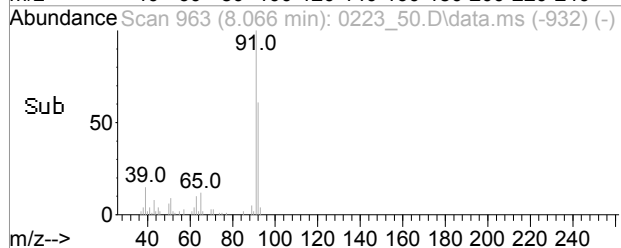
Tgt Ion: 117 Resp: 1545
Ion Ratio Lower Upper
117 100
119 96.0 75.0 115.0
121 16.3 10.5 50.5

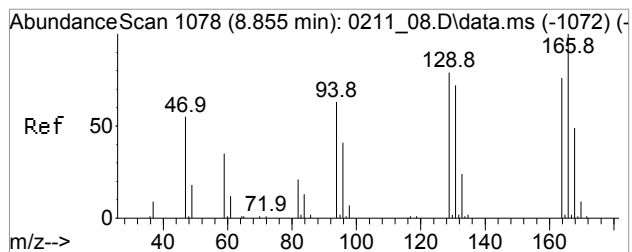


#48
Toluene
Concen: 0.58 ppbv
RT: 8.066 min Scan# 963
Delta R.T. 0.014 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

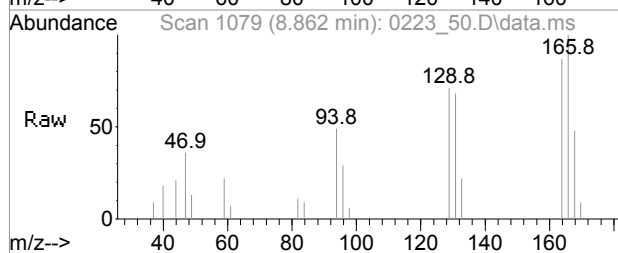


Tgt Ion: 91 Resp: 27240
Ion Ratio Lower Upper
91 100
92 60.0 45.4 68.0
65 13.2 11.8 17.6

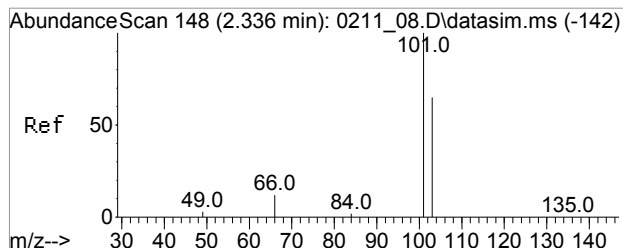
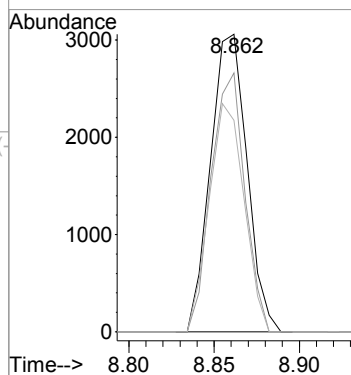
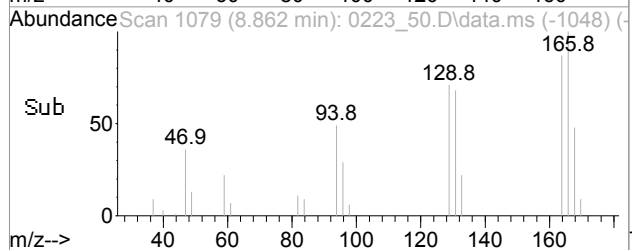




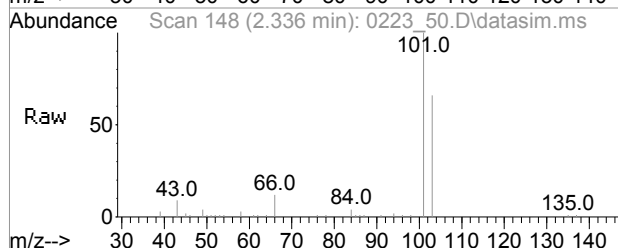
#52
Tetrachloroethene
Concen: Below Cal
RT: 8.862 min Scan# 1079
Delta R.T. 0.014 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm



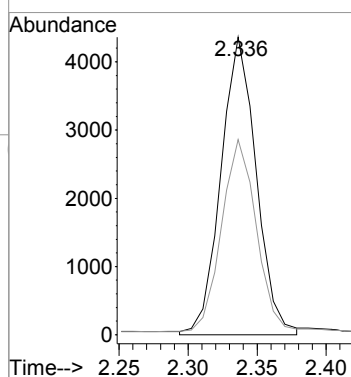
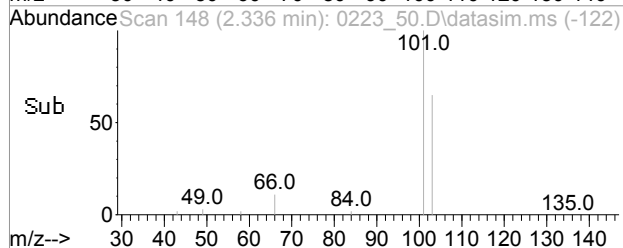
Tgt Ion:166 Resp: 4554
Ion Ratio Lower Upper
166 100
164 80.2 61.0 91.4
129 73.4 61.1 91.7

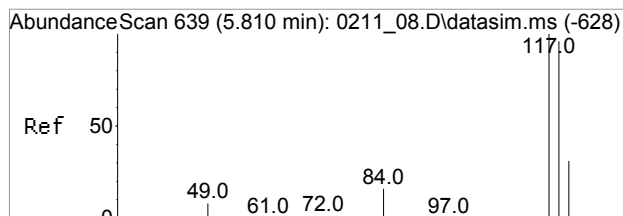


#84
Trichlorofluoromethane(sim)
Concen: 0.27 ppbv
RT: 2.333 min Scan# 148
Delta R.T. 0.017 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm

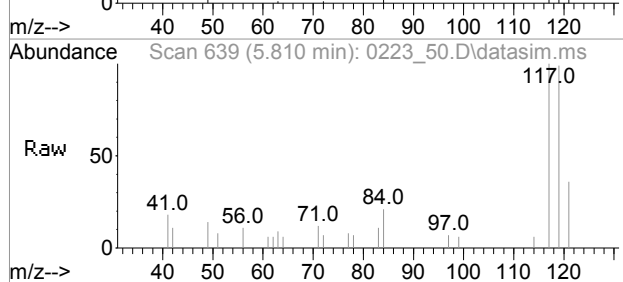


Tgt Ion:101 Resp: 7029
Ion Ratio Lower Upper
101 100
103 60.2 51.8 77.8

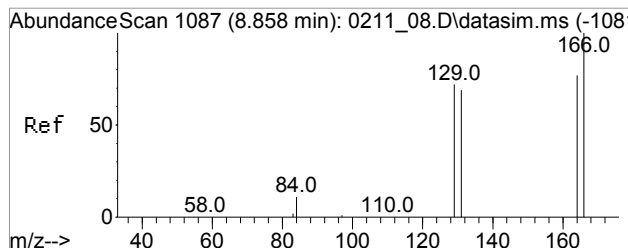
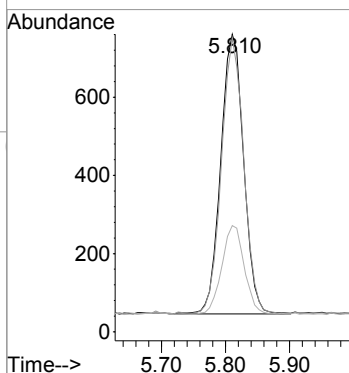
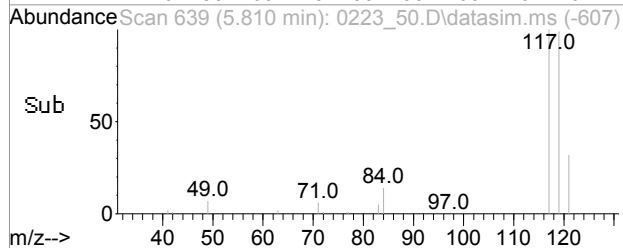




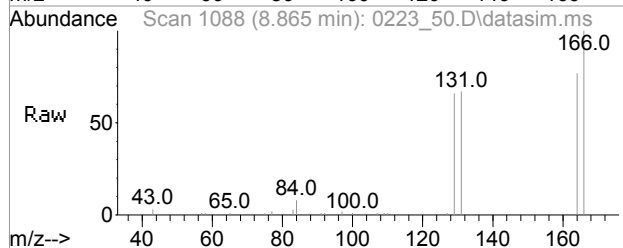
#91
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 5.810 min Scan# 639
Delta R.T. 0.021 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm



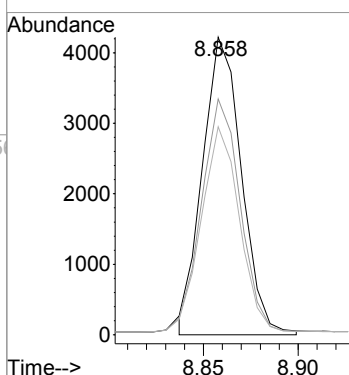
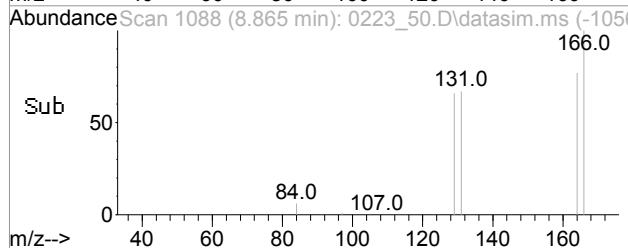
Tgt Ion: 117 Resp: 1760
Ion Ratio Lower Upper
117 100
119 95.9 76.9 115.3
121 31.8 24.6 36.8



#102
Tetrachloroethene(sim)
Concen: 0.14 ppbv
RT: 8.862 min Scan# 1088
Delta R.T. 0.014 min
Lab File: 0223_50.D
Acq: 24 Feb 2016 12:47 pm



Tgt Ion: 166 Resp: 4310
Ion Ratio Lower Upper
166 100
164 84.7 56.3 96.3
129 77.6 56.4 96.4



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK68461 BLANK
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK68461 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>0223_41.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>zb-1ms</u>	Date Received: <u>02/23/16</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/24/16</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK68461 BL</u>
Canister:	<u>BL</u>	Lab File ID:	<u>0223_41.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/23/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/24/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.140	B	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_41.D
 Acq On : 24 Feb 2016 6:57 am
 Operator : Keith
 Client ID : BK68461 BLANK
 Lab ID : BK68461 BLANK
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 24 14:29:41 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

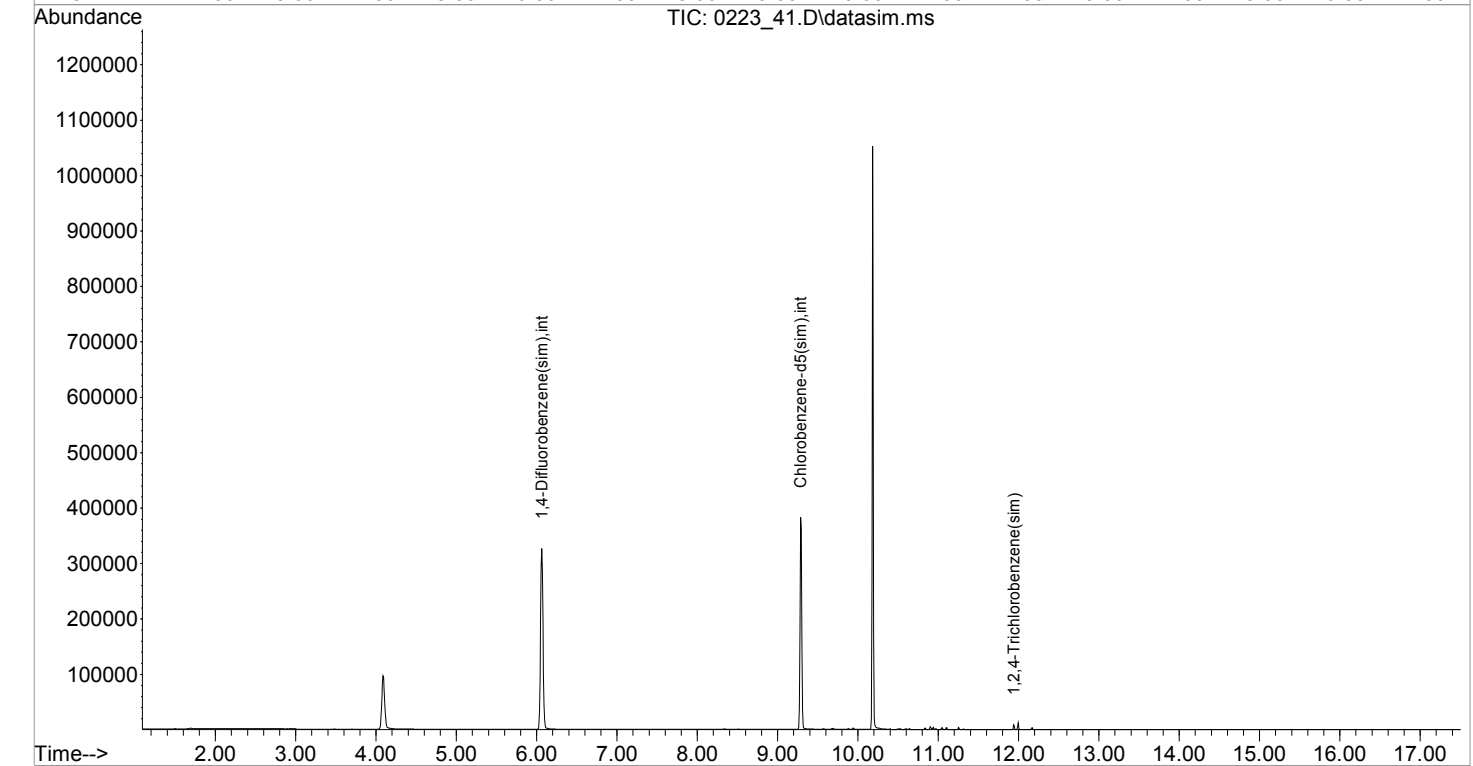
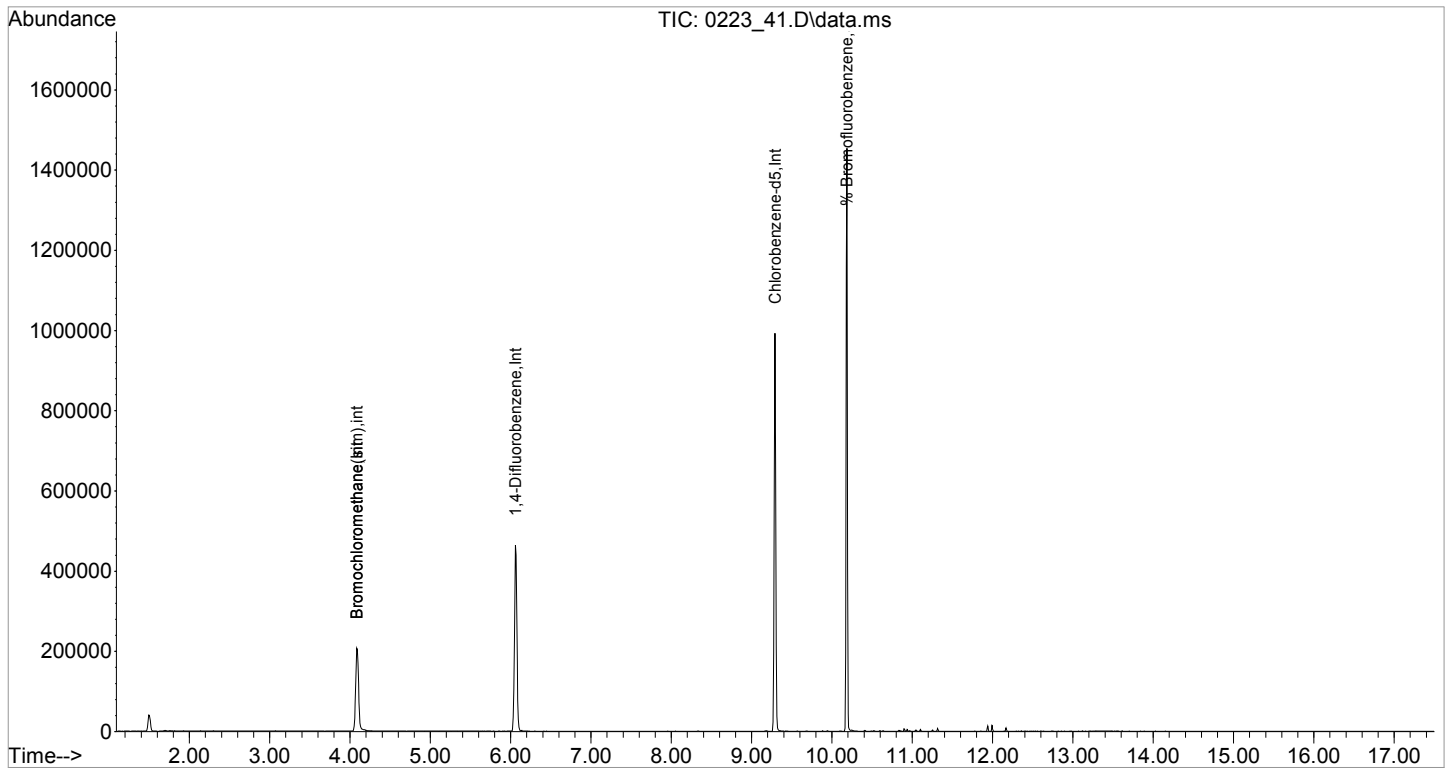
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.085	130	104190	10.000	ng	0.00
36) 1,4-Difluorobenzene	6.060	114	410941	10.000	ng	0.00
53) Chlorobenzene-d5	9.291	82	220184	10.000	ng	0.00
80) Bromochloromethane(sim)	4.085	130	104190	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	6.063	114	499396	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.286	82	252310	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.185	95	289012	9.892	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.90%	
Target Compounds						
					Qvalue	
117] 1,2,4-Trichlorobenzene...	11.941	180	3444	0.136	ppbv	99

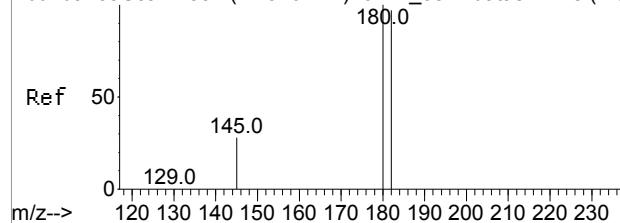
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_41.D
Acq On : 24 Feb 2016 6:57 am
Operator : Keith
Client ID : BK68461 BLANK
Lab ID : BK68461 BLANK
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 24 14:29:41 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration



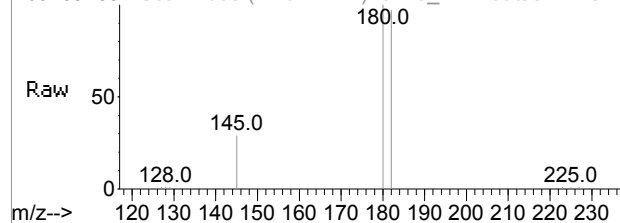
AbundanceScan 1584 (11.946 min): 0211_08.D\datasim.ms (-15



#117

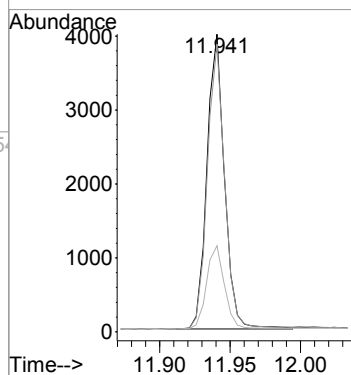
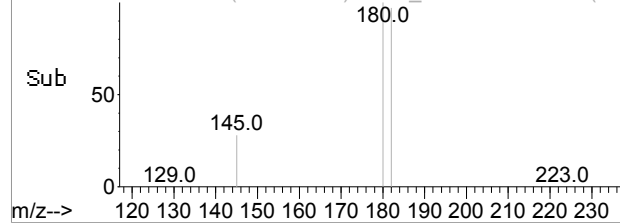
1,2,4-Trichlorobenzene(sim)
Concen: 0.14 ppbv
RT: 11.941 min Scan# 1583
Delta R.T. 0.005 min
Lab File: 0223_41.D
Acq: 24 Feb 2016 6:57 am

Abundance Scan 1583 (11.941 min): 0223_41.D\datasim.ms



Tgt Ion:	180	Resp:	3444
Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.5	115.5
145	29.0	7.8	47.8

AbundanceScan 1583 (11.941 min): 0223_41.D\datasim.ms (-15



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>	BK68461 DUP
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK68461 DUP</u>	
Canister:	<u>357</u>	Lab File ID:	<u>0223_51.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>zb-1ms</u>	Date Received:
				<u>02/23/16</u>
Purge Volume	<u>200</u>	(cc)		Date Analyzed:
				<u>02/24/16</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.370		0.202	0.202	r
74-87-3	Chloromethane	0.570		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.10	S	0.531	0.531	r
67-64-1	Acetone	2.20	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.240		0.178	0.178	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.390		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.550		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GBK67651</u>	Lab Sample ID:	<u>BK68461 DUP</u>
Canister:	<u>357</u>	Lab File ID:	<u>0223_51.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>zb-1ms</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>02/23/16</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/24/16</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.068		0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.082		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
 Data File : 0223_51.D
 Acq On : 24 Feb 2016 1:19 pm
 Operator : Keith
 Client ID : BK68461 DUP
 Lab ID : BK68461 DUP
 ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 24 14:32:37 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 24 09:11:11 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

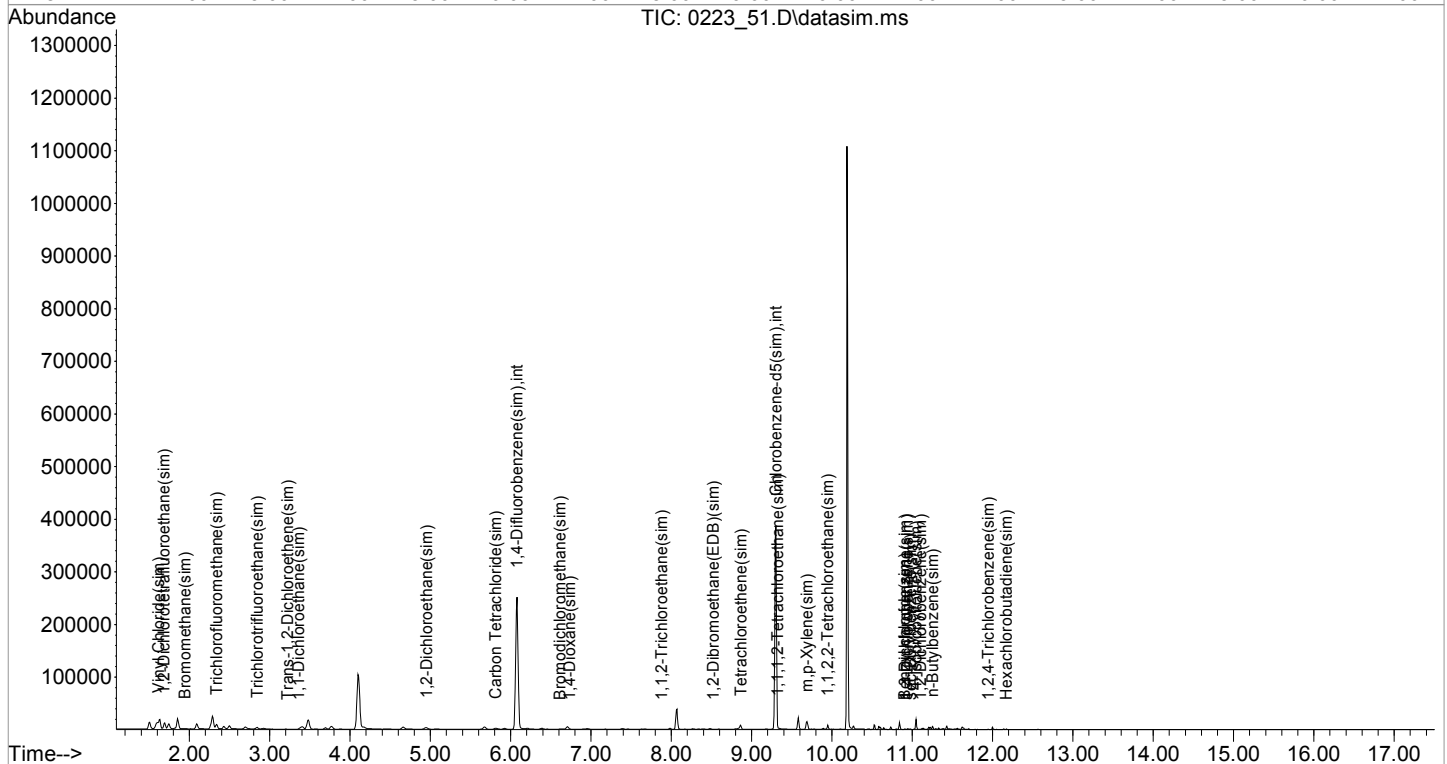
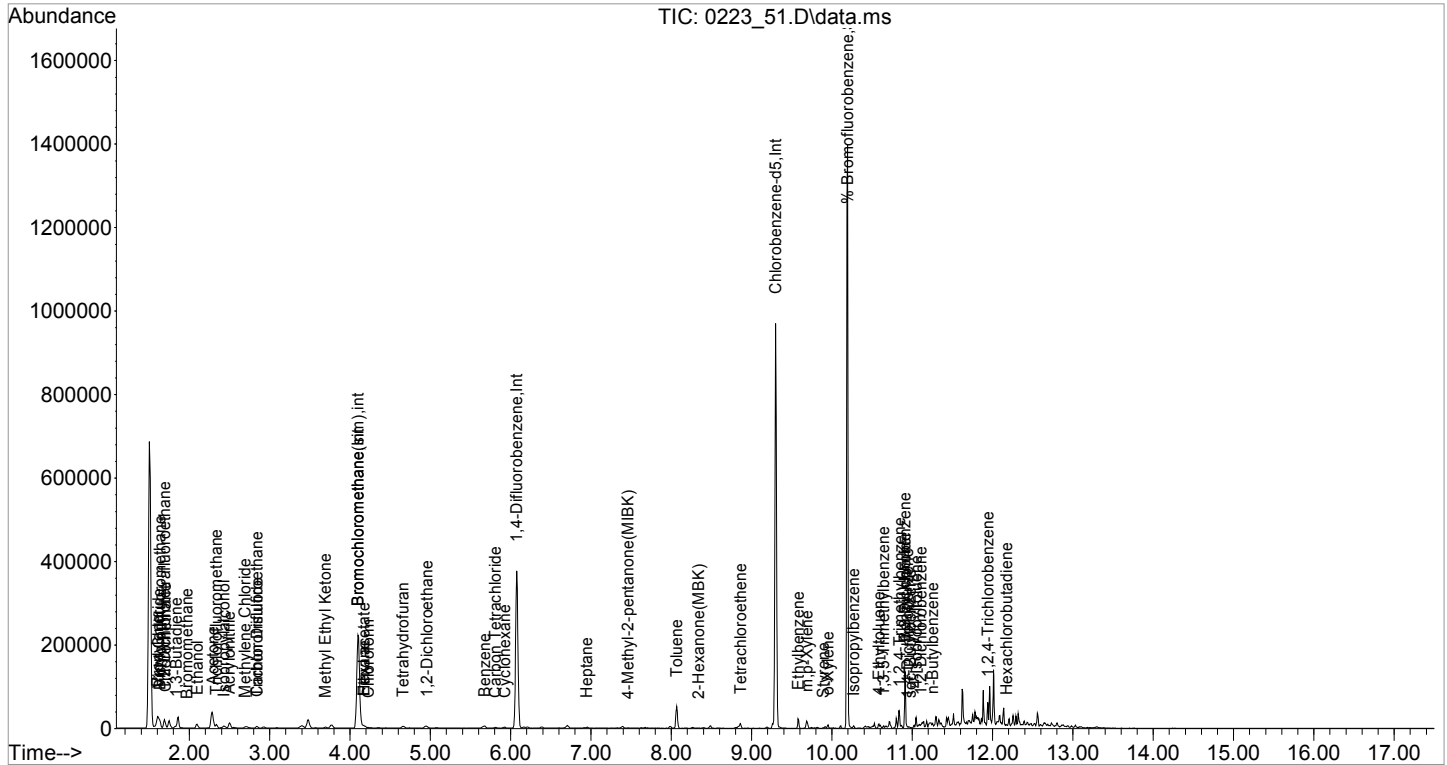
Internal Standards						
1) Bromochloromethane	4.098	130	109040	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.074	114	359564	10.000	ng	0.02
53) Chlorobenzene-d5	9.298	82	215627	10.000	ng	0.00
80) Bromochloromethane(sim)	4.098	130	109040	10.000	ng	0.02
93) 1,4-Difluorobenzene(sim)	6.077	114	399721	10.000	ng	# 0.02
103) Chlorobenzene-d5(sim)	9.301	82	251611	10.000	ng	0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	290071	10.138	ppbv	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.40%		
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.630	85	14400	0.369	ppbv	98
4) Chloromethane	1.698	52	1704	0.568	ppbv#	68
10) Ethanol	2.096	45	10429	3.077	ppbv	98
12) Acetone	2.291	43	35407	2.195	ppbv#	80
13) Trichlorofluoromethane	2.333	101	7048	0.244	ppbv	97
30) Tetrahydrofuran	4.658	42	3971	0.391	ppbv	88
34) Carbon Tetrachloride	5.807	117	1519	0.060	ppbv	95
48) Toluene	8.066	91	27104	0.553	ppbv	97
52) Tetrachloroethene	8.862	166	2643	0.080	ppbv	95
84] Trichlorofluoromethane...	2.333	101	7048	0.256	ppbv	98
91] Carbon Tetrachloride(sim)	5.810	117	1739	0.068	ppbv	99
102] Tetrachloroethene(sim)	8.862	166	2643	0.082	ppbv	93

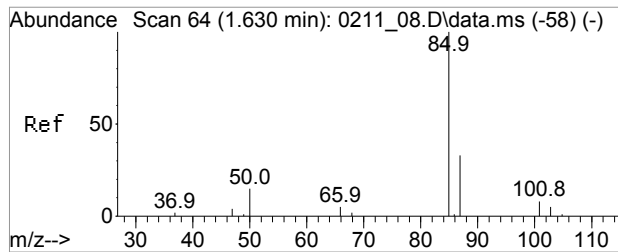
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\23A\
Data File : 0223_51.D
Acq On : 24 Feb 2016 1:19 pm
Operator : Keith
Client ID : BK68461 DUP
Lab ID : BK68461 DUP
ALS Vial : 39 Sample Multiplier: 1

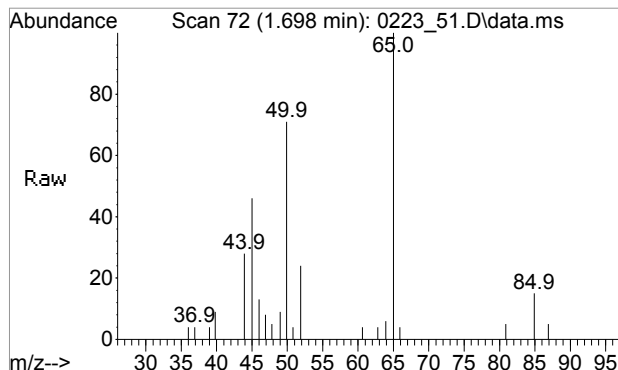
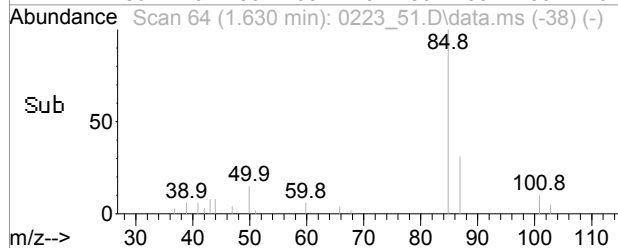
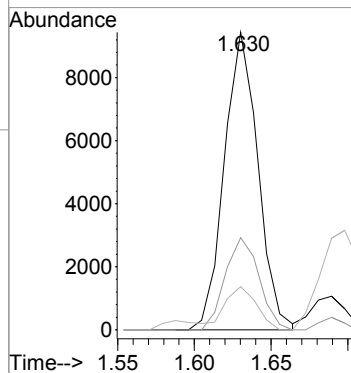
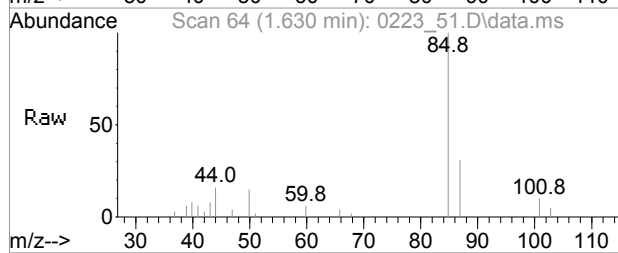
Quant Time: Feb 24 14:32:37 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\CTMANYNJ_0223.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Wed Feb 24 09:11:11 2016
Response via : Initial Calibration





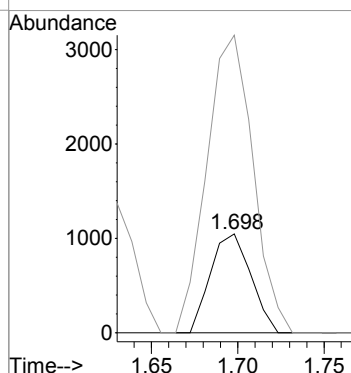
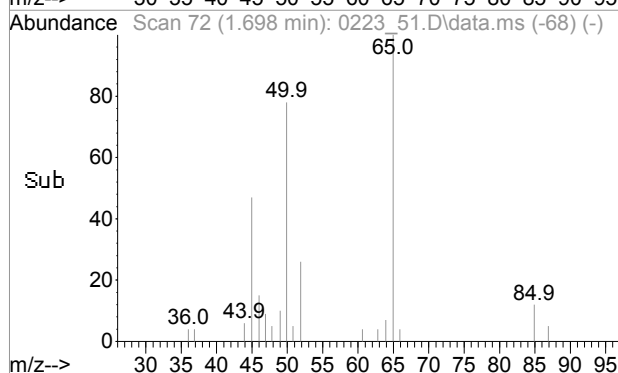
#3
Dichlorodifluoromethane
Concen: 0.37 ppbv
RT: 1.630 min Scan# 64
Delta R.T. 0.017 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

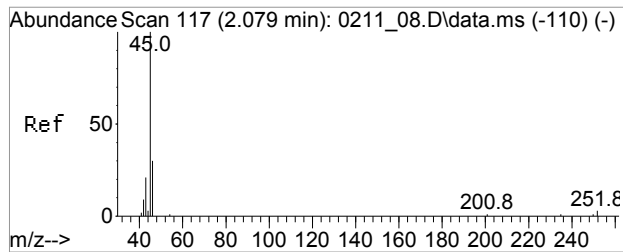
Tgt Ion: 85 Resp: 14400
Ion Ratio Lower Upper
85 100
87 31.2 25.7 38.5
50 13.8 11.9 17.9



#4
Chloromethane
Concen: 0.57 ppbv
RT: 1.698 min Scan# 72
Delta R.T. 0.017 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

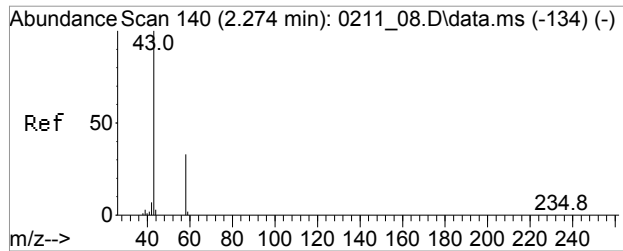
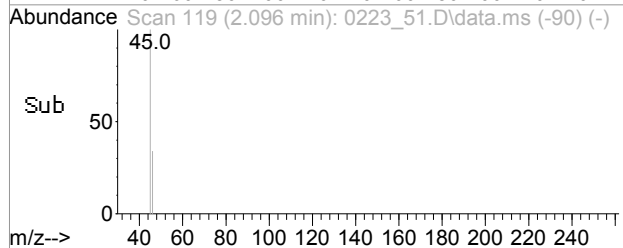
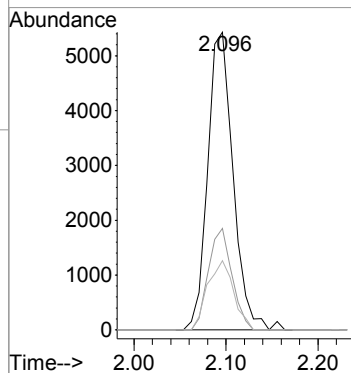
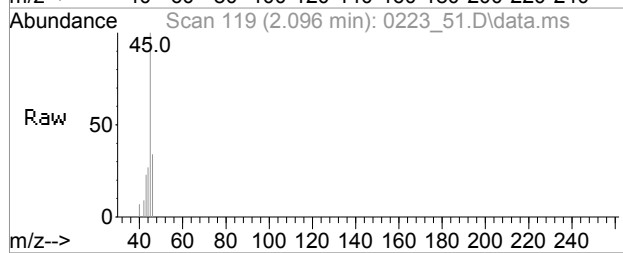
Tgt Ion: 52 Resp: 1704
Ion Ratio Lower Upper
52 100
50 344.4 263.8 303.8#





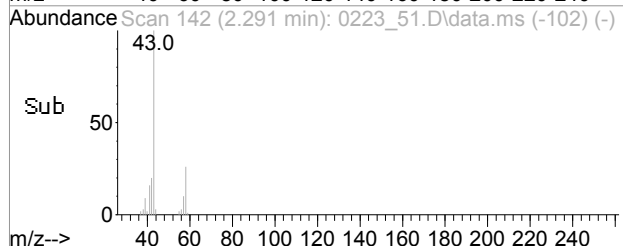
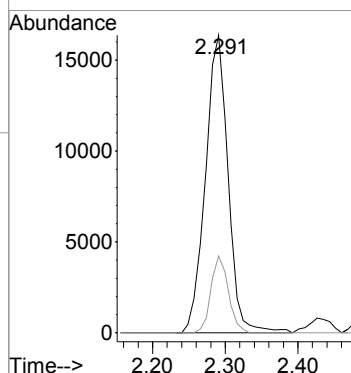
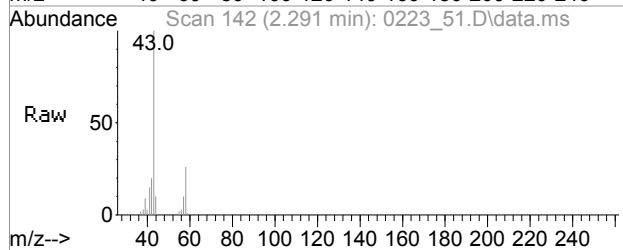
#10
Ethanol
Concen: 3.08 ppbv
RT: 2.096 min Scan# 119
Delta R.T. 0.042 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

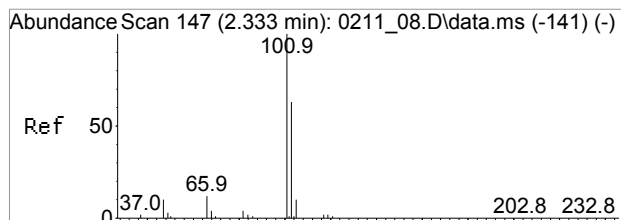
Tgt Ion: 45 Resp: 10429
Ion Ratio Lower Upper
45 100
46 31.5 24.2 36.4
43 23.9 19.7 29.5



#12
Acetone
Concen: 2.20 ppbv
RT: 2.291 min Scan# 142
Delta R.T. 0.043 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

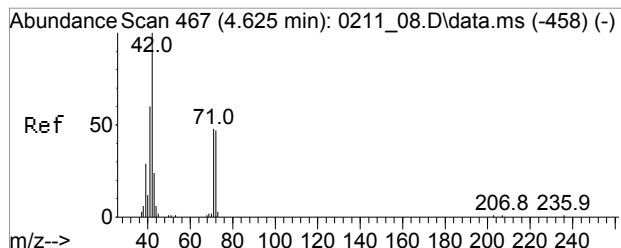
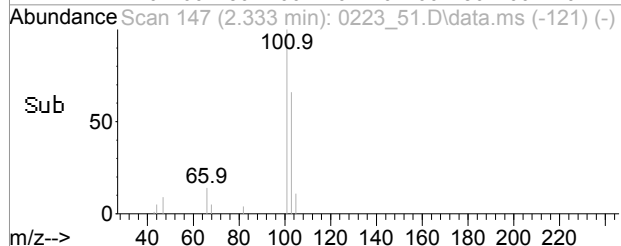
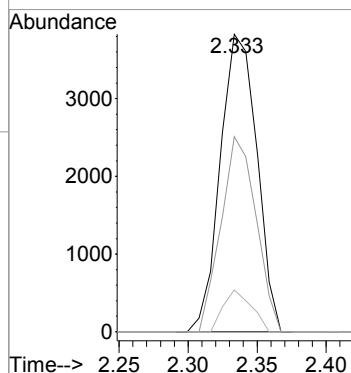
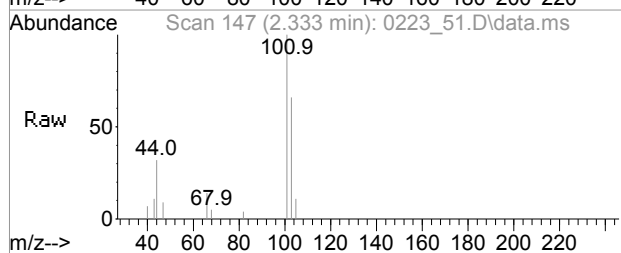
Tgt Ion: 43 Resp: 35407
Ion Ratio Lower Upper
43 100
58 19.8 24.8 37.2#





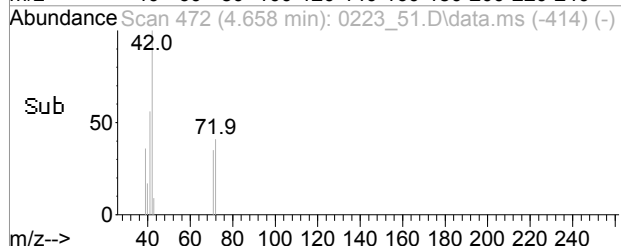
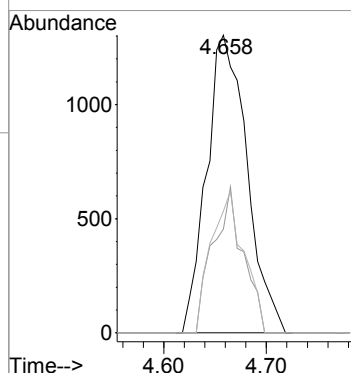
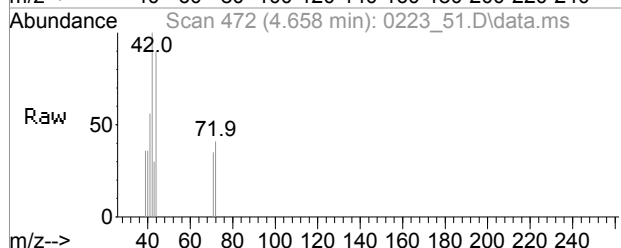
#13
Trichlorofluoromethane
Concen: 0.24 ppbv
RT: 2.333 min Scan# 147
Delta R.T. 0.017 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

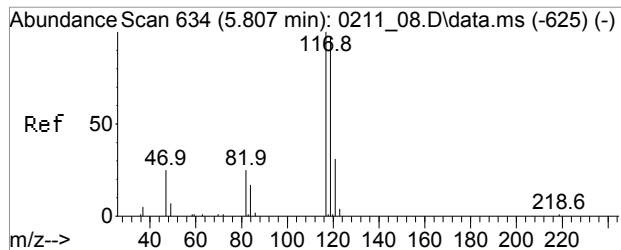
Tgt Ion: 101 Resp: 7048
Ion Ratio Lower Upper
101 100
103 63.0 51.8 77.8
66 10.9 10.2 15.2



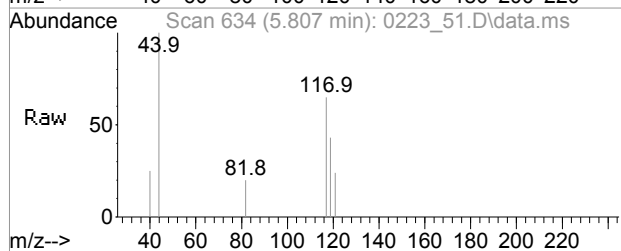
#30
Tetrahydrofuran
Concen: 0.39 ppbv
RT: 4.658 min Scan# 472
Delta R.T. 0.087 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

Tgt Ion: 42 Resp: 3971
Ion Ratio Lower Upper
42 100
71 38.5 37.9 56.9
72 40.6 38.2 57.4

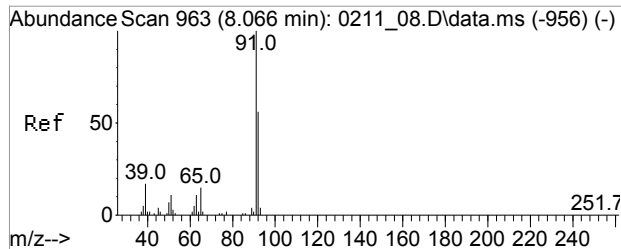
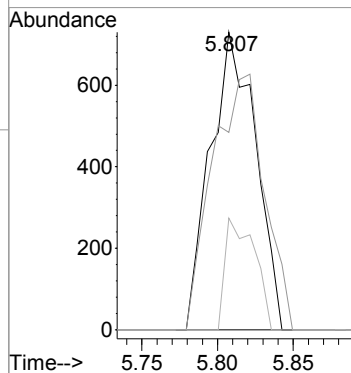
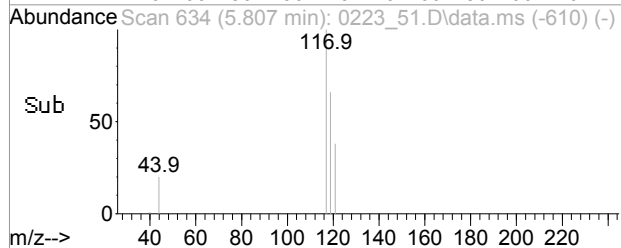




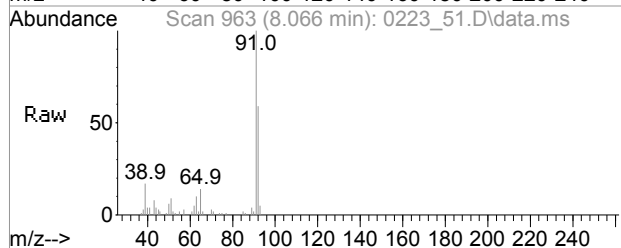
#34
Carbon Tetrachloride
Concen: Below Cal
RT: 5.807 min Scan# 634
Delta R.T. 0.021 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm



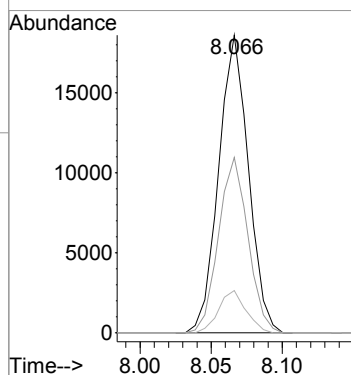
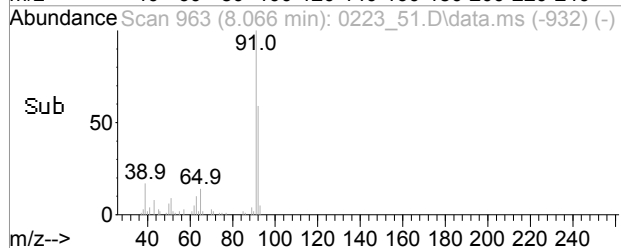
Tgt Ion: 117 Resp: 1519
Ion Ratio Lower Upper
117 100
119 98.4 75.0 115.0
121 24.5 10.5 50.5

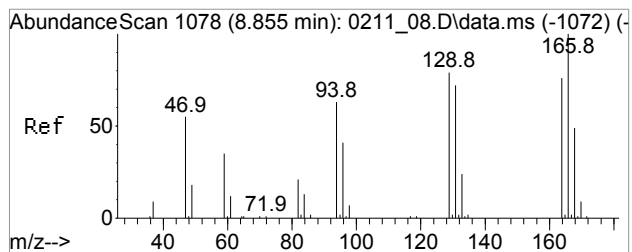


#48
Toluene
Concen: 0.55 ppbv
RT: 8.066 min Scan# 963
Delta R.T. 0.014 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

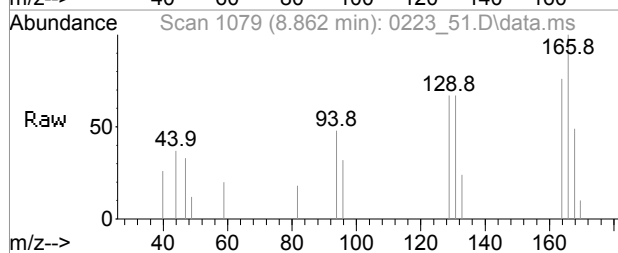


Tgt Ion: 91 Resp: 27104
Ion Ratio Lower Upper
91 100
92 58.4 45.4 68.0
65 13.1 11.8 17.6

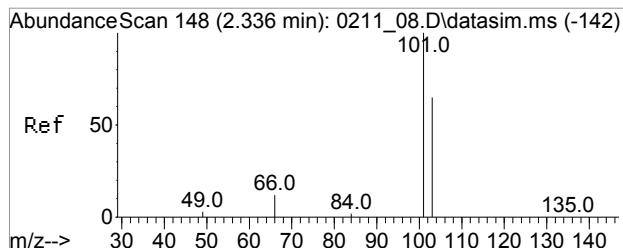
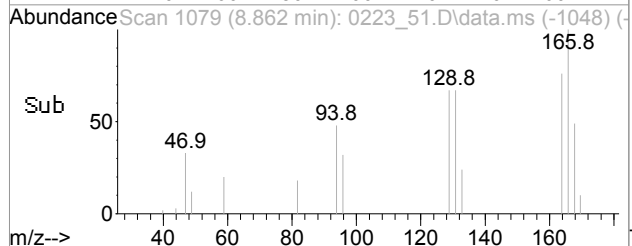
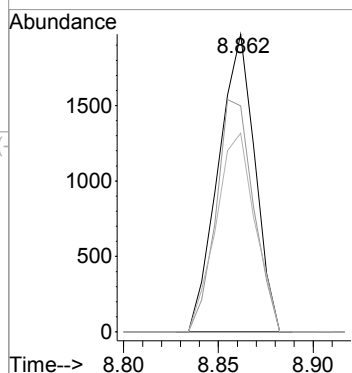




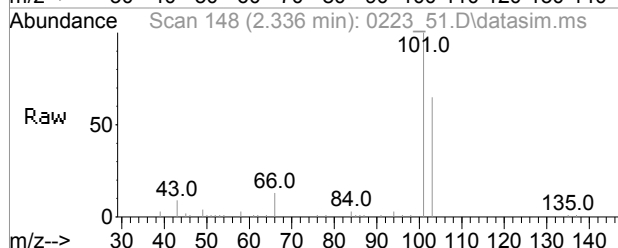
#52
Tetrachloroethene
Concen: Below Cal
RT: 8.862 min Scan# 1079
Delta R.T. 0.014 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm



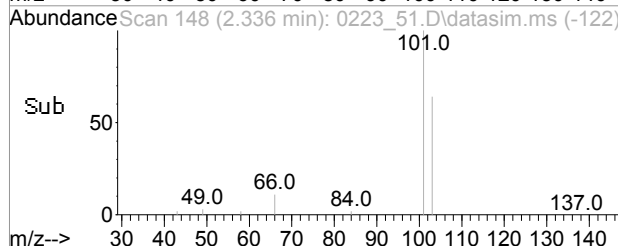
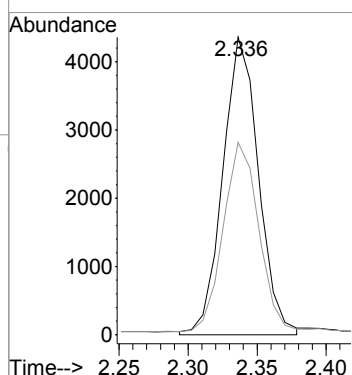
Tgt Ion:166 Resp: 2643
Ion Ratio Lower Upper
166 100
164 79.9 61.0 91.4
129 71.5 61.1 91.7

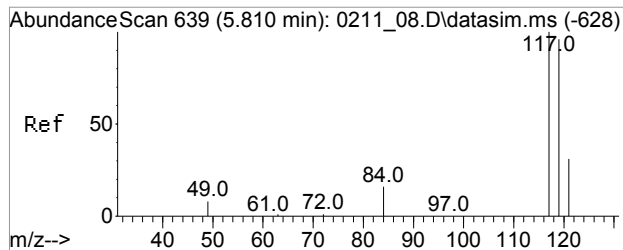


#84
Trichlorofluoromethane(sim)
Concen: 0.26 ppbv
RT: 2.333 min Scan# 148
Delta R.T. 0.017 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm



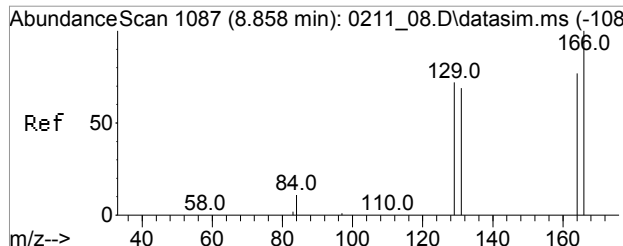
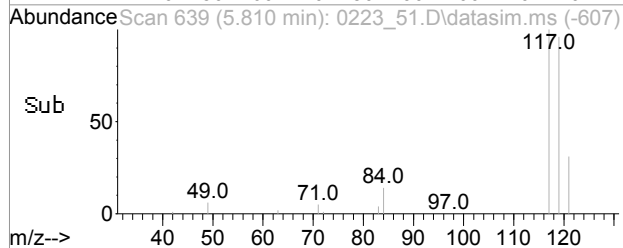
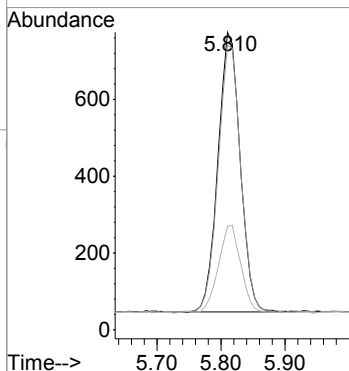
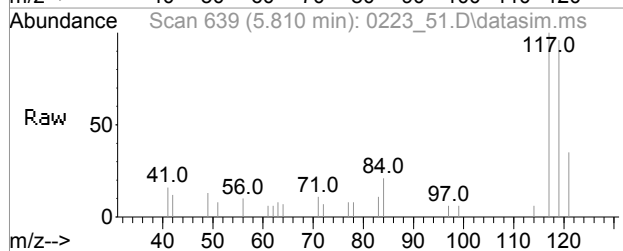
Tgt Ion:101 Resp: 7048
Ion Ratio Lower Upper
101 100
103 63.0 51.8 77.8





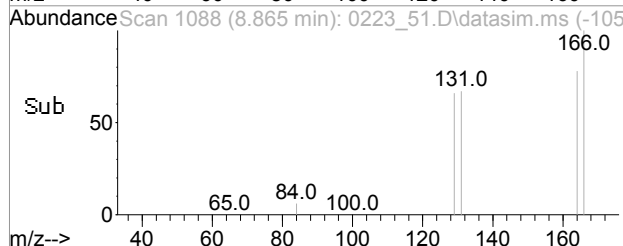
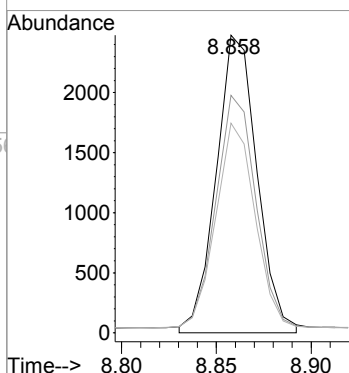
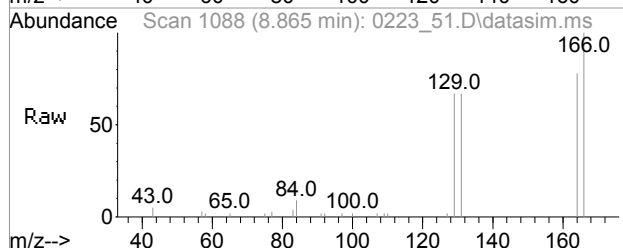
#91
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 5.810 min Scan# 639
Delta R.T. 0.021 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

Tgt Ion:117 Resp: 1739
Ion Ratio Lower Upper
117 100
119 97.5 76.9 115.3
121 31.1 24.6 36.8



#102
Tetrachloroethene(sim)
Concen: 0.08 ppbv
RT: 8.862 min Scan# 1088
Delta R.T. 0.014 min
Lab File: 0223_51.D
Acq: 24 Feb 2016 1:19 pm

Tgt Ion:166 Resp: 2643
Ion Ratio Lower Upper
166 100
164 68.8 56.3 96.3
129 71.5 56.4 96.4



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #112

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_08.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #112

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_08.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_08.D
 Acq On : 9 Feb 2016 9:04 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #11257
 Lab ID : CANISTER BLK CERT ; 6L #11257
 ALS Vial : 51 Sample Multiplier: 1

Quant Time: Feb 10 09:21:15 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

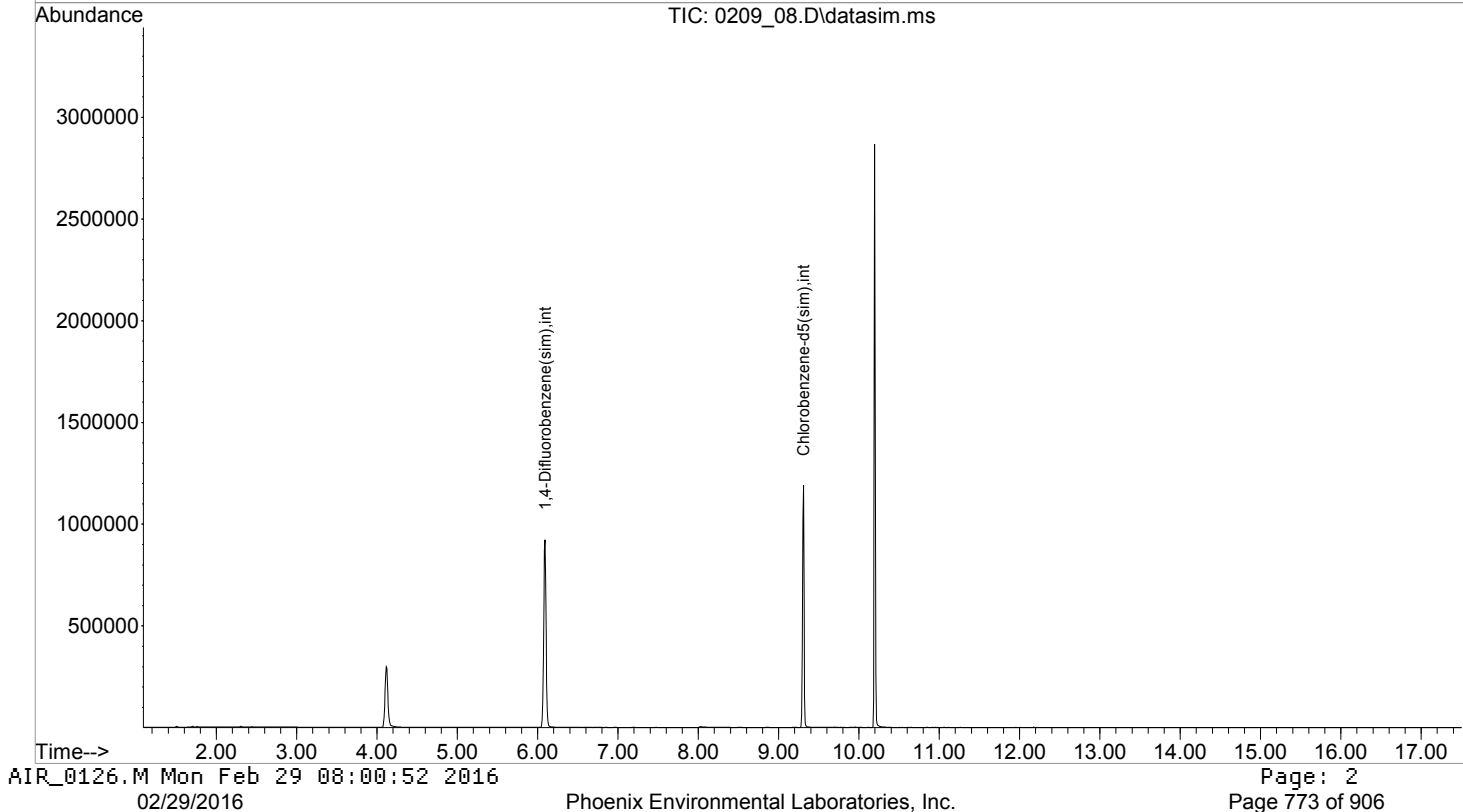
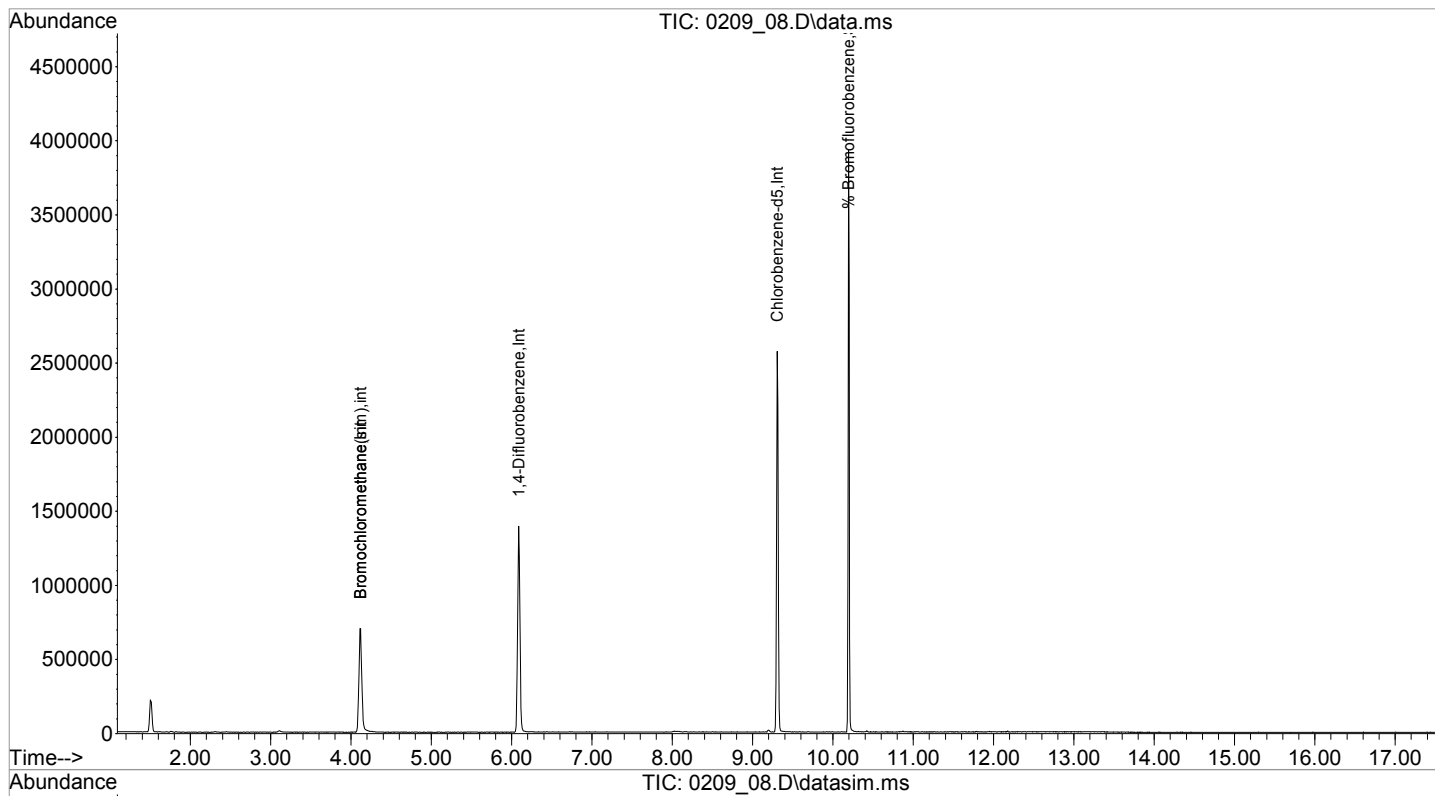
Internal Standards						
1) Bromochloromethane	4.118	130	321844	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1085941	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	624794	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	321844	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1307030	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	624794	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	781396	10.159	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 101.60%	

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```
Data Path : H:\AIR2016\CHEM24\02FEB\09\  
Data File : 0209_08.D  
Acq On : 9 Feb 2016 9:04 pm  
Operator : Keith  
Client ID : CANISTER BLK CERT ; 6L #11257  
Lab ID : CANISTER BLK CERT ; 6L #11257  
ALS Vial : 51 Sample Multiplier: 1
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Quant Time: Feb 10 09:21:15 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_09.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_09.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_09.D
 Acq On : 9 Feb 2016 9:36 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #12866
 Lab ID : CANISTER BLK CERT ; 6L #12866
 ALS Vial : 52 Sample Multiplier: 1

Quant Time: Feb 10 09:21:19 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

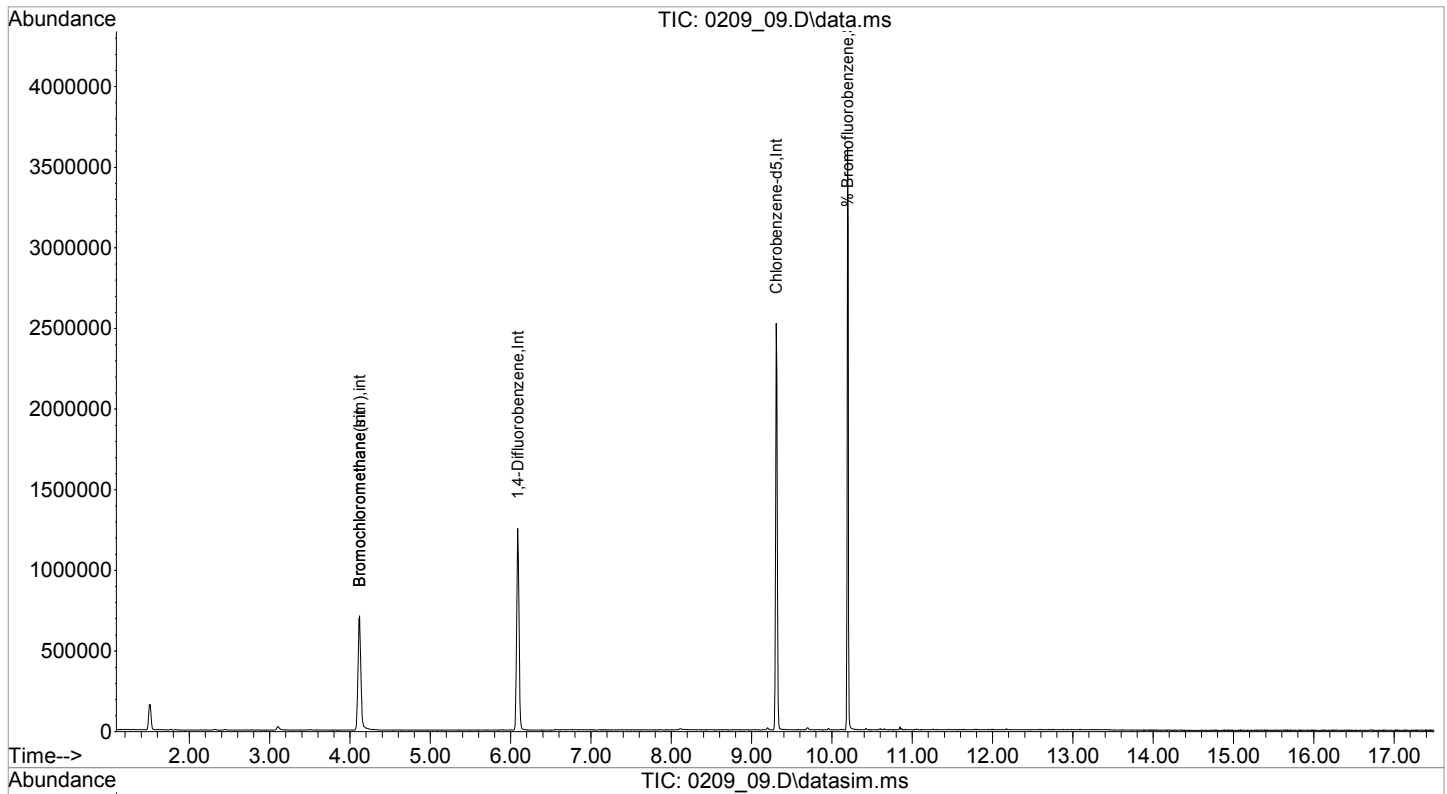
Internal Standards						
1) Bromochloromethane	4.118	130	322648	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1128202	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	609933	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	322648	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1266766	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	609933	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	746979	9.948	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.50%

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0209_09.D
Acq On : 9 Feb 2016 9:36 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #12866
Lab ID : CANISTER BLK CERT ; 6L #12866
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Feb 10 09:21:19 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #21

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_06.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #21

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_06.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_06.D
 Acq On : 9 Feb 2016 8:00 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #216
 Lab ID : CANISTER BLK CERT ; 6L #216
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Feb 10 09:21:09 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

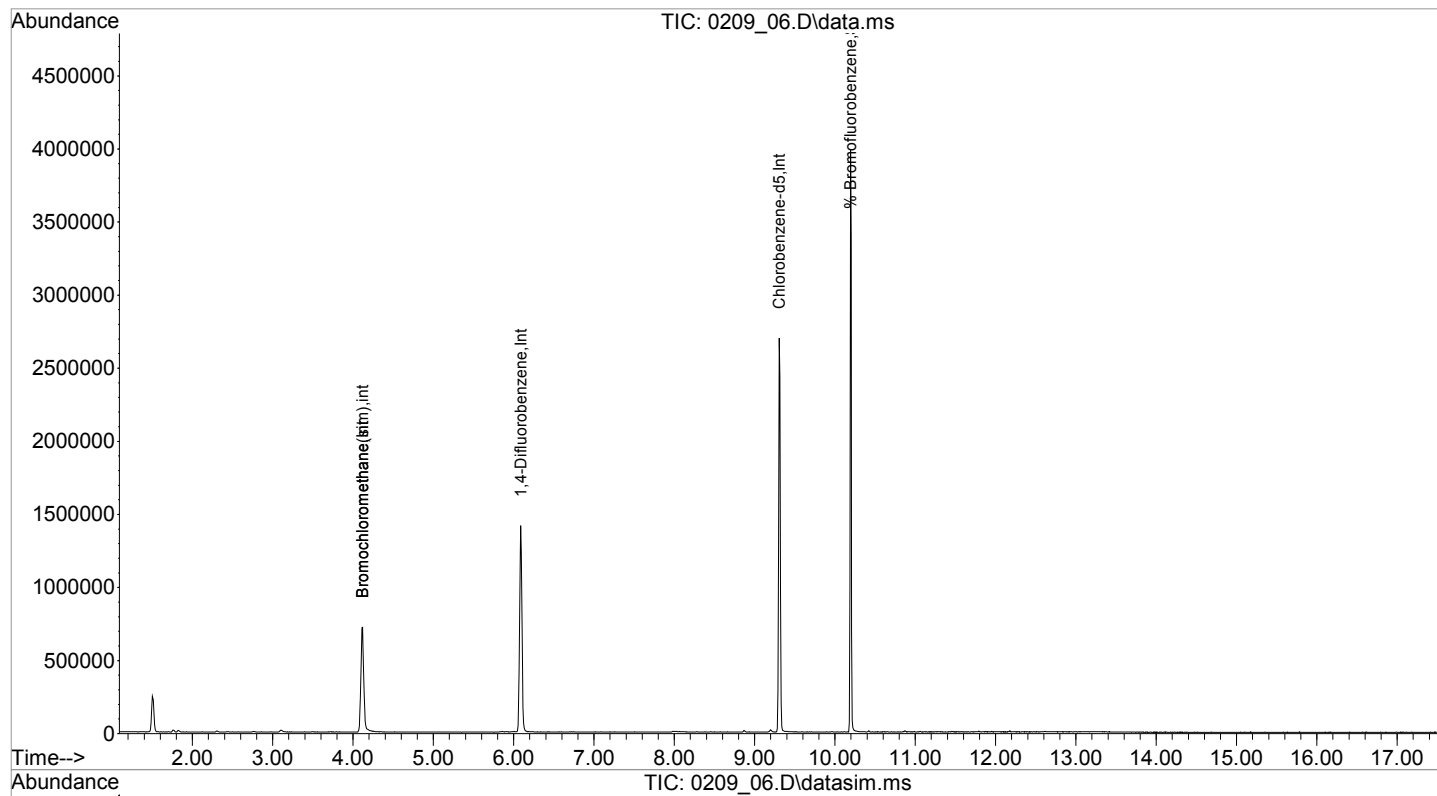
Internal Standards						
1) Bromochloromethane	4.118	130	329075	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1114928	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	651511	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	329075	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1351060	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	651511	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	814350	10.153	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 101.50%	

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0209_06.D
Acq On : 9 Feb 2016 8:00 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #216
Lab ID : CANISTER BLK CERT ; 6L #216
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Feb 10 09:21:09 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #21

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_05.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #21

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_05.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_05.D
 Acq On : 9 Feb 2016 7:27 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #217
 Lab ID : CANISTER BLK CERT ; 6L #217
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 10 09:21:06 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:29:57 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

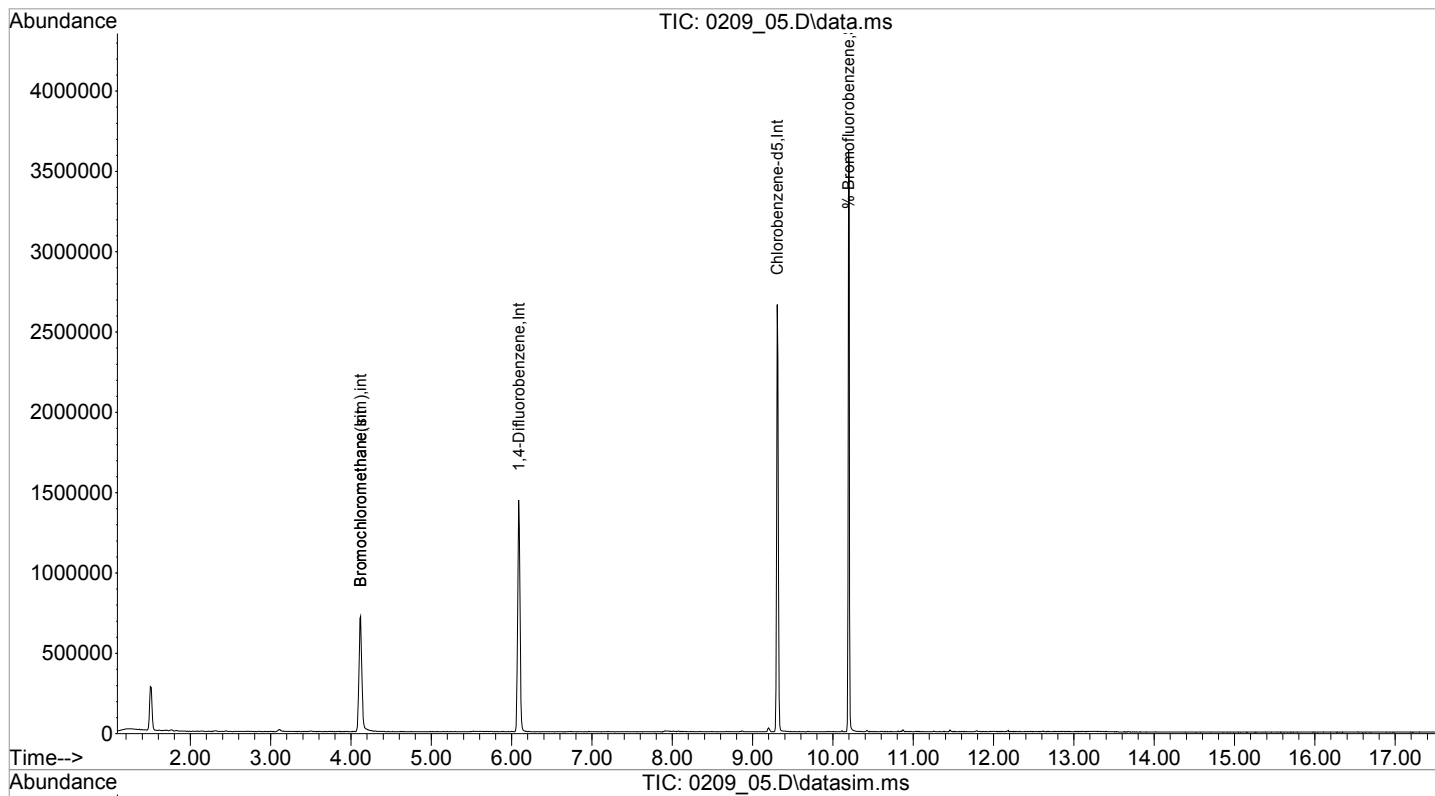
Internal Standards						
1) Bromochloromethane	4.118	130	328866	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1123462	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	639439	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	328866	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1355599	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	639439	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	797364	10.129	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.30%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_05.D
 Acq On : 9 Feb 2016 7:27 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #217
 Lab ID : CANISTER BLK CERT ; 6L #217
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 10 09:21:06 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:29:57 2016
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #22

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_12.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #22

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_12.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_12.D
 Acq On : 9 Feb 2016 11:13 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #221
 Lab ID : CANISTER BLK CERT ; 6L #221
 ALS Vial : 55 Sample Multiplier: 1

Quant Time: Feb 10 09:21:26 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

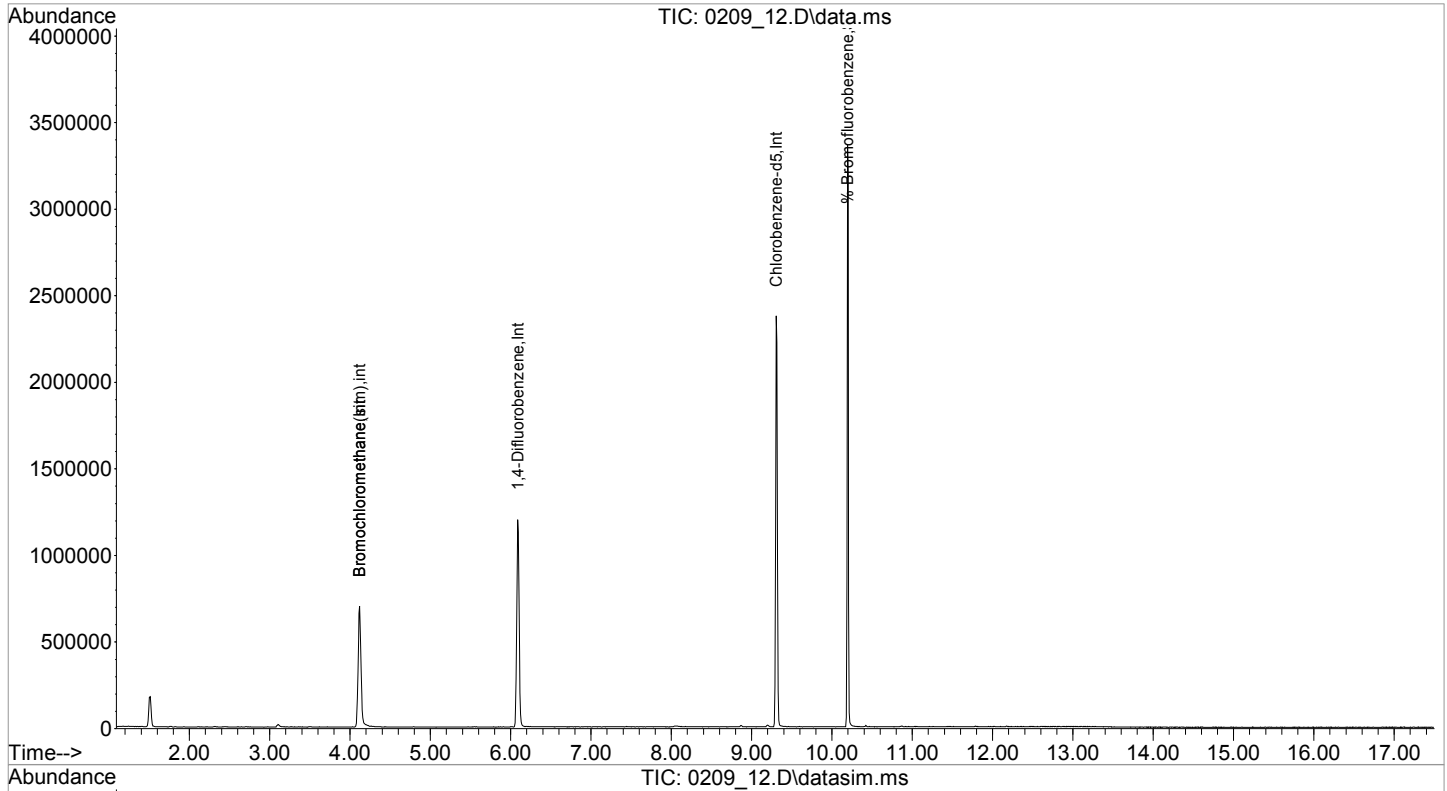
Internal Standards						
1) Bromochloromethane	4.118	130	314037	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1143399	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	590256	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	314037	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1237002	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	590256	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	728706	10.028	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.30%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0209_12.D
Acq On : 9 Feb 2016 11:13 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #221
Lab ID : CANISTER BLK CERT ; 6L #221
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Feb 10 09:21:26 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #36

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_07.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #36

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_07.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.052		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_07.D
 Acq On : 9 Feb 2016 8:32 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #367
 Lab ID : CANISTER BLK CERT ; 6L #367
 ALS Vial : 50 Sample Multiplier: 1

Quant Time: Feb 10 09:21:12 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

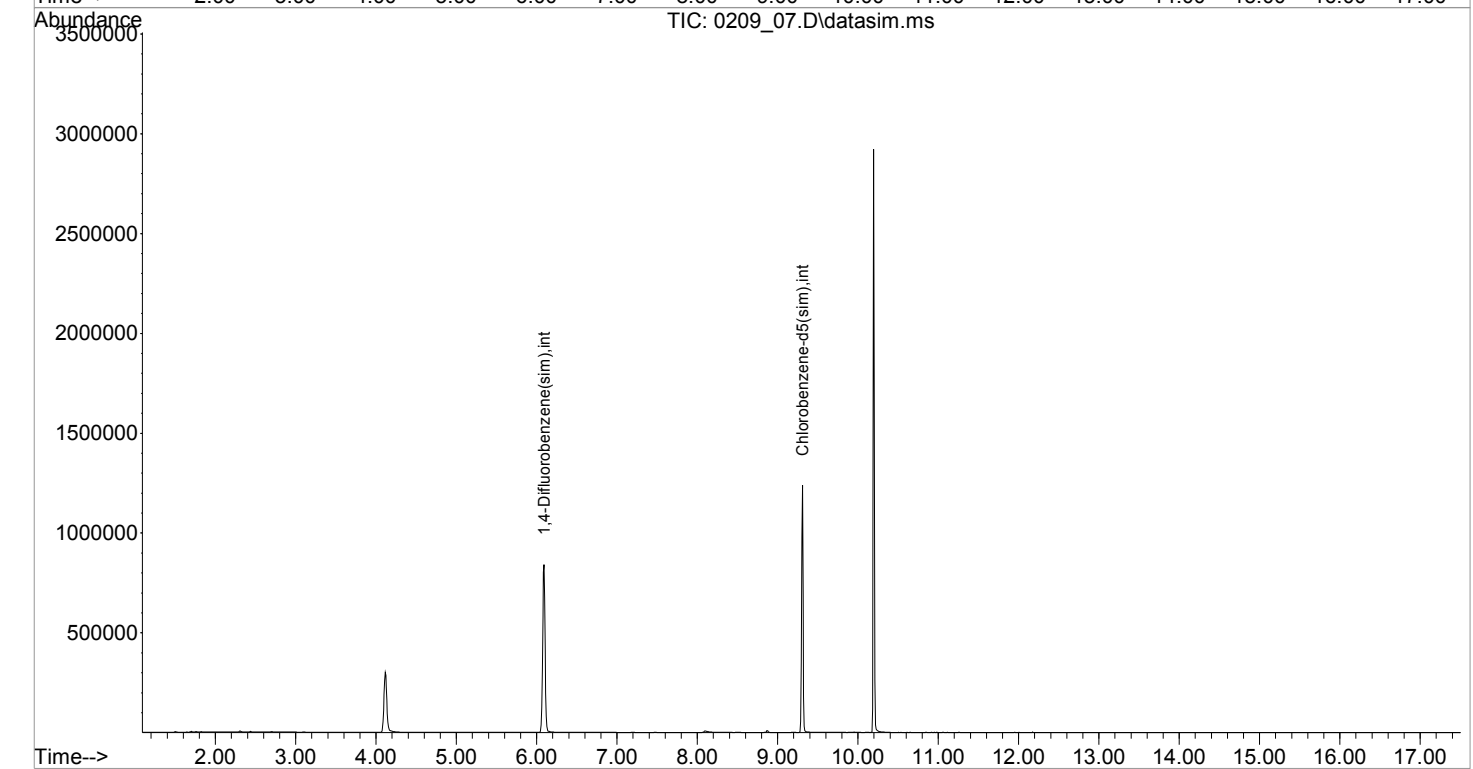
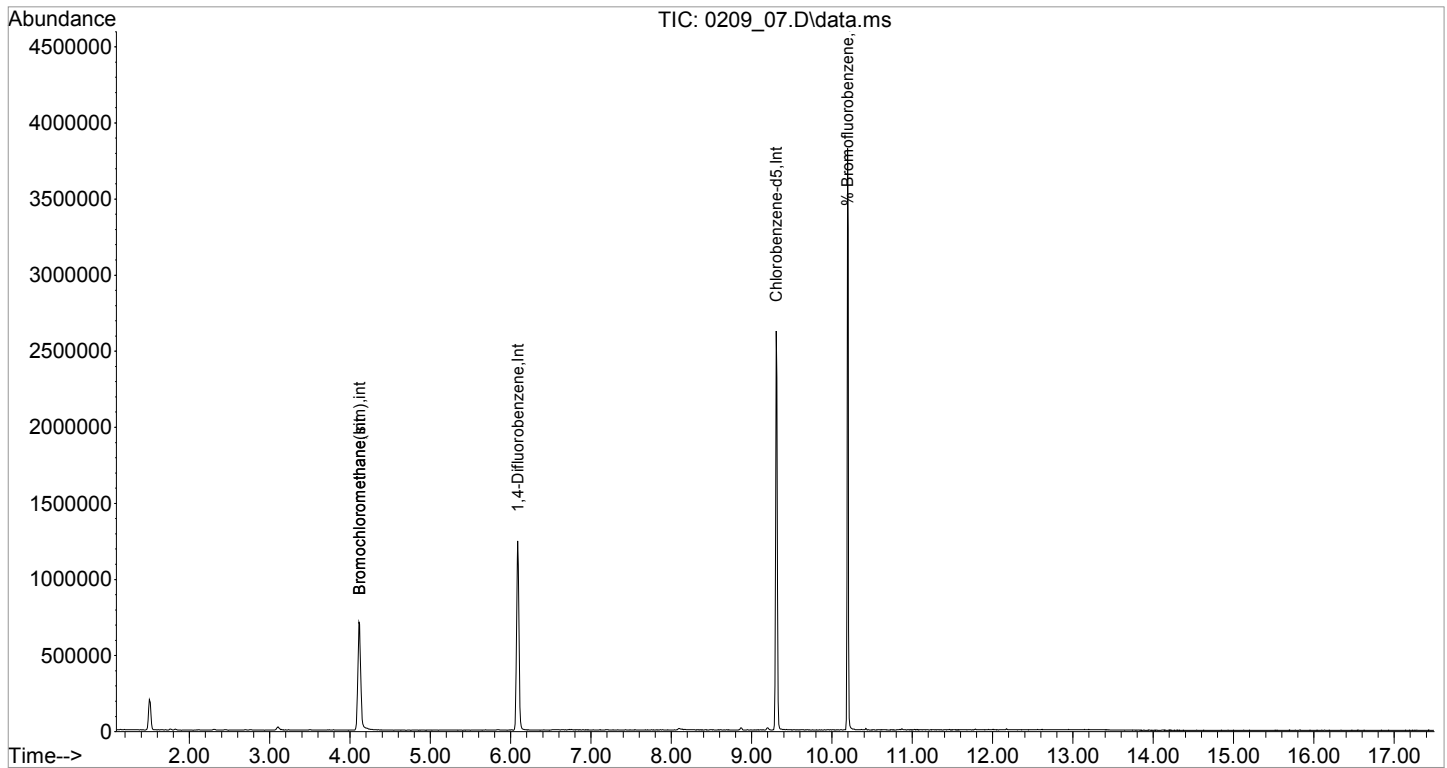
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

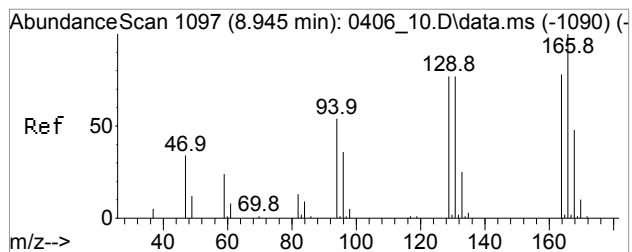
Internal Standards						
1) Bromochloromethane	4.118	130	326969	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1129587	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	635897	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	326969	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1287651	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	635897	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	788687	10.075	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	= 100.70%	
Target Compounds						
						Qvalue
52) Tetrachloroethene	8.869	166	2961	0.041	ppbv	92
93] Tetrachloroethene(sim)	8.872	166	4288	0.052	ppbv	96

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0209_07.D
Acq On : 9 Feb 2016 8:32 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #367
Lab ID : CANISTER BLK CERT ; 6L #367
ALS Vial : 50 Sample Multiplier: 1

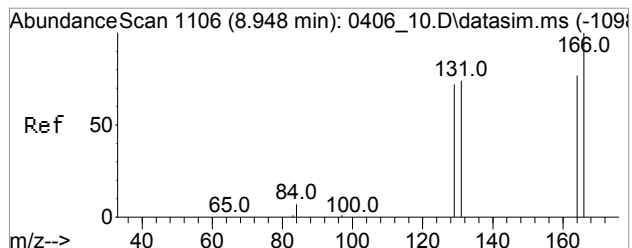
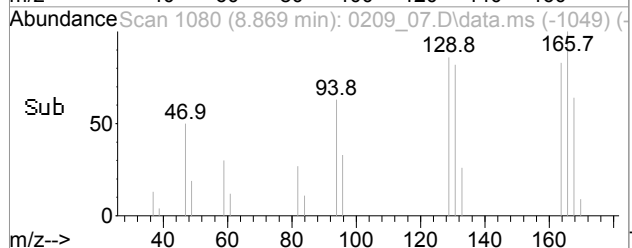
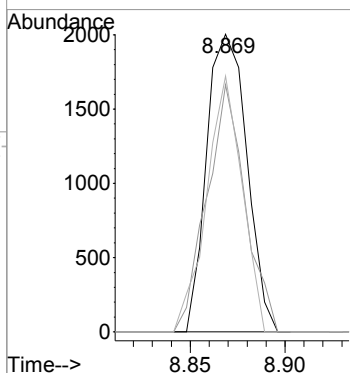
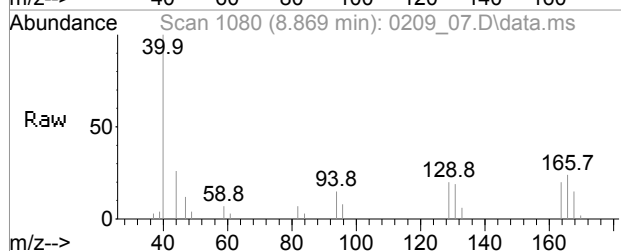
Quant Time: Feb 10 09:21:12 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration





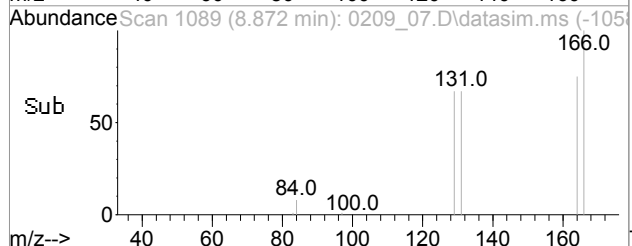
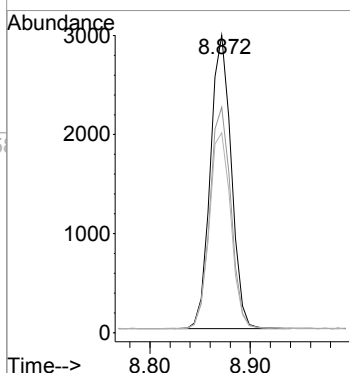
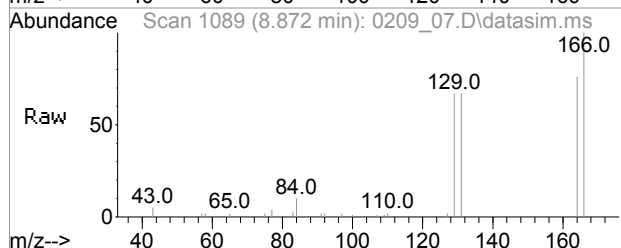
#52
Tetrachloroethene
Concen: Below Cal
RT: 8.869 min Scan# 1080
Delta R.T. 0.014 min
Lab File: 0209_07.D
Acq: 9 Feb 2016 8:32 pm

Tgt Ion:166 Resp: 2961
Ion Ratio Lower Upper
166 100
164 79.2 60.7 91.1
129 75.9 52.1 78.1



#93
Tetrachloroethene(sim)
Concen: 0.05 ppbv
RT: 8.872 min Scan# 1089
Delta R.T. 0.014 min
Lab File: 0209_07.D
Acq: 9 Feb 2016 8:32 pm

Tgt Ion:166 Resp: 4288
Ion Ratio Lower Upper
166 100
164 75.8 54.9 94.9
129 68.8 43.5 83.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #45

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_13.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #45

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_13.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/09/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_13.D
 Acq On : 9 Feb 2016 11:46 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #457
 Lab ID : CANISTER BLK CERT ; 6L #457
 ALS Vial : 56 Sample Multiplier: 1

Quant Time: Feb 10 09:21:29 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.118	130	319185	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1001994	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	596778	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	319185	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1238619	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	596778	10.000	ng	# 0.00

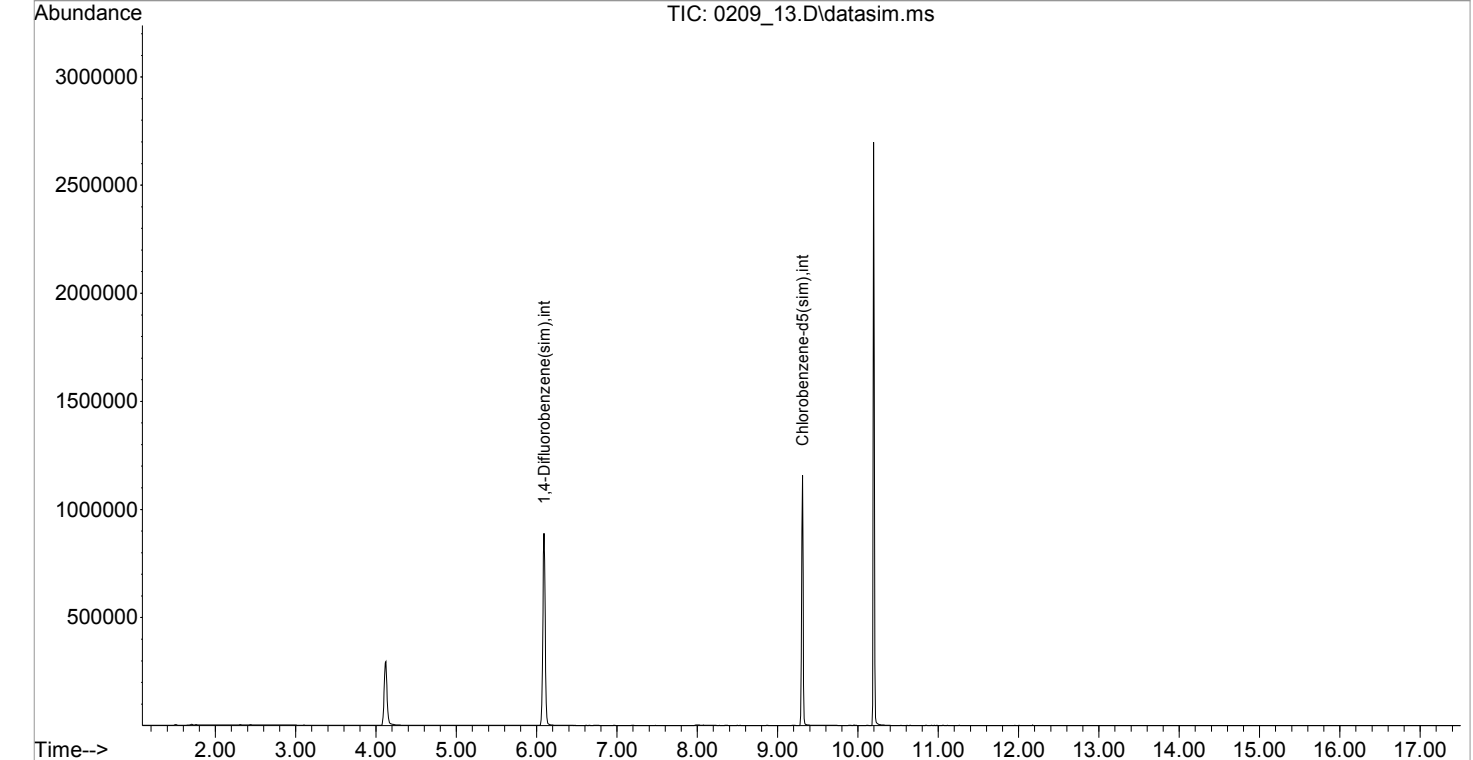
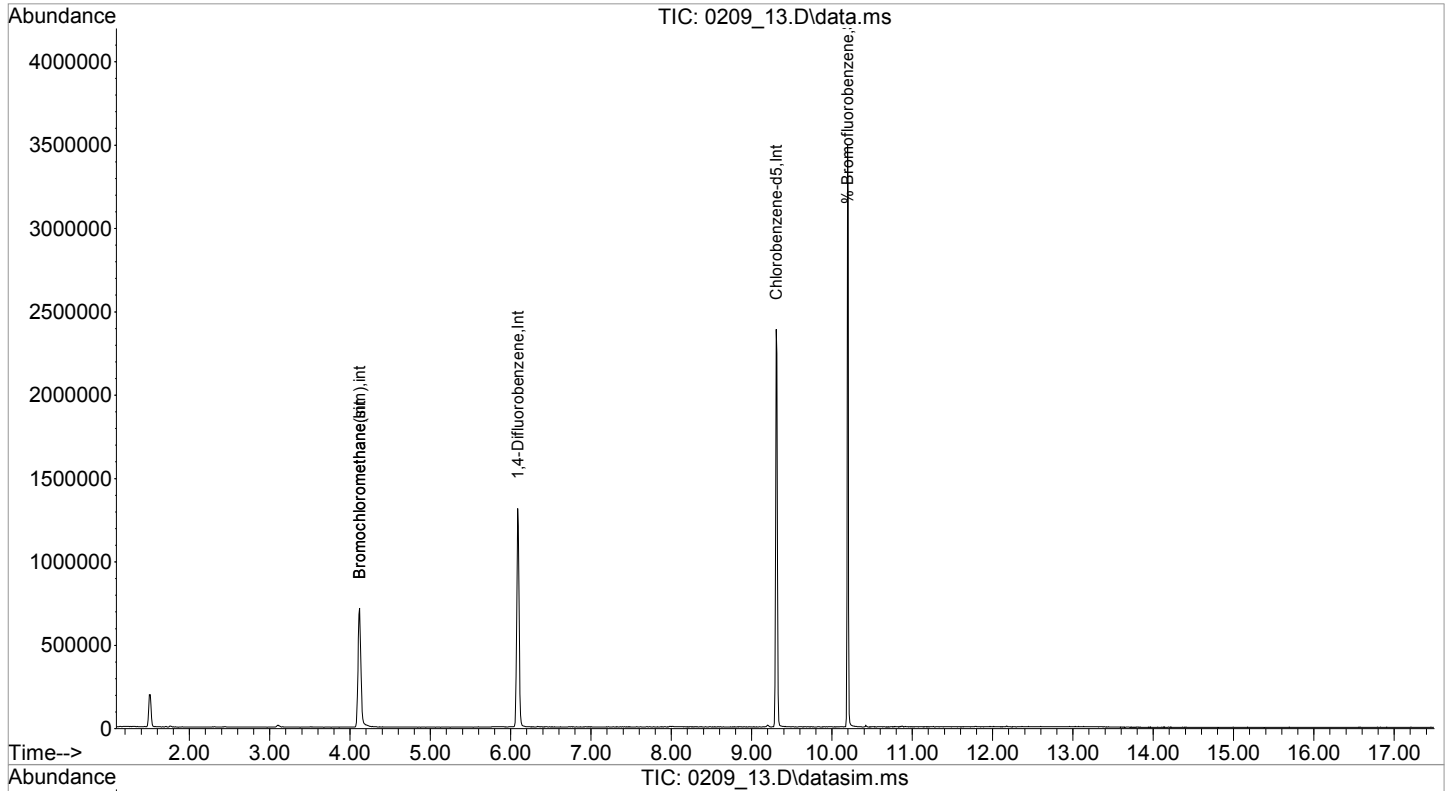
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	735050	10.005	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.10%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0209_13.D
Acq On : 9 Feb 2016 11:46 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #457
Lab ID : CANISTER BLK CERT ; 6L #457
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Feb 10 09:21:29 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_18.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_18.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_18.D
 Acq On : 10 Feb 2016 6:29 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #12855
 Lab ID : CANISTER BLK CERT ; 6L #12855
 ALS Vial : 76 Sample Multiplier: 1

Quant Time: Feb 11 11:10:59 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

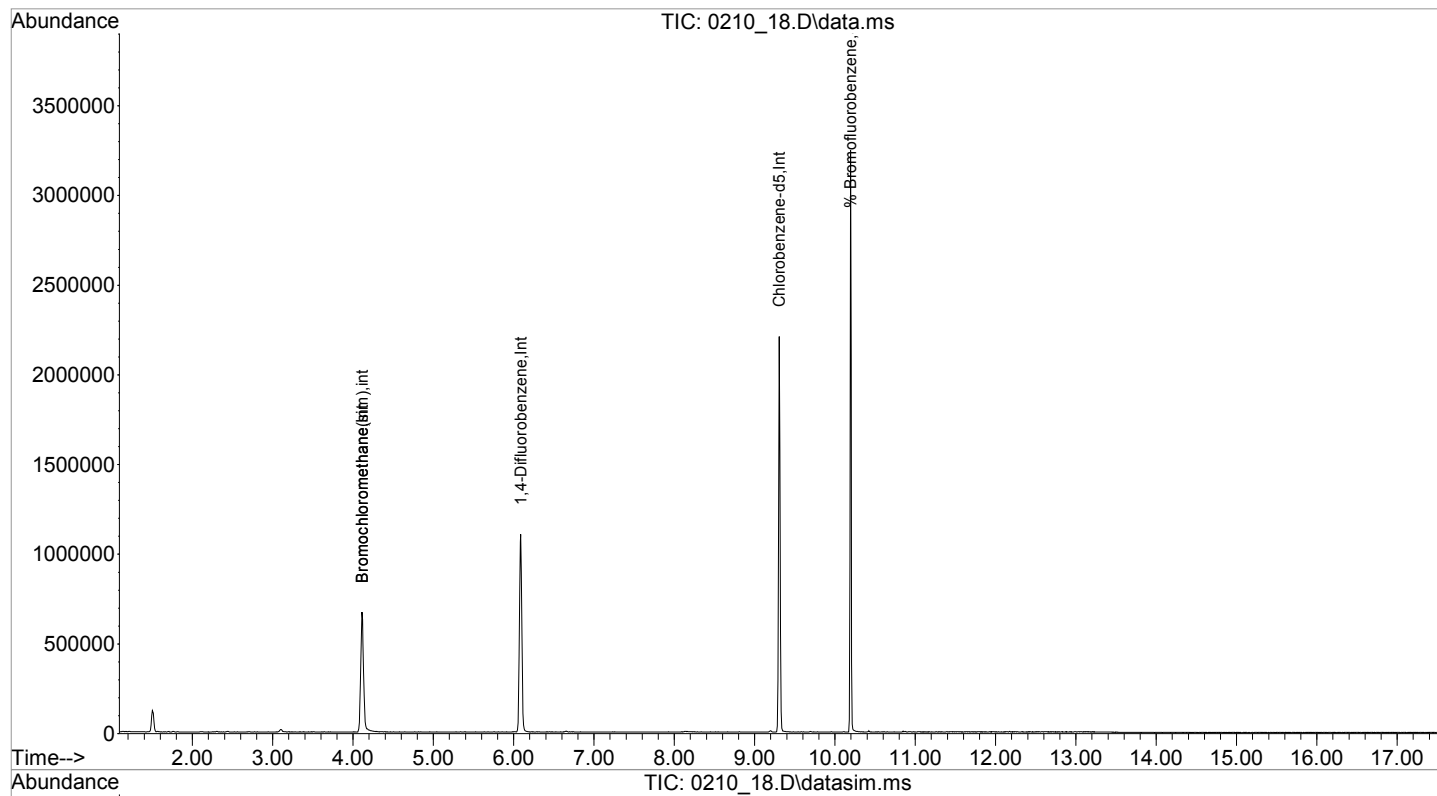
Internal Standards						
1) Bromochloromethane	4.111	130	293065	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.088	114	1009282	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	489382	10.000	ng	0.00
80) Bromochloromethane(sim)	4.111	130	293065	10.000	ng	0.01
87) 1,4-Difluorobenzene(sim)	6.091	114	1158812	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	489382	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	594173	9.862	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.60%	

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_18.D
Acq On : 10 Feb 2016 6:29 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #12855
Lab ID : CANISTER BLK CERT ; 6L #12855
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Feb 11 11:10:59 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_10.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_10.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_10.D
 Acq On : 10 Feb 2016 2:13 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #12862
 Lab ID : CANISTER BLK CERT ; 6L #12862
 ALS Vial : 68 Sample Multiplier: 1

Quant Time: Feb 11 14:28:42 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

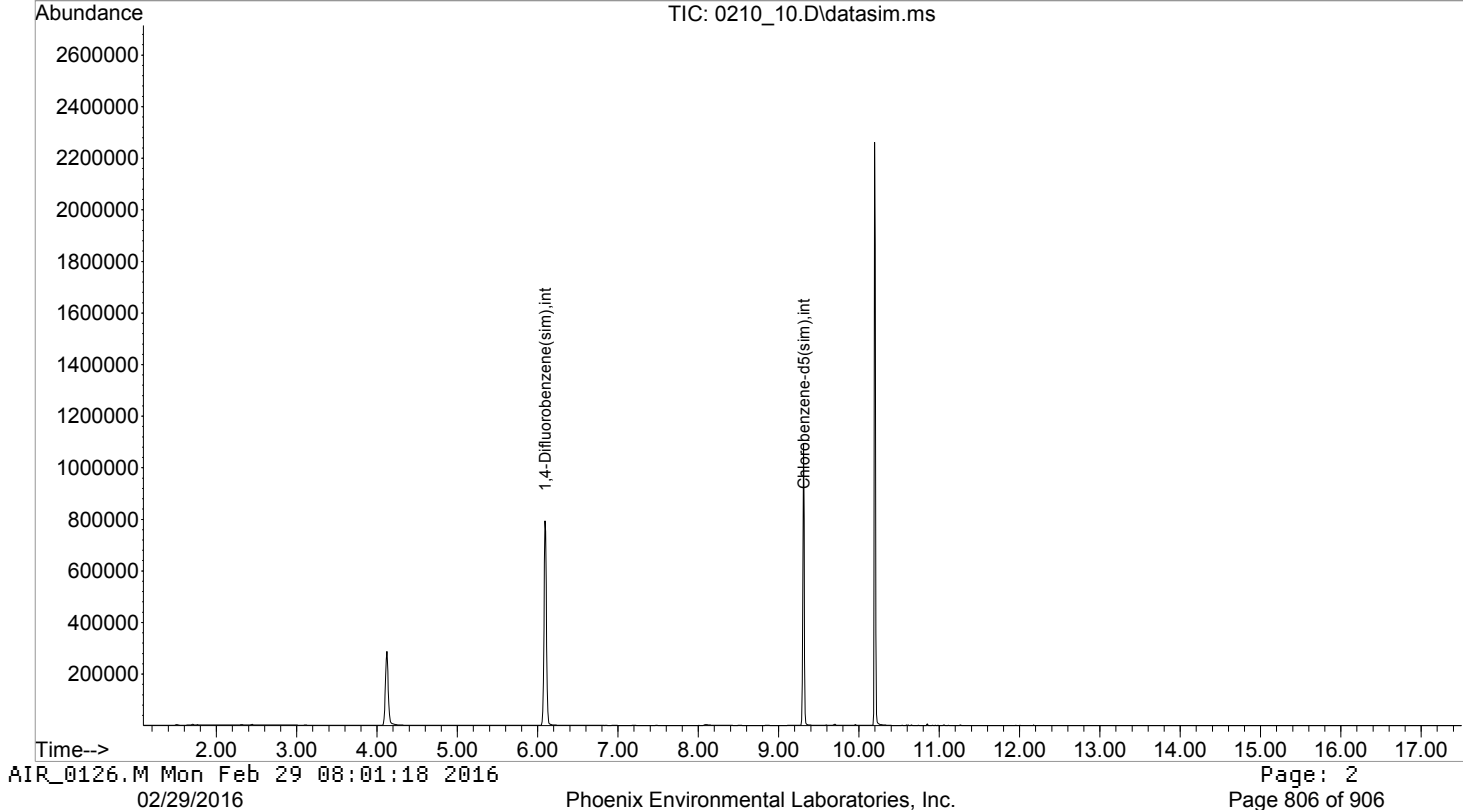
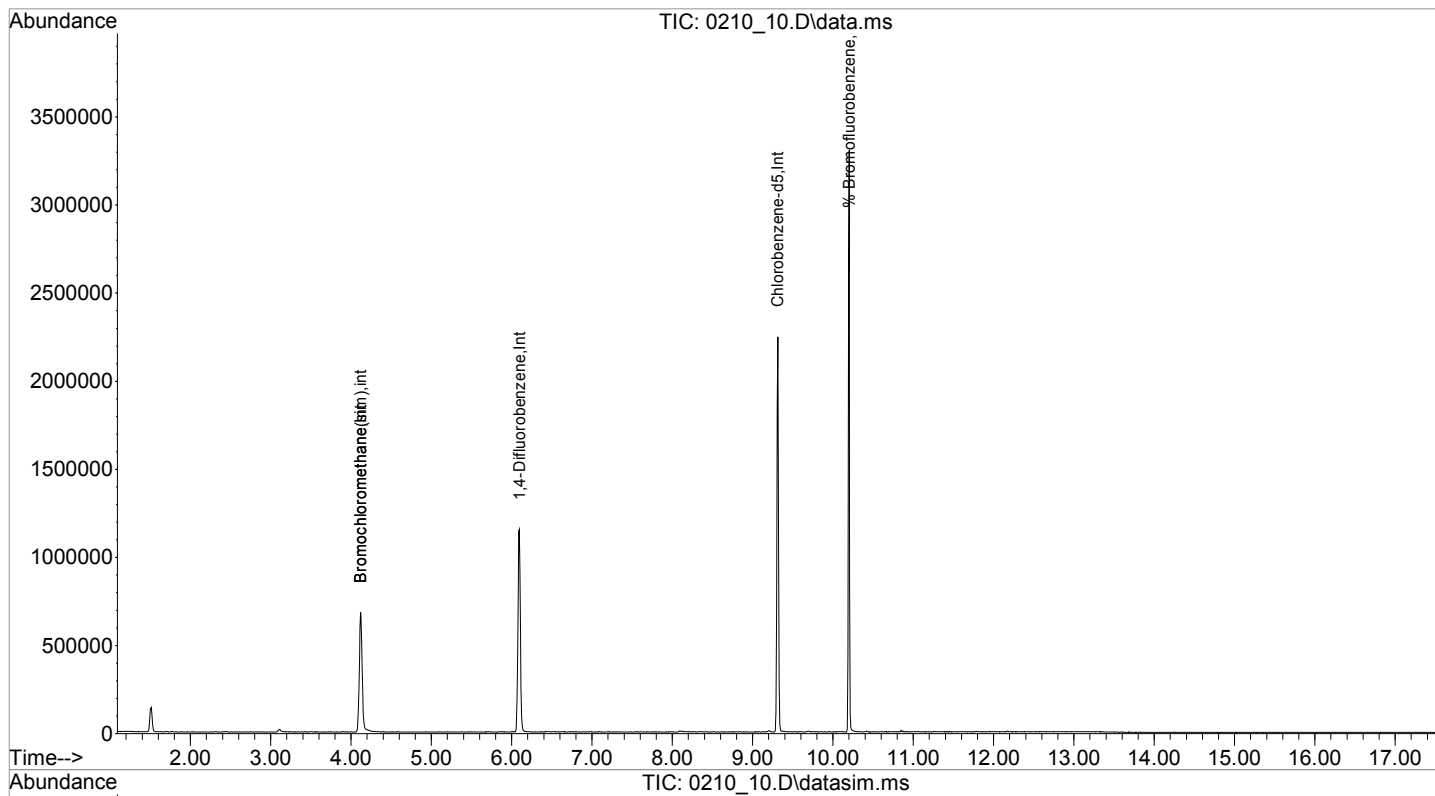
Internal Standards						
1) Bromochloromethane	4.118	130	301542	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.095	114	1056961	10.000	ng	0.02
53) Chlorobenzene-d5	9.313	82	525016	10.000	ng	0.02
80) Bromochloromethane(sim)	4.118	130	301542	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1203139	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.313	82	525016	10.000	ng	# 0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	10.200	95	644869	9.977	ppbv	0.02
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.80%

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```
Data Path : H:\AIR2016\CHEM24\02FEB\09\  
Data File : 0210_10.D  
Acq On : 10 Feb 2016 2:13 pm  
Operator : Keith  
Client ID : CANISTER BLK CERT ; 6L #12862  
Lab ID : CANISTER BLK CERT ; 6L #12862  
ALS Vial : 68 Sample Multiplier: 1
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Quant Time: Feb 11 14:28:42 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_16.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #128

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_16.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_16.D
 Acq On : 10 Feb 2016 5:25 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #12867
 Lab ID : CANISTER BLK CERT ; 6L #12867
 ALS Vial : 74 Sample Multiplier: 1

Quant Time: Feb 11 11:10:54 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.111	130	305519	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.088	114	1056492	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	515280	10.000	ng	0.00
80) Bromochloromethane(sim)	4.111	130	305519	10.000	ng	0.01
87) 1,4-Difluorobenzene(sim)	6.091	114	1216357	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	515280	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	618769	9.754	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.50%

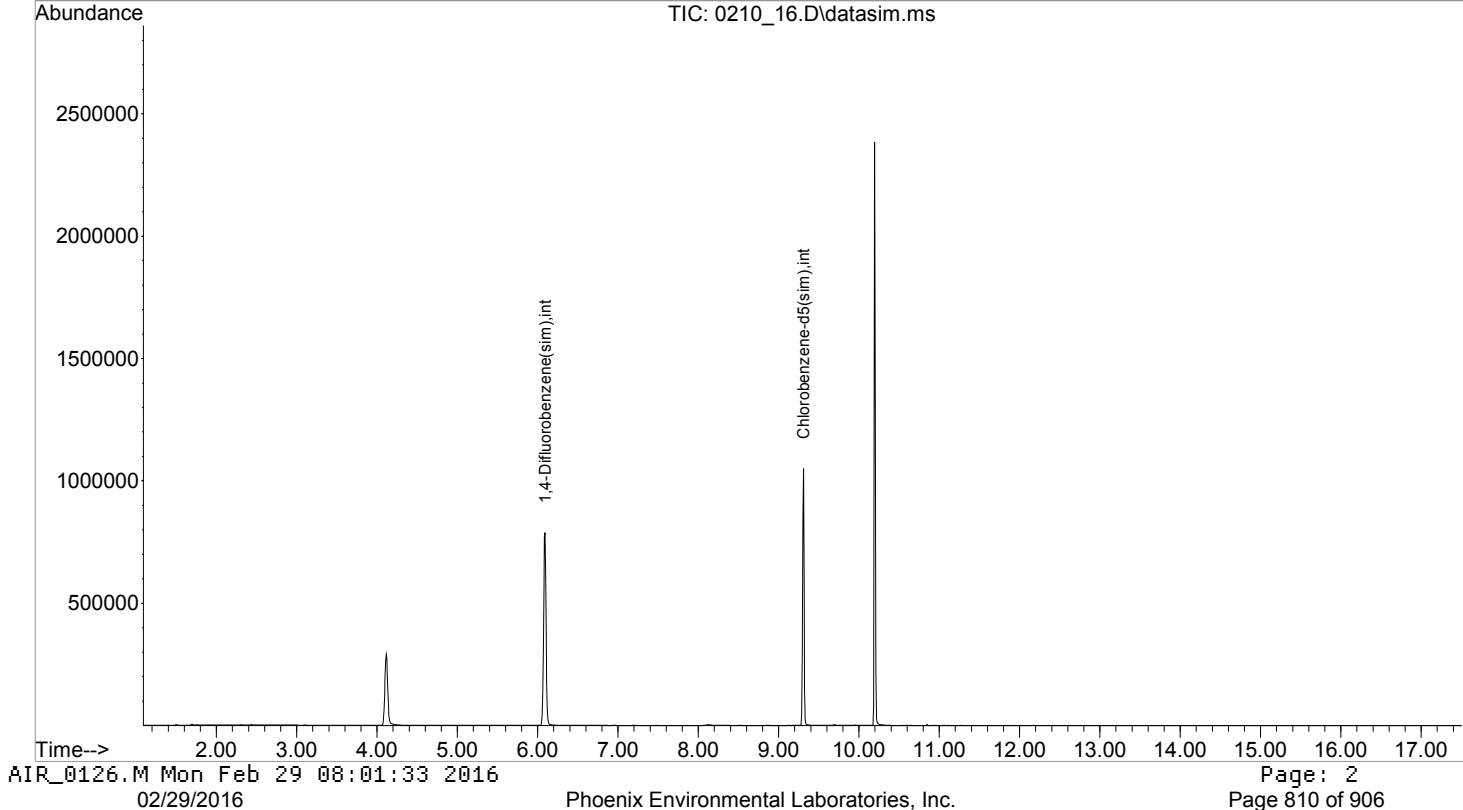
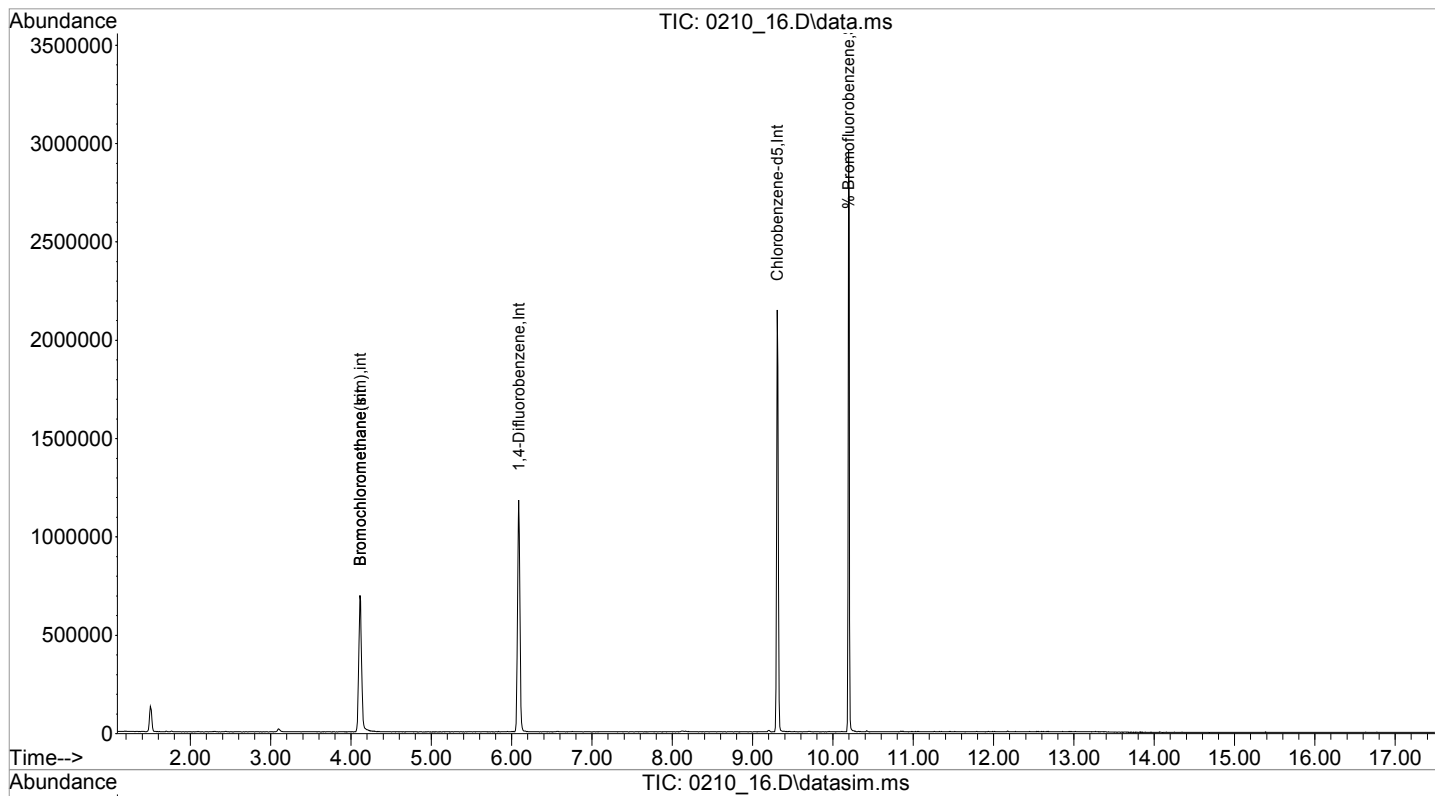
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_16.D
Acq On : 10 Feb 2016 5:25 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #12867
Lab ID : CANISTER BLK CERT ; 6L #12867
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Feb 11 11:10:54 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #136

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_20.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.880		0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #136

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_20.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_20.D
 Acq On : 10 Feb 2016 7:38 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #13650
 Lab ID : CANISTER BLK CERT ; 6L #13650
 ALS Vial : 78 Sample Multiplier: 1

Quant Time: Feb 11 11:11:06 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

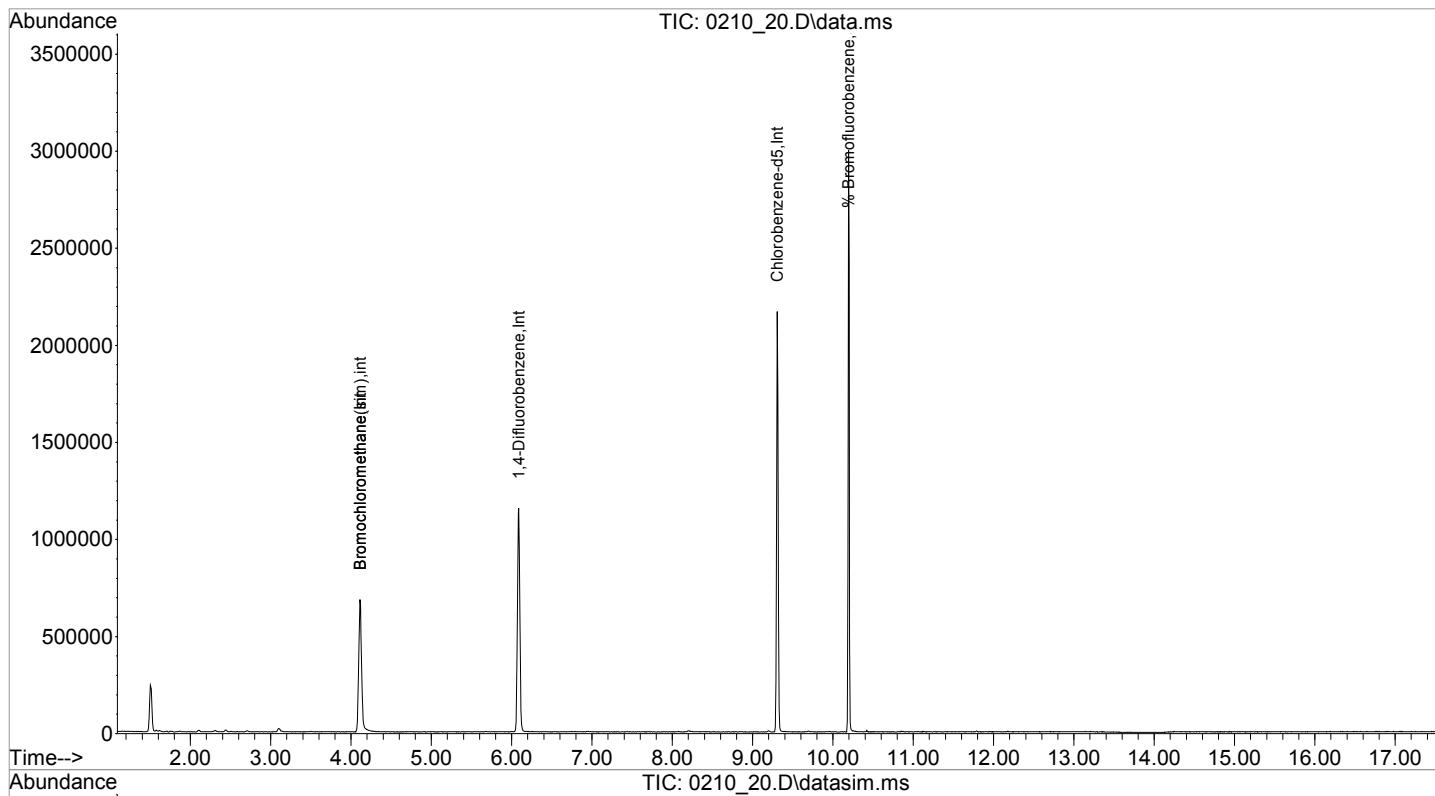
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

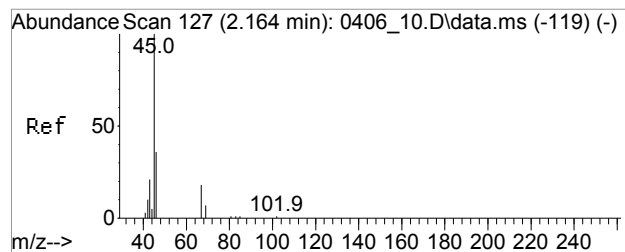
Internal Standards						
1) Bromochloromethane	4.111	130	300945	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.088	114	1052531	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	497455	10.000	ng	0.00
80) Bromochloromethane(sim)	4.111	130	300945	10.000	ng	0.01
87) 1,4-Difluorobenzene(sim)	6.084	114	1206308	10.000	ng	# 0.00
94) Chlorobenzene-d5(sim)	9.306	82	497455	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	598488	9.773	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.70%	
Target Compounds						
					Qvalue	
10) Ethanol	2.096	45	9279	0.877	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

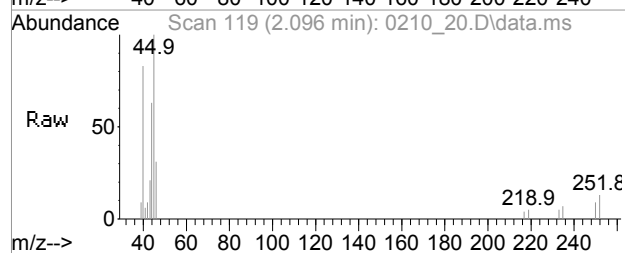
Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_20.D
Acq On : 10 Feb 2016 7:38 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #13650
Lab ID : CANISTER BLK CERT ; 6L #13650
ALS Vial : 78 Sample Multiplier: 1

Quant Time: Feb 11 11:11:06 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



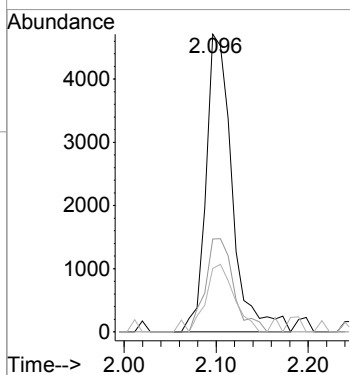
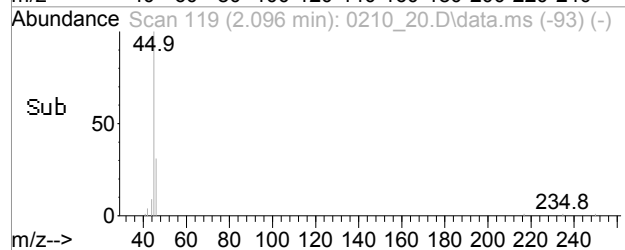


#10
 Ethanol
 Concen: 0.88 ppbv
 RT: 2.096 min Scan# 119
 Delta R.T. 0.017 min
 Lab File: 0210_20.D
 Acq: 10 Feb 2016 7:38 pm



Tgt Ion: 45 Resp: 9279

Ion	Ratio	Lower	Upper
45	100		
46	33.9	25.0	37.4
43	25.5	19.2	28.8



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #136

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_13.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #136

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_13.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_13.D
 Acq On : 10 Feb 2016 3:49 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #13651
 Lab ID : CANISTER BLK CERT ; 6L #13651
 ALS Vial : 71 Sample Multiplier: 1

Quant Time: Feb 11 14:28:51 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

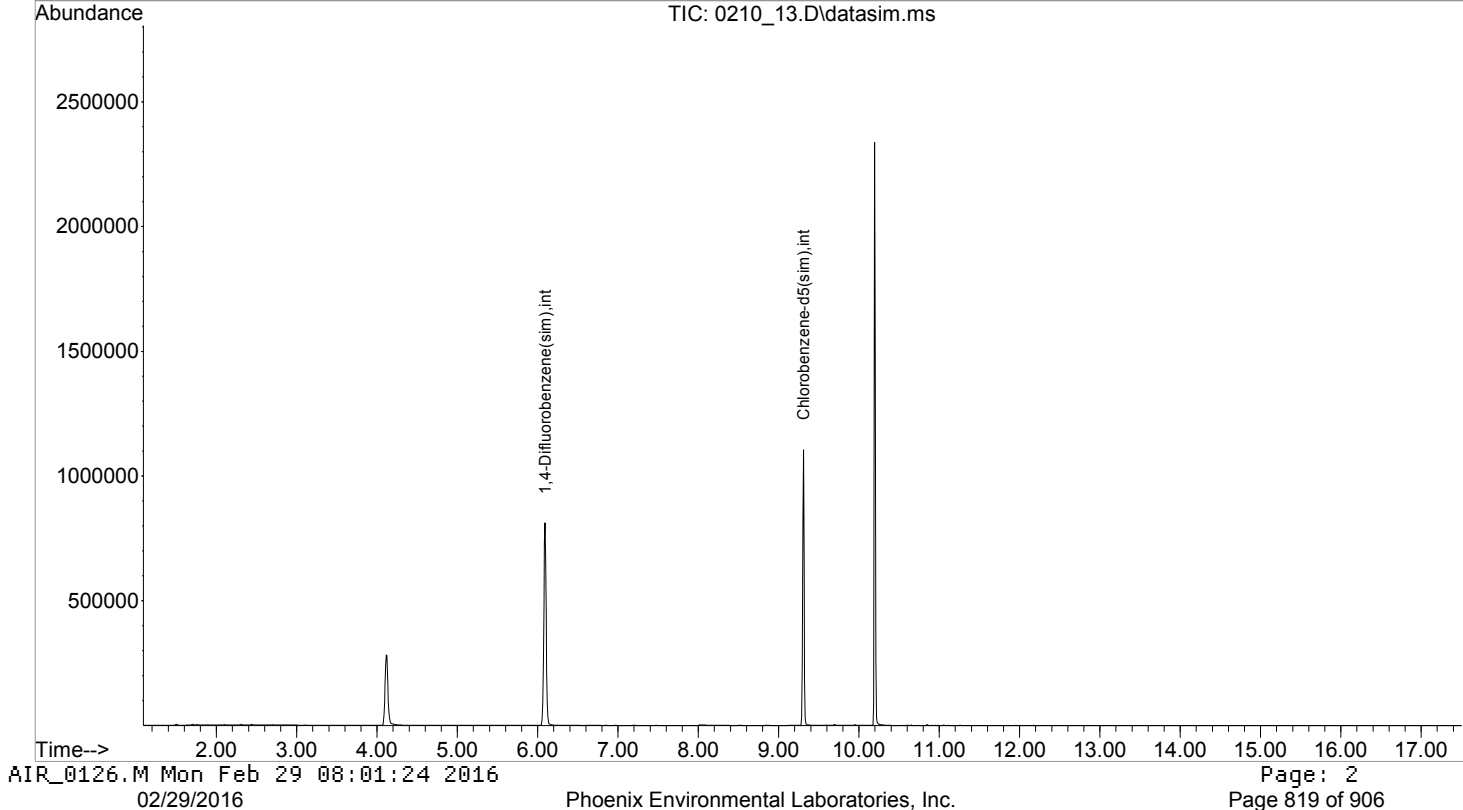
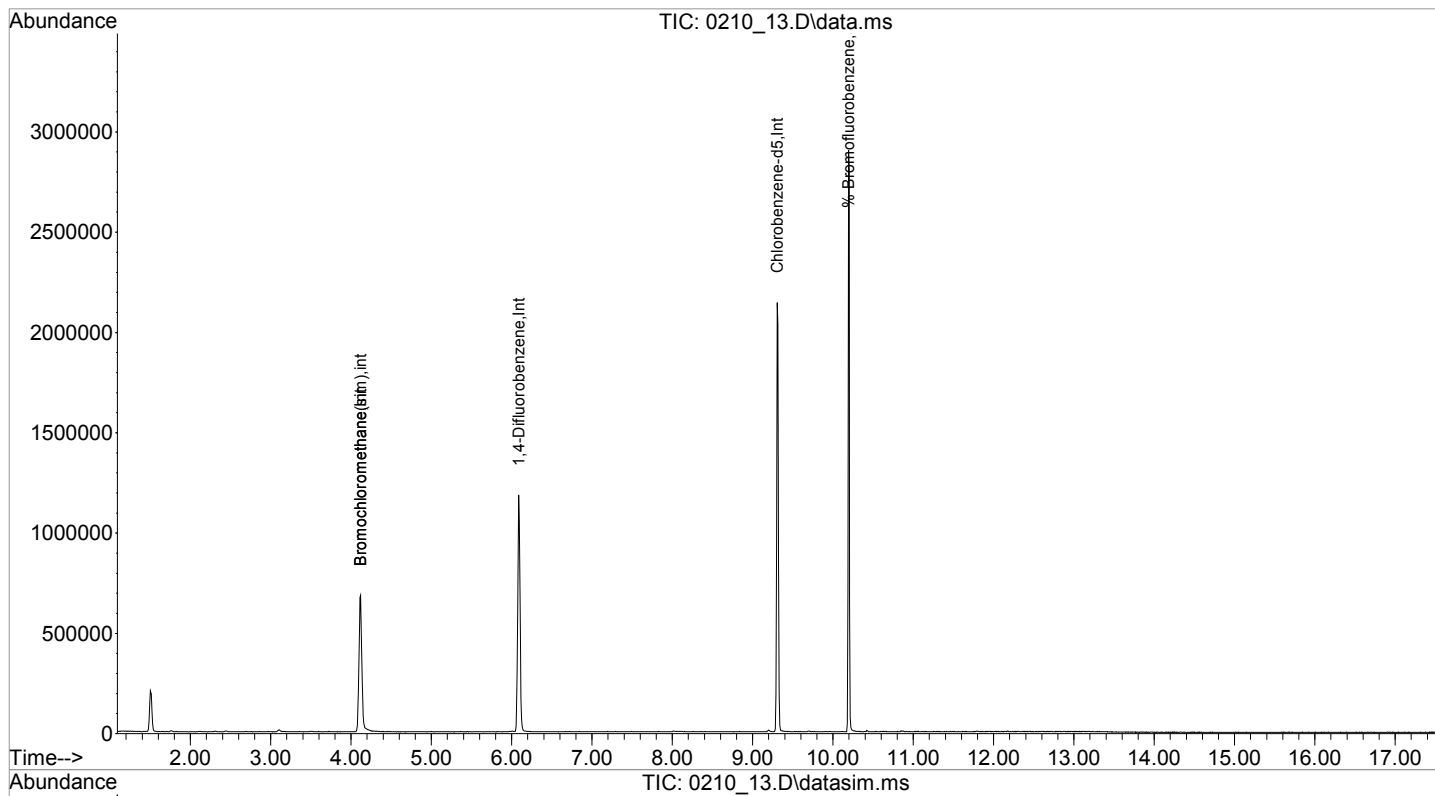
Internal Standards						
1) Bromochloromethane	4.118	130	305989	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	882430	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	520434	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	305989	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1115056	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	520434	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	620007	9.677	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.80%	

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_13.D
Acq On : 10 Feb 2016 3:49 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #13651
Lab ID : CANISTER BLK CERT ; 6L #13651
ALS Vial : 71 Sample Multiplier: 1

Quant Time: Feb 11 14:28:51 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #17

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_14.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #17

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_14.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_14.D
 Acq On : 10 Feb 2016 4:21 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #172
 Lab ID : CANISTER BLK CERT ; 6L #172
 ALS Vial : 72 Sample Multiplier: 1

Quant Time: Feb 11 11:10:48 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:29:57 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

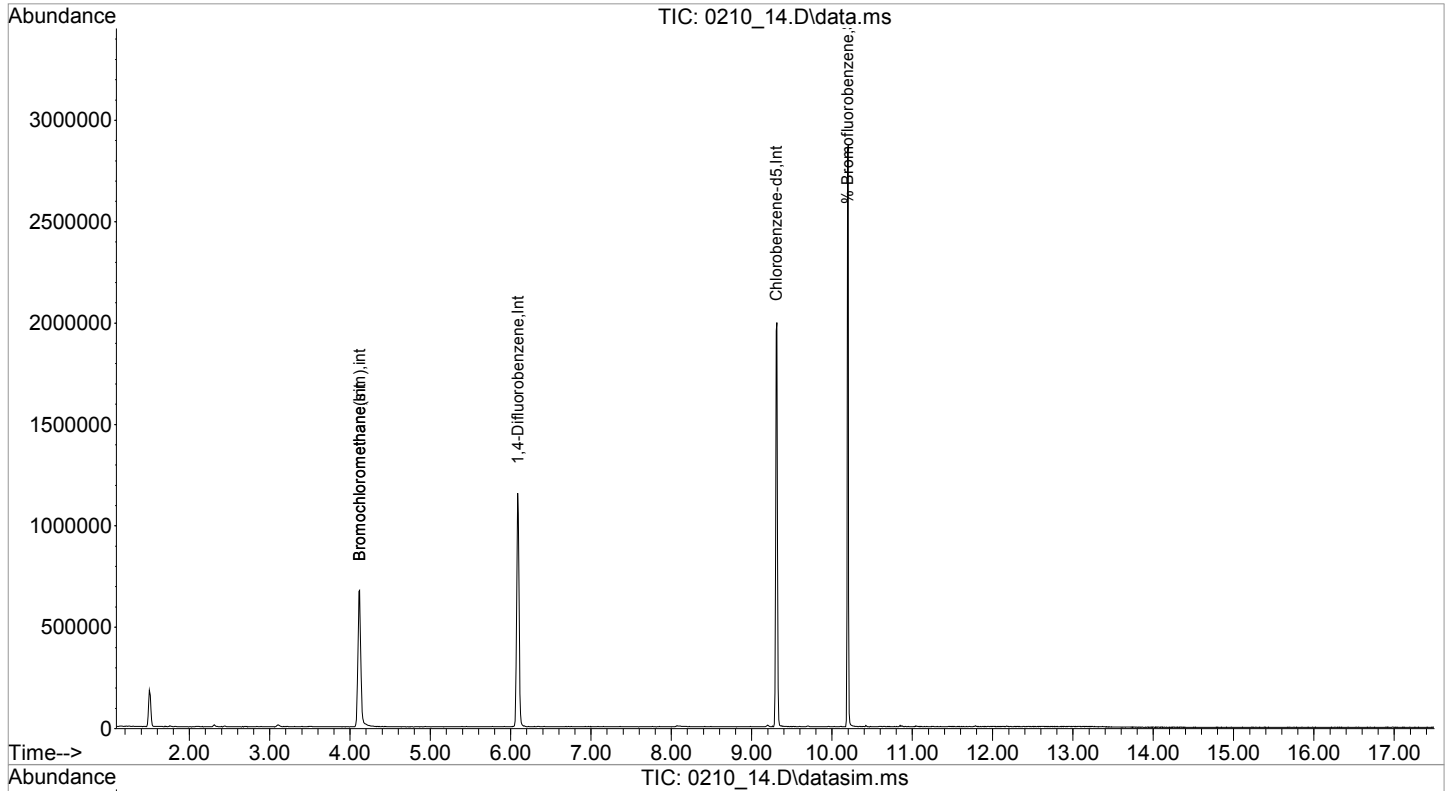
Internal Standards						
1) Bromochloromethane	4.118	130	305062	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1038849	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	495223	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	305062	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1195044	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	495223	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	619125	10.155	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.60%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_14.D
Acq On : 10 Feb 2016 4:21 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #172
Lab ID : CANISTER BLK CERT ; 6L #172
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Feb 11 11:10:48 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:29:57 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #21

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_19.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #21

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_19.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_19.D
 Acq On : 10 Feb 2016 7:01 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #219
 Lab ID : CANISTER BLK CERT ; 6L #219
 ALS Vial : 77 Sample Multiplier: 1

Quant Time: Feb 11 11:11:03 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.118	130	295054	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	825934	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	494231	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	295054	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1052679	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	494231	10.000	ng	# 0.00

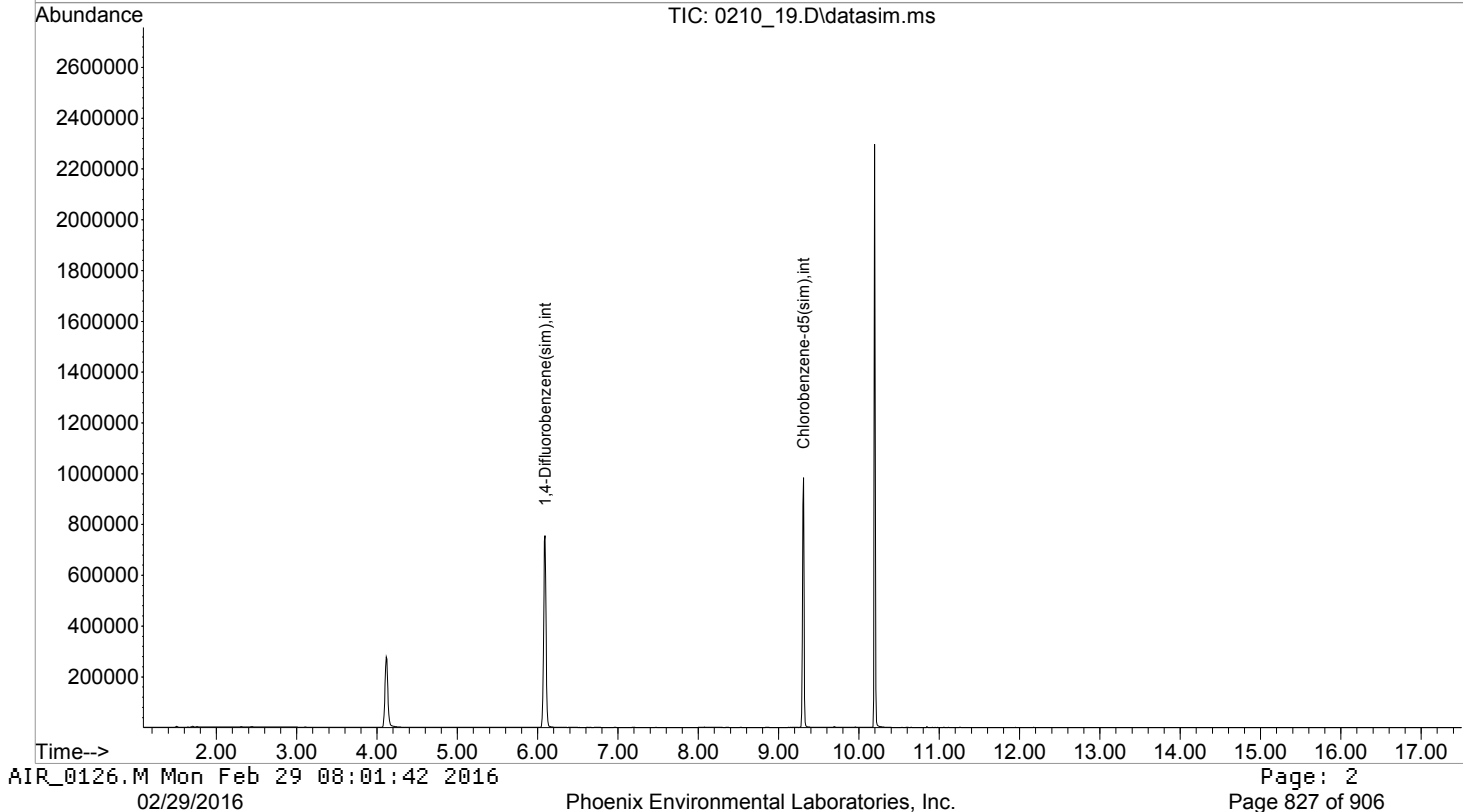
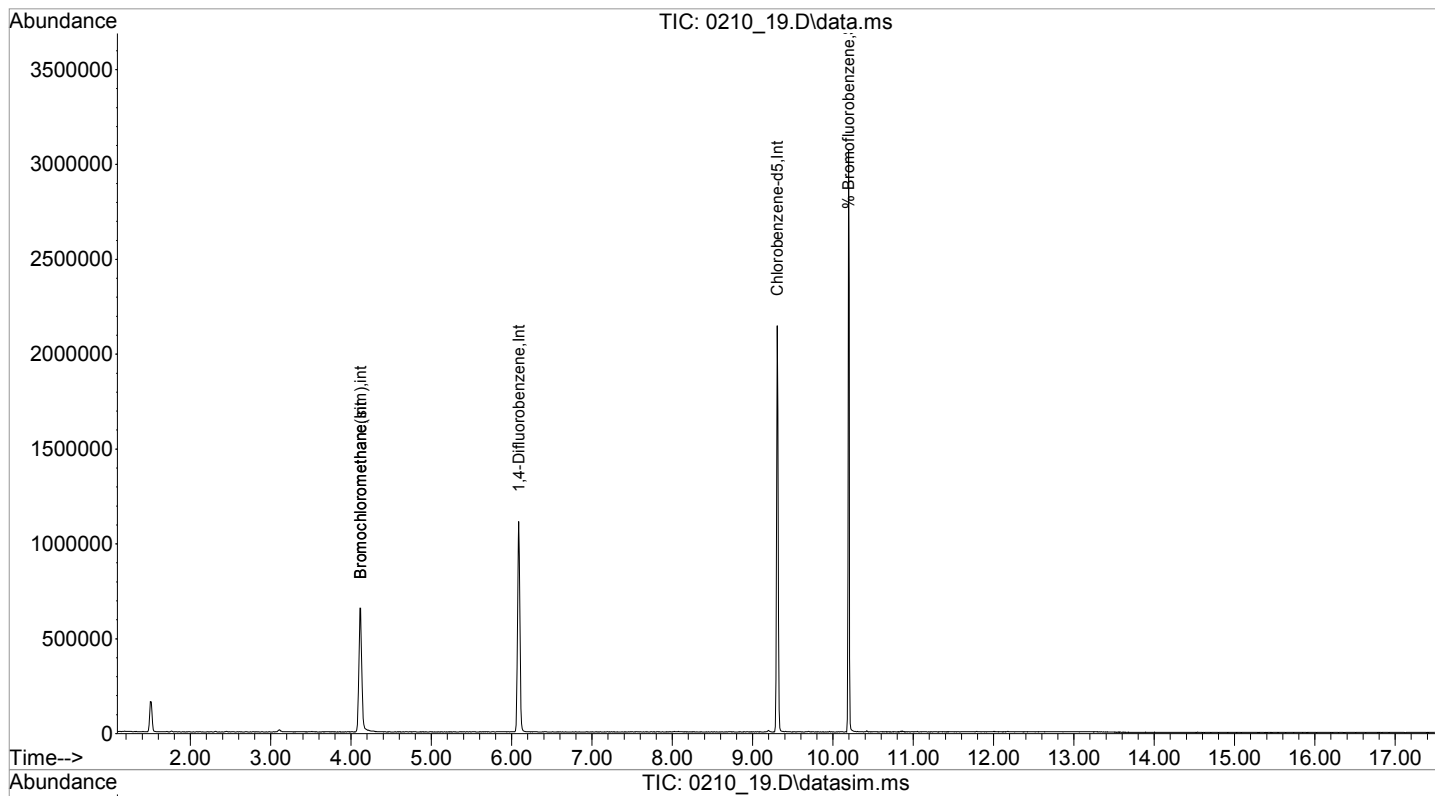
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	594594	9.773	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.70%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

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Data Path : H:\AIR2016\CHEM24\02FEB\09\  
Data File : 0210_19.D  
Acq On : 10 Feb 2016 7:01 pm  
Operator : Keith  
Client ID : CANISTER BLK CERT ; 6L #219  
Lab ID : CANISTER BLK CERT ; 6L #219  
ALS Vial : 77 Sample Multiplier: 1
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Quant Time: Feb 11 11:11:03 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #22

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_06.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #22

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_06.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_06.D
 Acq On : 10 Feb 2016 11:51 am
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #222
 Lab ID : CANISTER BLK CERT ; 6L #222
 ALS Vial : 64 Sample Multiplier: 1

Quant Time: Feb 10 12:41:46 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

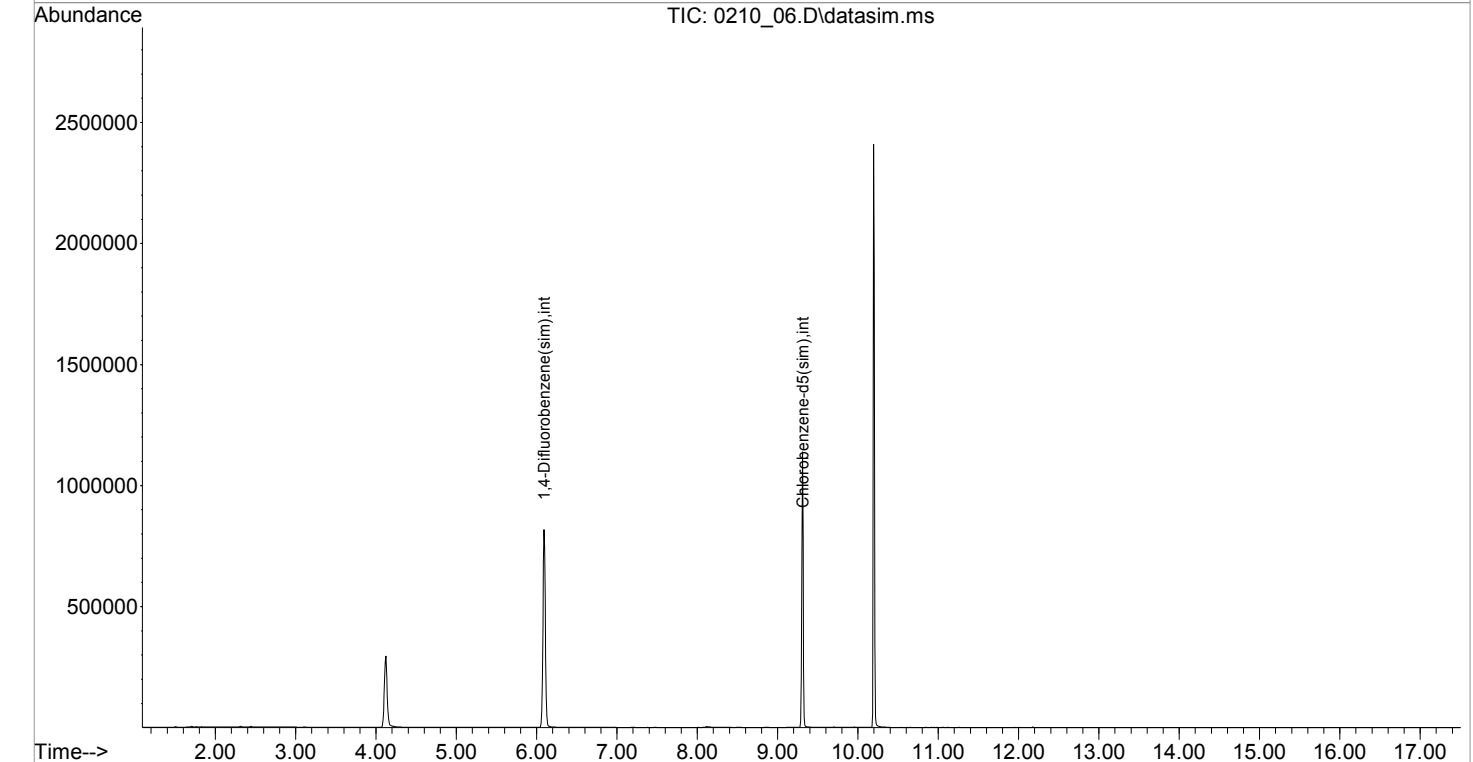
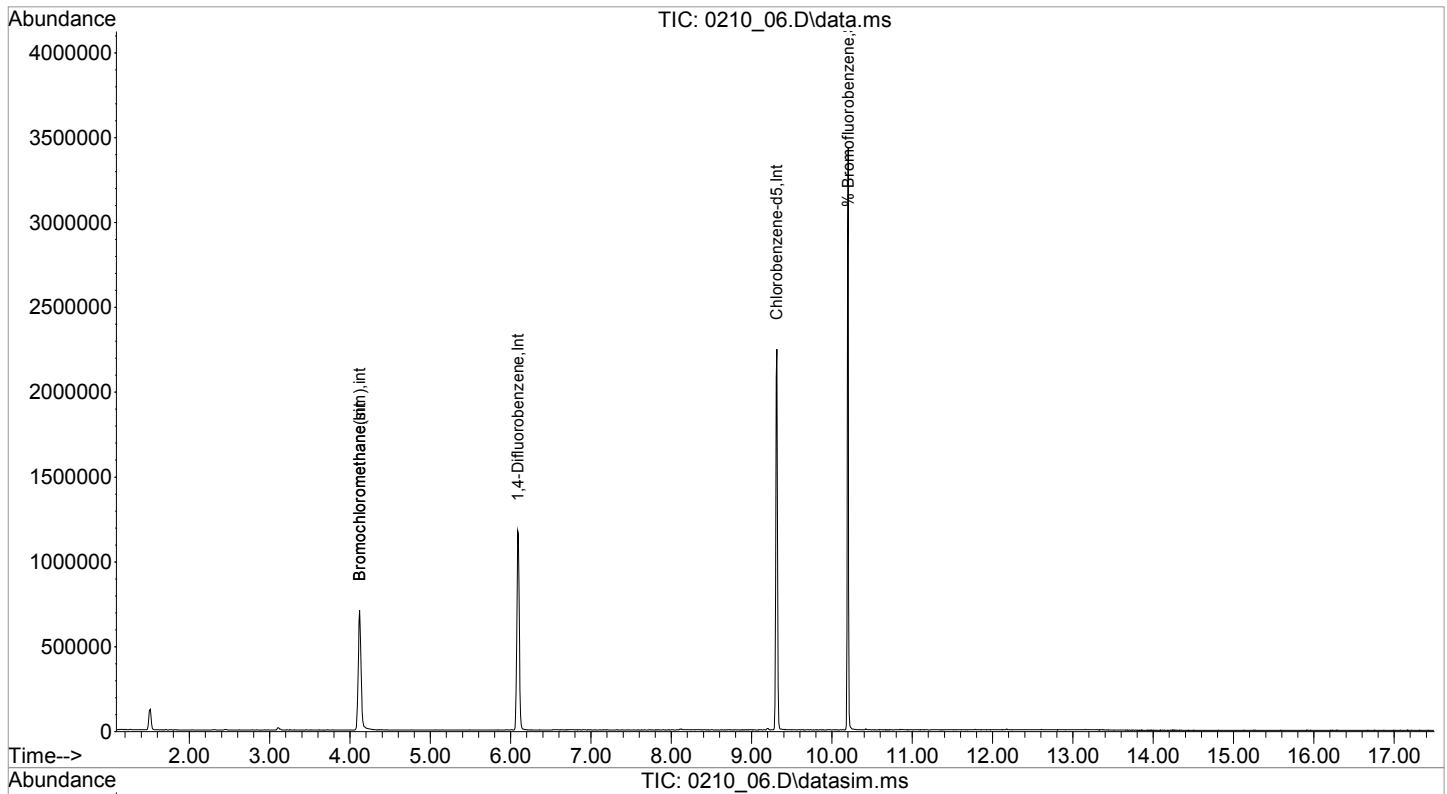
Internal Standards						
1) Bromochloromethane	4.118	130	311862	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1084819	10.000	ng	0.01
53) Chlorobenzene-d5	9.313	82	554903	10.000	ng	0.02
80) Bromochloromethane(sim)	4.118	130	311862	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1237079	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.313	82	554903	10.000	ng	# 0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	10.200	95	685762	10.039	ppbv	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.40%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_06.D
Acq On : 10 Feb 2016 11:51 am
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #222
Lab ID : CANISTER BLK CERT ; 6L #222
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Feb 10 12:41:46 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

NISTER BLK CERT ; 6L #223

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_08.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

NISTER BLK CERT ; 6L #223

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_08.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_08.D
 Acq On : 10 Feb 2016 1:09 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #223 RR
 Lab ID : CANISTER BLK CERT ; 6L #223 RR
 ALS Vial : 66 Sample Multiplier: 1

Quant Time: Feb 11 14:28:36 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:29:57 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.118	130	307149	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	1053088	10.000	ng	0.01
53) Chlorobenzene-d5	9.313	82	538484	10.000	ng	0.02
80) Bromochloromethane(sim)	4.118	130	307149	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1217541	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.313	82	538484	10.000	ng	# 0.02

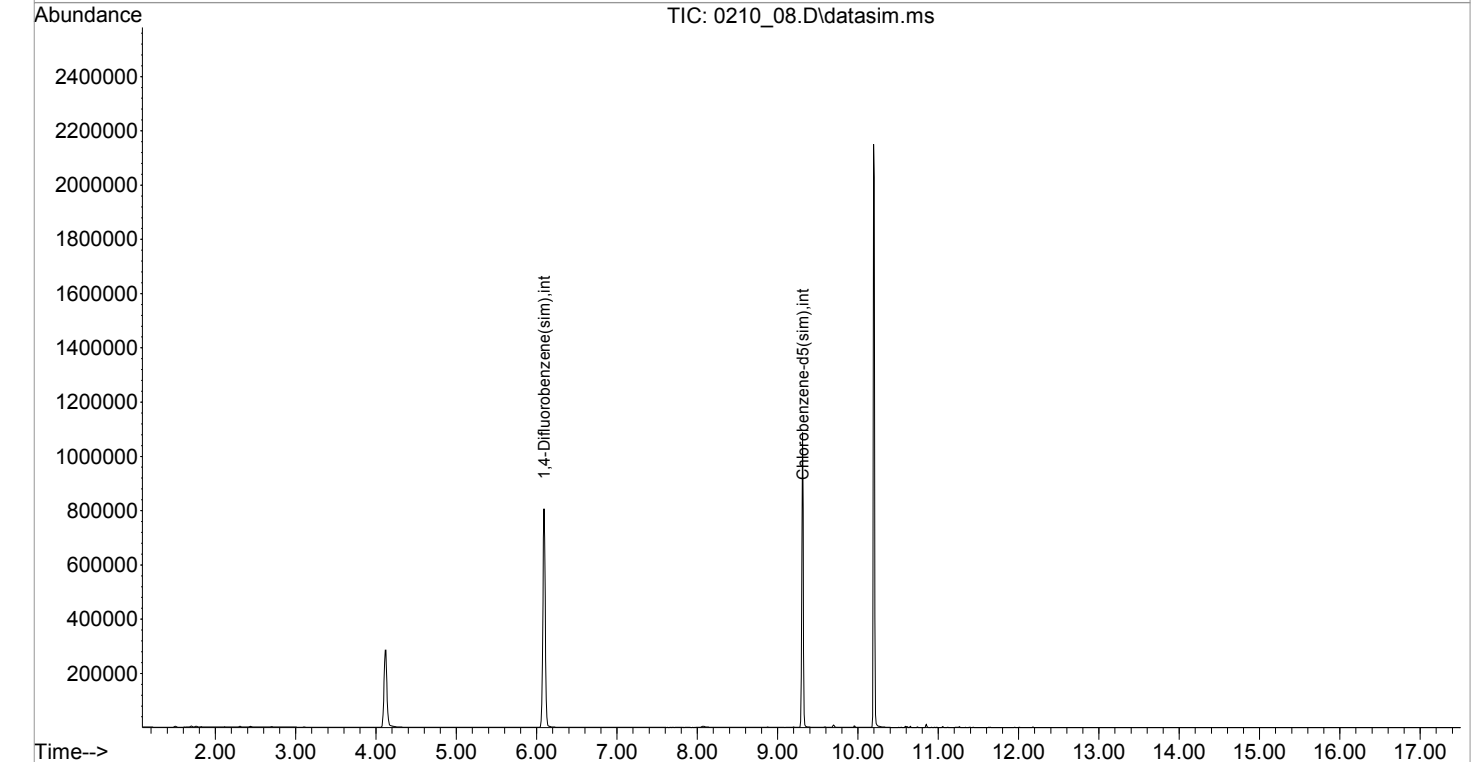
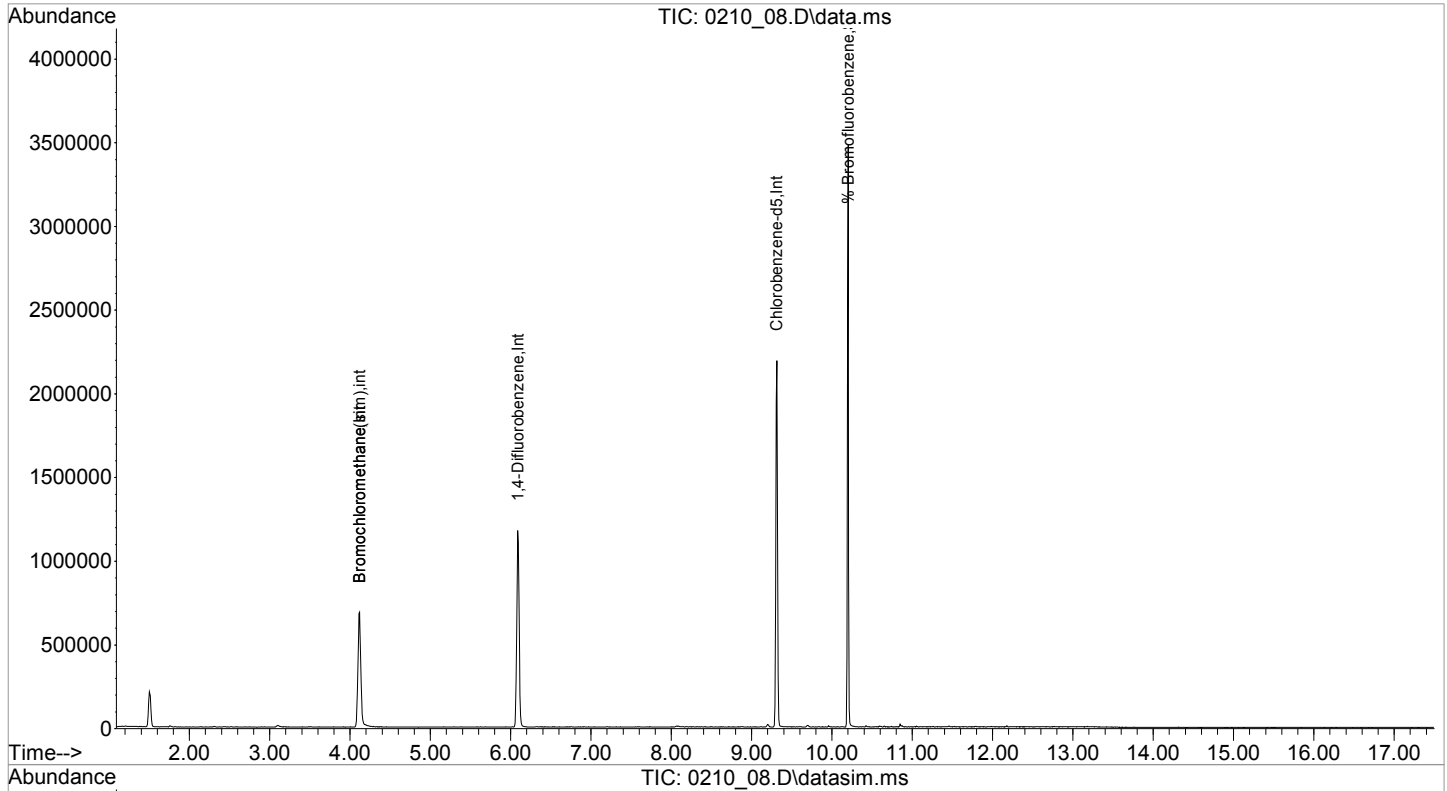
System Monitoring Compounds						
62) % Bromofluorobenzene	10.200	95	657883	9.924	ppbv	0.02
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_08.D
Acq On : 10 Feb 2016 1:09 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #223 RR
Lab ID : CANISTER BLK CERT ; 6L #223 RR
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Feb 11 14:28:36 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:29:57 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #36

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_15.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #36

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_15.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_15.D
 Acq On : 10 Feb 2016 4:53 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #368
 Lab ID : CANISTER BLK CERT ; 6L #368
 ALS Vial : 73 Sample Multiplier: 1

Quant Time: Feb 11 11:10:50 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.111	130	307004	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.088	114	1061981	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	517154	10.000	ng	0.00
80) Bromochloromethane(sim)	4.111	130	307004	10.000	ng	0.01
87) 1,4-Difluorobenzene(sim)	6.091	114	1223187	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	517154	10.000	ng	# 0.00

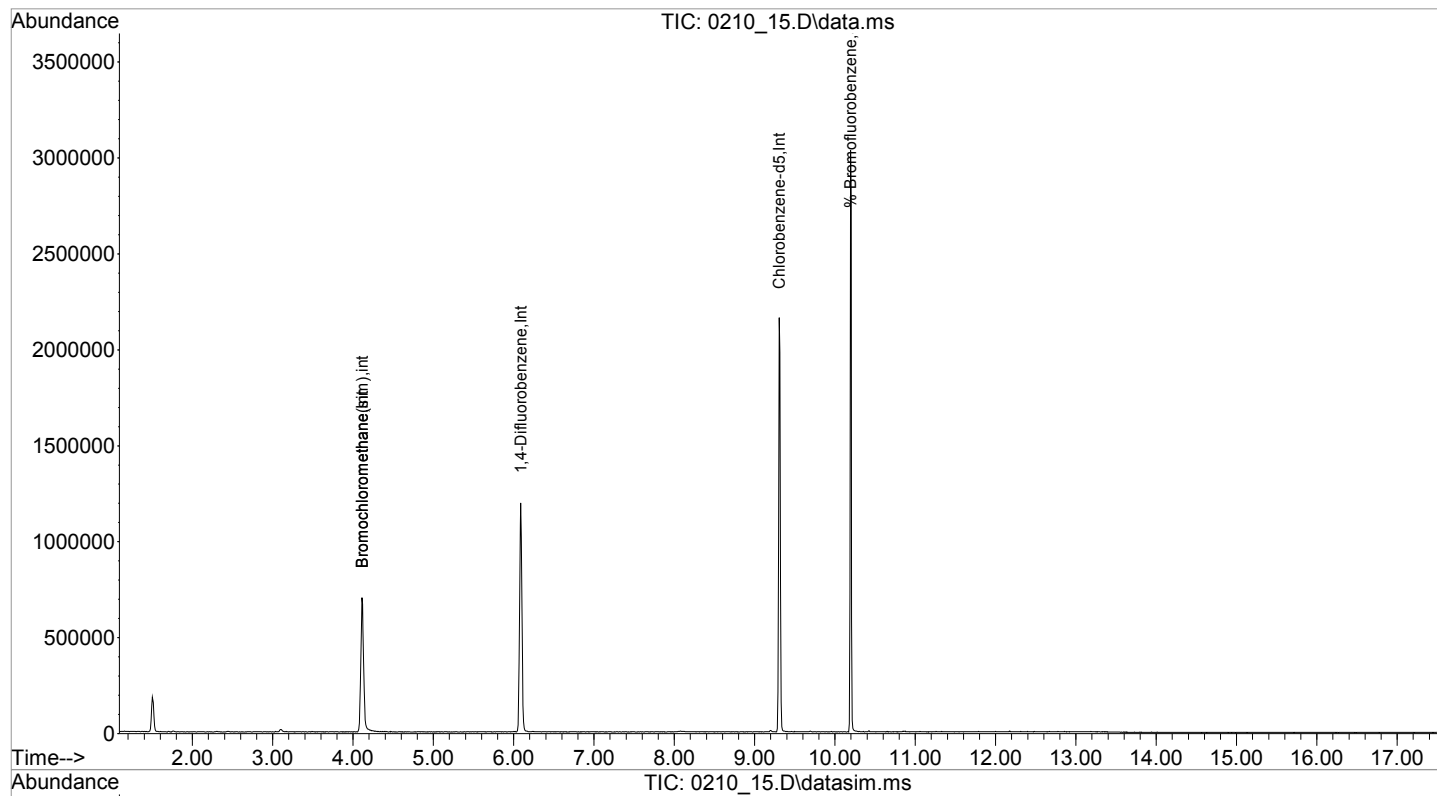
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	633258	9.947	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.50%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_15.D
Acq On : 10 Feb 2016 4:53 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #368
Lab ID : CANISTER BLK CERT ; 6L #368
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Feb 11 11:10:50 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #46

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_14.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #46

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0209_14.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0209_14.D
 Acq On : 10 Feb 2016 12:18 am
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #469
 Lab ID : CANISTER BLK CERT ; 6L #469
 ALS Vial : 57 Sample Multiplier: 1

Quant Time: Feb 10 09:21:31 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

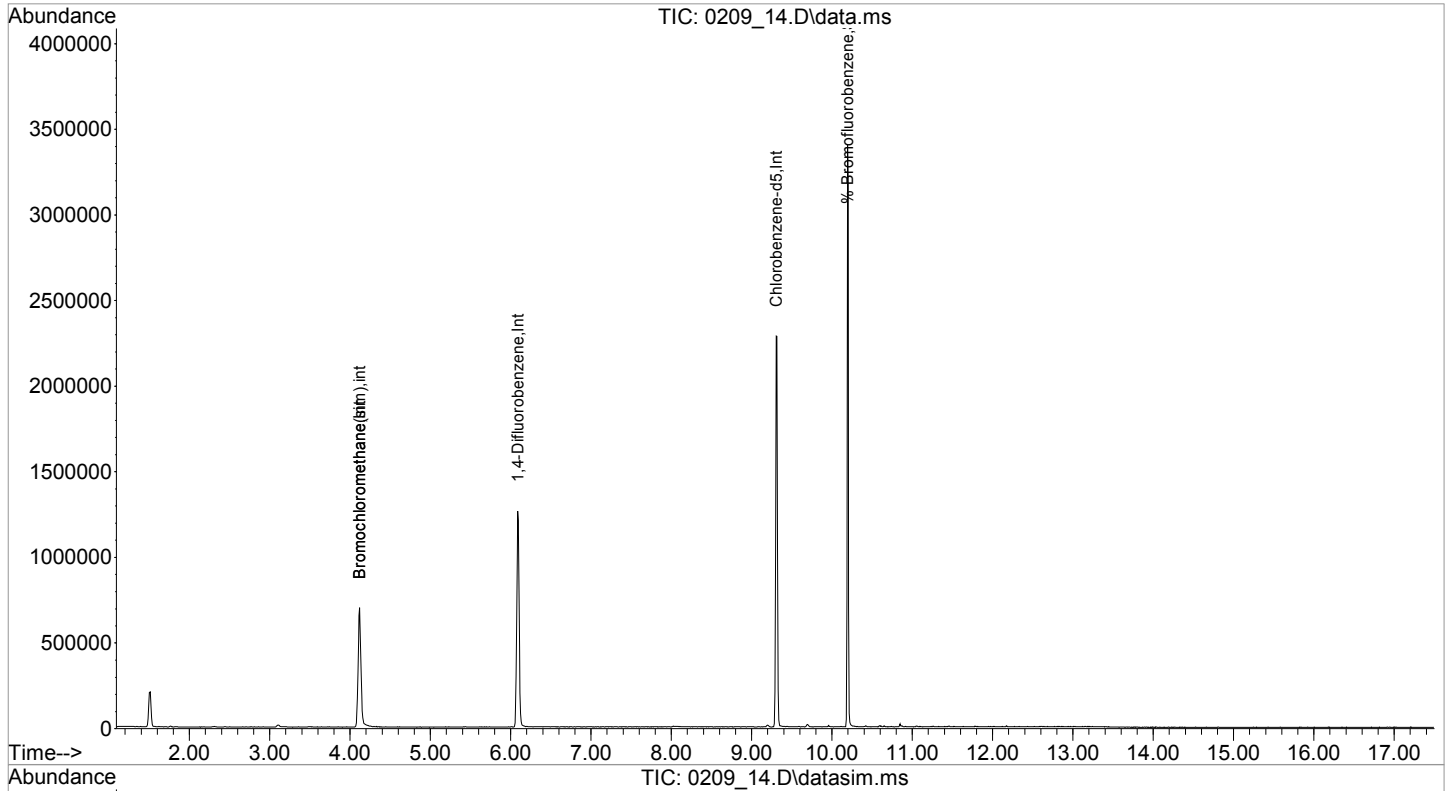
Internal Standards						
1) Bromochloromethane	4.118	130	310350	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	997869	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	579253	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	310350	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1220249	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	579253	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	715085	10.028	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.30%		

Target Compounds	Qvalue
-----	-----

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0209_14.D
Acq On : 10 Feb 2016 12:18 am
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #469
Lab ID : CANISTER BLK CERT ; 6L #469
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Feb 10 09:21:31 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #48

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_11.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #48

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_11.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_11.D
 Acq On : 10 Feb 2016 2:45 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #488
 Lab ID : CANISTER BLK CERT ; 6L #488
 ALS Vial : 69 Sample Multiplier: 1

Quant Time: Feb 11 14:28:45 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.118	130	296207	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.088	114	876430	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	512502	10.000	ng	0.00
80) Bromochloromethane(sim)	4.118	130	296207	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1100398	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	512502	10.000	ng	# 0.00

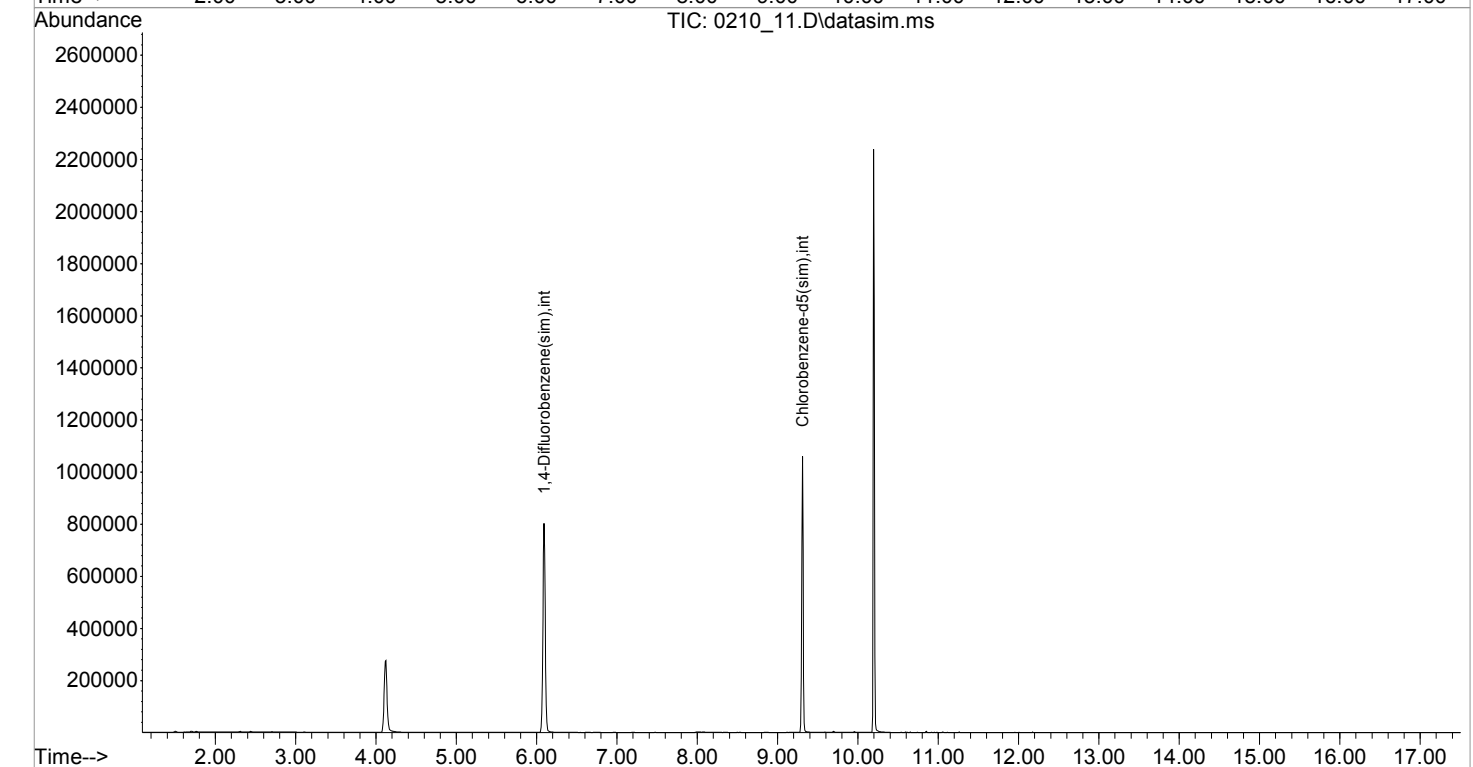
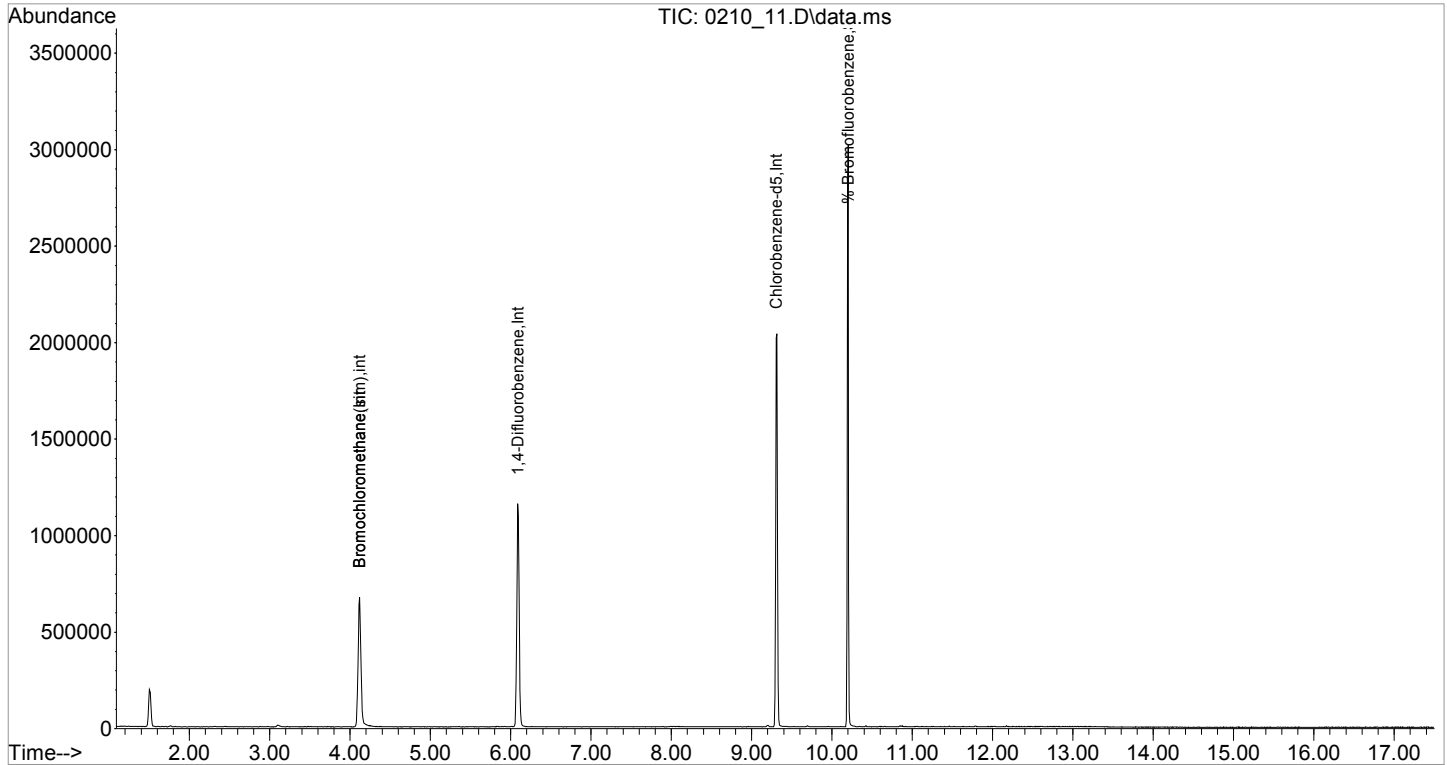
System Monitoring Compounds						
62) % Bromofluorobenzene	10.200	95	631251	10.005	ppbv	0.02
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.10%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_11.D
Acq On : 10 Feb 2016 2:45 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #488
Lab ID : CANISTER BLK CERT ; 6L #488
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Feb 11 14:28:45 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #49

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_17.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #49

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_17.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_17.D
 Acq On : 10 Feb 2016 5:57 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #492
 Lab ID : CANISTER BLK CERT ; 6L #492
 ALS Vial : 75 Sample Multiplier: 1

Quant Time: Feb 11 11:10:57 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

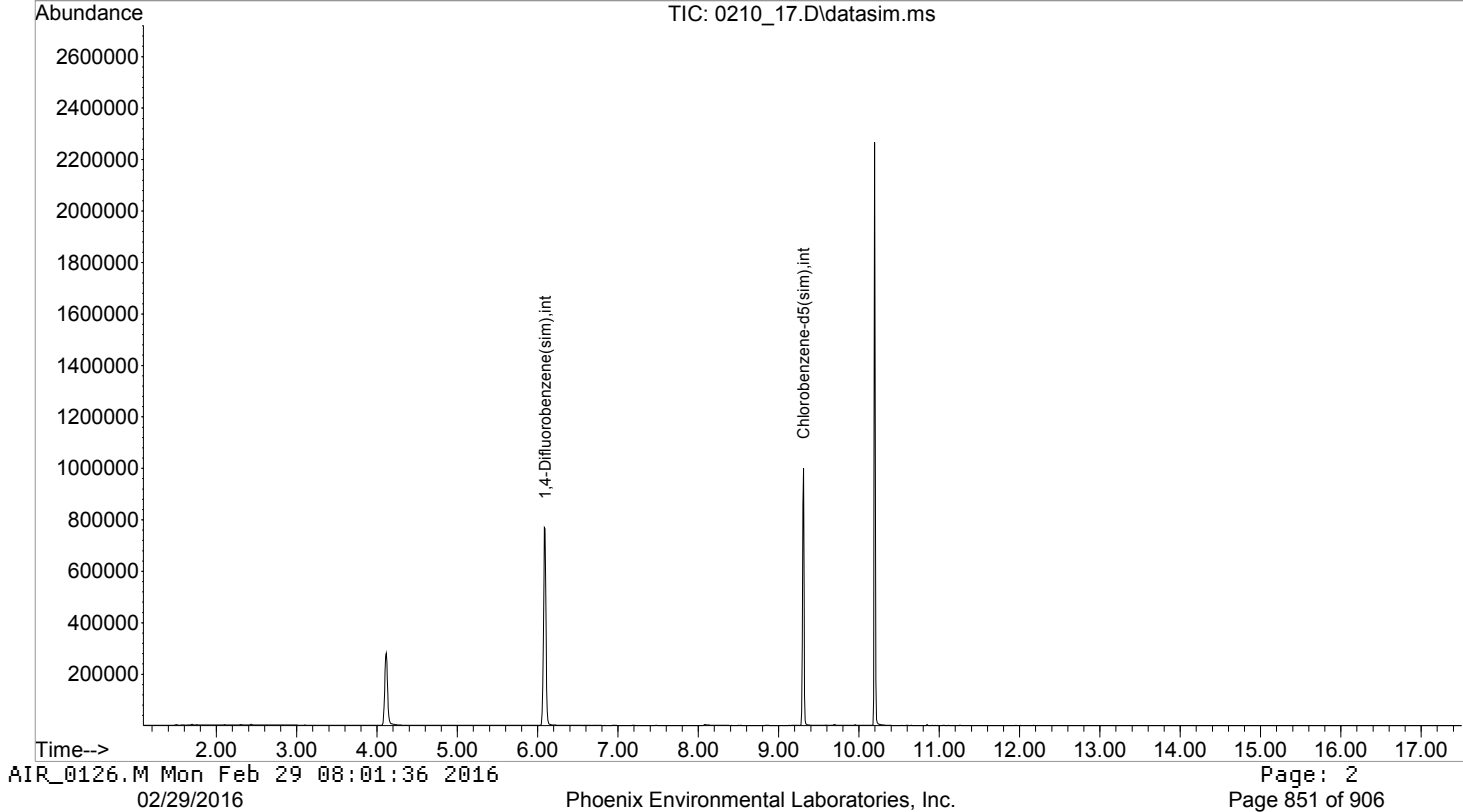
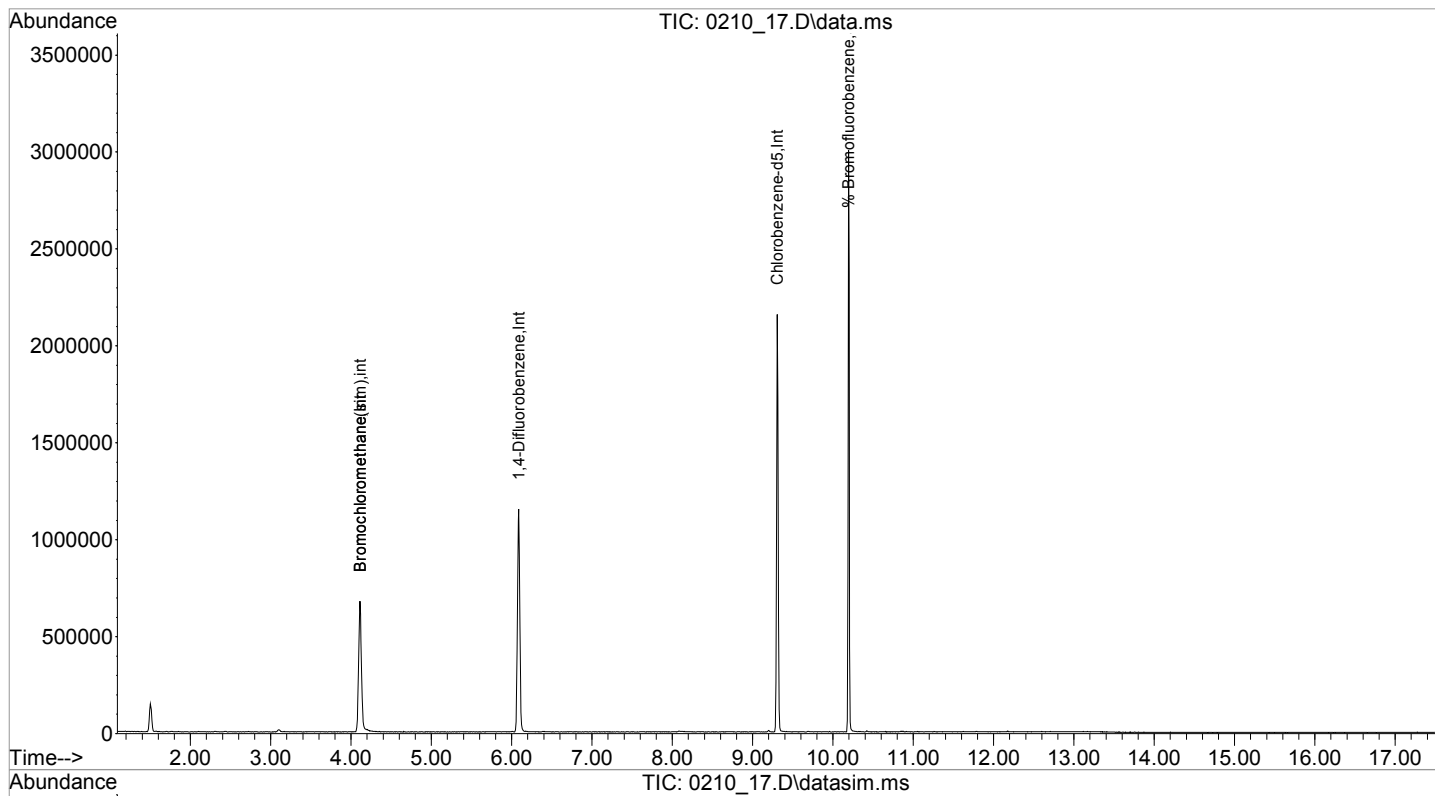
Internal Standards						
1) Bromochloromethane	4.111	130	295591	10.000	ng	0.01
36) 1,4-Difluorobenzene	6.088	114	1026605	10.000	ng	0.01
53) Chlorobenzene-d5	9.306	82	489574	10.000	ng	0.00
80) Bromochloromethane(sim)	4.111	130	295591	10.000	ng	0.01
87) 1,4-Difluorobenzene(sim)	6.091	114	1179418	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.306	82	489574	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.193	95	589336	9.778	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.80%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_17.D
Acq On : 10 Feb 2016 5:57 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #492
Lab ID : CANISTER BLK CERT ; 6L #492
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Feb 11 11:10:57 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

ANISTER BLK CERT ; 6L #97

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_07.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
74-83-9	Bromomethane	0.258	U	0.258	0.258	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-35-4	1,1-Dichloroethene	0.252	U	0.252	0.252	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
156-60-5	Trans-1,2-Dichloroethene	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane	0.247	U	0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.252	U	0.252	0.252	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
107-06-2	1,2-Dichloroethane	0.247	U	0.247	0.247	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.217	U	0.217	0.217	r
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK CERT ; 6L #97

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GBK67651 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0210_07.D

Instrument: CHEM24 Column: zb-1ms Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/10/16

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2016\CHEM24\02FEB\09\
 Data File : 0210_07.D
 Acq On : 10 Feb 2016 12:23 pm
 Operator : Keith
 Client ID : CANISTER BLK CERT ; 6L #9767
 Lab ID : CANISTER BLK CERT ; 6L #9767
 ALS Vial : 65 Sample Multiplier: 1

Quant Time: Feb 10 12:41:49 2016
 Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Feb 02 13:31:03 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

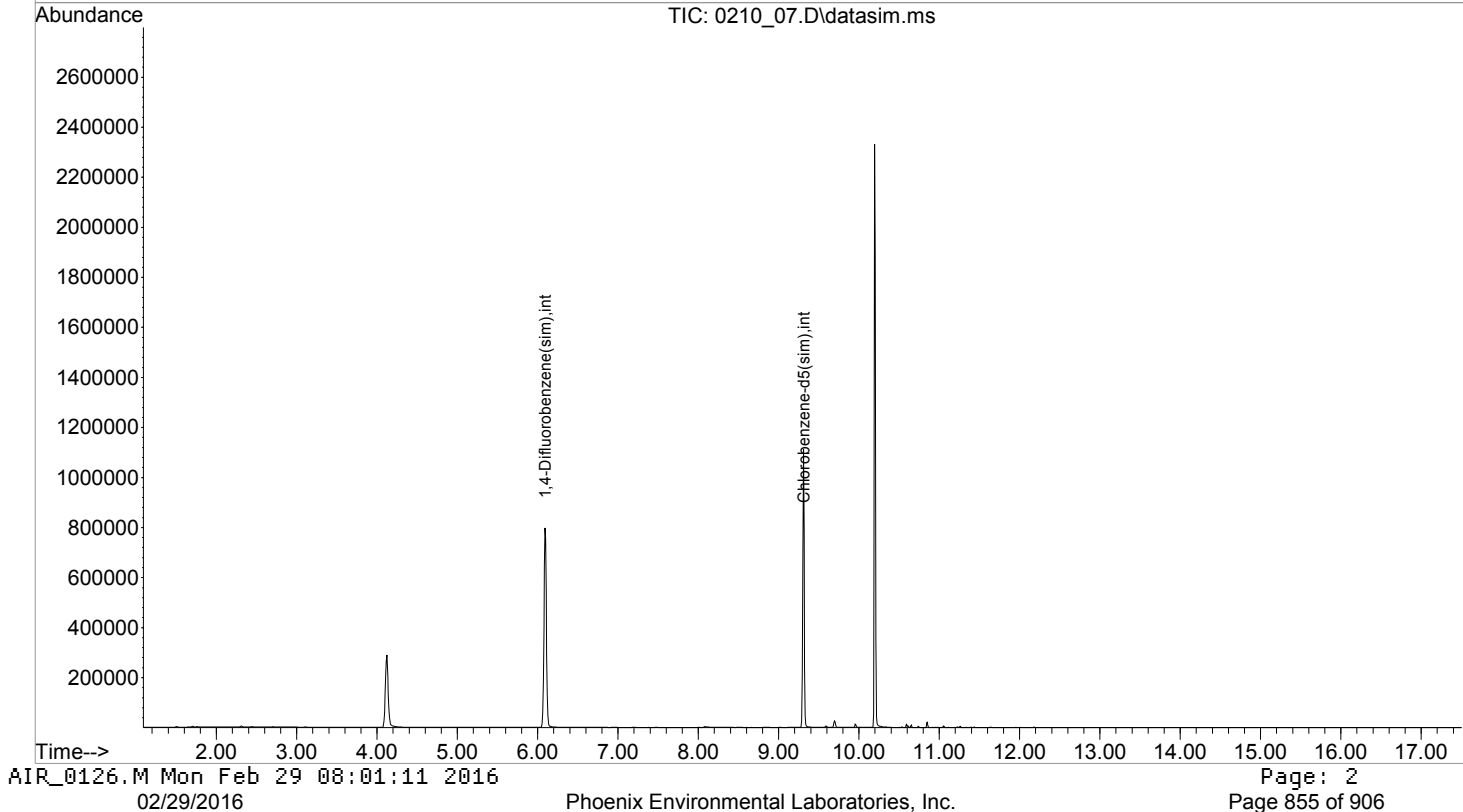
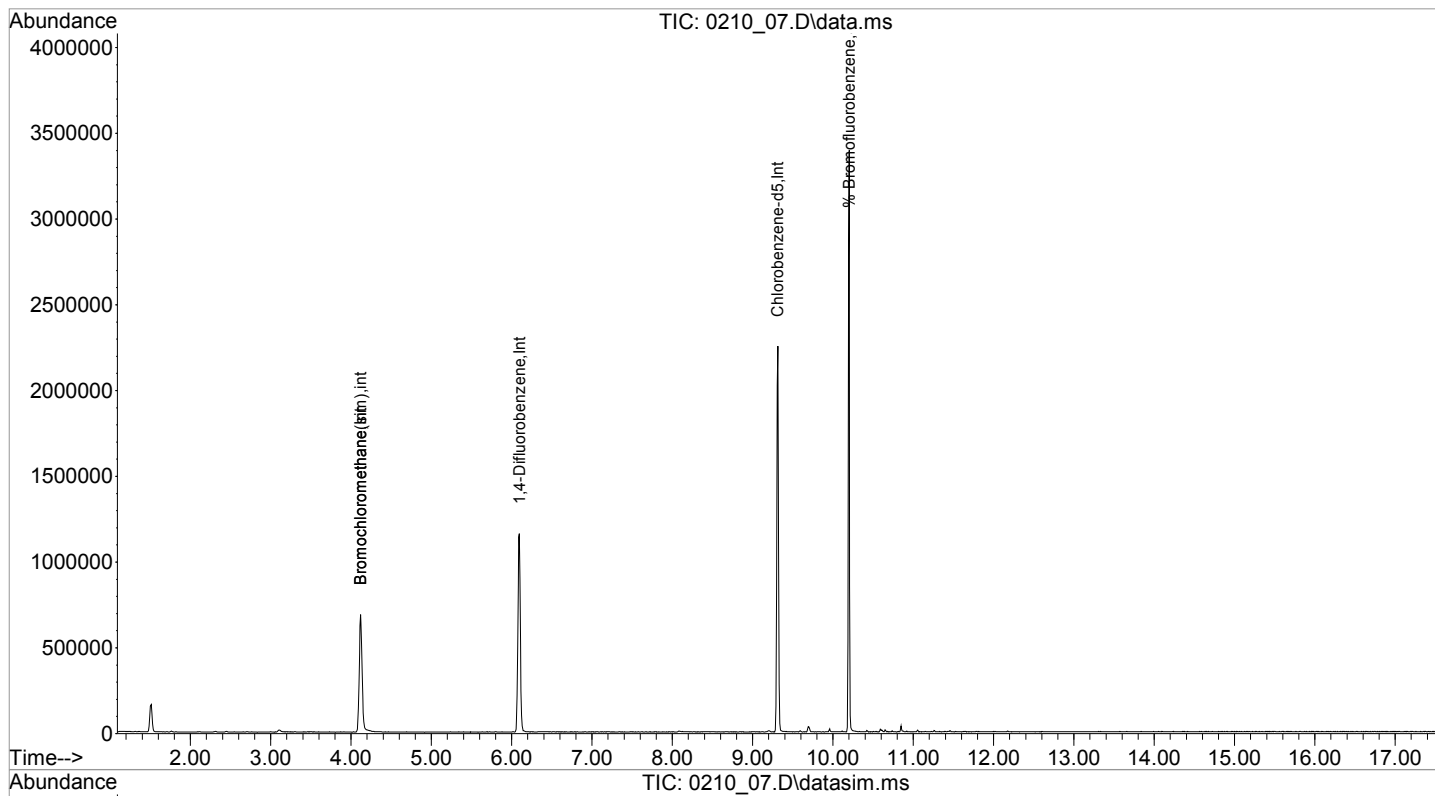
Internal Standards						
1) Bromochloromethane	4.118	130	304206	10.000	ng	0.02
36) 1,4-Difluorobenzene	6.096	114	1064554	10.000	ng	0.02
53) Chlorobenzene-d5	9.313	82	550186	10.000	ng	0.02
80) Bromochloromethane(sim)	4.118	130	304206	10.000	ng	0.02
87) 1,4-Difluorobenzene(sim)	6.091	114	1215313	10.000	ng	# 0.01
94) Chlorobenzene-d5(sim)	9.313	82	550186	10.000	ng	# 0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	10.200	95	677907	10.009	ppbv	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.10%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2016\CHEM24\02FEB\09\
Data File : 0210_07.D
Acq On : 10 Feb 2016 12:23 pm
Operator : Keith
Client ID : CANISTER BLK CERT ; 6L #9767
Lab ID : CANISTER BLK CERT ; 6L #9767
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Feb 10 12:41:49 2016
Quant Method : H:\AIR2016\CHEM24\METHODS\AIR_0126.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Feb 02 13:31:03 2016
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id: 818
QC Canister Id: 217
Canister Ids: 217

Certified: ☒
Certified Date: 2/9/2016 7:27:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #21

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_05.D\0209_05-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.1292	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 818
QC Canister Id: 217
Canister Ids: 217

Certified: ☒
Certified Date: 2/9/2016 7:27:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #21

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_05.D\0209_05-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 819
QC Canister Id: 216
Canister Ids: 216

Certified: ☒
Certified Date: 2/9/2016 8:00:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #21

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_06.D\0209_06-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.1533	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 819
QC Canister Id: 216
Canister Ids: 216

Certified: ☒
Certified Date: 2/9/2016 8:00:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #21

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_06.D\0209_06-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 820
QC Canister Id: 367
Canister Ids: 367

Certified: ☒
Certified Date: 2/9/2016 8:32:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #36

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_07.D\0209_07-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0748	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 820
QC Canister Id: 367
Canister Ids: 367

Certified: ☒
Certified Date: 2/9/2016 8:32:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #36

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_07.D\0209_07-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0.0521
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 821
QC Canister Id: 11257
Canister Ids: 11257

Certified: ☒
Certified Date: 2/9/2016 9:04:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #11

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_08.D\0209_08-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.1591	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 821
QC Canister Id: 11257
Canister Ids: 11257

Certified: ☒
Certified Date: 2/9/2016 9:04:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #11

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_08.D\0209_08-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 822
QC Canister Id: 12866
Canister Ids: 12866

Certified: ☒
Certified Date: 2/9/2016 9:36:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_09.D\0209_09-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.9482	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 822
QC Canister Id: 12866
Canister Ids: 12866

Certified: ☒
Certified Date: 2/9/2016 9:36:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_09.D\0209_09-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 825
QC Canister Id: 221
Canister Ids: 221

Certified: ☒
Certified Date: 2/9/2016 11:13:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #22

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_12.D\0209_12-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0284	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 825
QC Canister Id: 221
Canister Ids: 221

Certified: ☒
Certified Date: 2/9/2016 11:13:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #22

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_12.D\0209_12-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 826
QC Canister Id: 457
Canister Ids: 457

Certified: ☒
Certified Date: 2/9/2016 11:46:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #45

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_13.D\0209_13-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0051	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 826
QC Canister Id: 457
Canister Ids: 457

Certified: ☒
Certified Date: 2/9/2016 11:46:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #45

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_13.D\0209_13-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 827
QC Canister Id: 469
Canister Ids: 469

Certified: ☒
Certified Date: 2/10/2016 12:18:00 AM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #46

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_14.D\0209_14-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0279	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 827
QC Canister Id: 469
Canister Ids: 469

Certified: ☒
Certified Date: 2/10/2016 12:18:00 AM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #46

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0209_14.D\0209_14-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 828
QC Canister Id:
Canister Ids: 222

Certified: ☒
Certified Date: 2/10/2016 11:51:00 AM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #22

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_06.D\0210_06-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0387	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 828
QC Canister Id:
Canister Ids: 222

Certified: ☒
Certified Date: 2/10/2016 11:51:00 AM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #22

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_06.D\0210_06-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 829
QC Canister Id: 9767
Canister Ids: 9767

Certified: ☒
Certified Date: 2/10/2016 12:23:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #97

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_07.D\0210_07-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0088	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 829
QC Canister Id: 9767
Canister Ids: 9767

Certified: ☒
Certified Date: 2/10/2016 12:23:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #97

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_07.D\0210_07-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 830
QC Canister Id: 172
Canister Ids: 172

Certified: ☒
Certified Date: 2/10/2016 4:21:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #17

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_14.D\0210_14-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.1554	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0.2082	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.1997	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 830
QC Canister Id: 172
Canister Ids: 172

Certified: ☒
Certified Date: 2/10/2016 4:21:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #17

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_14.D\0210_14-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 831
QC Canister Id: 368
Canister Ids: 368

Certified: ☒
Certified Date: 2/10/2016 4:53:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #36

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_15.D\0210_15-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.9467	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.1599	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 831
QC Canister Id: 368
Canister Ids: 368

Certified: ☒
Certified Date: 2/10/2016 4:53:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #36

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_15.D\0210_15-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 832
QC Canister Id: 12867
Canister Ids: 12867

Certified: ☒
Certified Date: 2/10/2016 5:25:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_16.D\0210_16-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.7545	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 832
QC Canister Id: 12867
Canister Ids: 12867

Certified: ☒
Certified Date: 2/10/2016 5:25:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_16.D\0210_16-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 833
QC Canister Id: 492
Canister Ids: 492

Certified: ☒
Certified Date: 2/10/2016 5:57:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #49

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_17.D\0210_17-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.7783	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.1742	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 833
QC Canister Id: 492
Canister Ids: 492

Certified: ☒
Certified Date: 2/10/2016 5:57:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #49

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_17.D\0210_17-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 834
QC Canister Id: 12855
Canister Ids: 12855

Certified: ☒
Certified Date: 2/10/2016 6:29:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_18.D\0210_18-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.8624	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.1588	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 834
QC Canister Id: 12855
Canister Ids: 12855

Certified: ☒
Certified Date: 2/10/2016 6:29:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.
Data File: H:\AIR2016\CHEM24\02FEB\09\0210_18.D\0210_18-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 835
QC Canister Id: 219
Canister Ids: 219

Certified: ☒
Certified Date: 2/10/2016 7:01:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #21

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_19.D\0210_19-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.7726	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 835
QC Canister Id: 219
Canister Ids: 219

Certified: ☒
Certified Date: 2/10/2016 7:01:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #21

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_19.D\0210_19-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 836
QC Canister Id:
Canister Ids: 13650

Certified: ☒
Certified Date: 2/10/2016 7:38:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #13

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_20.D\0210_20-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.7728	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0.18	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.877	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0.2151
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 836
QC Canister Id:
Canister Ids: 13650

Certified: ☒
Certified Date: 2/10/2016 7:38:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #13

Comment: Initial vacuum of all canisters in this batch is -30 psig.
Data File: H:\AIR2016\CHEM24\02FEB\09\0210_20.D\0210_20-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 837
QC Canister Id: 223
Canister Ids: 223

Certified: ☒
Certified Date: 2/10/2016 1:09:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #22

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_08.D\0210_08-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.9242	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 837
QC Canister Id: 223
Canister Ids: 223

Certified: ☒
Certified Date: 2/10/2016 1:09:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #22

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_08.D\0210_08-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 838
QC Canister Id: 12862
Canister Ids: 12862

Certified: ☒
Certified Date: 2/10/2016 2:13:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_10.D\0210_10-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.9774	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 838
QC Canister Id: 12862
Canister Ids: 12862

Certified: ☒
Certified Date: 2/10/2016 2:13:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #12

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_10.D\0210_10-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 839
QC Canister Id: 488
Canister Ids: 488

Certified: ☒
Certified Date: 2/10/2016 2:45:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #48

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_11.D\0210_11-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.0052	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 839
QC Canister Id: 488
Canister Ids: 488

Certified: ☒
Certified Date: 2/10/2016 2:45:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #48

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_11.D\0210_11-AIR_0126.RR

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Canister Cleaning Certification

Batch Id: 841
QC Canister Id: 13651
Canister Ids: 13651

Certified: ☒
Certified Date: 2/10/2016 3:49:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #13

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2016\CHEM24\02FEB\09\0210_13.D\0210_13-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.6772	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethene	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-dichloropropane	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard)	10
1,4-Dioxane	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	cis-1,3-Dichloropropene	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.1643	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0

Canister Cleaning Certification

Batch Id: 841
QC Canister Id: 13651
Canister Ids: 13651

Certified: ☒
Certified Date: 2/10/2016 3:49:00 PM
Certified By: KCA
Certified Computer: AIRLABPL223
Sample Id: CERT BLK ; 6L #13

Comment: Initial vacuum of all canisters in this batch is -30 psig.
Data File: H:\AIR2016\CHEM24\02FEB\09\0210_13.D\0210_13-AIR_0126.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Injection Log

Data Directory: H:\AIR2016\CHEM20\02FEB\22\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	0	0222_70.D	*** No MS or GC data present ***		N/A
2)	1	0222_01.D	0/0		02/22/16 7:08
3)	1	0222_02.D	BFB TUNE - CCAL 1	1.0ppb - 1.0ppb	02/22/16 7:43
4)	1	0222_03.D	CCAL 10	10ppb	02/22/16 8:19
5)	1	0222_04.D	BK67666 LCS	BK67666 LCS	02/22/16 8:56
6)	1	0222_05.D	0/0		02/22/16 9:30
7)	1	0222_06.D	BK67666 BLANK	BK67666 BLANK	02/22/16 10:03
8)	1	0222_07.D	IA-3	BK67651	02/22/16 11:13
9)	1	0222_08.D	AA-2	BK67654	02/22/16 11:51
10)	1	0222_09.D	IA-6	BK67656	02/22/16 12:30
11)	1	0222_10.D	IA-5	BK67657	02/22/16 13:10
12)	1	0222_11.D	AA-1	BK67661	02/22/16 13:49
13)	1	0222_12.D	IA-1	BK67664	02/22/16 18:09
14)	1	0222_13.D	67665		02/22/16 19:43
15)	1	0222_14.D	AA-3	BK67666	02/22/16 20:22
16)	1	0222_15.D	AA-3 DUP	BK67666 DUP	02/22/16 21:01
17)	1	0222_16.D	IA-4	BK67667	02/22/16 21:39
18)	1	0222_17.D	IA-8	BK67652	02/22/16 22:21
19)	1	0222_18.D	IA-9	BK67669	02/22/16 23:01
20)	1	0222_19.D	IA-2	BK67670	02/22/16 23:40
21)	1	0222_20.D	SS-5	BK67653 10X	02/23/16 0:17
22)	1	0222_21.D	SS-6	BK67655 10X	02/23/16 0:54
23)	1	0222_22.D	SS-2	BK67658 10X	02/23/16 1:31
24)	1	0222_23.D	67659 10x		02/23/16 2:08
25)	1	0222_24.D	0/0		02/23/16 2:41
26)	1	0222_25.D	0/0		02/23/16 3:14
27)	1	0222_26.D	BFB TUNE - CCAL 1	1.0ppb - 1.0ppb	02/23/16 3:50
28)	1	0222_27.D	CCAL 10	10ppb	02/23/16 4:26
29)	1	0222_28.D	BK67659 LCS	BK67659 LCS	02/23/16 5:03
30)	1	0222_29.D	0/0		02/23/16 5:36
31)	1	0222_30.D	BK67659 BLANK	BK67659 BLANK	02/23/16 6:10
32)	1	0222_31.D	SS-8	BK67659	02/23/16 7:03
33)	1	0222_32.D	SS-8 DUP	BK67659 DUP	02/23/16 7:43
34)	1	0222_33.D	blk 851		02/23/16 8:25
35)	1	0222_34.D	blk 849		02/23/16 9:23
36)	1	0222_35.D	blk 850		02/23/16 10:01
37)	1	0222_36.D	IA-7	BK67665	02/23/16 10:43
38)	1	0222_37.D	SS-9	BK67660 10X	02/23/16 11:20
39)	1	0222_38.D	SS-1	BK67662 10X	02/23/16 11:57
40)	1	0222_39.D	SS-4	BK67663 10X	02/23/16 12:33
41)	1	0222_40.D	SS-7 DIL	BK67668 10X	02/23/16 13:10
42)	1	0222_41.D	SS-3	BK67671 10X	02/23/16 13:47
43)	1	0222_42.D	SS-7	BK67668	02/23/16 14:58
44)	1	0222_43.D	68100		02/23/16 15:37
45)	1	0222_44.D	68102		02/23/16 16:17
46)	1	0222_45.D	68101 10x		02/23/16 16:54
47)	1	0222_46.D	SS-5 DIL	BK67653 30X	02/23/16 17:30
48)	1	0222_47.D	67655 15x; 5x		02/23/16 18:05
49)	1	0222_48.D	67658 3x; 10x		02/23/16 18:41
50)	1	0222_49.D	SS-9 DIL	BK67660 30X	02/23/16 19:17
51)	1	0222_50.D	SS-1 DIL	BK67662 30X	02/23/16 19:53
52)	1	0222_51.D	SS-4 DIL	BK67663 30X	02/23/16 20:29
53)	1	0222_52.D	SS-3 DIL	BK67671 30X	02/23/16 21:06
54)	1	0222_53.D	60246		02/23/16 21:44
55)	1	0222_54.D	60246 dup		02/23/16 22:22
56)	1	0222_55.D	68101		02/23/16 23:02
57)	1	0222_56.D	0/0		02/23/16 23:35
58)	1	0222_57.D	0/0		02/24/16 0:08
59)	1	0222_58.D	CCAL 1	1.0ppb	02/24/16 0:44
60)	1	0222_59.D	CCAL 10	10ppb	02/24/16 1:19
61)	1	0222_60.D	0/0		02/24/16 1:52
62)	1	0222_61.D	0/0		02/24/16 2:25
63)	1	0222_62.D	1.0ppb new		02/24/16 3:02
64)	1	0222_63.D	10ppb new		02/24/16 3:39
65)	1	0222_64.D	10ppb lcs new		02/24/16 4:17
66)	1	0222_65.D	0/0		02/24/16 4:50

67)	1	0222_66.D	0/0	02/24/16	5:23
68)	1	0222_67.D	68461 10x	02/24/16	6:00
69)	1	0222_68.D	68462 10x	02/24/16	6:37
70)	1	0222_69.D	68463 10x	02/24/16	7:14
71)	1	0222_71.D	test	02/24/16	12:13
72)	1	0222_72.D	test	02/24/16	15:14

Injection Log

Data Directory: H:\AIR2016\CHEM24\02FEB\09\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	0	0209_15.D	*** No MS or GC data present ***		N/A
2)	0	0209_04A.D	*** No MS or GC data present ***		N/A
3)	44	0209_01.D	0/0		02/09/16 12:41
4)	45	0209_02.D	1PPB CC		02/09/16 13:10
5)	46	0209_03.D	CERT BLK ; 6L #11257		02/09/16 14:54
6)	47	0209_04.D	CERT BLK ; 6L #12866		02/09/16 15:26
7)	48	0209_05.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 19:27
8)	49	0209_06.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 20:00
9)	50	0209_07.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 20:32
10)	51	0209_08.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 21:04
11)	52	0209_09.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 21:36
12)	53	0209_10.D	CERT BLK ; 6L #13640		02/09/16 22:09
13)	54	0209_11.D	CERT BLK ; 6L #12872		02/09/16 22:41
14)	55	0209_12.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 23:13
15)	56	0209_13.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 23:46
16)	57	0209_14.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 0:18
17)	59	0210_01.D	1PPB CK		02/10/16 8:47
18)	60	0210_02.D	BLK 816		02/10/16 9:41
19)	61	0210_03.D	CERT BLK ; 6L #223		02/10/16 10:14
20)	62	0210_04.D	CERT BLK ; 6L #12862		02/10/16 10:46
21)	63	0210_05.D	CERT BLK ; 6L #367 RR		02/10/16 11:18
22)	64	0210_06.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 11:51
23)	65	0210_07.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 12:23
24)	66	0210_08.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 13:09
25)	67	0210_09.D	CERT BLK ; 6L #367		02/10/16 13:41
26)	68	0210_10.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 14:13
27)	69	0210_11.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 14:45
28)	70	0210_12.D	CERT BLK ; 6L #489		02/10/16 15:17
29)	71	0210_13.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 15:49
30)	72	0210_14.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 16:21
31)	73	0210_15.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 16:53
32)	74	0210_16.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 17:25
33)	75	0210_17.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 17:57
34)	76	0210_18.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 18:29
35)	77	0210_19.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 19:01
36)	78	0210_20.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 19:38
37)	79	0210_21.D	CERT BLK ; 6L #490		02/10/16 20:11
38)	80	0210_22.D	0/0		02/10/16 20:38
39)	81	0210_23.D	0.2PPB MA		02/10/16 21:05
40)	82	0210_24.D	0.5PPB MA		02/10/16 21:33
41)	83	0210_25.D	1PPB MA		02/10/16 22:02
42)	84	0210_26.D	2.5PPB MA		02/10/16 22:35
43)	85	0210_27.D	5PPB MA		02/10/16 23:03
44)	86	0210_28.D	10PPB MA		02/10/16 23:32
45)	87	0210_29.D	25PPB MA		02/11/16 0:52
46)	88	0210_30.D	40PPB MA		02/11/16 1:27
47)	89	0210_31.D	0/0		02/11/16 1:54
48)	90	0210_32.D	0/0		02/11/16 2:21
49)	91	0210_33.D	1PPB		02/11/16 2:50
50)	92	0210_34.D	10PPB		02/11/16 3:19
51)	93	0210_35.D	2.5PPB MA		02/11/16 3:51
52)	94	0210_36.D	10PPB LCS		02/11/16 4:23
53)	95	0210_37.D	0/0		02/11/16 4:50
54)	96	0210_38.D	0/0		02/11/16 5:17
55)	97	0210_39.D	blk 817		02/11/16 8:22

Injection Log

Data Directory: H:\AIR2016\CHEM20\02FEB\19A\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	1	0219_01.D	BFB TUNE	0/0	02/19/16 16:50
2)	1	0219_02.D	0/0		02/19/16 17:28
3)	1	0219_03.D	0.01ppb		02/19/16 18:08
4)	1	0219_04.D	0.02ppb		02/19/16 18:47
5)	1	0219_05.D	ICAL 0.035	0.035ppb	02/19/16 19:27
6)	1	0219_06.D	ICAL 0.05	0.05ppb	02/19/16 20:07
7)	1	0219_07.D	ICAL 0.1	0.10ppb	02/19/16 20:47
8)	1	0219_08.D	ICAL 0.2	0.2ppb	02/19/16 21:27
9)	1	0219_09.D	ICAL 0.5	0.5ppb	02/19/16 22:09
10)	1	0219_10.D	ICAL 1	1.0ppb	02/19/16 22:51
11)	1	0219_11.D	ICAL 2.5	2.5ppb	02/19/16 23:28
12)	1	0219_12.D	ICAL 5	5.0ppb	02/20/16 0:03
13)	1	0219_13.D	ICAL 10	10ppb	02/20/16 0:38
14)	1	0219_14.D	ICAL 25	25ppb	02/20/16 1:15
15)	1	0219_15.D	ICAL 40	40ppb	02/20/16 1:54
16)	1	0219_16.D	10PPB LCS		02/20/16 2:31
17)	1	0219_17.D	0/0		02/20/16 3:05
18)	1	0219_18.D	0/0		02/20/16 3:38

Injection Log

Data Directory: H:\AIR2016\CHEM20\02FEB\22\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	0	0222_70.D	*** No MS or GC data present ***		N/A
2)	1	0222_01.D	0/0		02/22/16 7:08
3)	1	0222_02.D	BFB TUNE - CCAL 1	1.0ppb - 1.0ppb	02/22/16 7:43
4)	1	0222_03.D	CCAL 10	10ppb	02/22/16 8:19
5)	1	0222_04.D	BK67666 LCS	BK67666 LCS	02/22/16 8:56
6)	1	0222_05.D	0/0		02/22/16 9:30
7)	1	0222_06.D	BK67666 BLANK	BK67666 BLANK	02/22/16 10:03
8)	1	0222_07.D	IA-3	BK67651	02/22/16 11:13
9)	1	0222_08.D	AA-2	BK67654	02/22/16 11:51
10)	1	0222_09.D	IA-6	BK67656	02/22/16 12:30
11)	1	0222_10.D	IA-5	BK67657	02/22/16 13:10
12)	1	0222_11.D	AA-1	BK67661	02/22/16 13:49
13)	1	0222_12.D	IA-1	BK67664	02/22/16 18:09
14)	1	0222_13.D	67665		02/22/16 19:43
15)	1	0222_14.D	AA-3	BK67666	02/22/16 20:22
16)	1	0222_15.D	AA-3 DUP	BK67666 DUP	02/22/16 21:01
17)	1	0222_16.D	IA-4	BK67667	02/22/16 21:39
18)	1	0222_17.D	IA-8	BK67652	02/22/16 22:21
19)	1	0222_18.D	IA-9	BK67669	02/22/16 23:01
20)	1	0222_19.D	IA-2	BK67670	02/22/16 23:40
21)	1	0222_20.D	SS-5	BK67653 10X	02/23/16 0:17
22)	1	0222_21.D	SS-6	BK67655 10X	02/23/16 0:54
23)	1	0222_22.D	SS-2	BK67658 10X	02/23/16 1:31
24)	1	0222_23.D	67659 10x		02/23/16 2:08
25)	1	0222_24.D	0/0		02/23/16 2:41
26)	1	0222_25.D	0/0		02/23/16 3:14
27)	1	0222_26.D	BFB TUNE - CCAL 1	1.0ppb - 1.0ppb	02/23/16 3:50
28)	1	0222_27.D	CCAL 10	10ppb	02/23/16 4:26
29)	1	0222_28.D	BK67659 LCS	BK67659 LCS	02/23/16 5:03
30)	1	0222_29.D	0/0		02/23/16 5:36
31)	1	0222_30.D	BK67659 BLANK	BK67659 BLANK	02/23/16 6:10
32)	1	0222_31.D	SS-8	BK67659	02/23/16 7:03
33)	1	0222_32.D	SS-8 DUP	BK67659 DUP	02/23/16 7:43
34)	1	0222_33.D	blk 851		02/23/16 8:25
35)	1	0222_34.D	blk 849		02/23/16 9:23
36)	1	0222_35.D	blk 850		02/23/16 10:01
37)	1	0222_36.D	IA-7	BK67665	02/23/16 10:43
38)	1	0222_37.D	SS-9	BK67660 10X	02/23/16 11:20
39)	1	0222_38.D	SS-1	BK67662 10X	02/23/16 11:57
40)	1	0222_39.D	SS-4	BK67663 10X	02/23/16 12:33
41)	1	0222_40.D	SS-7 DIL	BK67668 10X	02/23/16 13:10
42)	1	0222_41.D	SS-3	BK67671 10X	02/23/16 13:47
43)	1	0222_42.D	SS-7	BK67668	02/23/16 14:58
44)	1	0222_43.D	68100		02/23/16 15:37
45)	1	0222_44.D	68102		02/23/16 16:17
46)	1	0222_45.D	68101 10x		02/23/16 16:54
47)	1	0222_46.D	SS-5 DIL	BK67653 30X	02/23/16 17:30
48)	1	0222_47.D	67655 15x; 5x		02/23/16 18:05
49)	1	0222_48.D	67658 3x; 10x		02/23/16 18:41
50)	1	0222_49.D	SS-9 DIL	BK67660 30X	02/23/16 19:17
51)	1	0222_50.D	SS-1 DIL	BK67662 30X	02/23/16 19:53
52)	1	0222_51.D	SS-4 DIL	BK67663 30X	02/23/16 20:29
53)	1	0222_52.D	SS-3 DIL	BK67671 30X	02/23/16 21:06
54)	1	0222_53.D	60246		02/23/16 21:44
55)	1	0222_54.D	60246 dup		02/23/16 22:22
56)	1	0222_55.D	68101		02/23/16 23:02
57)	1	0222_56.D	0/0		02/23/16 23:35
58)	1	0222_57.D	0/0		02/24/16 0:08
59)	1	0222_58.D	CCAL 1	1.0ppb	02/24/16 0:44
60)	1	0222_59.D	CCAL 10	10ppb	02/24/16 1:19
61)	1	0222_60.D	0/0		02/24/16 1:52
62)	1	0222_61.D	0/0		02/24/16 2:25
63)	1	0222_62.D	1.0ppb new		02/24/16 3:02
64)	1	0222_63.D	10ppb new		02/24/16 3:39
65)	1	0222_64.D	10ppb lcs new		02/24/16 4:17
66)	1	0222_65.D	0/0		02/24/16 4:50

67)	1	0222_66.D	0/0	02/24/16	5:23
68)	1	0222_67.D	68461 10x	02/24/16	6:00
69)	1	0222_68.D	68462 10x	02/24/16	6:37
70)	1	0222_69.D	68463 10x	02/24/16	7:14
71)	1	0222_71.D	test	02/24/16	12:13
72)	1	0222_72.D	test	02/24/16	15:14

Injection Log

Data Directory: H:\AIR2016\CHEM24\02FEB\09\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	0	0209_15.D	*** No MS or GC data present ***		N/A
2)	0	0209_04A.D	*** No MS or GC data present ***		N/A
3)	44	0209_01.D	0/0		02/09/16 12:41
4)	45	0209_02.D	1PPB CC		02/09/16 13:10
5)	46	0209_03.D	CERT BLK ; 6L #11257		02/09/16 14:54
6)	47	0209_04.D	CERT BLK ; 6L #12866		02/09/16 15:26
7)	48	0209_05.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 19:27
8)	49	0209_06.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 20:00
9)	50	0209_07.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 20:32
10)	51	0209_08.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 21:04
11)	52	0209_09.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 21:36
12)	53	0209_10.D	CERT BLK ; 6L #13640		02/09/16 22:09
13)	54	0209_11.D	CERT BLK ; 6L #12872		02/09/16 22:41
14)	55	0209_12.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 23:13
15)	56	0209_13.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/09/16 23:46
16)	57	0209_14.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 0:18
17)	59	0210_01.D	1PPB CK		02/10/16 8:47
18)	60	0210_02.D	BLK 816		02/10/16 9:41
19)	61	0210_03.D	CERT BLK ; 6L #223		02/10/16 10:14
20)	62	0210_04.D	CERT BLK ; 6L #12862		02/10/16 10:46
21)	63	0210_05.D	CERT BLK ; 6L #367 RR		02/10/16 11:18
22)	64	0210_06.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 11:51
23)	65	0210_07.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 12:23
24)	66	0210_08.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 13:09
25)	67	0210_09.D	CERT BLK ; 6L #367		02/10/16 13:41
26)	68	0210_10.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 14:13
27)	69	0210_11.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 14:45
28)	70	0210_12.D	CERT BLK ; 6L #489		02/10/16 15:17
29)	71	0210_13.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 15:49
30)	72	0210_14.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 16:21
31)	73	0210_15.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 16:53
32)	74	0210_16.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 17:25
33)	75	0210_17.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 17:57
34)	76	0210_18.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 18:29
35)	77	0210_19.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 19:01
36)	78	0210_20.D	CANISTER BLK CERT ; 6L # CANISTER BLK CERT ;		02/10/16 19:38
37)	79	0210_21.D	CERT BLK ; 6L #490		02/10/16 20:11
38)	80	0210_22.D	0/0		02/10/16 20:38
39)	81	0210_23.D	0.2PPB MA		02/10/16 21:05
40)	82	0210_24.D	0.5PPB MA		02/10/16 21:33
41)	83	0210_25.D	1PPB MA		02/10/16 22:02
42)	84	0210_26.D	2.5PPB MA		02/10/16 22:35
43)	85	0210_27.D	5PPB MA		02/10/16 23:03
44)	86	0210_28.D	10PPB MA		02/10/16 23:32
45)	87	0210_29.D	25PPB MA		02/11/16 0:52
46)	88	0210_30.D	40PPB MA		02/11/16 1:27
47)	89	0210_31.D	0/0		02/11/16 1:54
48)	90	0210_32.D	0/0		02/11/16 2:21
49)	91	0210_33.D	1PPB		02/11/16 2:50
50)	92	0210_34.D	10PPB		02/11/16 3:19
51)	93	0210_35.D	2.5PPB MA		02/11/16 3:51
52)	94	0210_36.D	10PPB LCS		02/11/16 4:23
53)	95	0210_37.D	0/0		02/11/16 4:50
54)	96	0210_38.D	0/0		02/11/16 5:17
55)	97	0210_39.D	blk 817		02/11/16 8:22

Injection Log

Data Directory: H:\AIR2016\CHEM24\02FEB\23A\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	0	0223_71.D	*** No MS or GC data present ***		N/A
2)	2	0223_01.D	0/0		02/23/16 9:53
3)	3	0223_02.D	0/0		02/23/16 10:20
4)	4	0223_03.D	0/0		02/23/16 10:46
5)	5	0223_04.D	0/0		02/23/16 11:13
6)	6	0223_05.D	BFB TUNE	0/0	02/23/16 11:40
7)	3	0223_06.D	ICAL 0.035	0.035 ppb	02/23/16 12:07
8)	4	0223_07.D	ICAL 0.05	0.05 ppb	02/23/16 12:35
9)	5	0223_08.D	ICAL 0.1	0.1 ppb	02/23/16 13:02
10)	6	0223_09.D	ICAL 0.2	0.2 ppbv	02/23/16 13:31
11)	7	0223_10.D	ICAL 0.5	0.5 ppb	02/23/16 14:03
12)	8	0223_11.D	ICAL 1	1.0 ppb	02/23/16 14:32
13)	9	0223_12.D	ICAL 2.5	2.5 ppb	02/23/16 15:05
14)	10	0223_13.D	ICAL 5	5.0 ppb	02/23/16 15:33
15)	11	0223_14.D	ICAL 10	10ppb	02/23/16 16:02
16)	12	0223_15.D	ICAL 25	25ppb	02/23/16 16:34
17)	13	0223_16.D	ICAL 40	40ppb	02/23/16 17:09
18)	14	0223_17.D	10ppb lcs		02/23/16 17:41
19)	15	0223_18.D	0/0		02/23/16 18:08
20)	16	0223_19.D	0/0		02/23/16 18:35
21)	17	0223_20.D	60246		02/23/16 19:07
22)	18	0223_21.D	60246 dup		02/23/16 19:39
23)	19	0223_22.D	0/0		02/23/16 20:06
24)	20	0223_23.D	reg check #4961		02/23/16 20:38
25)	21	0223_24.D	reg check #4497		02/23/16 21:10
26)	22	0223_25.D	reg check #5348		02/23/16 21:43
27)	23	0223_26.D	reg check #4988		02/23/16 22:15
28)	24	0223_27.D	reg check #5658		02/23/16 22:48
29)	25	0223_28.D	reg check #3414		02/23/16 23:20
30)	26	0223_29.D	reg check #3220		02/24/16 0:41
31)	27	0223_30.D	reg check #5652		02/24/16 1:13
32)	28	0223_31.D	reg check #4980		02/24/16 1:46
33)	29	0223_32.D	reg check #5025		02/24/16 2:18
34)	30	0223_33.D	reg check #4976		02/24/16 2:51
35)	31	0223_34.D	x		02/24/16 3:23
36)	32	0223_35.D	x		02/24/16 3:55
37)	33	0223_36.D	x		02/24/16 4:28
38)	34	0223_37.D	x		02/24/16 5:00
39)	35	0223_38.D	BFB TUNE - CCAL 1	1ppb cc - 1ppb cc	02/24/16 5:29
40)	36	0223_39.D	CCAL 10	10ppb cc	02/24/16 5:58
41)	37	0223_40.D	BK68461 LCS	BK68461 LCS	02/24/16 6:31
42)	38	0223_41.D	BK68461 BLANK	BK68461 BLANK	02/24/16 6:57
43)	30	0223_42.D	reg check #3256		02/24/16 8:39
44)	31	0223_43.D	reg check #4492		02/24/16 9:12
45)	32	0223_44.D	reg check #4494		02/24/16 9:44
46)	33	0223_45.D	reg check #5654		02/24/16 10:17
47)	34	0223_46.D	SS-6 DIL	BK67655 150X	02/24/16 10:50
48)	35	0223_47.D	68101 16x; 5x		02/24/16 11:18
49)	36	0223_48.D	SS-2 DIL	BK67658 75X	02/24/16 11:46
50)	37	0223_49.D	SS-8 DIL	BK67659 5X	02/24/16 12:15
51)	38	0223_50.D	BK68461 QC	BK68461	02/24/16 12:47
52)	39	0223_51.D	BK68461 DUP	BK68461 DUP	02/24/16 13:19
53)	40	0223_52.D	68462		02/24/16 13:52
54)	41	0223_53.D	68463		02/24/16 14:24
55)	42	0223_54.D	60246		02/24/16 14:57
56)	43	0223_55.D	60246 dup		02/24/16 15:29
57)	44	0223_56.D	CCAL 1	1ppb cc	02/24/16 15:58
58)	45	0223_57.D	CCAL 10	10ppb cc	02/24/16 16:27
59)	46	0223_58.D	10ppb lcs		02/24/16 17:00
60)	47	0223_59.D	0/0		02/24/16 17:27
61)	48	0223_60.D	0/0		02/24/16 17:53
62)	49	0223_61.D	68966		02/24/16 18:41
63)	50	0223_62.D	68967		02/24/16 19:14
64)	51	0223_63.D	68968		02/24/16 19:46
65)	52	0223_64.D	68968 dup		02/24/16 20:19
66)	53	0223_65.D	68967 10x		02/24/16 20:47

67)	54	0223_66.D	68968	10x	02/24/16	21:15
68)	55	0223_67.D	0/0		02/24/16	21:42
69)	56	0223_68.D	68966	dup	02/24/16	22:14
70)	57	0223_69.D	1.0	ppb	02/24/16	22:45
71)	58	0223_70.D	10	ppb	02/24/16	23:14
72)	60	0223_72.D	68968	5x	02/25/16	9:08
73)	61	0223_73.D	68967	15x; 5x	02/25/16	9:50
74)	62	0223_74.D	10	ppb cc	02/25/16	10:44

APPENDIX D
Data Usability Summary Report

Data Usability Summary Report

Soil Vapor Intrusion Investigation
Former Imperial Cleaners Site
218 Lakeville Road, Lake Success, NY
VCP Site #V-00244-1

This Data Usability Summary Report (DUSR) has been prepared in accordance with the NYSDEC Draft DER-10 Appendix 2B Guidance for the Development of Data Usability Summary Reports. The DUSR provides a thorough evaluation of analytical data without using the services of an independent third party data validator. The primary objective of the DUSR is to determine whether or not the data presented meets project specific criteria for data quality and use.

The analytical data were evaluated by Ms. Jessica Bluth (Walden), whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume. The samples collected for laboratory analysis as part of the soil vapor intrusion investigation were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, NH, a NYSDOH ELAP certified laboratory, and analyzed for VOCs using USEPA Method TO-15 with the analytical detection limits set forth in the NYSDOH SVI guidance document. The DUSR process consisted of evaluating the analytical data package produced by Phoenix and answering the following questions.

1. Were there any deviations in the sampling protocol which deviated from established sampling procedures?

The regulators attached to the 6-liter Summa[®] canisters were set for 24 hours by the laboratory. The samples were collected over an average of approximately 26 hours, with a sampling flow rate well below the required maximum rate of 0.2 liters (200 mls) per minute.

2. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The sampling and analytical program outlined in the *Soil Vapor Intrusion Investigation Work Plan* (Work Plan; Walden, December 2015) was designed to conform to the NYSDEC ASP Category B and USEPA CLP deliverables criteria. Both field sampling and laboratory analytical activities were performed with built-in QA/QC programs. Duplicate samples were collected at a minimum of one sample per ten samples collected with a minimum of one of each type of sample (i.e. one sub-slab, one indoor air, and one outdoor air). The analytical

laboratory (Phoenix) included method blanks and batch QA/QC samples as part of their standard QA/QC program. Additionally, the samples were handled in compliance with the holding time allowances.

3. Have all holding times been met?

Times of sample receipt, extraction, and analysis have been inspected to determine whether the holding time specifications have been met. All of the samples were analyzed within the specified holding times.

4. Do all QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, and sample data fall within the protocol-required limits and specifications?

All of the primary sample data and QC data were reviewed. Duplicate sample analyses amongst the primary samples (sub-slab soil vapor, indoor air and ambient air) demonstrated a reasonable level of accuracy in the analytical results, and all of the data met the protocol-required criteria with only a few exceptions as noted below.

Batch QA/QC samples were run by the laboratory as part of their standard QA/QC program. Evaluation of the QA/QC data indicated that all laboratory control sample (LCS) recovery and relative percent difference (RPD) values were within required limits with the following exceptions:

- RPDs slightly above the designated limit of 20 were reported for 4-methyl-2-pentanone, acetone and chloromethane in one batch QA/QC sample. These values indicate the potential for slight variability (i.e. reduced precision) in the primary sample results for these analytes. For 4-methyl-2-pentanone and chloromethane, the QC sample results were very close to the reporting limit of $1.00 \mu\text{g}/\text{m}^3$; according to a laboratory representative, high RPDs are commonly reported under such circumstances. The RPD exceedances were minor and these compounds are not primary NYSDOH-specified contaminants of concern; therefore, this data does not present an issue.
- The LCS recovery for acetone slightly exceeded criteria in one QA/QC sample, indicating that the acetone results reported for the primary samples may be slightly biased high. Measurable concentrations of acetone were detected in all of the primary environmental samples; however, the concentrations were less than $150 \mu\text{g}/\text{m}^3$ and acetone is not a NYSDOH-specified contaminant of concern. Therefore, this LCS exceedance does not present an issue.

- An elevated RPD was reported for tetrachloroethene in one batch QA/QC sample, indicating potential variability in the primary tetrachloroethene sample results. Both the primary and duplicate QA/QC sample results were less than five times the reporting limit of 0.25 µg/m³; according to a laboratory representative, as per EPA guidance there is no criteria for RPD under such circumstances. Therefore, the reported RPD value does not present an issue for the relevance of the data.

In summary, although some of the QA/QC sample data did not meet required laboratory criteria, the reliability of the laboratory results should not be affected.

5. Have all the data been generated using established and agreed upon analytical protocols?

Laboratory analytical protocols have been developed by the USEPA and are published in USEPA Compendium Method TO-15 (Determination of Volatile Organic Compounds in Air Collected in Specially Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry). The review of the laboratory deliverables indicated that the analytical data for this project was generated following these standard protocols.

6. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

An evaluation of the raw data confirmed the accuracy of the results provided in the data summary sheets and the quality control verification forms included in the analytical data package prepared by the laboratory.

7. Have the correct data qualifiers been used?

The laboratory provided a list of qualifiers used in their data reporting. QC failures such as potential sample contamination by laboratory solvents or estimation of sample result values due to analyte concentrations detected above calibration ranges were checked back to the reported data to determine whether the qualifiers were properly used. The evaluation indicated that the laboratory flagged the data using the correct data qualifiers when necessary. The data qualifiers comply with the NYSDEC ASP 95 revised guidelines.

8. Have the minimum reporting limits been met?

The required reporting limits are 0.25 µg/m³ for TCE and 1.0 µg/m³ for all other reportable VOCs. The laboratory utilized reporting limits of 0.25 µg/m³ for PCE, TCE, vinyl chloride, and carbon tetrachloride, and 1.0 µg/m³ for all other reportable VOCs.

The required reporting limits were met for all samples with the exception of the sub-slab soil vapor samples (SS-1 through SS-9). According to a laboratory representative, these reporting limits could not be obtained for the sub-slab soil vapor samples due to the concentrations of PCE and other VOCs detected in these samples which were present at concentrations above the calibration range(s) for the laboratory instrumentation. Therefore, these samples were run at dilution factors greater than one (1), resulting in higher reporting limits for all reportable VOCs.

In summary, analytical data package review conducted when preparing this DUSR found no data deficiencies, analytical protocol deviations, or quality control problems that impact the quality of the data. No QC exceedances were identified and it was determined that none of the data should be rejected. Therefore, there is no need for resampling or reanalysis based on the evaluation presented herein.

Prepared by:
Jessica Bluth, M.S.



Jessica Bluth

Project Geologist

Ms. Bluth is one of Walden Associates' highly knowledgeable project geologists. She specializes in compliance inspections, tank removal, permitting and violation resolution. She has worked with a diverse clientele, including municipal, commercial, industrial and state markets. Ms. Bluth has conducted numerous soil/groundwater quality and sub-surface investigations and has also performed UST-related services for many commercial and industrial petroleum distribution sites throughout New York state.

EDUCATION

M.S. in Geology
University of Pittsburgh, 2004

B.S. Geology
State University of
New York at Binghamton,
Harpur College of Arts
and Sciences, 2001
cum laude

LICENSE/ CERTIFICATIONS

American Institute of
Professional Geologists
(AIPG)

Certified Professional
Geologist (CPG) certification
in progress

OSHA 40-hour HAZWOPER
Health and Safety Training

Current Loss Prevention
System (LPS) Training

Long Island Association of
Professional Geologists

SELECTED RELEVANT EXPERIENCE

Retail Petroleum Spill Sites, Long Island and New York City

Managed activities at 17 spill sites. Coordinated and performed field activities including groundwater and soil sampling, soil boring/well installations, well abandonments, subsurface utility markouts and waste disposal oversight. Prepared technical hydrogeologic reports (Subsurface Investigation Reports, Site Conceptual Models, Exposure Assessments, Well Abandonment Reports, etc.) and associated materials including hydrographs, geologic cross-sections, soil boring/well construction logs, groundwater potentiometric surface and flow direction maps, and contaminant concentration isocontour maps. Responsibilities included the analysis, interpretation and reporting of data (utilizing EQulS and GAMA for data management purposes); procurement and review of subcontractor proposals; compliance of project-related work with regulatory protocols and deadlines; third-party correspondence; providing direction to contractors and field technicians; and adherence to health and safety requirements.

Multi-Media Sampling Investigations, Long Island, New York City and Westchester County

Performed groundwater, soil/sediment, sub-slab/soil vapor, indoor air) sampling activities at developed and undeveloped residential, commercial, industrial and municipal sites in accordance with Phase II and other investigations as well as ongoing monitoring programs. Coordinated and directed subcontractors performing excavation and remedial activities, soil boring and well installation activities, utility markouts and ground-penetrating radar surveys. Performed and managed monitoring and remedial activities at New York State Brownfield, Inactive Hazardous Waste Disposal (Superfund), Voluntary Cleanup and Solid Waste Management Program sites throughout Long Island and New York City.



Department of Parks and Recreation, Village of East Hills, East Hills, NY

Conducted a 5-year compliance inspection on a 2,625 gallon AST for the Village's public pool. Developed a detailed Spill Response and Prevention Plan including flow diagrams for possible spill outcomes, first response methods, management responsibilities, instructions in case of fire, effects of the spill inside and outside of the secondary containment facility and instructions for spill reporting.

Department of Highways, Town of Hempstead, Inwood, NY

Performed "dry-as-a-bone" tightness tests on the facility's 2,500-gallon gasoline UST and 4,000-gallon diesel UST in accordance with Nassau County Fire Marshal's (NCFM) office. Worked with the Department of Highways to address several violations under the Nassau County Health Department (NCHD) and notified NCHD upon completion.

Various Retail Petroleum Sites

Worked with various industrial and commercial petroleum distribution sites throughout New York. Conducted UST removals, compliance testing, permitting and violation resolutions for a variety of clients.